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Login

Summary of	HA 5-6 O 230V	Reg. No.	40051132	
Certificate H	Certificate Holder			
Name	Saunier Duval Brand Group			
Address	Zip			
City		Country	Germany	
Certification Body	VDE Prüf- und Zertifizierungsinstitut GmbH			
Subtype title	HA 5-6 O 230V			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R290			
Mass of Refrigerant	0.6 kg			
Certification Date	25.03.2022			
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 5-6 O 230V

Configure model		
Model name	HA 5-6 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	3.36 kW	4.83 kW
El input	0.69 kW	1.71 kW
COP	4 80	2.80

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	51 dB(A)	54 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	233 %	157 %
Prated	4.96 kW	5.07 kW
SCOP	5.89	3.99
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.96 kW	5.07 kW
COP Tj = +2°C	3.35	2.30
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.42 kW	3.08 kW
COP Tj = +7°C	5.45	3.43
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.59 kW	2.42 kW
COP Tj = 12°C	7.25	5.17
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	4.96 kW	5.07 kW

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3.35	2.30
l.96 kW	5.07 kW
3.35	2.30
′0 °C	70 °C
3 W	8 W
.7 W	17 W
.7 W	17 W
) W	0 W
Electricity	Electricity
).00 kW	0.00 kW
.125 kWh	1697 kWh
77 77	35 O °C W W W W ectricity 00 kW

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	51 dB(A)	54 dB(A)	

EN 14825		
Low temperature	Medium temperature	
158 %	116 %	
5.01 kW	4.76 kW	
	Low temperature	





SCOP	4.02	2.98
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	3.22 kW	2.89 kW
COP Tj = -7°C	3.36	2.45
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	1.92 kW	1.85 kW
COP Tj = +2°C	5.04	3.65
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.33 kW	2.21 kW
$COPTj = +7^{\circ}C$	6.82	5.01
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	2.62 kW	2.56 kW
COP Tj = 12°C	7.24	6.46
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	4.09 kW	3.88 kW
COP Tj = Tbiv	2.13	1.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.04 kW	3.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	70 °C	70 °C





Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.01 kW	4.76 kW
Annual energy consumption Qhe	3076 kWh	3930 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.09	3.88
COP Tj = -15 °C (if TOL< -20 °C)	2.13	1.67
Cdh Tj = -15 °C	0.990	0.990

Average Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	51 dB(A)	54 dB(A)	

Low temperature	Medium temperature
183 %	130 %
4.81 kW	4.88 kW
4.66	3.33





	<u> </u>	<u> </u>
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.26 kW	4.32 kW
$COPTj = -7^{\circ}C$	2.78	2.11
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	2.70 kW	2.46 kW
COP Tj = +2°C	4.62	3.19
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = $+7^{\circ}$ C	2.29 kW	2.12 kW
$COPTj = +7^{\circ}C$	6.41	4.40
Cdh Tj = $+7$ °C	0.960	0.970
Pdh Tj = 12°C	2.61 kW	2.52 kW
COP Tj = 12°C	7.61	6.03
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	4.26 kW	4.63 kW
COP Tj = Tbiv	2.78	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.13 kW	4.63 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C
Poff	8 W	8 W
	+	•



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PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.68 kW	kW
Annual energy consumption Qhe	2135 kWh	3029 kWh



Model: HA 5-6 O 230V B2

Configure model		
Model name	HA 5-6 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	3.36 kW	4.83 kW		
El input	0.69 kW	1.71 kW		
СОР	4.80	2.80		

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

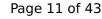
Warmer Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	51 dB(A)	54 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	225 %	153 %
Prated	4.96 kW	5.07 kW
SCOP	5.71	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.96 kW	5.07 kW
COP Tj = +2°C	3.35	2.30
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.42 kW	3.08 kW
$COP Tj = +7^{\circ}C$	5.45	3.43
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.59 kW	2.42 kW
COP Tj = 12°C	7.25	5.17
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	4.96 kW	5.07 kW
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COP Tj = Tbiv	3.35	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.96 kW	5.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.35	2.30
WTOL	70 °C	70 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 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	1161 kWh	1733 kWh

Colder Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	51 dB(A)	54 dB(A)	

