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Summary of	NIMBUS 40 M - ARIANEXT 40 M - AEROTOP MONO 04X - ENERGION M 4	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.		
Name of testing laboratory	-Transition Rules-		
Subtype title	NIMBUS 40 M - ARIANEXT 40 M - AEROTOP MONO 04X - ENERGION M 4		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.88 kg		
Certification Date	19.12.2017		



Model: AEROTOP MONO 04M-RX 1Z

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	2.80 kW	2.32 kW	
η_{s}	225 %	138 %	
Prated	3.60 kW	3.10 kW	
SCOP	5.69	3.53	
	'	'	





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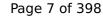
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = $+7^{\circ}$ C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: AEROTOP MONO 04M-RX 2Z

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

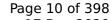
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
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COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

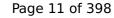




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





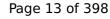
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





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COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
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Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: AEROTOP MONO 04M-RXL

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

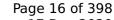
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

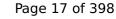




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53



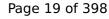


Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
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Pdh Tj = 12°C	1.62 kW	1.61 kW





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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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: AEROTOP MONO 04M-X 1Z

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
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Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





internation has gen		ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
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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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: AEROTOP MONO 04M-X 2Z

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
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Pdh Tj = Tbiv	4.61 kW	4.10 kW
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Pdh Tj = TOL	4.07 kW	3.92 kW
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Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53



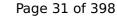


Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





Sound power level outdoor

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

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

57 dB(A)

57 dB(A)



Model: ARIANEXT LITE 40 M LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

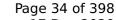
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

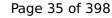




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

Low temperature	
	Medium temperature
2.80 kW	2.32 kW
225 %	138 %
3.60 kW	3.10 kW
5.69	3.53
	225 % 3.60 kW





j		ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





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COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)



Model: ARIANEXT LITE 40 M

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

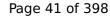




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





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COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: ARIANEXT PLUS 40 M 2Z H LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

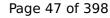




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





	-	ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





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COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: ARIANEXT PLUS 40 M 2Z H

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

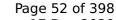
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

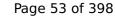




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53



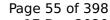


internation has gen		ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





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COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)

Model: ARIANEXT PLUS 40 M 2Z LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

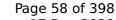
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

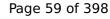




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825 Low temperature Medium temperature Pdesignh 2.80 kW 2.32 kW η_s 225 % 138 % Prated 3.60 kW 3.10 kW SCOP 5.69 3.53



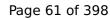


		ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = $+7^{\circ}$ C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)



Model: ARIANEXT PLUS 40 M 2Z

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

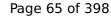




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





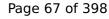
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

CEN heat pump KEYMARK

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = $+7^{\circ}$ C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: ARIANEXT PLUS 40 M H LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

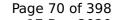
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

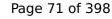




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825 Low temperature Medium temperature Pdesignh 2.80 kW 2.32 kW η_s 225 % 138 % Prated 3.60 kW 3.10 kW SCOP 5.69 3.53



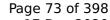


Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: ARIANEXT PLUS 40 M H

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





		ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = $+7^{\circ}$ C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature 15 dB(A) Sound power level indoor 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: ARIANEXT PLUS 40 M LINK

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

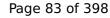




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825 Low temperature Medium temperature Pdesignh 2.80 kW 2.32 kW η_S 138 % Prated 3.60 kW 3.10 kW SCOP 5.69 3.53



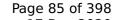


internation has gen		ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: ARIANEXT PLUS 40 M

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

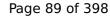




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53



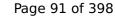


internation has gen		ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: NIMBUS PLUS 40 M 2Z H NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

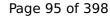




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
Low temperature	Medium temperature	
2.80 kW	2.32 kW	
225 %	138 %	
3.60 kW	3.10 kW	
5.69	3.53	
	Low temperature 2.80 kW 225 % 3.60 kW	



