

Model
HMK80AA

Sales code:
CDO00165

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	7.60 kg / 16.76lbs
Displacement	8.10 cm3 / 0.49cu.in
Compressors on pallet	100



General – Configurations With HMK80AA

–	Conf. 1
Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	187-264 V
Approvals	VDE
Starting torque	LST
Refrigerant	R600a
Application	LBP

Application Notes

- Various options of housing are possible (dip-tray fixture) - please contact SECOP-Sales.
- Various options of connectors are possible - please contact SECOP-Sales.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

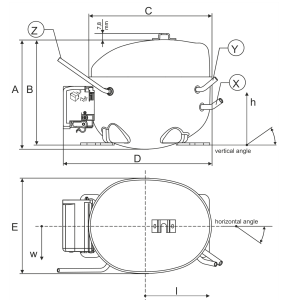
Oil type	Mineral	Winding resistance main	29.4 Ohm
Oil viscosity	5cSt	Winding resistance aux	16.5 Ohm
Oil quantity	165 / 5.58fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,520 cm³ / 51.40fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

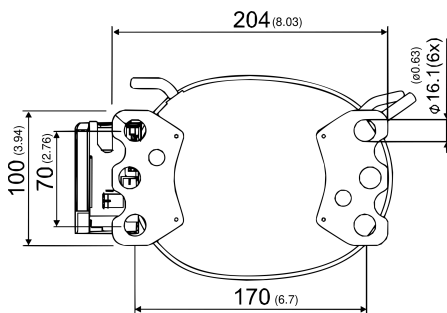
A Height	166mm / 6.54in
B Height	159mm / 6.26in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



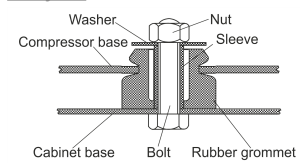
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi 5.1–5.2 / 0.20–0.20in	øi 5.92–6.08 / 0.23–0.24in
Material	CU	CU	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70 / -5.51/5.35/2.76in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	75 / 2.95in

Mounting Accessories

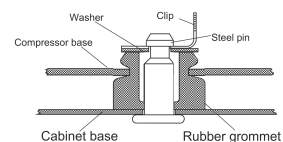


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
'4ZN' with rubber grommet	–	772N
'4ZN' with rubber grommet and sleeve for M6	–	768N
Bolt joint kit	–	4ZN + 118-1917 (18)
'4ZN' with Snap on kit	–	776N

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Configuration 1

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Configuration

Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	187-264 V
Starting torque	LST
Approvals	VDE
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	3.55 A
RLA (rated load amps / 1s/ U(N))	0.8 A
Cut in current (U(N))	10 A

