

Page 1 of 73

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

#### Login

Summary of	NIMBUS 70 S - ARIANEXT 70 S - AEROTOP SPLIT 07X	Reg. No.	ICIM-PDC-000001	
Certificate Holder				
Name	Ariston Thermo Group			
Address	Viale Aristide Merloni 45	Zip	I-60044	
City	Fabriano (AN)	Country	Italy	
Certification Body	ICIM S.p.A.			
Subtype title	NIMBUS 70 S - ARIANEXT 70 S - AEROTOP SPLIT 07X			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	3.08 kg			
Certification Date	19.12.2017			



# **Model: AEROTOP SPLIT 07M-RX**

Configure model		
Model name	AEROTOP SPLIT 07M-RX	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.40 kW	5.78 kW	
El input	1.28 kW	1.96 kW	
СОР	5.00	2.95	

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	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	7.88 kW	7.68 kW	
$\eta_{s}$	191 %	133 %	
Prated	7.88 kW	7.68 kW	
SCOP	4.86	3.40	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	6.97 kW	6.80 kW	
COP Tj = -7°C	3.13	2.22	
Pdh Tj = +2°C	4.35 kW	4.11 kW	
COP Tj = +2°C	4.81	3.36	
Pdh Tj = +7°C	2.87 kW	2.57 kW	
COP Tj = +7°C	6.13	4.47	
Pdh Tj = 12°C	2.73 kW	2.66 kW	
COP Tj = 12°C	8.04	6.31	
	,	-	





Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

## Warmer Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	36 dB(A)	36 dB(A)		
Sound power level outdoor	60 dB(A)	60 dB(A)		

EN 14825			
	Low temperature	Medium temperature	





		int database on 10 Hai 25
Pdesignh	4.85 kW	4.40 kW
$\eta_{s}$	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = $+7^{\circ}$ C	3.26 kW	3.01 kW
$COPTj = +7^{\circ}C$	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W





PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
$\eta_{s}$	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW





ins mornation was genera	- · · · <b>/</b>	
COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = +7°C	2.89 kW	2.66 kW
$COPTj = +7^{\circ}C$	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh
1		



# **Model: ARIANEXT PLUS 70 S LINK**

Configure model	
Model name	ARIANEXT PLUS 70 S LINK
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

	General Data	
Power supply	1x230V 50Hz	

# Heating

COP

	EN 14511-2		
	Low temperature	Medium temperature	
Heat output	6.40 kW	5.78 kW	
El input	1.28 kW	1.96 kW	

2.95

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

## **Average Climate**

5.00



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.88 kW	7.68 kW
$\eta_{s}$	191 %	133 %
Prated	7.88 kW	7.68 kW
SCOP	4.86	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.97 kW	6.80 kW
COP Tj = -7°C	3.13	2.22
Pdh Tj = +2°C	4.35 kW	4.11 kW
COP Tj = +2°C	4.81	3.36
Pdh Tj = +7°C	2.87 kW	2.57 kW
COP Tj = +7°C	6.13	4.47
Pdh Tj = 12°C	2.73 kW	2.66 kW
COP Tj = 12°C	8.04	6.31



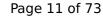


Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

## Warmer Climate

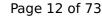
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 36 dB(A) 36 dB(A) Sound power level outdoor 60 dB(A) 60 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.40 kW
$\eta_{s}$	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COPTj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W





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

PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
$\eta_{s}$	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW





This information was generated by the HP KEYMARK database on 18 Mar 202				
3.42	2.67			
4.41 kW	4.04 kW			
5.27	3.88			
2.89 kW	2.66 kW			
6.51	5.10			
2.73 kW	2.69 kW			
8.04	6.78			
7.09 kW	6.67 kW			
3.42	2.67			
5.52 kW	4.91 kW			
2.23	1.52			
0.90	0.90			
60 °C	60 °C			
11 W	11 W			
11 W	11 W			
11 W	11 W			
11 W	11 W			
Electricity	Electricity			
4.00 kW	4.00 kW			
7482 kWh	8977 kWh			
	4.41 kW 5.27 2.89 kW 6.51 2.73 kW 8.04 7.09 kW 3.42 5.52 kW 2.23 0.90 60 °C 11 W 11 W 11 W 11 W 11 W Electricity 4.00 kW			



# **Model: ARIANEXT PLUS 70 S**

Configure model		
Model name	ARIANEXT PLUS 70 S	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

