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Login

Summary of	HA 7-6 O 230V	Reg. No.	40051133
Certificate Holder			
Name	Saunier Duval Brand Group		
Address	Zip		
City		Country	Germany
Certification Body	VDE Prüf- und Zertifizierungsinstitut GmbH		
Subtype title	HA 7-6 O 230V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R290		
Mass of Refrigerant	0.9 kg		
Certification Date	06.04.2022		
Testing basis	DIN EN 14511-1:2019-07; EN 14511-1:2018, DIN EN 14511-2:2019-07; EN 14511-2:2018, DIN EN 14511-3:2019-07; EN 14511-3:2018, DIN EN 14511-4:2019-07; EN 14511-4:2018, DIN EN 14825:2019-07; EN 14825:2018, DIN EN 12102-1:2018-02; EN 12102-1:2017		



Model: HA 7-6 O 230V

Configure model		
Model name	HA 7-6 O 230V	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.57 kW	4.95 kW
El input	0.95 kW	1.68 kW
СОР	4.79	2.93

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	237 %	163 %
Prated	6.77 kW	6.60 kW
SCOP	5.99	4.14
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.77 kW	6.60 kW
COP Tj = +2°C	3.23	2.23
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.14 kW	4.52 kW
COP Tj = +7°C	5.52	3.47
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	3.75 kW	3.56 kW
COP Tj = 12°C	7.65	5.68
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	6.77 kW	6.60 kW

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COP Tj = Tbiv 3.23 2.23 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 6.77 kW 6.60 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.23 2.23 WTOL $70 ^{\circ}\text{C}$ $70 ^{\circ}\text{C}$ Poff 8W 8W
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.23 2.23 WTOL 70 °C 70 °C
WTOL 70 °C 70 °C
Poff 8 W 8 W
O VV
PTO 29 W 29 W
PSB 29 W 29 W
PCK 0 W
Supplementary Heater: Type of energy input Electricity Electricity
Supplementary Heater: PSUP 0.00 kW 0.00 kW
Annual energy consumption Qhe 1510 kWh 2128 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	160 %	118 %
Prated	5.85 kW	5.39 kW





This information was gener	ated by the HERLINA	TR database on 15 Oct 2022
SCOP	4.07	3.03
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.51 kW	3.69 kW
COP Tj = -7°C	3.31	2.53
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.73 kW	2.55 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.19 kW	3.08 kW
$COPTj = +7^{\circ}C$	6.82	5.05
Cdh Tj = +7 °C	0.940	0.950
Pdh Tj = 12°C	3.78 kW	3.64 kW
COP Tj = 12°C	8.52	6.54
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.77 kW	4.40 kW
COP Tj = Tbiv	2.60	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.57 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.53
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C
WIGE	70 C	70 C





Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.85 kW	5.39 kW
Annual energy consumption Qhe	3546 kWh	4380 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.77	4.40
COP Tj = -15°C (if TOL $<$ -20°C)	2.60	1.90
Cdh Tj = -15 °C	0.980	0.990

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	185 %	134 %
Prated	6.60 kW	6.13 kW
SCOP	4.69	3.43





This information was genera	ated by the HE KLIMAI	TR database on 15 Oct 2022
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.84 kW	5.42 kW
$COP Tj = -7^{\circ}C$	2.72	2.13
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	3.72 kW	3.46 kW
COP Tj = +2°C	4.68	3.36
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = $+7^{\circ}$ C	3.18 kW	3.00 kW
$COPTj = +7^{\circ}C$	6.38	4.60
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.74 kW	3.59 kW
COP Tj = 12°C	7.88	6.18
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	6.27 kW	5.42 kW
COP Tj = Tbiv	2.64	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	4.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C
Poff	8 W	8 W
	•	



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РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	kW	1.25 kW
Annual energy consumption Qhe	2907 kWh	3688 kWh



Model: HA 7-6 O 230V B2

Configure model		
Model name	HA 7-6 O 230V B2	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2				
Low temperature Medium temperature				
Heat output	4.57 kW	4.95 kW		
El input	0.95 kW	1.68 kW		
СОР	4.79	2.93		

