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Summary of	NIMBUS 50 M - ARIANEXT 50 M - AEROTOP MONO 05X - ENERGION M 5	Reg. No.	ICIM-PDC- 000001	
Certificate Holder				
Name	Ariston Thermo Group			
Address	Viale Aristide Merloni 45	Zip	I-60044	
City	Fabriano (AN)	Country	Italy	
Certification Body	ICIM S.p.A.			
Subtype title	NIMBUS 50 M - ARIANEXT 50 M - AEROTOP MONO 05X - ENERGION M 5			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	1.88 kg			
Certification Date	19.12.2017			



# **Model: AEROTOP MONO 05M-RX 1Z**

Configure model			
Model name	AEROTOP MONO 05M-RX 1Z		
Application	Heating (medium temp)		
Units	Indoor + Outdoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	No		
Cooling mode application (optional)	n/a		

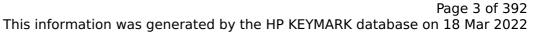
General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**





EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
$\eta_{s}$	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
COP Tj = -7°C	3.15	2.26	
Pdh Tj = +2°C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
COP Tj = +7°C	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	



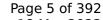


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

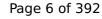
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





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Pdesignh	3.47 kW	2.98 kW
$\eta_{S}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COPTj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



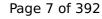


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was general		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# **Model: AEROTOP MONO 05M-RX 2Z**

Configure model		
Model name	AEROTOP MONO 05M-RX 2Z	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

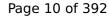
## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

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EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COPTj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



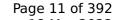


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

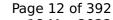
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





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Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
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# **Model: AEROTOP MONO 05M-RXL**

Configure model		
Model name	AEROTOP MONO 05M-RXL	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

COP

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

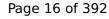
## **Average Climate**

5.02



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



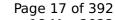


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

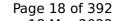
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





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Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



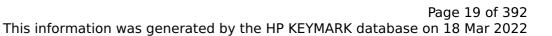


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





	ted by the HI KLIMAI	tik database on 10 Mai 2022
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
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# **Model: AEROTOP MONO 05M-X 1Z**

Configure model		
Model name	AEROTOP MONO 05M-X 1Z	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**

5.02



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



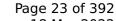


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
$COPTj = +2^{\circ}C$	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



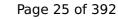


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





ins mornation was genera		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
J-	·	



# **Model: AEROTOP MONO 05M-X 2Z**

Configure model		
Model name	AEROTOP MONO 05M-X 2Z	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone Colder Climate + Warmer Climate		
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

# Heating

ture	Medium temperature
	3.80 kW

	Low temperature	medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



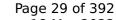


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

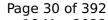
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		THE COLUMN TO THE PERSON TO TH
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

	<u> </u>	
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# **Model: ARIANEXT LITE 50 M LINK**

Configure model		
Model name	ARIANEXT LITE 50 M LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

	General Data	
Power supply	1x230V 50Hz	

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
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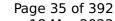


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

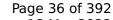
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Thirtic ducasase on 10 Mai 20
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



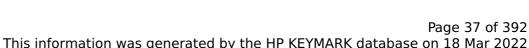


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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This information was generated by the HP KEYMARK database on 18 Mar 2022			
COP Tj = -7°C	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
$COP Tj = +2^{\circ}C$	5.11	3.89	
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW	
$COP Tj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
PCK	13 W	13 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	3.96 kW	4.00 kW	
Annual energy consumption Qhe	5175 kWh	7004 kWh	



# **Model: ARIANEXT LITE 50 M**

Configure model		
Model name	ARIANEXT LITE 50 M	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**

5.02



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



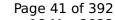


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





		THE WAR GOLD AND THE PARTY OF T
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





3.46	
	2.71
2.98 kW	3.17 kW
5.11	3.89
1.95 kW	2.03 kW
6.93	4.95
1.61 kW	1.60 kW
7.88	6.35
4.89 kW	5.19 kW
3.46	2.71
3.69 kW	3.18 kW
2.29	1.54
0.90	0.90
60 °C	60 °C
13 W	13 W
Electricity	Electricity
3.96 kW	4.00 kW
5175 kWh	7004 kWh
	5.11  1.95 kW  6.93  1.61 kW  7.88  4.89 kW  3.46  3.69 kW  2.29  0.90  60 °C  13 W  13 W  13 W  13 W  Electricity  3.96 kW