COP

5.00

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.78 kW
El input	1.28 kW	1.96 kW

2.95

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	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.88 kW	7.68 kW
$\eta_{s}$	191 %	133 %
Prated	7.88 kW	7.68 kW
SCOP	4.86	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.97 kW	6.80 kW
COP Tj = -7°C	3.13	2.22
Pdh Tj = +2°C	4.35 kW	4.11 kW
COP Tj = +2°C	4.81	3.36
Pdh Tj = +7°C	2.87 kW	2.57 kW
COP Tj = +7°C	6.13	4.47
Pdh Tj = 12°C	2.73 kW	2.66 kW
COP Tj = 12°C	8.04	6.31
	,	-



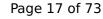


Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

## Warmer Climate

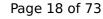
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.40 kW
$\eta_{s}$	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COPTj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W



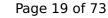


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

#### Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
$\eta_{s}$	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW





ins institution has genera		
COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = +7°C	2.89 kW	2.66 kW
$COPTj = +7^{\circ}C$	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh
J-	·	



# **Model: NIMBUS PLUS 70 S NET**

Configure model		
Model name NIMBUS PLUS 70 S NET		
Application	Heating (medium temp)	
Inits Indoor + Outdoor		
Climate Zone	Zone Colder Climate + Warmer Climate	
Reversibility	eversibility	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

EN 14511-2				
Low temperature Medium temperature				
Heat output	6.40 kW	5.78 kW		
El input	1.28 kW	1.96 kW		

2.95

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

## **Average Climate**

5.00



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.88 kW	7.68 kW
$\eta_{s}$	191 %	133 %
Prated	7.88 kW	7.68 kW
SCOP	4.86	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.97 kW	6.80 kW
COP Tj = -7°C	3.13	2.22
Pdh Tj = +2°C	4.35 kW	4.11 kW
COP Tj = +2°C	4.81	3.36
Pdh Tj = +7°C	2.87 kW	2.57 kW
COP Tj = +7°C	6.13	4.47
Pdh Tj = 12°C	2.73 kW	2.66 kW
COP Tj = 12°C	8.04	6.31





Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

## Warmer Climate

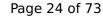
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.40 kW
$\eta_{s}$	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = $+7^{\circ}$ C	3.26 kW	3.01 kW
$COP Tj = +7^{\circ}C$	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
VTOL	60 °C	60 °C
Poff	11 W	11 W
то	11 W	11 W





This information was generat	ed by the HP KEYMAR	K database on 18 Mar 2022

PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
$\eta_{s}$	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW





ins institution has genera		
COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = +7°C	2.89 kW	2.66 kW
$COPTj = +7^{\circ}C$	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh
J-	·	



# **Model: AEROTOP SPLIT 07M-CRX**

Configure model		
Model name	AEROTOP SPLIT 07M-CRX	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

5.00

EN 14511-2				
Low temperature Medium temperature				
Heat output	6.40 kW	5.78 kW		
El input	1.28 kW	1.96 kW		

2.95

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	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	7.88 kW	7.68 kW	
$\eta_{s}$	191 %	133 %	
Prated	7.88 kW	7.68 kW	
SCOP	4.86	3.40	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	6.97 kW	6.80 kW	
COP Tj = -7°C	3.13	2.22	
Pdh Tj = +2°C	4.35 kW	4.11 kW	
COP Tj = +2°C	4.81	3.36	
Pdh Tj = +7°C	2.87 kW	2.57 kW	
COP Tj = +7°C	6.13	4.47	
Pdh Tj = 12°C	2.73 kW	2.66 kW	
COP Tj = 12°C	8.04	6.31	





Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

## Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature





		int database on 10 Hai 25
Pdesignh	4.85 kW	4.40 kW
$\eta_{s}$	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = $+7^{\circ}$ C	3.26 kW	3.01 kW
$COPTj = +7^{\circ}C$	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W



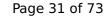


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

#### Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	11.71 kW	11.02 kW	
$\eta_{s}$	151 %	118 %	
Prated	11.71 kW	11.02 kW	
SCOP	3.86	3.03	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	7.09 kW	6.67 kW	





COP Tj = -7°C	3.42	2.67
Pdh Tj = $+2$ °C	4.41 kW	4.04 kW
$COP Tj = +2^{\circ}C$	5.27	3.88
Pdh Tj = $+7^{\circ}$ C	2.89 kW	2.66 kW
$COP Tj = +7^{\circ}C$	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