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	53 dB(A)	55 dB(A)	

	Low temperature	Medium temperature
n_s	231 %	160 %
Prated	6.77 kW	6.60 kW
SCOP	5.85	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.77 kW	6.60 kW
COP Tj = +2°C	3.23	2.23
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.14 kW	4.52 kW
COP Tj = +7°C	5.52	3.47
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	3.75 kW	3.56 kW
COP Tj = 12°C	7.65	5.68
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	6.77 kW	6.60 kW

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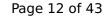


COP Tj = Tbiv 3.23 2.23 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 6.77 kW 6.60 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.23 2.23 WTOL 70 °C 70 °C Poff 8 W 8 W PTO 29 W 29 W PSB 29 W 29 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW			
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.23	2.23
WTOL 70 °C 70 °C 70 °C 8 W 8 W PTO 29 W 29 W PSB 29 W 29 W PCK 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.77 kW	6.60 kW
Poff 8 W 8 W PTO 29 W 29 W PSB 29 W 29 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.23	2.23
PTO 29 W 29 W PSB 29 W 29 W PCK 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	WTOL	70 °C	70 °C
PSB 29 W 29 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	Poff	8 W	8 W
PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	РТО	29 W	29 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	PSB	29 W	29 W
Supplementary Heater: PSUP 0.00 kW 0.00 kW	PCK	0 W	0 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Appuration Ohe	Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qne 1546 kWn 2164 kWn	Annual energy consumption Qhe	1546 kWh	2164 kWh

Colder Climate

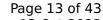
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	159 %	118 %
Prated	5.85 kW	5.39 kW





This information was gener	ated by the HERLIMAI	TK database on 13 Oct 2022
SCOP	4.05	3.02
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.51 kW	3.69 kW
COP Tj = -7°C	3.31	2.53
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.73 kW	2.55 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.19 kW	3.08 kW
$COPTj = +7^{\circ}C$	6.82	5.05
Cdh Tj = +7 °C	0.940	0.950
Pdh Tj = 12°C	3.78 kW	3.64 kW
COP Tj = 12°C	8.52	6.54
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.77 kW	4.40 kW
COP Tj = Tbiv	2.60	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.57 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.53
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C



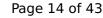


Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.85 kW	5.39 kW
Annual energy consumption Qhe	3565 kWh	4398 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.77	4.40
COP Tj = -15 °C (if TOL< -20 °C)	2.60	1.90
Cdh Tj = -15 °C	0.980	0.990

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
Low temperature	Medium temperature	
183 %	133 %	
6.60 kW	6.13 kW	
4.64	3.41	
	Low temperature 183 % 6.60 kW	





Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.84 kW	5.42 kW
COP Tj = -7°C	2.72	2.13
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.72 kW	3.46 kW
$COPTj = +2^{\circ}C$	4.68	3.36
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = $+7^{\circ}$ C	3.18 kW	3.00 kW
$COPTj = +7^{\circ}C$	6.38	4.60
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.74 kW	3.59 kW
COP Tj = 12°C	7.88	6.18
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	6.27 kW	5.42 kW
COP Tj = Tbiv	2.64	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	4.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C
Poff	8 W	8 W



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РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	kW	1.25 kW
Annual energy consumption Qhe	2937 kWh	3718 kWh



Model: HA 8-6 O 230V B3

Configure model		
Model name	HA 8-6 O 230V B3	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone Colder Climate + Warmer Climate		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

COP

4.42

EN 14511-2			
Low temperature Medium temperature			
Heat output	7.37 kW	7.58 kW	
El input	1.66 kW	2.65 kW	

2.85

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Shatting on the heat transfer medium now	passeu
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	228 %	162 %
Prated	6.87 kW	7.06 kW
SCOP	5.78	4.13
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.87 kW	7.06 kW
COP Tj = +2°C	3.18	2.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.38 kW	4.71 kW
COP Tj = +7°C	5.29	3.44
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	3.68 kW	3.56 kW
COP Tj = 12°C	7.37	5.62
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	6.87 kW	7.06 kW