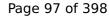


		ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = $+7^{\circ}$ C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C 7.80 6.21 Pdh Tj = Tbiv 4.69 kW 4.46 kW COP Tj = Tbiv 3.60 2.74 Pdh Tj = TOL 2.92 kW 2.46 kW COP Tj = TOL 2.35 1.52 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 13 W 13 W PTO 13 W 13 W PSB 13 W 13 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW Annual energy consumption Qhe 5022 kWh 6088 kWh			
COP Tj = Tbiv 3.60 2.74 Pdh Tj = TOL 2.92 kW 2.46 kW COP Tj = TOL 2.35 1.52 Cdh 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 4.00 kW 4.00 kW	COP Tj = 12°C	7.80	6.21
Pdh Tj = TOL 2.92 kW 2.46 kW COP Tj = TOL 2.35 1.52 Cdh 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 Supplementary Heater: PSUP 4.00 kW 4.00 kW	Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = TOL 2.35 1.52 Cdh 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 4.00 kW 4.00 kW	COP Tj = Tbiv	3.60	2.74
Cdh 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 4.00 kW 4.00 kW	Pdh Tj = TOL	2.92 kW	2.46 kW
WTOL 60 °C 60 °C 13 W 13 W 13 W PTO 13 W 13 W 13 W PSB 13 W 13 W 13 W PCK 13 W 13 W 14 W 15 W 15 W 16 W 17 W 18 W 19 W 19 W 10 W 10 W 10 W 11 W 12 W 13 W 13 W 14 W 15 W 16 W 17 W 18 W 18 W 18 W 19 W 19 W 10 W 10 W 10 W 10 W 10 W 11 W 11 W 12 W 13 W 13 W 14 W 15 W 16 W 17 W 18 W 18 W 18 W 19 W 1	COP Tj = TOL	2.35	1.52
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 4.00 kW 4.00 kW	Cdh	0.90	0.90
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 4.00 kW 4.00 kW	WTOL	60 °C	60 °C
PSB 13 W 13 W PCK 13 W 13 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW	Poff	13 W	13 W
PCK 13 W 13 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW	РТО	13 W	13 W
Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW	PSB	13 W	13 W
Supplementary Heater: PSUP 4.00 kW 4.00 kW	PCK	13 W	13 W
	Supplementary Heater: Type of energy input	electricity	electricity
Annual energy consumption Qhe 5022 kWh 6088 kWh	Supplementary Heater: PSUP	4.00 kW	4.00 kW
	Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)



Model: NIMBUS PLUS 40 M 2Z NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

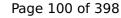
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

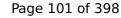




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





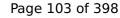
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





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COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: NIMBUS PLUS 40 M H NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C 7.80 6.21 Pdh Tj = Tbiv 4.69 kW 4.46 kW COP Tj = Tbiv 3.60 2.74 Pdh Tj = TOL 2.92 kW 2.46 kW COP Tj = TOL 2.35 1.52 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 13 W 13 W PTO 13 W 13 W PSB 13 W 13 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW Annual energy consumption Qhe 5022 kWh 6088 kWh			
COP Tj = Tbiv 3.60 2.74 Pdh Tj = TOL 2.92 kW 2.46 kW COP Tj = TOL 2.35 1.52 Cdh 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 4.00 kW 4.00 kW	COP Tj = 12°C	7.80	6.21
Pdh Tj = TOL 2.92 kW 2.46 kW COP Tj = TOL 2.35 1.52 Cdh 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 4.00 kW 4.00 kW	Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = TOL 2.35 1.52 Cdh 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 4.00 kW 4.00 kW	COP Tj = Tbiv	3.60	2.74
Cdh 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 4.00 kW 4.00 kW	Pdh Tj = TOL	2.92 kW	2.46 kW
WTOL 60 °C 60 °C 13 W 13 W 13 W PTO 13 W 13 W 13 W PSB 13 W 13 W 13 W PCK 13 W 13 W 14 W 15 W 15 W 16 W 17 W 18 W 19 W 19 W 10 W 10 W 10 W 11 W 12 W 13 W 13 W 14 W 15 W 16 W 17 W 18 W 18 W 18 W 19 W 19 W 10 W 10 W 10 W 10 W 10 W 11 W 11 W 12 W 13 W 13 W 14 W 15 W 16 W 17 W 18 W 18 W 18 W 19 W 1	COP Tj = TOL	2.35	1.52
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 4.00 kW 4.00 kW	Cdh	0.90	0.90
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 4.00 kW 4.00 kW	WTOL	60 °C	60 °C
PSB 13 W 13 W PCK 13 W 13 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW	Poff	13 W	13 W
PCK 13 W 13 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW	РТО	13 W	13 W
Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW	PSB	13 W	13 W
Supplementary Heater: PSUP 4.00 kW 4.00 kW	PCK	13 W	13 W
	Supplementary Heater: Type of energy input	electricity	electricity
Annual energy consumption Qhe 5022 kWh 6088 kWh	Supplementary Heater: PSUP	4.00 kW	4.00 kW
	Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: NIMBUS PLUS 40 M NET