EN 14825		
Low temperature	Medium temperature	
157 %	116 %	
5.01 kW	4.76 kW	
	Low temperature 157 %	





SCOP	3.99	2.97
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.22 kW	2.89 kW
$COP Tj = -7^{\circ}C$	3.36	2.45
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2^{\circ}$ C	1.92 kW	1.85 kW
COP Tj = +2°C	5.04	3.65
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = $+7^{\circ}$ C	2.33 kW	2.21 kW
$COPTj = +7^{\circ}C$	6.82	5.01
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	2.62 kW	2.56 kW
COP Tj = 12°C	7.24	6.46
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	4.09 kW	3.88 kW
COP Tj = Tbiv	2.13	1.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.04 kW	3.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C



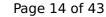


Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.01 kW	4.76 kW
Annual energy consumption Qhe	3094 kWh	3948 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.09	3.88
COP Tj = -15°C (if TOL $<$ -20°C)	2.13	1.67
Cdh Tj = -15 °C	0.990	0.990

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	181 %	129 %
Prated	4.81 kW	4.88 kW
SCOP	4.59	3.30





Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.26 kW	4.32 kW
$COPTj = -7^{\circ}C$	2.78	2.11
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.70 kW	2.46 kW
COP Tj = +2°C	4.62	3.19
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = $+7^{\circ}$ C	2.29 kW	2.12 kW
$COPTj = +7^{\circ}C$	6.41	4.40
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.61 kW	2.52 kW
COP Tj = 12°C	7.61	6.03
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	4.26 kW	4.63 kW
COP Tj = Tbiv	2.78	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.13 kW	4.63 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C
Poff	8 W	8 W
	+	•



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PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.68 kW	kW
Annual energy consumption Qhe	2165 kWh	3059 kWh

Model: HA 5-6 O 230V B3

Configure model		
Model name HA 5-6 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	4.21 kW	4.83 kW	
El input	0.95 kW	1.71 kW	
СОР	4.39	2.80	

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	52 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	215 %	157 %
Prated	4.75 kW	5.07 kW
SCOP	5.44	3.99
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.75 kW	5.07 kW
COP Tj = +2°C	3.22	2.30
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.33 kW	3.08 kW
COP Tj = +7°C	5.07	3.43
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.48 kW	2.42 kW
COP Tj = 12°C	6.61	5.17
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	4.75 kW	5.07 kW

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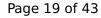


COP Tj = Tbiv	3.22	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.75 kW	5.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.22	2.30
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1166 kWh	1697 kWh

Colder Climate

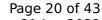
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

EN 14825		
Low temperature	Medium temperature	
148 %	116 %	
4.68 kW	4.76 kW	
-	148 %	





SCOP	3.77	2.98
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.69 kW	2.89 kW
COP Tj = -7°C	3.26	2.45
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	1.90 kW	1.85 kW
COP Tj = +2°C	4.66	3.65
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.22 kW	2.21 kW
$COPTj = +7^{\circ}C$	6.04	5.01
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	2.49 kW	2.56 kW
COP Tj = 12°C	6.79	6.46
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.82 kW	3.88 kW
COP Tj = Tbiv	2.01	1.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.88	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	55 °C	55 °C





Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.68 kW	4.76 kW
Annual energy consumption Qhe	3064 kWh	3930 kWh
Pdh Tj = -15°C (if TOL<-20°C)	3.82	3.88
COP Tj = -15°C (if TOL $<$ -20°C)	2.01	1.67
Cdh Tj = -15 °C	0.990	0.990

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

EN 14825		
ature Medium temperature		
130 %		
4.88 kW		
3.33		





This information was generated by the HP KEYMARK database on 21 jun 2022			
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7 °C	3.93 kW	4.32 kW	
$COP Tj = -7^{\circ}C$	2.79	2.11	
Cdh Tj = -7 °C	0.990	0.990	
Pdh Tj = +2°C	2.17 kW	2.46 kW	
COP Tj = +2°C	4.46	3.19	
Cdh Tj = +2 °C	0.970	0.980	
Pdh Tj = +7°C	2.26 kW	2.12 kW	
$COPTj = +7^{\circ}C$	5.99	4.40	
Cdh Tj = +7 °C	0.960	0.960	
Pdh Tj = 12°C	2.54 kW	2.52 kW	
COP Tj = 12°C	7.16	6.03	
Cdh Tj = +12 °C	0.960	0.960	
Pdh Tj = Tbiv	4.42 kW	4.63 kW	
COP Tj = Tbiv	2.21	1.86	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.42 kW	4.63 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.21	1.86	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh			
WTOL	55 °C	55 °C	
Poff	8 W	8 W	
	•	·	