# Domestic Hot Water (DHW)

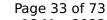
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:30 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	247 I	

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	245 I	

#### Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	244	



# **Model: ARIANEXT COMPACT 70 S LINK**

Configure model		
Model name ARIANEXT COMPACT 70 S LINK		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone Colder Climate + Warmer Climate		
Reversibility No		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.40 kW	5.78 kW	
El input	1.28 kW	1.96 kW	
СОР	5.00	2.95	

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	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825				
Low temperature   Medium tem				
Pdesignh	7.88 kW	7.68 kW		
$\eta_{s}$	191 %	133 %		
Prated	7.88 kW	7.68 kW		
SCOP	4.86	3.40		
Tbiv	-7 °C	-7 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	6.97 kW	6.80 kW		
COP Tj = -7°C	3.13	2.22		
Pdh Tj = +2°C	4.35 kW	4.11 kW		
COP Tj = +2°C	4.81	3.36		
Pdh Tj = +7°C	2.87 kW	2.57 kW		
$COP Tj = +7^{\circ}C$	6.13	4.47		
Pdh Tj = 12°C	2.73 kW	2.66 kW		
COP Tj = 12°C	8.04	6.31		





Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

## Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.40 kW
$\eta_{s}$	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = $+7^{\circ}$ C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W

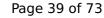




PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
$\eta_{s}$	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW





	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = $+7^{\circ}$ C	2.89 kW	2.66 kW
$COP Tj = +7^{\circ}C$	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh
	•	

# Domestic Hot Water (DHW)

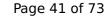


# Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	108 %
СОР	2.60
Heating up time	01:30 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	247 I

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	245 I	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	244	



# **Model: ARIANEXT FLEX 70 S LINK**

Configure model		
Model name	ARIANEXT FLEX 70 S LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

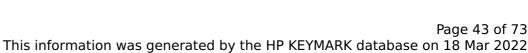
General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.78 kW
El input	1.28 kW	1.96 kW
СОР	5.00	2.95

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	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

CEN heat pump KEYMARK

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.88 kW	7.68 kW
$\eta_{s}$	191 %	133 %
Prated	7.88 kW	7.68 kW
SCOP	4.86	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.97 kW	6.80 kW
COP Tj = -7°C	3.13	2.22
Pdh Tj = +2°C	4.35 kW	4.11 kW
COP Tj = +2°C	4.81	3.36
Pdh Tj = +7°C	2.87 kW	2.57 kW
COP Tj = +7°C	6.13	4.47
Pdh Tj = 12°C	2.73 kW	2.66 kW
COP Tj = 12°C	8.04	6.31





Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

#### Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature





The mean date was general		YMARK database on 18 Mar
Pdesignh	4.85 kW	4.40 kW
$\eta_{s}$	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
$COP Tj = +2^{\circ}C$	4.16	2.36
Pdh Tj = $+7^{\circ}$ C	3.26 kW	3.01 kW
$COP Tj = +7^{\circ}C$	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W





PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
$\eta_{s}$	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW





COP Tj = -7°C	3.42	2.67
Pdh Tj = $+2$ °C	4.41 kW	4.04 kW
$COP Tj = +2^{\circ}C$	5.27	3.88
Pdh Tj = $+7^{\circ}$ C	2.89 kW	2.66 kW
$COP Tj = +7^{\circ}C$	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

# Domestic Hot Water (DHW)

# Average Climate

CEN heat pump KEYMARK

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:30 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	247	

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	245 I	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	244	



# **Model: NIMBUS COMPACT 70 S NET**

Configure model		
Model name NIMBUS COMPACT 70 S NET		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility No		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

ΕN	14511-2	

	Low temperature	Medium temperature	
Heat output	6.40 kW	5.78 kW	
El input	1.28 kW	1.96 kW	
СОР	5.00	2.95	

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	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.88 kW	7.68 kW
$\eta_{s}$	191 %	133 %
Prated	7.88 kW	7.68 kW
SCOP	4.86	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.97 kW	6.80 kW
COP Tj = -7°C	3.13	2.22
Pdh Tj = +2°C	4.35 kW	4.11 kW
COP Tj = +2°C	4.81	3.36
Pdh Tj = +7°C	2.87 kW	2.57 kW
COP Tj = +7°C	6.13	4.47
Pdh Tj = 12°C	2.73 kW	2.66 kW
COP Tj = 12°C	8.04	6.31



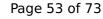


Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

# Warmer Climate

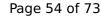
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 36 dB(A) 36 dB(A) Sound power level outdoor 60 dB(A) 60 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.40 kW
$\eta_{s}$	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COPTj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W

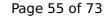




PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
$\eta_{s}$	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW





Time intermediation was general		
COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = $+7^{\circ}$ C	2.89 kW	2.66 kW
$COP Tj = +7^{\circ}C$	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

# Domestic Hot Water (DHW)

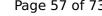


# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:30 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	247	

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	245 I	





 $$\operatorname{\textit{Page}}\xspace$  57 of 73 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	244	



# **Model: NIMBUS FLEX 70 S NET**

Configure model		
Model name	NIMBUS FLEX 70 S NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.40 kW	5.78 kW	
El input	1.28 kW	1.96 kW	
СОР	5.00	2.95	

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	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.88 kW	7.68 kW
$\eta_{s}$	191 %	133 %
Prated	7.88 kW	7.68 kW
SCOP	4.86	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.97 kW	6.80 kW
COP Tj = -7°C	3.13	2.22
Pdh Tj = +2°C	4.35 kW	4.11 kW
$COP Tj = +2^{\circ}C$	4.81	3.36
Pdh Tj = +7°C	2.87 kW	2.57 kW
COP Tj = +7°C	6.13	4.47
Pdh Tj = 12°C	2.73 kW	2.66 kW
COP Tj = 12°C	8.04	6.31
	,	'



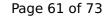


Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

#### Warmer Climate

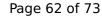
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 36 dB(A) 36 dB(A) Sound power level outdoor 60 dB(A) 60 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.40 kW
$\eta_{s}$	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COPTj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W

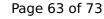




PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825			
Low temperature Medium temperature			
Pdesignh	11.71 kW	11.02 kW	
$\eta_{s}$	151 %	118 %	
Prated	11.71 kW	11.02 kW	
SCOP	3.86	3.03	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	7.09 kW	6.67 kW	





COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = +7°C	2.89 kW	2.66 kW
COP Tj = +7°C	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

# Domestic Hot Water (DHW)



# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:30 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	247	

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	245 I	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	244	



# **Model: ARIANEXT COMPACT 70 S**

Configure model		
Model name	ARIANEXT COMPACT 70 S	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.78 kW
El input	1.28 kW	1.96 kW
СОР	5.00	2.95

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	

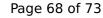
#### **Average Climate**





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.88 kW	7.68 kW
$\eta_{s}$	191 %	133 %
Prated	7.88 kW	7.68 kW
SCOP	4.86	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.97 kW	6.80 kW
COP Tj = -7°C	3.13	2.22
Pdh Tj = +2°C	4.35 kW	4.11 kW
COP Tj = +2°C	4.81	3.36
Pdh Tj = +7°C	2.87 kW	2.57 kW
COP Tj = +7°C	6.13	4.47
Pdh Tj = 12°C	2.73 kW	2.66 kW
COP Tj = 12°C	8.04	6.31





Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

# Domestic Hot Water (DHW)

# **Average Climate**





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:08 h:min	
Standby power input	39.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	250 l	



# **Model: ARIANEXT FLEX 70 S**

Configure model		
Model name	ARIANEXT FLEX 70 S	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.40 kW	5.78 kW	
El input	1.28 kW	1.96 kW	
СОР	5.00	2.95	

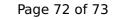
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

#### **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.88 kW	7.68 kW
$\eta_{s}$	191 %	133 %
Prated	7.88 kW	7.68 kW
SCOP	4.86	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.97 kW	6.80 kW
COP Tj = -7°C	3.13	2.22
Pdh Tj = +2°C	4.35 kW	4.11 kW
COP Tj = +2°C	4.81	3.36
Pdh Tj = +7°C	2.87 kW	2.57 kW
COP Tj = +7°C	6.13	4.47
Pdh Tj = 12°C	2.73 kW	2.66 kW
COP Tj = 12°C	8.04	6.31
	,	-

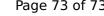




Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

Domestic Hot Water (DHW)

**Average Climate** 





 $$\operatorname{\textit{Page}}\xspace$  73 of 73 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:08 h:min	
Standby power input	39.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	250 I	