Ambient/ machine room temperatures minimum /maximum

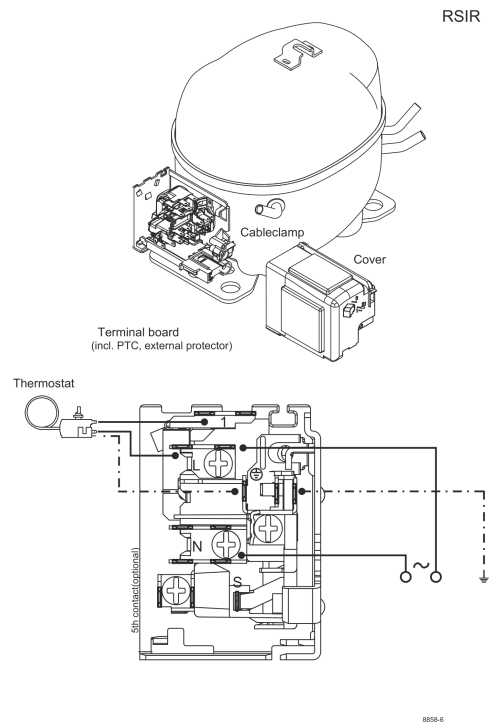
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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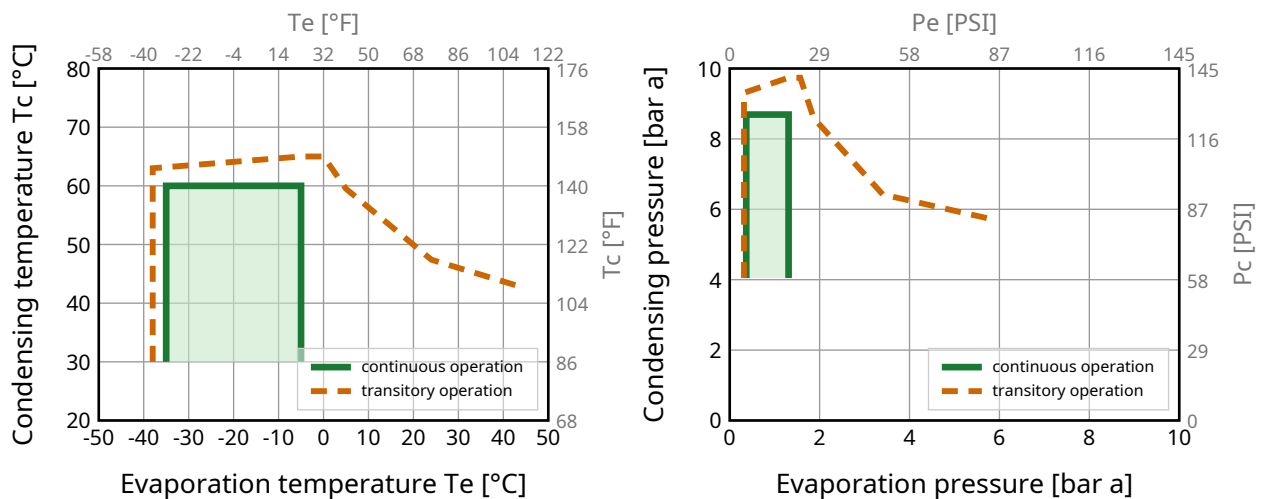
Components

- . terminal board (PTC,4.8mm,K100) ZA F5
- . motor protector BDG AE 18 Fu x AE18FUX
- . cover + clamp + screws (Nr. 4ZN) 16168000
- . evaporation tray (optional) 113188_

Alternative components

- . terminal board (PTC,6.3mm,K100) DA F5
- . motor protector BDG AE 18 Fu x AE18FUX
- . cable clamp 16058100
- . cover 157595_
- . evaporation tray (optional) 113188_

Operation Pressure Range



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Standard Conditions

R600a, 220 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	136	464	117	1.50	5.12	90	0.62	1.46	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	102	347	87	1.18	4.01	86	0.60	1.33	CECOMAF LBP
-35 -31	40 104	20 68	40 104	73	248	62	1.12	3.84	65	0.52	0.88	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	110	376	95	1.25	4.25	89	0.61	1.61	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	144	492	124	1.68	5.74	86	0.60	1.55	AHAM LBP
-35 -31	45 113	32 89.6	45 113	68	232	59	1.07	3.64	64	0.51	0.81	opt LBP

Performance Tables

R600a, 220 V/50 Hz, RSIR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	68	232	59	1.07	3.64	64	0.51	0.81
-30	-22	90	306	77	1.21	4.14	74	0.55	1.06
-25	-13	117	400	101	1.40	4.76	84	0.59	1.39
-20	-4	151	514	130	1.60	5.47	94	0.64	1.80
-15	5	190	649	164	1.83	6.23	104	0.69	2.27
-10	14	236	805	203	2.06	7.04	114	0.73	2.82
-5	23	287	980	247	2.31	7.87	125	0.79	3.45

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	55	187	47	0.88	3.01	62	0.49	0.71
-30	-22	76	258	65	1.02	3.48	74	0.55	0.98
-25	-13	102	347	87	1.18	4.01	86	0.60	1.33
-20	-4	133	453	114	1.34	4.58	99	0.66	1.74
-15	5	169	578	146	1.51	5.16	112	0.72	2.22
-10	14	211	720	181	1.68	5.75	125	0.79	2.77
-5	23	258	879	222	1.86	6.33	139	0.85	3.39