# **Model: ARIANEXT PLUS 50 M 2Z H LINK**

Configure model		
Model name	ARIANEXT PLUS 50 M 2Z H LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



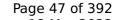


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825			
Low temperature Medium temperature			





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	43 dB(A)	43 dB(A)		
Sound power level outdoor	59 dB(A)	59 dB(A)		

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# **Model: ARIANEXT PLUS 50 M 2Z H**

Configure model		
Model name ARIANEXT PLUS 50 M 2Z H		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone Colder Climate + Warmer Climate		
Reversibility	No	
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

# Heating

Low temperature	Medium temperature
4.40 kW	3.80 kW

Heat output 4.40 kW 0.88 kW 1.32 kW El input 5.02 COP 2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



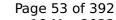


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

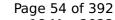
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825
Low temperature Medium temperature





		THE WAR GOLD AND THE PARTY OF T
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

Low temperature  8.08 kW	Medium temperature
8.08 kW	
	8.58 kW
151 %	118 %
8.08 kW	8.58 kW
3.85	3.02
-7 °C	-7 °C
-20 °C	-20 °C
4.89 kW	5.19 kW
_	7 °C 20 °C





This information was generated by the HP KETMARK database on 18 Mar 202		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# **Model: ARIANEXT PLUS 50 M 2Z LINK**

Configure model		
Model name	ARIANEXT PLUS 50 M 2Z LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

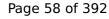
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



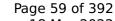


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

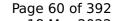
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





		THE WAR GOLD AND THE PARTY OF T
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	Low temperature	Medium temperature	
Pdesignh	8.08 kW	8.58 kW	
N <sub>S</sub>	151 %	118 %	
Prated	8.08 kW	8.58 kW	
SCOP	3.85	3.02	
Гbіv	-7 °C	-7 °C	
ГОL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.89 kW	5.19 kW	





This information was general		1
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	<del></del>	<del></del>



# **Model: ARIANEXT PLUS 50 M 2Z**

Configure model	
Model name	ARIANEXT PLUS 50 M 2Z
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

Low temperature

# Heating

Medium temperature

3.80 kW Heat output 4.40 kW 0.88 kW 1.32 kW El input COP 5.02 2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
$\eta_{s}$	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
COP Tj = -7°C	3.15	2.26	
Pdh Tj = +2°C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW	
COP Tj = +7°C	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	



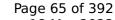


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

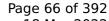
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
$COPTj = +2^{\circ}C$	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





3.46	
	2.71
2.98 kW	3.17 kW
5.11	3.89
1.95 kW	2.03 kW
6.93	4.95
1.61 kW	1.60 kW
7.88	6.35
4.89 kW	5.19 kW
3.46	2.71
3.69 kW	3.18 kW
2.29	1.54
0.90	0.90
60 °C	60 °C
13 W	13 W
Electricity	Electricity
3.96 kW	4.00 kW
5175 kWh	7004 kWh
	5.11  1.95 kW  6.93  1.61 kW  7.88  4.89 kW  3.46  3.69 kW  2.29  0.90  60 °C  13 W  13 W  13 W  13 W  Electricity  3.96 kW



# **Model: ARIANEXT PLUS 50 M H LINK**

Configure model		
Model name	ARIANEXT PLUS 50 M H LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

# Heating

Low temperature	Medium temperature	
4.40 kW	3.80 kW	

		- roundin componental c
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

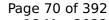
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



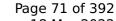


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

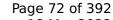
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	Thirtic ducasase on 10 Mai 20
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



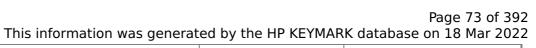


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

<b>Low temperature</b> 8.08 kW	Medium temperature 8.58 kW
8.08 kW	8.58 kW
151 %	118 %
8.08 kW	8.58 kW
3.85	3.02
-7 °C	-7 °C
-20 °C	-20 °C
4.89 kW	5.19 kW
	3.85 7 °C 20 °C





