

Model			
Designation	HMK80AA	220-240V/50Hz 1~	Sales code: 16050800

Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	4,6cST	Displacement	8,1cm³ / 0,49cu.in
Oil quantity	162cm³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1520cm³ / 51,4fl.oz		
Weight	7,6kg / 16,8lbs		
Motor protection	external		
Winding resistance main	29,4Ω (at 25°C)		
Winding resistance aux	16,5Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	120°C / 248°F		



General - Configurations with HMK80AA

	Conf. 1	Conf. 2
Motorconfiguration	RSIR	RSIR
Power supply (nominal)	220-240V/50Hz	220-240V/50Hz
Number of phases	1	1
Voltage range	187-264V	187-264V
Approvals	VDE	VDE
Starting torque	LST	LST
Note	Various options of connectors are possible - please contact SECOP-Sales.	

Applications with HMK80AA

	Conf. 1	Conf. 2
Refrigerant	R600a	R600a
Application	LBP	LBP
System cooling	static	static
Hot gas defrost	-/-	-/-
Long interval pull down	-/-	-/-

Electrical data - Configurations with HMK80AA

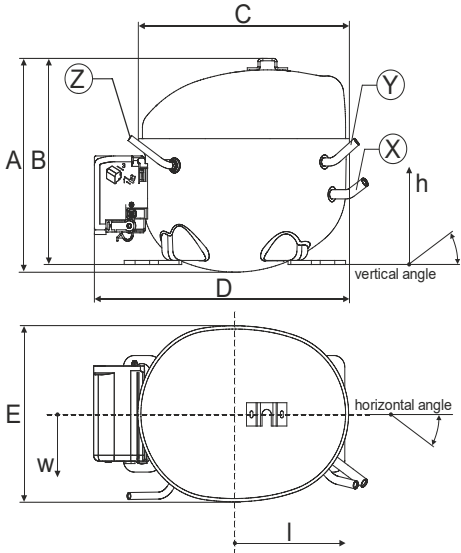
	Conf. 1	Conf. 2
Starting device type	PTC	PTC
Run capacitor	-/-	-/-
Start capacitor	-/-	-/-
LRA (locked rotor amps / 4s/ U(N))	3,55A	3,55A
RLA (rated load amps / 1s/ U(N))	0,8A	0,8A
Cut in current (U(N))	10A	10A

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Compressor dimensions

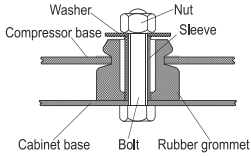
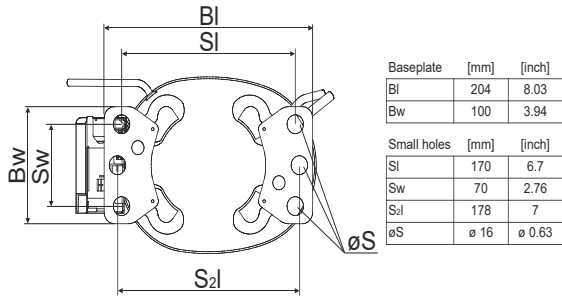
Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors		Suction X	Discharge Y	Process Z
Diameter [mm]		øi 6,16-6,24	øi 5,1-5,2	øi 6,11-6,29
(i:inside, o:outside) [in]		øi 0,24-0,25	øi 0,2-0,2	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	54°	35°	45°
Vertical angle	±2°	35°	40°	35°
Position l/h/w	[mm]	120/92/57	112/106/81	-86/94/72
	[in]	4,7/3,6/2,2	4,4/4,2/3,2	-3,4/3,7/2,8
Straight tube l.	[mm]	14	14	14
	[in]	0,5	0,5	0,5

