

## HMK80AA KAPPA LBP Compressor High Efficiency R600a 220-240V 50Hz

### General

Code number	CDO00029
Approvals	EN 60335-2-34 w. Annex AA
Compressors on pallet	100

### Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -5	-
Voltage range	V	187 to 264	-
Max. condensing temperature continuous (short)	°C	60 (70)	-
Max. winding temperature continuous (short)	°C	130 (130)	-

### Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		S	-	-	-	-	-
38°C		S	-	-	-	-	-
43°C		S	-	-	-	-	-
Remarks on application:							

### Motor

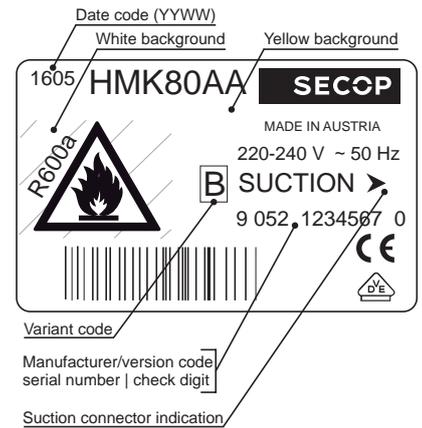
Motor type	RSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	-	3.5
Cut in Current, HST   LST	A	-	12.8
Resistance, main   start winding (25°C)	Ω	29.5	18.6

### Design

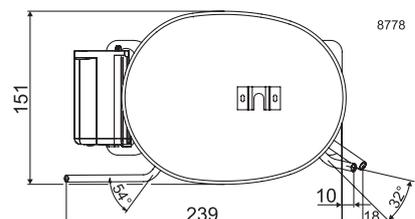
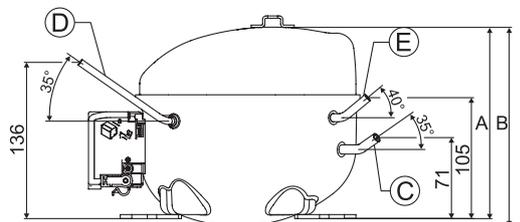
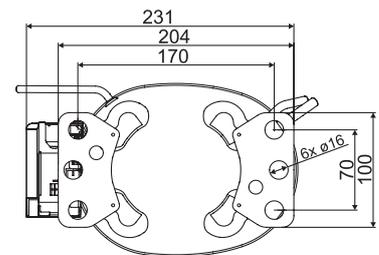
Displacement	cm <sup>3</sup>	8.10
Oil quantity (type)	cm <sup>3</sup>	165 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	1520
Weight without electrical equipment	kg	7.6

### Dimensions

Height	mm	A	159.0
		B	165.5
Suction connector	location/I.D. mm   angle	C	6.15   35°
	material   comment		Copper   Rubber plug
Process connector	location/O.D. mm   angle	D	6.00   35°
	material   comment		Copper   Rubber plug
Discharge connector	location/I.D. mm   angle	E	5.15   40°
	material   comment		Copper   Rubber plug
Oil cooler connector	location/I.D. mm   angle	F	-
	material   comment		-
Connector tolerance	I.D. mm		±0.05
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s  
(compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