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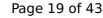


COP Tj = Tbiv	3.18	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.87 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.18	2.31
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1586 kWh	2284 kWh

Colder Climate

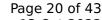
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	58 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	159 %	119 %
Prated	6.03 kW	5.59 kW
	,	





9		
SCOP	4.05	3.06
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	3.71 kW	3.77 kW
COP Tj = -7°C	3.42	2.54
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = $+2$ °C	2.80 kW	2.59 kW
COP Tj = +2°C	5.04	3.70
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.25 kW	3.12 kW
$COPTj = +7^{\circ}C$	6.63	5.08
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.73 kW	3.67 kW
COP Tj = 12°C	7.71	6.80
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.92 kW	4.56 kW
COP Tj = Tbiv	2.57	1.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.66 kW	3.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	55 °C	55 °C



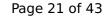


Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.03 kW	5.59 kW
Annual energy consumption Qhe	3665 kWh	4506 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.92	4.56
COP Tj = -15 °C (if TOL< -20 °C)	2.57	1.92
Cdh Tj = -15 °C	0.980	0.990

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	58 dB(A)	57 dB(A)	

Low temperature	Medium temperature
187 %	135 %
7.21 kW	6.39 kW
4.75	3.44
_	187 % 7.21 kW





This information was genera	Ted by the Hi KETMAI	tik database on 15 oct 2022
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.38 kW	5.66 kW
$COP Tj = -7^{\circ}C$	2.93	2.17
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	3.83 kW	3.49 kW
COP Tj = +2°C	4.73	3.32
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = $+7^{\circ}$ C	3.21 kW	3.06 kW
$COPTj = +7^{\circ}C$	6.33	4.67
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.72 kW	3.62 kW
COP Tj = 12°C	7.79	6.23
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	6.38 kW	5.66 kW
COP Tj = Tbiv	2.93	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.66	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C
Poff	8 W	8 W
	+	



$$\operatorname{\textit{Page}}\xspace$ 22 of 43 This information was generated by the HP KEYMARK database on 13 Oct 2022

РТО	29 W	29 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.21 kW	1.30 kW
Annual energy consumption Qhe	3139 kWh	3837 kWh



Model: HA 6-6 O 230V

Configure model		
Model name	HA 6-6 O 230V	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.48 kW	4.94 kW	
El input	0.94 kW	1.69 kW	
СОР	4.78	2.93	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Shatting on the heat transfer medium now	passeu
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	53 dB(A)	55 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	232 %	164 %	
Prated	5.71 kW	6.10 kW	
SCOP	5.87	4.16	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	5.71 kW	6.10 kW	
COP Tj = +2°C	3.29	2.29	
Cdh Tj = +2 °C	0.980	0.990	
Pdh Tj = +7°C	3.73 kW	4.28 kW	
COP Tj = +7°C	5.59	3.58	
Cdh Tj = +7 °C	0.960	0.980	
Pdh Tj = 12°C	3.64 kW	3.51 kW	
COP Tj = 12°C	7.36	5.59	
Cdh Tj = +12 °C	0.950	0.960	
Pdh Tj = Tbiv	5.71 kW	6.10 kW	

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COP Tj = Tbiv	3.29	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.29	2.29
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1299 kWh	1956 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	53 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	162 %	117 %





Prated	4.25 kW	3.92 kW
SCOP	4.11	3.00
Tbiv	-20 °C	-20 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	2.81 kW	2.28 kW
$COP Tj = -7^{\circ}C$	3.51	2.43
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = $+2^{\circ}$ C	2.71 kW	2.53 kW
$COP Tj = +2^{\circ}C$	5.06	3.72
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.10 kW	3.01 kW
$COP Tj = +7^{\circ}C$	6.39	4.89
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.69 kW	3.58 kW
COP Tj = 12°C	7.84	6.44
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.03 kW	3.71 kW
COP Tj = Tbiv	2.20	1.59
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.03 kW	3.71 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		