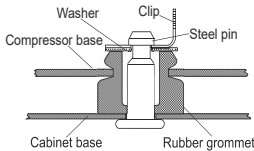


Compressor fixation

Bolt joint



Snap-on



Mounting accessories

'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

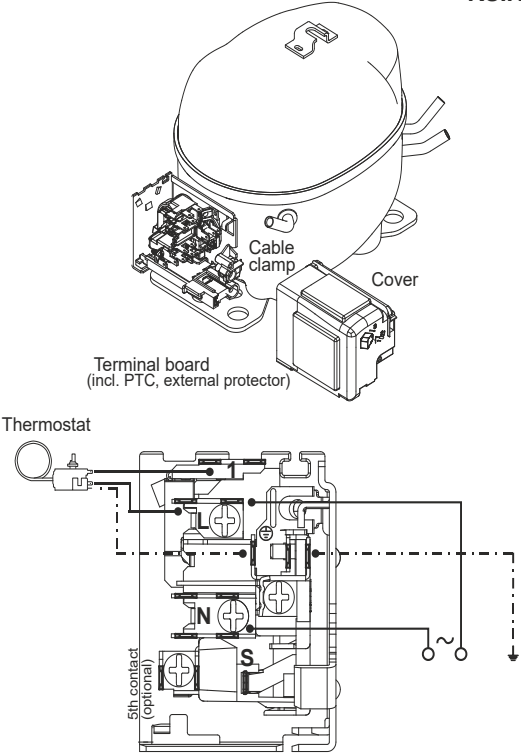
Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

Housing with dip-tray fixture (omega bracket).

Various options of connectors are possible - please contact SECOP-Sales.

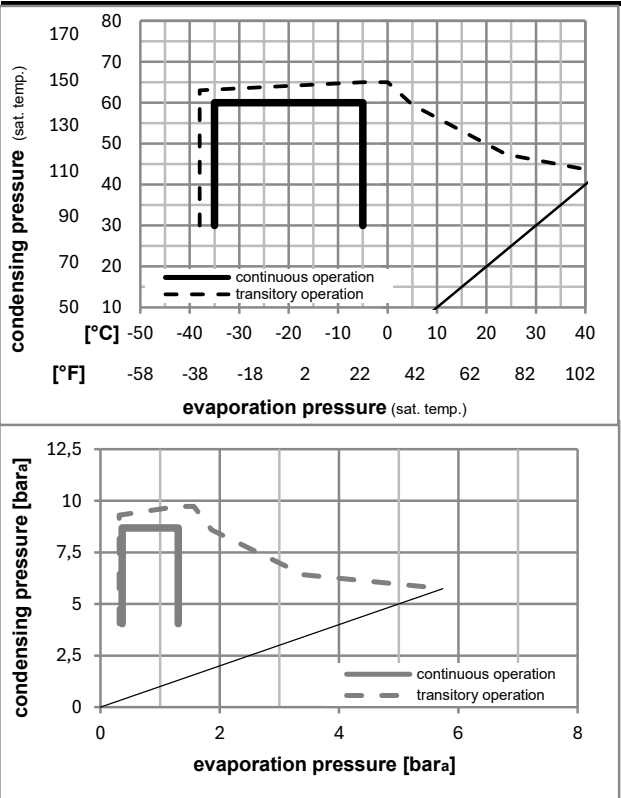
Model				
Designation	HMK80AA	220-240V/50Hz	Conf. 1	Sales code: 16050800

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	RSIR			
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	187-264V			
Starting torque	LST			
Approvals	VDE			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static

Operation pressure range



Components		8858-6
. terminal board (PTC, 4.8mm)	15163500	
. cover	15759500	
. cable clamp	11341000	
. screw uni en iso 4757	10641201	

Model

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Optimization + standard conditions

R600a, 220V/50Hz, RSIR, static, VDE

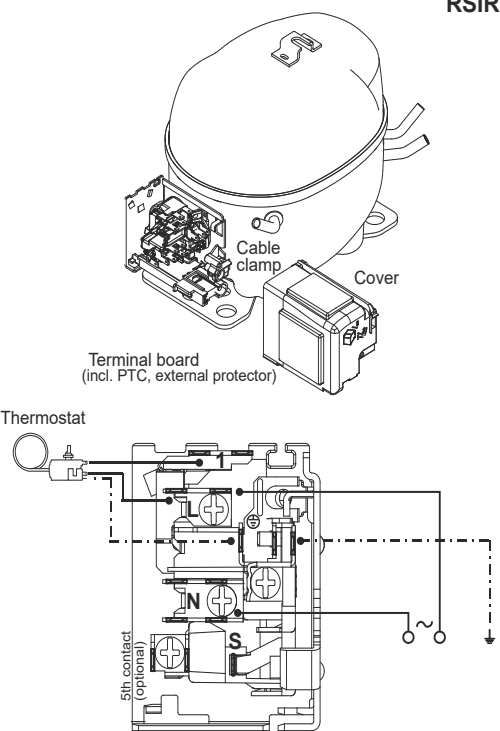
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Performance tables