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РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	2045 kWh	3029 kWh



Model: HA 3-6 O 230V

Configure model		
Model name	HA 3-6 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

COP

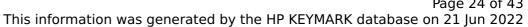
EN 14511-2			
Low temperature Medium temperature		Medium temperature	
Heat output	3.32 kW	4.79 kW	
El input 0.69 kW 1.71 kW		1.71 kW	

2.80

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

4.80





EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	51 dB(A)	54 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	208 %	153 %
Prated	3.53 kW	3.55 kW
SCOP	5.29	3.89
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.53 kW	3.55 kW
COP Tj = +2°C	3.42	2.31
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	2.18 kW	2.44 kW
COP Tj = +7°C	4.97	3.37
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.40 kW	2.37 kW
COP Tj = 12°C	6.45	5.11
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	3.53 kW	3.55 kW

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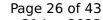


COP Tj = Tbiv	3.42	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.53 kW	3.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.42	2.31
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	892 kWh	1219 kWh

Colder Climate

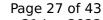
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	51 dB(A)	54 dB(A)	

	EN 14825		
Low temperature	Medium temperature		
147 %	108 %		
3.34 kW	3.15 kW		
_	147 %		





SCOP	3.75	2.78
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.11 kW	1.92 kW
COP Tj = -7°C	3.34	2.25
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	1.78 kW	1.71 kW
COP Tj = +2°C	4.45	3.46
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.16 kW	2.09 kW
$COP Tj = +7^{\circ}C$	6.23	4.71
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.49 kW	2.44 kW
COP Tj = 12°C	7.22	6.17
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	2.72 kW	2.57 kW
COP Tj = Tbiv	2.16	1.61
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.69 kW	2.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.06	1.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	55 °C	55 °C



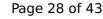


Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.34 kW	3.15 kW
Annual energy consumption Qhe	2192 kWh	2787 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level outdoor	51 dB(A)	54 dB(A)		

EN 14825		
Low temperature	Medium temperature	
177 %	124 %	
4.19 kW	4.18 kW	
4.50	3.18	
	Low temperature 177 % 4.19 kW	





Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.71 kW	3.69 kW
COP Tj = -7°C	3.04	2.08
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.18 kW	2.32 kW
$COP Tj = +2^{\circ}C$	4.40	3.01
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = $+7^{\circ}$ C	2.15 kW	2.03 kW
$COP Tj = +7^{\circ}C$	5.96	4.28
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.41 kW	2.42 kW
COP Tj = 12°C	7.04	5.84
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.71 kW	3.69 kW
COP Tj = Tbiv	3.04	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.34 kW	3.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C
Poff	8 W	8 W



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РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.84 kW	0.87 kW
Annual energy consumption Qhe	1923 kWh	2715 kWh

Model: HA 3-6 O 230V B2

Configure model		
Model name	HA 3-6 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	3.32 kW	4.79 kW
El input	0.69 kW	1.71 kW
СОР	4.80	2.80

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	51 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	148 %
Prated	3.53 kW	3.55 kW
SCOP	5.08	3.78
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.53 kW	3.55 kW
COP Tj = +2°C	3.42	2.31
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	2.18 kW	2.44 kW
COP Tj = +7°C	4.97	3.37
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.40 kW	2.37 kW
COP Tj = 12°C	6.45	5.11
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	3.53 kW	3.55 kW

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COP Tj = Tbiv	3.42	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.53 kW	3.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.42	2.31
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 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	928 kWh	1255 kWh

Colder Climate

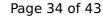
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	146 %	108 %
Prated	3.34 kW	3.15 kW
		I