**EN 12900 Household**

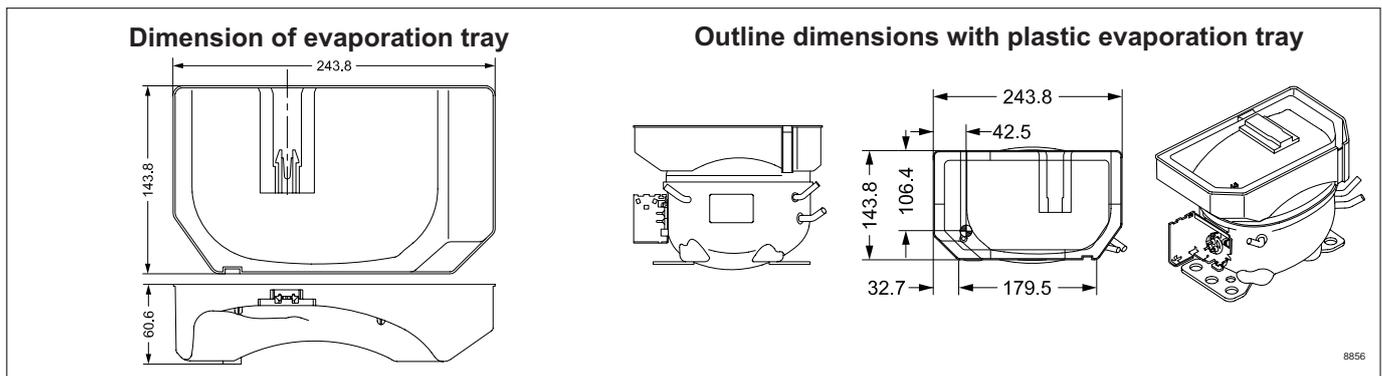
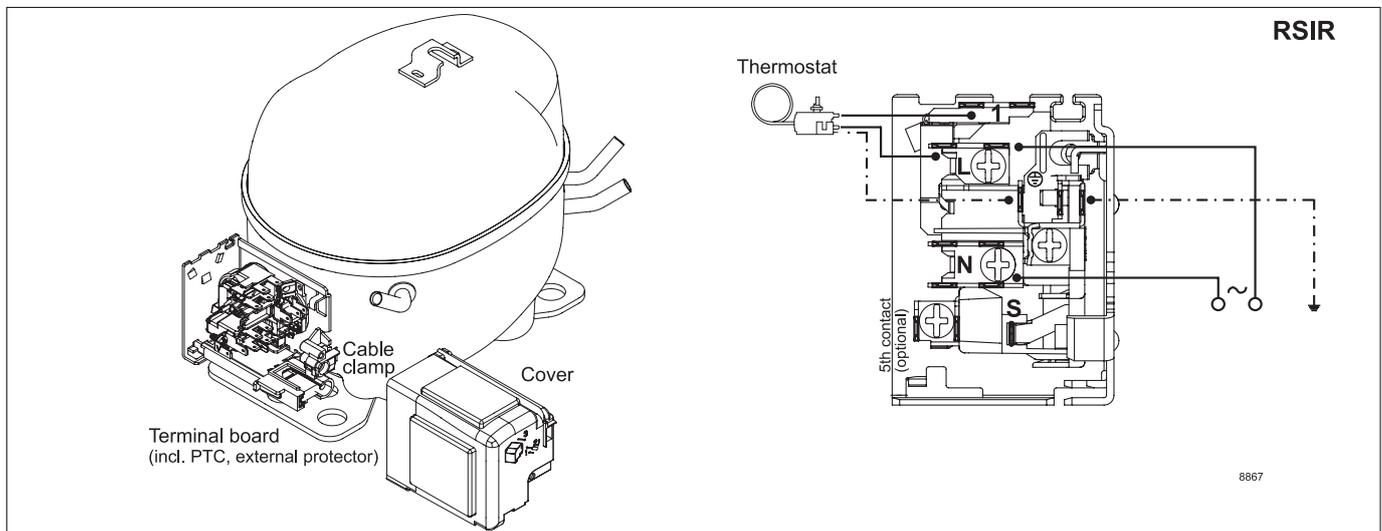
220V, 50Hz, PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			54.7	75.6	102	112	133	169	211	241	258						
Power cons. in W			62.1	74.1	86.5	90.7	99.1	112	125	134	139						
Current cons. in A			0.49	0.55	0.61	0.62	0.66	0.72	0.79	0.83	0.85						
COP in W/W			0.88	1.02	1.18	1.23	1.34	1.51	1.68	1.80	1.86						

**ASHRAE LBP**

220V, 50Hz, PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			67.0	92.3	124	136	162	206	257	294	314						
Power cons. in W			62.1	74.1	86.3	90.5	98.7	111	125	133	138						
Current cons. in A			0.49	0.55	0.60	0.62	0.66	0.72	0.78	0.82	0.84						
COP in W/W			1.08	1.25	1.44	1.51	1.64	1.85	2.06	2.20	2.28						



Accessories for	HMK80AA	Code number
Terminal board (incl. PTC and external protector)	4.8 mm or 6.3 mm spade connectors	ZAF5 / DAF5
Motor Protector	AE 18 FU x	F5
Cable clamp (screws not included)		113410_
Cover		157595_
Evaporation tray (optional)		113188_

Test conditions	EN 12900 Household	ASHRAE LBP
Condensing temperature	55°C	54.4°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	no subcooling	32°C

All-in-one equipment, e.g. 4ZN	Code number
Cover / cable clamp + screws / earthing screw	16168000

Mounting accessories	Code number
on request, various options available	

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