This information was generated by the HP KEYMARK database on 18 Mar 2022			
COP Tj = -7°C	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
$COP Tj = +2^{\circ}C$	5.11	3.89	
Pdh Tj = $+7$ °C	1.95 kW	2.03 kW	
$COP Tj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
РСК	13 W	13 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	3.96 kW	4.00 kW	
Annual energy consumption Qhe	5175 kWh	7004 kWh	



# **Model: ARIANEXT PLUS 50 M H**

Configure model		
Model name	ARIANEXT PLUS 50 M H	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

5.02

EN 14511-2				
Low temperature Medium temperature				
Heat output	4.40 kW	3.80 kW		
El input	0.88 kW	1.32 kW		

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



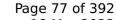


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





	ted by the HI KLIMAI	IN database on 10 Mai 2022
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	·	



# **Model: ARIANEXT PLUS 50 M LINK**

Configure model		
Model name ARIANEXT PLUS 50 M LINK		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

# Heating

Low temperature	Medium temperature
4.40 kW	3.80 kW

Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

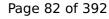
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



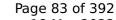


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	This will ductabase on 10 Mar 20
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# **Model: ARIANEXT PLUS 50 M**

Configure model		
Model name	ARIANEXT PLUS 50 M	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



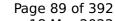


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

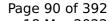
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		THE COLUMN TO THE PERSON TO TH
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature Medium temperature		Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was genera	ated by the HP KEYMAI	RK database on 18 Mar 202
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
		·



# Model: NIMBUS PLUS 50 M 2Z H NET

Configure model	
Model name	NIMBUS PLUS 50 M 2Z H NET
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

# Heating

COP

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**

5.02



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



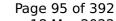


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

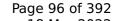
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825	
Low temperature Medium temperature	





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



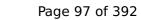


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature	Medium temperature	
8.08 kW	8.58 kW	
151 %	118 %	
8.08 kW	8.58 kW	
3.85	3.02	
-7 °C	-7 °C	
-20 °C	-20 °C	
4.89 kW	5.19 kW	
	8.08 kW 151 % 8.08 kW 3.85 -7 °C	





This information was general		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# **Model: NIMBUS PLUS 50 M 2Z NET**

Configure model		
Model name	NIMBUS PLUS 50 M 2Z NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone Colder Climate + Warmer Climate		
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

# Heating

Heat output

El input

COP

0.88 kW

5.02

Medium temperature
3.80 kW

1.32 kW

2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



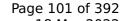


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
$COPTj = +2^{\circ}C$	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





3.46	
	2.71
2.98 kW	3.17 kW
5.11	3.89
1.95 kW	2.03 kW
6.93	4.95
1.61 kW	1.60 kW
7.88	6.35
4.89 kW	5.19 kW
3.46	2.71
3.69 kW	3.18 kW
2.29	1.54
0.90	0.90
60 °C	60 °C
13 W	13 W
Electricity	Electricity
3.96 kW	4.00 kW
5175 kWh	7004 kWh
	5.11  1.95 kW  6.93  1.61 kW  7.88  4.89 kW  3.46  3.69 kW  2.29  0.90  60 °C  13 W  13 W  13 W  13 W  Electricity  3.96 kW



# **Model: NIMBUS PLUS 50 M H NET**

Configure model		
Model name	NIMBUS PLUS 50 M H NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

5.02

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



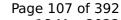


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

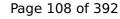
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



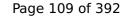


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

<b>Low temperature</b> 8.08 kW	Medium temperature 8.58 kW
8.08 kW	8.58 kW
151 %	118 %
8.08 kW	8.58 kW
3.85	3.02
-7 °C	-7 °C
-20 °C	-20 °C
4.89 kW	5.19 kW
	3.85 7 °C 20 °C





ring information was genera		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
1		



# **Model: NIMBUS PLUS 50 M NET**

Configure model		
Model name	NIMBUS PLUS 50 M NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

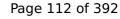
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
$\eta_{S}$	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
COP Tj = -7°C	3.15	2.26	
Pdh Tj = $+2^{\circ}$ C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
COP Tj = +7°C	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	
	,	1	



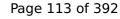


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

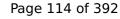
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





	,	YMARK database on 18 Mar
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COPTj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



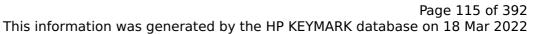


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
1s	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Гbіv	-7 °C	-7 °C
ГОL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





