



SmartVu™

## INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS



unit with protection grille option

## High-temperature heat pumps

61AF-B

Nominal heating capacity 26-102 kW 50 Hz



## 4 - PHYSICAL DATA

61AF		030	035	045	055	075	105
<b>Operating weight<sup>(1)</sup></b>							
Standard unit without hydraulic module	kg	396	411	500	523	900	1020
Standard unit + optional hydraulic module	kg	408	425	564	588	956	1076
<b>Sound levels</b>							
Sound power level <sup>(2)</sup>	dB(A)	78	83	82	84	84	85
Sound pressure level at 10 m <sup>(3)</sup>	dB(A)	46	51	51	53	52	53
<b>Dimensions</b>							
Length	mm	1110	1110	1114	1114	2273	2273
Depth	mm	1327	1327	2100	2100	2100	2100
Height	mm	1330	1330	1330	1330	1330	1330
<b>Compressors</b>		Hermetic scroll compressor 48,3 r/s					
Quantity		1	1	1	1	2	2
No. of capacity steps		1	1	1	1	2	2
<b>Refrigerant</b>		R407C GWP = 1800 following AR4					
Charge	kg	8,8	9,7	10	13,2	22	26,5
	teq CO <sub>2</sub>	15,6	17,2	17,7	23,4	39,0	47,0
<b>Oil</b>							
Charge	l	4,1	4,1	4,1	4,1	8,2	8,2
<b>Capacity control</b>		SmartVu™					
Minimum capacity	%	100	100	100	100	50	50
<b>Condensers</b>		Direct-expansion welded plate heat exchanger					
Water volume	l	6,4	8,2	9,6	12,1	16,4	22,7
Max. water-side operating pressure without hydraulic module	kPa	1000	1000	1000	1000	1000	1000
Max. water-side operating pressure with hydraulic module	kPa	400	400	400	400	400	400
<b>Fans</b>		Axial Flying Bird 4 fans with rotating shroud					
Quantity		1	1	1	1	2	2
Maximum total air flow	l/s	3748	3736	4035	4036	7479	8072
Max speed, standard unit	tr/s	12	12	12	12	12	12
Max speed, unit with option 11	tr/s	-	16	16	16	16	16
<b>Evaporator</b>		Grooved copper tubes, aluminium fins					
<b>Hydraulic module (option)</b>							
Variable speed pump		Pump, Victaulic screen filter, relief valve, water + air purge valves cavitation pressure sensors					
<b>Water connections (with and without hydraulic module)</b>		Victaulic					
Connections <sup>(4)</sup>	inch	1"1/4	1"1/2	1"1/2	1"1/2	2	2
Outside tube diameter	mm	42,4	48,3	48,3	48,3	60,3	60,3
<b>Chassis paint colour</b>		Colour code RAL 7035					

(1) Weight shown is a guideline only. Please refer to the unit nameplate

(2) In dB ref=10<sup>-12</sup> W, (A) weighting. Declared dualnumber noise emission values in accordance with ISO 4871 (with an associated uncertainty of +/-2dB(A)). Measured in accordance with ISO 9614-1 and certified by Eurovent.

(3) In dB ref 20 µPa, (A) weighting. Declared dualnumber noise emission values in accordance with ISO 4871 (with an associated uncertainty of +/-2dB(A)). For information, calculated from the sound power level Lw(A).

(4) Unit 61AF 030 includes two sleeves for a 1-1/4" Victaulic to 1-1/4" screw connection as standard.