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

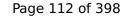
EN 14511-4			
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed		
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed		
Shutting off the heat transfer medium flow	passed		
Complete power supply failure	passed		
Defrost test	passed		

Average Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

	EN 14825	
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

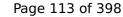




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





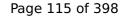
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

Colder Climate

	EN 14825	
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C 7.80 6.21 Pdh Tj = Tbiv 4.69 kW 4.46 kW COP Tj = Tbiv 3.60 2.74 Pdh Tj = TOL 2.92 kW 2.46 kW COP Tj = TOL 2.35 1.52 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 13 W 13 W PTO 13 W 13 W PSB 13 W 13 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW Annual energy consumption Qhe 5022 kWh 6088 kWh			
COP Tj = Tbiv 3.60 2.74 Pdh Tj = TOL 2.92 kW 2.46 kW COP Tj = TOL 2.35 1.52 Cdh 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 4.00 kW 4.00 kW	COP Tj = 12°C	7.80	6.21
Pdh Tj = TOL 2.92 kW 2.46 kW COP Tj = TOL 2.35 1.52 Cdh 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 4.00 kW 4.00 kW	Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = TOL 2.35 1.52 Cdh 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 4.00 kW 4.00 kW	COP Tj = Tbiv	3.60	2.74
Cdh 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 4.00 kW 4.00 kW	Pdh Tj = TOL	2.92 kW	2.46 kW
WTOL 60 °C 60 °C 13 W 13 W 13 W PTO 13 W 13 W 13 W PSB 13 W 13 W 13 W PCK 13 W 13 W 14 W 15 W 15 W 16 W 17 W 18 W 19 W 19 W 10 W 10 W 10 W 11 W 12 W 13 W 13 W 14 W 15 W 16 W 17 W 18 W 18 W 18 W 19 W 19 W 10 W 10 W 10 W 10 W 10 W 11 W 11 W 12 W 13 W 13 W 14 W 15 W 16 W 17 W 18 W 18 W 18 W 19 W 1	COP Tj = TOL	2.35	1.52
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 4.00 kW 4.00 kW	Cdh	0.90	0.90
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 4.00 kW 4.00 kW	WTOL	60 °C	60 °C
PSB 13 W 13 W PCK 13 W 13 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW	Poff	13 W	13 W
PCK 13 W 13 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW	РТО	13 W	13 W
Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW	PSB	13 W	13 W
Supplementary Heater: PSUP 4.00 kW 4.00 kW	PCK	13 W	13 W
	Supplementary Heater: Type of energy input	electricity	electricity
Annual energy consumption Qhe 5022 kWh 6088 kWh	Supplementary Heater: PSUP	4.00 kW	4.00 kW
	Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: NIMBUS POCKET 40 M NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

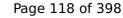
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

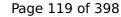




Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53





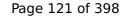
internation has gen		ANN database on 17 Dec 2020
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
$COP Tj = +7^{\circ}C$	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW





COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 57 dB(A) 57 dB(A)



Model: AEROTOP MONO 04M-CRX 1Z

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

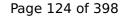
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



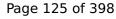


	-	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
n _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
ГЬіν	2 °C	2 °C
ГОL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
OP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



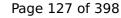


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)



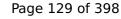
Average Climate

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	39.0 W	
Reference hot water temperature	52.6 °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: AEROTOP MONO 04M-CRX 2Z

General Data	
Power supply 1x230V 50Hz	

Heating

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	

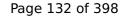
EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



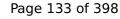


Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

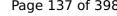
Average Climate

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	39.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	246

Colder Climate





$$\operatorname{\textit{Page}}\xspace$ 137 of 398 This information was generated by the HP KEYMARK database on 17 Dec 2020

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 40 M 2Z LINK

General Data	
Power supply	1x230V 50Hz

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



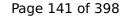


	-	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

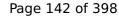
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



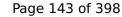


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh
	•	

Domestic Hot Water (DHW)

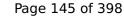
Average Climate

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	39.0 W	
Reference hot water temperature	52.6 °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 40 M LINK

General Data	
Power supply	1x230V 50Hz

Heating

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	

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



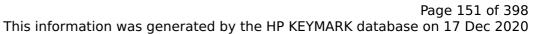


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

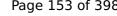
Average Climate

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	39.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	246 I