_	· · · · · · · · · · · · · · · · · · ·	T Gatabase on 10 Mai 2022
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# **Model: NIMBUS POCKET 50 M NET**

Configure model		
Model name	NIMBUS POCKET 50 M NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

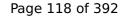
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{S}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
	'	'



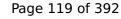


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

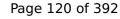
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		THE WAR GOLD AND THE PARTY OF T
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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## This information was generated by the HP KEYMARK database on 18 Mar 2022

3.46	2.71
2.98 kW	3.17 kW
5.11	3.89
1.95 kW	2.03 kW
6.93	4.95
1.61 kW	1.60 kW
7.88	6.35
4.89 kW	5.19 kW
3.46	2.71
3.69 kW	3.18 kW
2.29	1.54
0.90	0.90
60 °C	60 °C
13 W	13 W
Electricity	Electricity
3.96 kW	4.00 kW
5175 kWh	7004 kWh
	5.11  1.95 kW  6.93  1.61 kW  7.88  4.89 kW  3.46  3.69 kW  2.29  0.90  60 °C  13 W  13 W  13 W  13 W  Electricity  3.96 kW



# **Model: AEROTOP MONO 05M-CRX 1Z**

Configure model		
Model name	AEROTOP MONO 05M-CRX 1Z	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
COP	5.02	2.88	

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



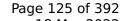


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

# EN 12102-1Low temperatureMedium temperatureSound power level indoor15 dB(A)15 dB(A)Sound power level outdoor59 dB(A)59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
$COPTj = +2^{\circ}C$	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



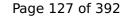


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	÷	

# Domestic Hot Water (DHW)



# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

## Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I



# **Model: AEROTOP MONO 05M-CRX 2Z**

Configure model		
Model name	AEROTOP MONO 05M-CRX 2Z	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511	-2
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	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

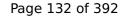
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



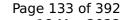


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

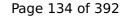
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



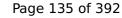


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

Low temperature  8.08 kW	Medium temperature
8.08 kW	
	8.58 kW
151 %	118 %
8.08 kW	8.58 kW
3.85	3.02
-7 °C	-7 °C
-20 °C	-20 °C
4.89 kW	5.19 kW
_	7 °C 20 °C





This information was general		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



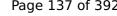
# Average Climate

EN 16147		
	\	
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

## Colder Climate





# $$\operatorname{\textit{Page}}\xspace$ 137 of 392 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	



# **Model: ARIANEXT COMPACT 50 M 2Z LINK**

Configure model		
Model name ARIANEXT COMPACT 50 M 2Z LINK		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



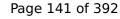


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





	,	YMARK database on 18 Mar
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COPTj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



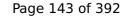


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	43 dB(A)	43 dB(A)		
Sound power level outdoor	59 dB(A)	59 dB(A)		

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
N <sub>S</sub>	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Гbіv	-7 °C	-7 °C
ГОL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



Average Climate

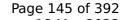
# This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147			
Declared load profile	XL		
Efficiency ηDHW	107 %		
СОР	2.60		
Heating up time	01:48 h:min		
Standby power input	44.0 W		
Reference hot water temperature	52.5 °C		
Mixed water at 40°C	246 I		

# Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

# **Model: ARIANEXT COMPACT 50 M LINK**

Configure model		
Model name	ARIANEXT COMPACT 50 M LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



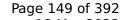


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

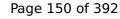
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





		THE WAR GOLD AND THE PARTY OF T
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



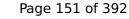


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



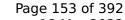
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

#### Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	



# **Model: ARIANEXT FLEX 50 M 2Z H LINK**

Configure model		
Model name	ARIANEXT FLEX 50 M 2Z H LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



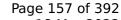


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

#### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



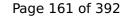
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

#### Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I



# **Model: ARIANEXT FLEX 50 M 2Z LINK**

Configure model		
Model name	ARIANEXT FLEX 50 M 2Z LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

COP

5.02

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



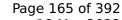


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



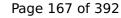


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



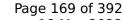
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

#### Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

# **Model: ARIANEXT FLEX 50 M H LINK**

Configure model		
Model name ARIANEXT FLEX 50 M H LINK		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

