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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
COP	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

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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 °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
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 generated by the HP KEYMARK database on 13 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°C	3.19 kW	3.08 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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	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 generated by the HP KEYMARK database on 13 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°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°C	3.18 kW	3.00 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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	kW	1.25 kW
Annual energy consumption Q _{he}	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
COP	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	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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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
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 generated by the HP KEYMARK 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°C	3.19 kW	3.08 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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	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
η_s	183 %	133 %
Prated	6.60 kW	6.13 kW
SCOP	4.64	3.41

This information was generated by the HP KEYMARK database on 13 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°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°C	3.18 kW	3.00 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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	kW	1.25 kW
Annual energy consumption Q _{he}	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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.37 kW	7.58 kW
El input	1.66 kW	2.65 kW
COP	4.42	2.85

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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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
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
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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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°C	3.25 kW	3.12 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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	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)

EN 14825		
	Low temperature	Medium temperature
η_s	187 %	135 %
Prated	7.21 kW	6.39 kW
SCOP	4.75	3.44

This information was generated by the HP KEYMARK database on 13 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°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°C	3.21 kW	3.06 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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	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
COP	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

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	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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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
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
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 %

This information was generated by the HP KEYMARK database on 13 Oct 2022

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°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°C	3.10 kW	3.01 kW
COP Tj = +7°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		

This information was generated by the HP KEYMARK database on 13 Oct 2022

WTOL	55 °C	55 °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	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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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°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°C	3.09 kW	2.95 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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	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
COP	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

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°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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
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
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 %

This information was generated by the HP KEYMARK database on 13 Oct 2022

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°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°C	3.10 kW	3.01 kW
COP Tj = +7°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		

This information was generated by the HP KEYMARK database on 13 Oct 2022

WTOL	55 °C	55 °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	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
η_s	185 %	130 %
Prated	5.75 kW	4.49 kW

This information was generated by the HP KEYMARK 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
COP Tj = -7°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°C	3.09 kW	2.95 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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
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
COP	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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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
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	1222 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
η_s	162 %	121 %
Prated	5.97 kW	5.51 kW

This information was generated by the HP KEYMARK database on 13 Oct 2022

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
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = +7°C	3.16 kW	3.07 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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	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
η_s	186 %	136 %
Prated	6.73 kW	6.26 kW
SCOP	4.71	3.47

This information was generated by the HP KEYMARK database on 13 Oct 2022

Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.96 kW	5.54 kW
COP Tj = -7°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°C	3.12 kW	3.01 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 13 Oct 2022

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	1.21 kW	1.21 kW
Annual energy consumption Qhe	2951 kWh	3731 kWh