Colder Climate





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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 FLEX 40 M 2Z H LINK

General Data	
Power supply	1x230V 50Hz

Heating

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	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

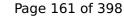
Average Climate

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	39.0 W	
Reference hot water temperature	52.6 °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 40 M 2Z LINK

General Data	
Power supply	1x230V 50Hz

Heating

sed
sed
sed
sed
sed
55

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



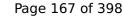


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 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	39.0 W	
Reference hot water temperature	52.6 °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 40 M LINK

General Data		
Power supply 1x230V 50Hz		

Heating

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	

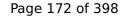
EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



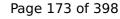


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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

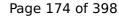
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



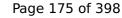


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh
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Domestic Hot Water (DHW)

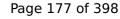
Average Climate

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	39.0 W	
Reference hot water temperature	52.6 °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 40 M H LINK

General Data	
Power supply	1x230V 50Hz

Heating

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		
Defrost test	passed	

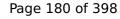
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



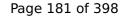


Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



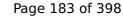


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

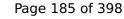
Average Climate

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	39.0 W
Reference hot water temperature	52.6 °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 COMPACT 40 M 2Z NET

General Data	
Power supply 1x230V 50Hz	

Heating

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	

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

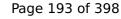
Average Climate

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	39.0 W
Reference hot water temperature	52.6 °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 COMPACT 40 M NET

General Data	
Power supply	1x230V 50Hz

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



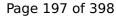


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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = $+7^{\circ}$ C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

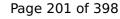
Average Climate

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	39.0 W	
Reference hot water temperature	52.6 °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 40 M 2Z H NET

General Data	
Power supply	1x230V 50Hz

Heating

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	

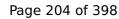
EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



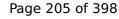


Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COD T: 78C	2.60	2.74
COP Tj = -7°C	3.60	2.74
Pdh Tj = $+2$ °C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = $+7^{\circ}$ C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 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	39.0 W	
Reference hot water temperature	52.6 °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 40 M 2Z NET

General Data	
Power supply 1x230V 50Hz	

Heating

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	

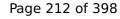
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



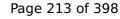


	-	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

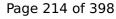
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



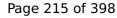


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

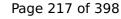
Average Climate

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	39.0 W	
Reference hot water temperature	52.6 °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 40 M H NET

General Data	
Power supply 1x230V 50Hz	

Heating

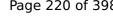
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





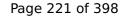
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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



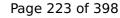


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

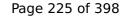
Average Climate

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	39.0 W
Reference hot water temperature	52.6 °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 40 M NET

General Data		
Power supply 1x230V 50Hz		

Heating

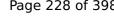
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



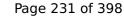


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

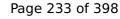
Average Climate

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	39.0 W
Reference hot water temperature	52.6 °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: ARIANEXT COMPACT 40 M 2Z

General Data	
Power supply	1x230V 50Hz

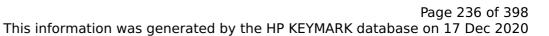
Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

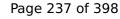
EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Domestic Hot Water (DHW)





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 COMPACT 40 M

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29

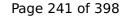




This information was	generated by the	HP KEYMARK	database on	17 Dec 2020

	-	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh
	*	

Domestic Hot Water (DHW)





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 40 M 2Z H

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

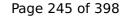
EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Domestic Hot Water (DHW)





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 40 M 2Z

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



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This information was generated by the HP KEYMARK database on 17 Dec 2020

50.		
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Domestic Hot Water (DHW)





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 40 M H

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

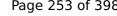
EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



	CEN heat pump KEYMARK	
	-	Tł
Pdh ⁻	Гj = Tbiv	

Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Domestic Hot Water (DHW)





$$\operatorname{\textit{Page}}\xspace$ 253 of 398 This information was generated by the HP KEYMARK database on 17 Dec 2020

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 40 M

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

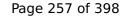
EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Domestic Hot Water (DHW)





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 4

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



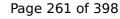


ye.	<u> </u>	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: ENERGION M LIGHT 4

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



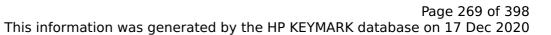


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





This information was g	generated by the Hi KETI	MANK database on 17 Dec 202
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh
	1	1



Model: ENERGION M PLUS 4 2Z

General Data	
Power supply	1x230V 50Hz

Heating

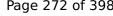
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





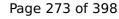
$$\operatorname{\textit{Page}}\xspace$ 272 of 398 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

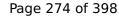
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W



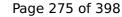


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	5022 kWh	6088 kWh



Model: ENERGION M FLEX 4 180 e

General Data	
Power supply	1x230V 50Hz

Heating

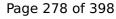
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



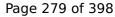


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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

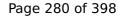
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



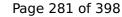


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

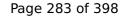
Average Climate

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	39.0 W	
Reference hot water temperature	52.6 °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: ENERGION M FLEX 4 2Z 180 e

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Time initial gen	1	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	2366 kWh	2949 kWh

Warmer Climate

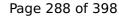
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	7.74 kW	7.37 kW	
η_{s}	149 %	116 %	
Prated	3.70 kW	2.52 kW	
SCOP	3.80	2.98	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.69 kW	4.46 kW	





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COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	5022 kWh	6088 kWh

Domestic Hot Water (DHW)

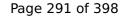
Average Climate

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	39.0 W	
Reference hot water temperature	52.6 °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: ENERGION M COMPACT 4

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = $+7^{\circ}$ C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 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	39.0 W
Reference hot water temperature	52.6 °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 4 2Z

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





	Teracea by the Thi RETTA	ATTR database on 17 Dec 2020
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W



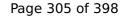


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	5022 kWh	6088 kWh
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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	39.0 W
Reference hot water temperature	52.6 °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 HYBRIDall 4

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

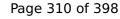
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



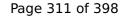


Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

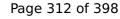
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.42 kW	4.52 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: ATAG p ENERGION M HYBRIDzone 4

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

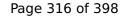
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



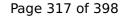


Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

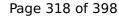
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
COP Tj = +7°C	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.42 kW	4.52 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: ATAG i ENERGION M HYBRIDzone 4

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

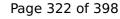
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



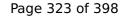


	T	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

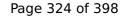
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = $+7^{\circ}$ C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.42 kW	4.52 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: NIMBUS M HYBRID 4 NET

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

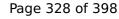
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



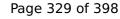


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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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This information was generated by the HP KEYMARK database on 17 Dec 2020

	<u> </u>	
COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: NIMBUS M HYBRID FLEX 4 NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



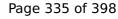


	T	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





This information was generated by the Fir RETMARK database on 17 Dec 2020				
COP Tj = -7°C	3.60	2.74		
Pdh Tj = +2°C	2.90 kW	2.89 kW		
COP Tj = +2°C	5.05	3.77		
Pdh Tj = +7°C	1.83 kW	1.75 kW		
$COP Tj = +7^{\circ}C$	6.67	5.33		
Pdh Tj = 12°C	1.62 kW	1.61 kW		
COP Tj = 12°C	7.80	6.21		
Pdh Tj = Tbiv	4.69 kW	4.46 kW		
COP Tj = Tbiv	3.60	2.74		
Pdh Tj = TOL	2.92 kW	2.46 kW		
COP Tj = TOL	2.35	1.52		
Cdh	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	4.00 kW	4.00 kW		
Annual energy consumption Qhe	5022 kWh	6088 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	39.0 W	
Reference hot water temperature	52.6 °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 M HYBRID UNIVERSAL 4 NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

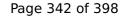
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COPTj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Model: ARIANEXT M HYBRID 4 LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

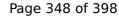
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





	T	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: ARIANEXT M HYBRID 40

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

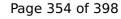
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



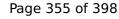


Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: ARIANEXT M HYBRID FLEX 4 LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	57 dB(A)	57 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.21 kW	4.64 kW	
η_{s}	191 %	135 %	
Prated	3.50 kW	2.96 kW	
SCOP	4.55	3.25	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	4.61 kW	4.10 kW	
COP Tj = -7°C	3.30	2.29	
Pdh Tj = +2°C	2.80 kW	2.50 kW	
COP Tj = +2°C	4.48	3.27	
Pdh Tj = +7°C	1.82 kW	1.62 kW	
COP Tj = +7°C	5.44	3.69	
Pdh Tj = 12°C	1.54 kW	1.51 kW	
COP Tj = 12°C	7.21	5.29	



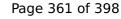


	-	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	15 dB(A)	15 dB(A)		
Sound power level outdoor	57 dB(A)	57 dB(A)		

EN 14825			
	Low temperature	Medium temperature	





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW





COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 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	39.0 W	
Reference hot water temperature	52.6 °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 M HYBRID UNIVERSAL 4 LINK

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure		
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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

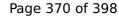
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





I his ir	nformation was generated by the HP k	EYMARK database on 17 Dec 20
Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COPTj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: AEROTOP HYBRID MINI EVO 04X

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

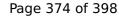
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



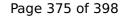


Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η _s	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
$COP Tj = +2^{\circ}C$	5.05	3.77
Pdh Tj = $+7^{\circ}$ C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh

Model: AEROTOP HYBRID MINI EVO 4

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82
Indoor water flow rate	0.62 m³/h	0.34 m³/h

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



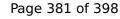


	T	
Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = +7°C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: AEROTOP HYBRID UNIVERSAL 4

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29





Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.14 kW	0.72 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Warmer Climate

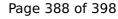
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	2.80 kW	2.32 kW
η_{s}	225 %	138 %
Prated	3.60 kW	3.10 kW
SCOP	5.69	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.32 kW
COP Tj = +2°C	3.92	2.18
Pdh Tj = +7°C	1.80 kW	1.53 kW
COP Tj = +7°C	5.05	2.77
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.63	5.66
Pdh Tj = Tbiv	2.80 kW	2.32 kW
COP Tj = Tbiv	3.92	2.18
Pdh Tj = TOL	2.80 kW	2.32 kW
COP Tj = TOL	3.92	2.18
Cdh	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	658 kWh	877 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	57 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.74 kW	7.37 kW
η_{s}	149 %	116 %
Prated	3.70 kW	2.52 kW
SCOP	3.80	2.98
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.69 kW	4.46 kW



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COP Tj = -7°C	3.60	2.74
Pdh Tj = +2°C	2.90 kW	2.89 kW
COP Tj = +2°C	5.05	3.77
Pdh Tj = $+7^{\circ}$ C	1.83 kW	1.75 kW
$COP Tj = +7^{\circ}C$	6.67	5.33
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	7.80	6.21
Pdh Tj = Tbiv	4.69 kW	4.46 kW
COP Tj = Tbiv	3.60	2.74
Pdh Tj = TOL	2.92 kW	2.46 kW
COP Tj = TOL	2.35	1.52
Cdh	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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5022 kWh	6088 kWh



Model: NIMBUS M FLEX IN 4 NET

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.10 kW	0.70 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Model: ARIANEXT M FLEX IN 4 LINK

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	
Indoor water flow rate	0.62 m³/h	0.34 m³/h	

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	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.21 kW	4.64 kW
η_{s}	191 %	135 %
Prated	3.50 kW	2.96 kW
SCOP	4.55	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.61 kW	4.10 kW
COP Tj = -7°C	3.30	2.29
Pdh Tj = +2°C	2.80 kW	2.50 kW
COP Tj = +2°C	4.48	3.27
Pdh Tj = +7°C	1.82 kW	1.62 kW
COP Tj = +7°C	5.44	3.69
Pdh Tj = 12°C	1.54 kW	1.51 kW
COP Tj = 12°C	7.21	5.29



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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.10 kW	0.70 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh

Model: AEROTOP MONO BUILT-IN 04M-CRX

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2				
	Low temperature	Medium temperature		
Heat output	3.50 kW	2.96 kW		
El input	0.69 kW	1.05 kW		
СОР	5.11	2.82		
Indoor water flow rate	0.62 m³/h	0.34 m³/h		

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	57 dB(A)	57 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.21 kW	4.64 kW	
η_{s}	191 %	135 %	
Prated	3.50 kW	2.96 kW	
SCOP	4.55	3.25	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	4.61 kW	4.10 kW	
COP Tj = -7°C	3.30	2.29	
Pdh Tj = +2°C	2.80 kW	2.50 kW	
COP Tj = +2°C	4.48	3.27	
Pdh Tj = +7°C	1.82 kW	1.62 kW	
COP Tj = +7°C	5.44	3.69	
Pdh Tj = 12°C	1.54 kW	1.51 kW	
COP Tj = 12°C	7.21	5.29	



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Pdh Tj = Tbiv	4.61 kW	4.10 kW
COP Tj = Tbiv	3.30	2.13
Pdh Tj = TOL	4.07 kW	3.92 kW
COP Tj = TOL	2.99	2.13
Cdh	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	1.10 kW	0.70 kW
Annual energy consumption Qhe	2366 kWh	2949 kWh