COP

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

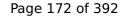
# **Average Climate**

5.02



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



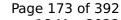


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



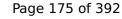


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



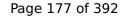
# Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I

#### Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246

#### Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I



# **Model: ARIANEXT FLEX 50 M LINK**

Configure model		
Model name ARIANEXT FLEX 50 M LINK		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

# Heating

Heat output

El input

COP

0.88 kW

5.02

Low temperature	Medium temperature
4.40 kW	3.80 kW

1.32 kW

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



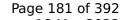


This information was generated by the Till RETHINAL database on 16 Mail 26.				
Pdh Tj = Tbiv	5.13 kW	5.19 kW		
COP Tj = Tbiv	3.15	2.26		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14		
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90		
WTOL	60 °C	60 °C		
Poff	13 W	13 W		
РТО	13 W	13 W		
PSB	13 W	13 W		
PCK	13 W	13 W		
Supplementary Heater: Type of energy input	Electricity	Electricity		
Supplementary Heater: PSUP	0.77 kW	0.86 kW		
Annual energy consumption Qhe	2678 kWh	3646 kWh		

# Warmer Climate

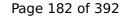
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	





	,	YMARK database on 18 Mar
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



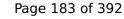


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



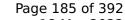
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	



# **Model: NIMBUS COMPACT 50 M 2Z NET**

Configure model			
Model name	NIMBUS COMPACT 50 M 2Z NET		
Application	Heating + DHW + low temp		
Units	Indoor + Outdoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	No		
Cooling mode application (optional)	n/a		

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

Low temperature

# Heating

Medium temperature

Heat output 4.40 kW 3.80 kW 0.88 kW 1.32 kW El input COP 5.02 2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



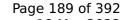


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



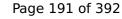


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



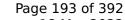
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

# Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
COP	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	



# **Model: NIMBUS COMPACT 50 M NET**

Configure model		
Model name	NIMBUS COMPACT 50 M NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

Low temperature

# Heating

Medium temperature
3.80 kW

Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{S}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2^{\circ}$ C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
	,	1



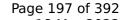


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





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Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η <sub>s</sub>	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Гbіv	-7 °C	-7 °C
ГОL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	•	

# Domestic Hot Water (DHW)

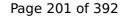
# Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I

# Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
COP	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

## Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I



# **Model: NIMBUS FLEX 50 M 2Z H NET**

Configure model	
Model name	NIMBUS FLEX 50 M 2Z H NET
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**

5.02



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



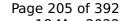


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)

# Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246

# Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 I

## Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246



# **Model: NIMBUS FLEX 50 M 2Z NET**

Configure model	
Model name	NIMBUS FLEX 50 M 2Z NET
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

# Heating

Heat output

5.02

El input

COP

	Low temperature	Medium temperature
	4.40 kW	3.80 kW
	0.88 kW	1.32 kW

2.88

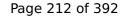
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



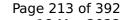


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

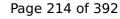
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



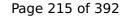


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	•	

# Domestic Hot Water (DHW)

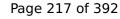
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

## Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	



# **Model: NIMBUS FLEX 50 M H NET**

Configure model		
Model name	NIMBUS FLEX 50 M H NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

5.02

EN 14511-2				
Low temperature Medium temperature				
Heat output	4.40 kW	3.80 kW		
El input	0.88 kW	1.32 kW		

2.88

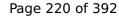
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
$\eta_{S}$	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
COP Tj = -7°C	3.15	2.26	
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW	
COP Tj = +7°C	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	
	'	'	



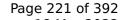


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





		THE WAR GOLD AND THE PARTY OF T
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



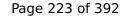


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)

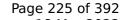
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

## Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246

## Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246



# **Model: NIMBUS FLEX 50 M NET**

Configure model		
Model name	NIMBUS FLEX 50 M NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

ΕN	14511-2	

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

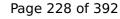
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{S}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2^{\circ}$ C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
	,	1



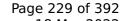


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

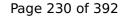
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



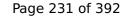


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η <sub>s</sub>	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Гbіv	-7 °C	-7 °C
ГОL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	÷	

# Domestic Hot Water (DHW)

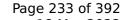
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	



# **Model: ARIANEXT COMPACT 50 M 2Z**

Configure model		
Model name	ARIANEXT COMPACT 50 M 2Z	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40

