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Summary of	NIMBUS 70 S-T - ARIANEXT 70 S-T - AEROTOP SPLIT 07	Reg. No.	ICIM-PDC-000001		
Certificate Holder	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-T - ARIANEXT 70 S-T - AEROTOP SPLIT 07				
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R410A				
Mass of Refrigerant	3.08 kg				
Certification Date	19.12.2017				

Model: AEROTOP SPLIT 07M-R

Configure model		
Model name	AEROTOP SPLIT 07M-R	
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	3x230V 50Hz	

Heating

CEN heat pump

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	6.40 kW	5.78 kW		
El input	1.28 kW	1.96 kW		
СОР	5.00	2.95		

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
η_{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°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
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	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	
	·		





η_{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
$COPTj = -7^{\circ}C$	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
$COPTj = +2^{\circ}C$	5.27	3.88
Pdh Tj = $+7^{\circ}$ 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

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	
7.88 kW	7.68 kW	
191 %	133 %	
7.88 kW	7.68 kW	
4.86	3.40	
-7 °C	-7 °C	
-10 °C	-10 °C	
6.97 kW	6.80 kW	
	Low temperature 7.88 kW 191 % 7.88 kW 4.86 -7 °C -10 °C	





kW	2.22 4.11 kW 3.36
	3 36
I	J.50
kW	2.57 kW
	4.47
kW	2.66 kW
	6.31
kW	6.80 kW
	2.22
kW	6.75 kW
	1.86
	0.90
	60 °C
1	11 W
1	11 W
1	11 W
,	11 W
ricity	Electricity
kW	0.93 kW
kWh	4670 kWh
k	kW kW icity



Model: ARIANEXT PLUS 70 S-T LINK

Configure model		
Model name ARIANEXT PLUS 70 S-T 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	3x230V 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	6.40 kW	5.78 kW
El input	1.28 kW	1.96 kW
СОР	5.00	2.95

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 tempe				
Pdesignh	4.85 kW	4.40 kW		
η_{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°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		



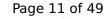


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy 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
	'	





η_{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
$COPTj = -7^{\circ}C$	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
$COPTj = +2^{\circ}C$	5.27	3.88
Pdh Tj = $+7^{\circ}$ 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

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
η_{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





This information was generated by the Hr KETMANK database on 7 Jul 2022			
3.13	2.22		
4.35 kW	4.11 kW		
4.81	3.36		
2.87 kW	2.57 kW		
6.13	4.47		
2.73 kW	2.66 kW		
8.04	6.31		
6.97 kW	6.80 kW		
3.13	2.22		
7.70 kW	6.75 kW		
2.80	1.86		
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		
0.18 kW	0.93 kW		
3352 kWh	4670 kWh		
	4.35 kW 4.81 2.87 kW 6.13 2.73 kW 8.04 6.97 kW 3.13 7.70 kW 2.80 0.90 60 °C 11 W 11 W 11 W 11 W Electricity 0.18 kW		



Model: ARIANEXT PLUS 70 S-T

Configure model		
Model name	ARIANEXT PLUS 70 S-T	
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 3x230V 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	6.40 kW	5.78 kW	
El input	1.28 kW	1.96 kW	
СОР	5.00	2.95	

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
η_{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°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



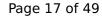


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

Colder Climate

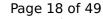
EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW





This information was ger	Terated by the HP KETK	TARK database on 7 Jul 2022
η_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
$COP Tj = -7^{\circ}C$	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



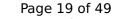


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

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	
7.88 kW	7.68 kW	
191 %	133 %	
7.88 kW	7.68 kW	
4.86	3.40	
-7 °C	-7 °C	
-10 °C	-10 °C	
6.97 kW	6.80 kW	
	Low temperature 7.88 kW 191 % 7.88 kW 4.86 -7 °C -10 °C	





	2.22
35 kW	
	4.11 kW
81	3.36
87 kW	2.57 kW
13	4.47
73 kW	2.66 kW
04	6.31
97 kW	6.80 kW
13	2.22
70 kW	6.75 kW
80	1.86
90	0.90
) °C	60 °C
LW	11 W
ectricity	Electricity
18 kW	0.93 kW
352 kWh	4670 kWh
88	7 kW 3 3 kW 4 7 kW 3 0 kW 0 0 0 0 °C W W W W Ctricity 8 kW



Model: NIMBUS PLUS 70 S-T NET

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

General Data			
Power supply 3x230V 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	6.40 kW	5.78 kW	
El input	1.28 kW	1.96 kW	
СОР	5.00	2.95	

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 tempera				
Pdesignh	4.85 kW	4.40 kW		
η_{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°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		
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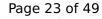


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

Colder Climate

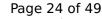
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
	'	





This information was generated by the HP KEYMARK database on 7 Jul 2022			
η_{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	
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Pdh Tj = +2°C	4.41 kW	4.04 kW	
$COPTj = +2^{\circ}C$	5.27	3.88	
Pdh Tj = $+7^{\circ}$ C	2.89 kW	2.66 kW	
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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	





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This information was generated by	y the HP KEYMARK database on 7 Jul	2022

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

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
η_{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





	2.22
35 kW	
	4.11 kW
81	3.36
87 kW	2.57 kW
13	4.47
73 kW	2.66 kW
04	6.31
97 kW	6.80 kW
13	2.22
70 kW	6.75 kW
80	1.86
90	0.90
) °C	60 °C
LW	11 W
ectricity	Electricity
18 kW	0.93 kW
352 kWh	4670 kWh
88	7 kW 3 3 kW 4 7 kW 3 0 kW 0 0 0 0 °C W W W W Ctricity 8 kW

Model: AEROTOP SPLIT 07M-CR

Configure model		
Model name	AEROTOP SPLIT 07M-CR	
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	3x230V 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	6.40 kW	5.78 kW
El input	1.28 kW	1.96 kW
СОР	5.00	2.95

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
η_{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°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





η_{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
$COPTj = -7^{\circ}C$	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
$COPTj = +2^{\circ}C$	5.27	3.88
Pdh Tj = $+7^{\circ}$ 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

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
η_{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





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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 = $+7^{\circ}$ 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
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Domestic Hot Water (DHW)



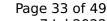
Warmer Climate

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 l	

Colder Climate

EN 16147	
Declared lead weefile	M
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

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

Model: NIMBUS COMPACT 70 S-T NET

Configure model		
Model name NIMBUS COMPACT 70 S-T 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 3x230V 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	6.40 kW	5.78 kW	
El input	1.28 kW	1.96 kW	
СОР	5.00	2.95	

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
η_{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



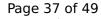


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy 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
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This information was ger	Terated by the HP KETK	TARK database on 7 Jul 2022
η_{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
$COP Tj = -7^{\circ}C$	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



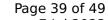


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

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
η_{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 = $+7^{\circ}$ 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
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	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

Domestic Hot Water (DHW)



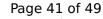
Warmer Climate

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

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



Model: NIMBUS FLEX 70 S-T NET

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

General Data		
Power supply 3x230V 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		Medium temperature
Heat output	6.40 kW	5.78 kW
El input	1.28 kW	1.96 kW
СОР	5.00	2.95

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
η_{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°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
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	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





This information was ger	Terated by the HP KETI	TARK database on 7 Jul 2022
η_{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
$COP Tj = -7^{\circ}C$	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
$COPTj = +2^{\circ}C$	5.27	3.88
Pdh Tj = $+7^{\circ}$ 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

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
η_{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





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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 = $+7^{\circ}$ 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
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Domestic Hot Water (DHW)



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 lead weefile	M	
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	

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