R600a, 220V/50Hz, RSIR, static, VDE

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	68,1	233	58,6	1,07	3,65	0,92	63,8	0,51	0,81
cond. pressure	-30	-22	89,6	306	77,1	1,21	4,14	1,04	73,9	0,55	1,07
pc= 45/113	-25	-13	117,1	400	100,8	1,40	4,77	1,20	83,9	0,59	1,39
return gas temp.	-23	-10	127,8	437	110,0	1,46	5,00	1,26	87,3	0,61	1,52
RGT= 32/90	-20	-4	150,7	514	129,7	1,60	5,47	1,38	94,0	0,64	1,80
liquid temp	-15	5	190,2	650	163,7	1,83	6,24	1,57	104,1	0,69	2,27
Tliq= 45/113	-5	23	287,3	981	247,3	2,31	7,88	1,99	124,6	0,78	3,45
[°C / °F]	-35	-31	54,7	187	47,1	0,88	3,01	0,76	62,1	0,49	0,71
cond. pressure	-30	-22	75,6	258	65,1	1,02	3,48	0,88	74,1	0,55	0,99
pc= 55/131	-25	-13	101,7	347	87,5	1,18	4,02	1,01	86,5	0,61	1,33
return gas temp	-23	-10	111,7	382	96,2	1,23	4,21	1,06	90,7	0,62	1,46
RGT= 32/90	-20	-4	132,9	454	114,4	1,34	4,58	1,15	99,1	0,66	1,74
liquid temp	-15	5	169,4	578	145,8	1,51	5,16	1,30	112,0	0,72	2,22
Tliq= 55/131	-5	23	257,7	880	221,8	1,86	6,34	1,60	138,8	0,85	3,39

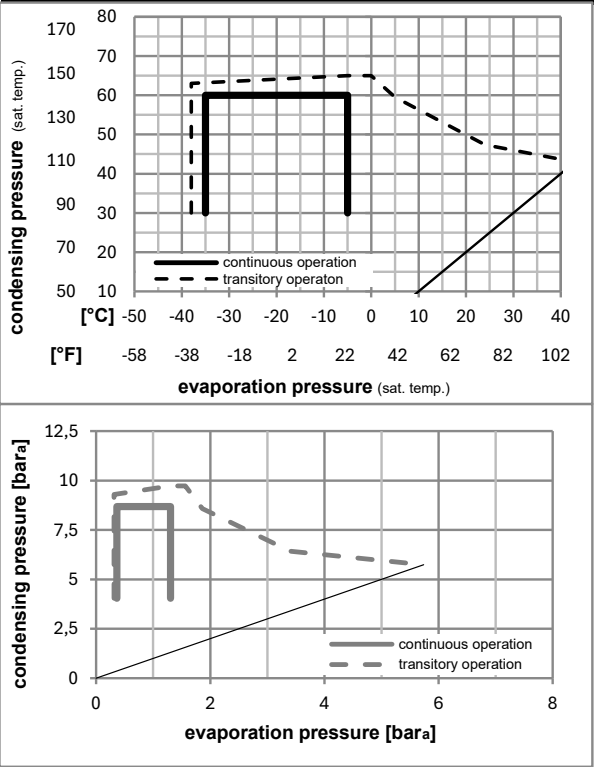
Model				
Designation	HMK80AA	220-240V/50Hz	Conf. 2	Sales code: 16050800

Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	RSIR			
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	187-264V			
Starting torque	LST			
Approvals	VDE			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static

Operation pressure range



Components

. terminal board (PTC, 6.3mm)	15279300
b cover terminal board	10636401
. cable clamp	11341000
. screw - uni6954	10636000
. screw - uni6954	10636200
. screw uni en iso 4757	10641201

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Optimization + standard conditions

R600a, 220V/50Hz, RSIR, static, VDE

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)					Power consumption				