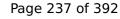




Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 I	



# **Model: ARIANEXT COMPACT 50 M**

Configure model		
Model name ARIANEXT COMPACT 50 M		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data	
Power supply	1x230V 50Hz

# Heating

COP

5.02

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

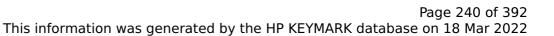
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40

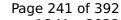




Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 l	



# **Model: ARIANEXT FLEX 50 M 2Z H**

Configure model		
Model name	ARIANEXT FLEX 50 M 2Z H	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

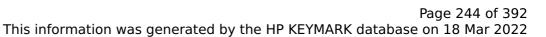
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40

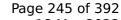




Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 I	



# **Model: ARIANEXT FLEX 50 M 2Z**

Configure model		
Model name	ARIANEXT FLEX 50 M 2Z	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

EN 14511-2			
Low temperature Medium temperature		Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**

5.02



EN 12102-1		
Low temperature Medium temperature		Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 I	



# **Model: ARIANEXT FLEX 50 M H**

Configure model		
Model name   ARIANEXT FLEX 50 M H		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

# Heating

Low temperature	Medium temperature
4.40 kW	3.80 kW

Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
$\eta_{s}$	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
COP Tj = -7°C	3.15	2.26	
Pdh Tj = +2°C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
COP Tj = +7°C	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	

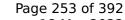




Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 l	



# **Model: ARIANEXT FLEX 50 M**

Configure model		
Model name ARIANEXT FLEX 50 M		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40

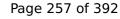




Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 l	



# **Model: ENERGION M PLUS 5**

Configure model		
Model name ENERGION M PLUS 5		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional) n/a		

General Data			
Power supply 1x230V 50Hz			

# Heating

COP

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**

5.02



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



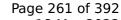


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## **Warmer Climate**

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was gener	ated by the fire ke	THANK database on 10 Mai
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



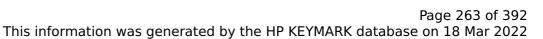


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825				
Low temperature   Medium temperatu				
Pdesignh	8.08 kW	8.58 kW		
$\eta_{s}$	151 %	118 %		
Prated	8.08 kW	8.58 kW		
SCOP	3.85	3.02		
Tbiv	-7 °C	-7 °C		
TOL	-20 °C	-20 °C		
Pdh Tj = -7°C	4.89 kW	5.19 kW		





This information was generated by the Fir RETMARK database on 10 Mai 2022			
COP Tj = -7°C	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
COP Tj = +2°C	5.11	3.89	
Pdh Tj = +7°C	1.95 kW	2.03 kW	
$COP Tj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
PCK	13 W	13 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	3.96 kW	4.00 kW	
Annual energy consumption Qhe	5175 kWh	7004 kWh	



# **Model: ENERGION M PLUS 5 2Z**

Configure model		
Model name	ENERGION M PLUS 5 2Z	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



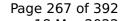


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	This will ductabase on 10 Mar 20
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W



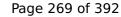


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





ring information was genera		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
1		



# **Model: ENERGION M COMPACT 5**

Configure model		
Model name	ENERGION M COMPACT 5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

	General Data	
Power supply	1x230V 50Hz	

# Heating

COP

5.02

	EN 14511-2		
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	

2.88

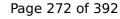
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



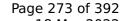


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

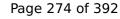
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



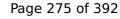


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

Low temperature  8.08 kW	Medium temperature
8.08 kW	
	8.58 kW
151 %	118 %
8.08 kW	8.58 kW
3.85	3.02
-7 °C	-7 °C
-20 °C	-20 °C
4.89 kW	5.19 kW
-	7 °C 20 °C





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	•	•

# Domestic Hot Water (DHW)

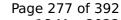
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

### Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	



# **Model: ENERGION M COMPACT 5 2Z**

Configure model		
Model name	ENERGION M COMPACT 5 2Z	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

COP

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

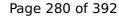
## **Average Climate**

5.02



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



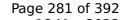


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

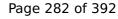
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





		With dutabase on 10 Mai 20
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W



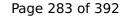


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	•	

# Domestic Hot Water (DHW)

# Average Climate

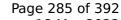
This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246

### Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246

#### Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246



# **Model: ENERGION M FLEX 180 e**

Configure model		
Model name	ENERGION M FLEX 180 e	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

5.02

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

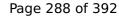
2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	15 dB(A)	15 dB(A)		
Sound power level outdoor	59 dB(A)	59 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
$\eta_{s}$	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
COP Tj = $-7^{\circ}$ C	3.15	2.26	
Pdh Tj = $+2^{\circ}$ C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
COP Tj = +7°C	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	
	·I	1	



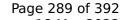


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



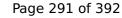


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



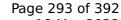
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

### Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	



# Model: ENERGION M FLEX 5 2Z 180 e

Configure model		
Model name	ENERGION M FLEX 5 2Z 180 e	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

# Heating

emperature	Medium temperature
W	3.80 kW

	Low temperature	medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



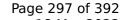


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

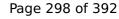
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





<u> </u>	•	YMARK database on 18 Mar
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W





PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



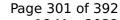
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

# Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

### Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	



# **Model: ENERGION M LIGHT 5**

Configure model		
Model name	ENERGION M LIGHT 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

5.02

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



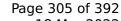


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	THE THE THE TENT OF THE TENT O
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if $TOL < Tdesignh$	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η <sub>s</sub>	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Гbіv	-7 °C	-7 °C
ГОL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





3.46	2.71
2.98 kW	3.17 kW
5.11	3.89
1.95 kW	2.03 kW
6.93	4.95
1.61 kW	1.60 kW
7.88	6.35
4.89 kW	5.19 kW
3.46	2.71
3.69 kW	3.18 kW
2.29	1.54
0.90	0.90
60 °C	60 °C
13 W	13 W
Electricity	Electricity
3.96 kW	4.00 kW
5175 kWh	7004 kWh
	2.98 kW 5.11 1.95 kW 6.93 1.61 kW 7.88 4.89 kW 3.46 3.69 kW 2.29 0.90 60 °C 13 W 13 W 13 W 13 W Electricity 3.96 kW



# **Model: ENERGION M HYBRIDall 5**

Configure model		
Model name	ENERGION M HYBRIDall 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

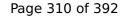
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



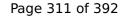


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

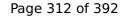
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		THE COLUMN TO THE PERSON TO TH
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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### This information was generated by the HP KEYMARK database on 18 Mar 2022

ring information was genera		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# Model: ATAG p ENERGION M HYBRIDzone 5

Configure model		
Model name	ATAG p ENERGION M HYBRIDzone 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data	
Power supply 1x230V 50Hz	

# Heating

COP

5.02

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW

2.88

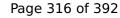
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



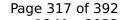


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

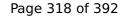
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825	
Low temperature Medium temperature	





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low te	emperature	Medium temperature
Pdesignh	8.08 kV	v	8.58 kW
$\eta_{S}$	151 %	:	118 %
Prated	8.08 kV	V	8.58 kW
SCOP	3.85		3.02
Tbiv	-7 °C	-	-7 °C
TOL	-20 °C		-20 °C
Pdh Tj = -7°C	4.89 kV	v !	5.19 kW





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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
		•



# Model: ATAG i ENERGION M HYBRIDzone 5

Configure model		
Model name	ATAG i ENERGION M HYBRIDzone 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

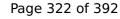
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



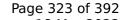


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

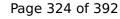
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		With dutabase on 10 Mai 20
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	8.08 kW	8.58 kW	
$\eta_{s}$	151 %	118 %	
Prated	8.08 kW	8.58 kW	
SCOP	3.85	3.02	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.89 kW	5.19 kW	



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
		•



# **Model: NIMBUS M HYBRID 5 NET**

Configure model		
Model name	NIMBUS M HYBRID 5 NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

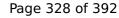
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



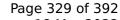


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

rine information was genera		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	t .	