	1	
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	29 W	29 W
PSB	29 W	29 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.25 kW	3.92 kW
Annual energy consumption Qhe	2549 kWh	3219 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	53 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	188 %	131 %
Prated	5.75 kW	4.49 kW





SCOP	4.76	3.35
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.19 kW	3.89 kW
$COP Tj = -7^{\circ}C$	3.10	2.19
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.01 kW	2.57 kW
COP Tj = +2°C	4.73	3.25
Cdh Tj = +2 °C	0.960	0.960
Pdh Tj = $+7^{\circ}$ C	3.09 kW	2.95 kW
$COPTj = +7^{\circ}C$	6.17	4.48
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.66 kW	3.56 kW
COP Tj = 12°C	7.60	6.06
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	5.37 kW	4.84 kW
COP Tj = Tbiv	2.78	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.37 kW	4.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C



$$\operatorname{\textit{Page}}\xspace$ 29 of 43 This information was generated by the HP KEYMARK database on 13 Oct 2022

Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	2494 kWh	2766 kWh



Model: HA 6-6 O 230V B2

Configure model		
Model name	HA 6-6 O 230V B2	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.48 kW	4.94 kW	
El input	0.94 kW	1.69 kW	
СОР	4.78	2.93	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate



 $$\operatorname{\textit{Page}}\ 31$$ of 43 This information was generated by the HP KEYMARK database on 13 Oct 2022

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	226 %	161 %
Prated	5.71 kW	6.10 kW
SCOP	5.71	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.71 kW	6.10 kW
COP Tj = +2°C	3.29	2.29
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = $+7^{\circ}$ C	3.73 kW	4.28 kW
COP Tj = +7°C	5.59	3.58
Cdh Tj = +7 °C	0.960	0.980
Pdh Tj = 12°C	3.64 kW	3.51 kW
COP Tj = 12°C	7.36	5.59
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	5.71 kW	6.10 kW
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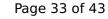


COP Tj = Tbiv	3.29	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.29	2.29
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1335 kWh	1993 kWh

Colder Climate

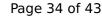
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	160 %	116 %





	<u> </u>	N database on 13 Oct 202
Prated	4.25 kW	3.92 kW
SCOP	4.08	2.98
Tbiv	-20 °C	-20 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.81 kW	2.28 kW
$COP Tj = -7^{\circ}C$	3.51	2.43
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = $+2$ °C	2.71 kW	2.53 kW
COP Tj = +2°C	5.06	3.72
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.10 kW	3.01 kW
$COPTj = +7^{\circ}C$	6.39	4.89
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.69 kW	3.58 kW
COP Tj = 12°C	7.84	6.44
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.03 kW	3.71 kW
COP Tj = Tbiv	2.20	1.59
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.03 kW	3.71 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		



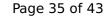


WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	29 W	29 W
PSB	29 W	29 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.25 kW	3.92 kW
Annual energy consumption Qhe	2567 kWh	3237 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825			
Low temperature Medium temperature			
185 %	130 %		
5.75 kW	4.49 kW		
	Low temperature		





	The state of the s	TK database on 13 Oct 2022
SCOP	4.71	3.32
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.19 kW	3.89 kW
$COPTj = -7^{\circ}C$	3.10	2.19
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.01 kW	2.57 kW
COP Tj = +2°C	4.73	3.25
Cdh Tj = +2 °C	0.960	0.960
Pdh Tj = $+7^{\circ}$ C	3.09 kW	2.95 kW
$COPTj = +7^{\circ}C$	6.17	4.48
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.66 kW	3.56 kW
COP Tj = 12°C	7.60	6.06
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	5.37 kW	4.84 kW
COP Tj = Tbiv	2.78	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.37 kW	4.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C



$$\operatorname{\textit{Page}}\ 36$$ of 43 This information was generated by the HP KEYMARK database on 13 Oct 2022

Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2524 kWh	2796 kWh

Model: HA 6-6 O 230V B3

Configure model		
Model name	HA 6-6 O 230V B3	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2					
	Low temperature Medium temperature				
Heat output	5.12 kW	5.80 kW			
El input	1.10 kW	2.00 kW			
СОР	4.66	2.89			

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	57 dB(A)

EN 14825				
Low temperature Medium temperature				
η_{s}	229 %	162 %		
Prated	5.31 kW	5.98 kW		
SCOP	5.81	4.12		
Tbiv	2 °C	2 °C		
TOL	2 °C	2 °C		
Pdh Tj = +2°C	5.31 kW	5.98 kW		
COP Tj = +2°C	3.46	2.33		
Cdh Tj = +2 °C	0.98	0.99		
Pdh Tj = +7°C	4.12 kW	3.72 kW		
COP Tj = +7°C	5.49	3.50		
Cdh Tj = +7 °C	0.96	0.97		
Pdh Tj = 12°C	3.67 kW	3.52 kW		
COP Tj = 12°C	7.40	5.58		
Cdh Tj = +12 °C	0.95	0.96		
Pdh Tj = Tbiv	5.31 kW	5.98 kW		

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COP Tj = Tbiv 3.46 2.33 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.31 kW 5.98 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.46 2.33 WTOL 55 °C 55 °C Poff 8 W 8 W PTO 29 W 29 W PSB 29 W 29 W 29 W 29 W		·
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	6 2.33
WTOL 55 °C 55 °C Poff 8 W 8 W PTO 29 W 29 W	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1 kW 5.98 kW
Poff 8 W 8 W PTO 29 W 29 W	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6 2.33
PTO 29 W 29 W	WTOL	°C 55 °C
	Poff	8 W
PSB 29 W 29 W	РТО	W 29 W
	PSB	W 29 W
PCK 0 W 0 W	PCK	0 W
Supplementary Heater: Type of energy input Electricity Electricity	Supplementary Heater: Type of energy input	ctricity
Supplementary Heater: PSUP 0.00 kW 0.00 kW	Supplementary Heater: PSUP	0 kW 0.00 kW
Annual energy consumption Qhe 1222 kWh 1938 kWh	Annual energy consumption Qhe	22 kWh 1938 kWh

Colder Climate

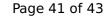
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	57 dB(A)

EN 14825		
Low temperature	Medium temperature	
162 %	121 %	
5.97 kW	5.51 kW	
	162 %	





SCOP	4.13	3.10
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.58 kW	3.27 kW
COP Tj = -7°C	3.45	2.55
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.75 kW	2.58 kW
$COPTj = +2^{\circ}C$	5.17	3.80
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.16 kW	3.07 kW
$COPTj = +7^{\circ}C$	6.64	5.07
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	3.69 kW	3.60 kW
COP Tj = 12°C	7.77	6.57
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.87 kW	4.50 kW
COP Tj = Tbiv	2.57	1.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.10 kW	3.76 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C





Poff	8 W	8 W
PTO	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.97 kW	5.51 kW
Annual energy consumption Qhe	3560 kWh	4385 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	57 dB(A)

EN 14825		
Low temperature	Medium temperature	
186 %	136 %	
6.73 kW	6.26 kW	
4.71	3.47	
	Low temperature 186 % 6.73 kW	





This information was genera	ted by the Hi KEIMAI	th database on 15 oct 2022
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	5.96 kW	5.54 kW
$COPTj = -7^{\circ}C$	3.01	2.14
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	3.67 kW	3.63 kW
COP Tj = +2°C	4.62	3.39
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = $+7^{\circ}$ C	3.12 kW	3.01 kW
$COPTj = +7^{\circ}C$	6.36	4.67
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.69 kW	3.57 kW
COP Tj = 12°C	7.82	6.19
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	5.96 kW	5.54 kW
COP Tj = Tbiv	3.01	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	5.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C
Poff	8 W	8 W
	+	



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PTO	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.21 kW	1.21 kW
Annual energy consumption Qhe	2951 kWh	3731 kWh