SCOP	3.72	2.77
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	2.11 kW	1.92 kW
COP Tj = -7°C	3.34	2.25
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = $+2$ °C	1.78 kW	1.71 kW
COP Tj = +2°C	4.45	3.46
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = $+7^{\circ}$ C	2.16 kW	2.09 kW
$COP Tj = +7^{\circ}C$	6.23	4.71
Cdh Tj = $+7$ °C	0.960	0.970
Pdh Tj = 12°C	2.49 kW	2.44 kW
COP Tj = 12°C	7.22	6.17
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	2.72 kW	2.57 kW
COP Tj = Tbiv	2.16	1.61
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.69 kW	2.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.06	1.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	55 °C	55 °C



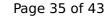


Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.34 kW	3.15 kW
Annual energy consumption Qhe	2210 kWh	2805 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	51 dB(A)	54 dB(A)	

EN 14825		
Low temperature	Medium temperature	
174 %	123 %	
4.19 kW	4.18 kW	
4.43	3.14	
	Low temperature 174 % 4.19 kW	





This information was gener	aced by the Hi KETHA	NK database on 21 Juli 2022
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	3.71 kW	3.69 kW
$COP Tj = -7^{\circ}C$	3.04	2.08
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.18 kW	2.32 kW
COP Tj = +2°C	4.40	3.01
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	2.15 kW	2.03 kW
$COPTj = +7^{\circ}C$	5.96	4.28
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.41 kW	2.42 kW
COP Tj = 12°C	7.04	5.84
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.71 kW	3.69 kW
COP Tj = Tbiv	3.04	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.34 kW	3.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C
Poff	8 W	8 W



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РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.84 kW	0.87 kW
Annual energy consumption Qhe	1953 kWh	2745 kWh

Model: HA 4-6 O 230V B3

Configure model		
Model name	HA 4-6 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	4.07 kW	3.64 kW		
El input	0.89 kW	1.28 kW		
СОР	4.59	2.83		

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

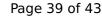
Warmer Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	50 dB(A)	52 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	220 %	155 %
Prated	3.40 kW	3.43 kW
SCOP	5.57	3.94
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.44 kW	3.43 kW
COP Tj = +2°C	3.36	2.28
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	2.33 kW	2.16 kW
COP Tj = +7°C	5.21	3.39
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.57 kW	2.45 kW
COP Tj = 12°C	7.00	5.25
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	3.44 kW	3.43 kW

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COP Tj = Tbiv	3.36	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.44 kW	3.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.36	2.28
WTOL	75 °C	75 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 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	815 kWh	1164 kWh

Colder Climate

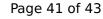
EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	50 dB(A)	52 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	152 %	113 %
Prated	4.00 kW	3.48 kW
	I	





SCOP	3.87	2.90
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.42 kW	2.12 kW
$COP Tj = -7^{\circ}C$	3.26	2.40
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = $+2$ °C	1.92 kW	1.76 kW
COP Tj = +2°C	4.80	3.53
Cdh Tj = $+2$ °C	0.960	0.970
Pdh Tj = $+7^{\circ}$ C	2.26 kW	2.14 kW
$COPTj = +7^{\circ}C$	6.27	4.81
Cdh Tj = $+7$ °C	0.960	0.970
Pdh Tj = 12°C	2.59 kW	2.57 kW
COP Tj = 12°C	7.39	6.27
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.11 kW	2.84 kW
COP Tj = Tbiv	2.37	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.66 kW	2.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.02	1.47
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C





Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	3.48 kW
Annual energy consumption Qhe	2543 kWh	2959 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)	52 dB(A)

EN 14825		
Low temperature	Medium temperature	
180 %	131 %	
4.13 kW	4.22 kW	
4.56	3.34	
	Low temperature 180 % 4.13 kW	





Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.65 kW	3.73 kW
COP Tj = -7°C	2.97	2.12
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	2.20 kW	2.28 kW
COP Tj = +2°C	4.48	3.24
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	2.23 kW	2.11 kW
COP Tj = +7°C	6.02	4.45
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.59 kW	2.54 kW
COP Tj = 12°C	7.39	5.97
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.65 kW	3.73 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.65 kW	3.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	8 W	8 W



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PTO	17 W	17 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.48 kW	0.87 kW
Annual energy consumption Qhe	1870 kWh	2606 kWh