# **Model: NIMBUS M HYBRID FLEX 5 NET**

Configure model		
Model name	NIMBUS M HYBRID FLEX 5 NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



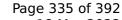


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
$COP Tj = +2^{\circ}C$	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



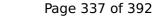


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



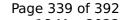
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

# Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	



# **Model: NIMBUS M HYBRID UNIVERSAL 5 NET**

Configure model		
Model name	NIMBUS M HYBRID UNIVERSAL 5 NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

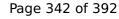
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



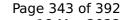


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
$COP Tj = +2^{\circ}C$	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# **Model: ARIANEXT M HYBRID 5 LINK**

Configure model		
Model name	ARIANEXT M HYBRID 5 LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



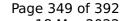


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	This will ductabase on 10 Mar 20
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COPTj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



# Page 351 of 392 This information was generated by the HP KEYMARK database on 18 Mar 2022

Inis information was genera	ted by the Hi KETMAI	IN Galabase on 10 Mai 202.
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	•	



# **Model: ARIANEXT M HYBRID FLEX 5 LINK**

Configure model		
Model name	ARIANEXT M HYBRID FLEX 5 LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2				
Low temperature Medium temperature				
Heat output	4.40 kW	3.80 kW		
El input	0.88 kW	1.32 kW		
СОР	5.02	2.88		

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
$\eta_{s}$	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
COP Tj = -7°C	3.15	2.26	
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
COP Tj = +7°C	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	



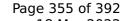


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





	-	THE THE THE TENT OF THE TENT O
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if $TOL < Tdesignh$	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



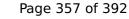


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	8.08 kW	8.58 kW	
$\eta_{s}$	151 %	118 %	
Prated	8.08 kW	8.58 kW	
SCOP	3.85	3.02	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.89 kW	5.19 kW	





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

# Domestic Hot Water (DHW)



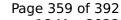
# Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I

## Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 I

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

# **Model: ARIANEXT M HYBRID UNIVERSAL 5 LINK**

Configure model			
Model name	ARIANEXT M HYBRID UNIVERSAL 5 LINK		
Application	Heating (medium temp)		
Units	Indoor + Outdoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	No		
Cooling mode application (optional)	n/a		

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

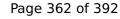
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2^{\circ}$ C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



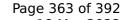


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



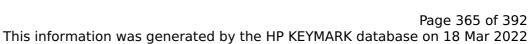


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low te	emperature	Medium temperature
Pdesignh	8.08 kV	v	8.58 kW
$\eta_{S}$	151 %	:	118 %
Prated	8.08 kV	V	8.58 kW
SCOP	3.85		3.02
Tbiv	-7 °C	-	-7 °C
TOL	-20 °C		-20 °C
Pdh Tj = -7°C	4.89 kV	<b>v</b>	5.19 kW





Inis information was genera	ted by the Hi KETMAI	IN Galabase on 10 Mai 202.
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
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# **Model: AEROTOP HYBRID MINI EVO 05X**

Configure model		
Model name	AEROTOP HYBRID MINI EVO 05X	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

# Heating

Heat output

5.02

El input

COP

	Low temperature	Medium temperature
	4.40 kW	3.80 kW
	0.88 kW	1.32 kW

2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



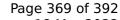


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## **Warmer Climate**

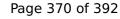
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature





<u> </u>	•	YMARK database on 18 Mar
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	t .	



# **Model: AEROTOP HYBRID MINI EVO 5**

Configure model		
Model name	AEROTOP HYBRID MINI EVO 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

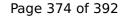
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



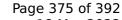


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	THE THE THE TENT OF THE TENT O
Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



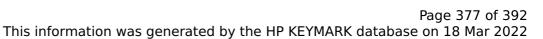


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# **Model: AEROTOP HYBRID UNIVERSAL 5**

Configure model		
Model name	AEROTOP HYBRID UNIVERSAL 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



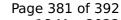


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

# Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
$\eta_{s}$	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
$\eta_{s}$	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



# **Model: NIMBUS M FLEX IN 5 NET**

Configure model		
Model name	NIMBUS M FLEX IN 5 NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data	
Power supply 1x230V 50Hz	

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



# **Model: ARIANEXT M FLEX IN 5 LINK**

Configure model		
Model name	ARIANEXT M FLEX IN 5 LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

# Heating

_	
w temperature	Medium temperature
10 kW	3.80 kW

	Low temperature	- Incaram temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2^{\circ}$ C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



# **Model: AEROTOP MONO BUILT-IN 05M-CRX**

Configure model		
Model name AEROTOP MONO BUILT-IN 05M-CRX		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
$\eta_{s}$	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh