

Model

Designation	HMK12AA	220-240V/50Hz 1~	Sales code:	16229100
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cSt	Displacement	11,2cm ³ / 0,68cu.in
Oil quantity	162cm ³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1560cm ³ / 52,7fl.oz		
Weight	9kg / 19,8lbs		
Motor protection	external		
Winding resistance main	15,7Ω (at 25°C)		
Winding resistance aux	12,6Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HMK12AA

Conf. 1

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

Applications with HMK12AA

Conf. 1

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

Electrical data - Configurations with HMK12AA

Conf. 1

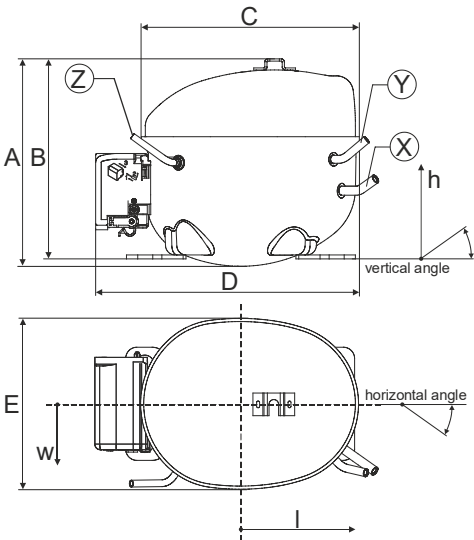
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	6,2A
RLA (rated load amps / 1s/ U(N))	1,2A
Cut in current (U(N))	12,9A

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Compressor dimensions

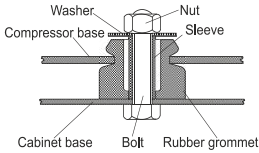
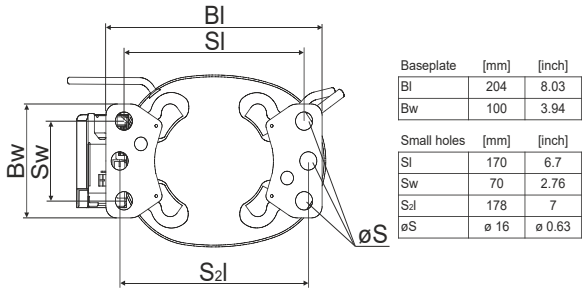
Housing	A Height	182mm / 7,17in
	B Height	175mm / 6,89in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 6,16-6,24	øi 5,1-5,2	øi 6,11-6,29
	[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

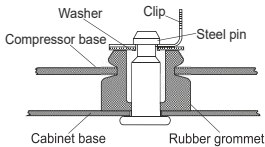


Compressor fixation

Bolt joint



Snap-on



Mounting accessories

- '4ZN' with rubber grommet
- '4ZN' with rubber grommet and sleeve for M6
- Bolt joint kit
- '4ZN' with Snap on kit

- order code
- 772N
- 768N
- 4ZN + 118-1917 (18)
- 776N

Application notes

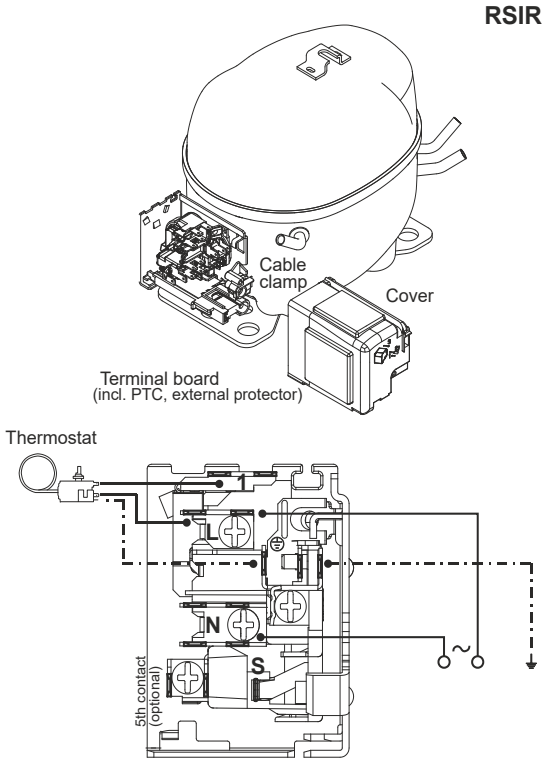
Provision for PE Grounding is located at the PE Stamp on the compressor Housing with dip-tray fixture (omega bracket).
 Various options of connectors are possible - please contact SECOP-Sales.

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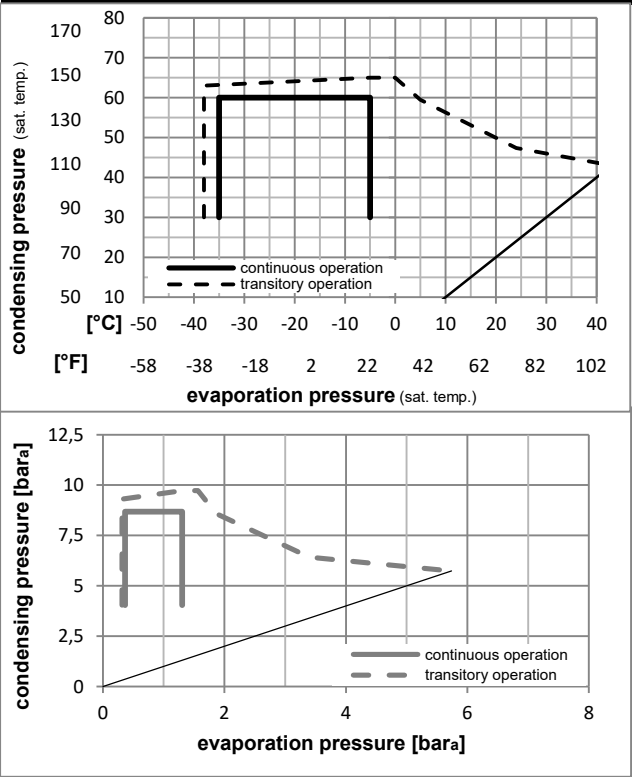
Configuration	Electrical accessories / wiring diagram				
Motor configuration	RSIR	RSIR			
Power supply (nominal)	220-240V/50Hz 1~				
Refrigerant	R600a				
Application	LBP				
Voltage range	187-264V				
Starting torque	LST				
Approvals	VDE				

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, 4.8mm)	15164700
b	cover terminal board	10636401
.	cable clamp	16058100
.	screw - uni6954	10636000
.	screw - uni6954	10636200
.	screw uni en iso 4757	10641201

Alternative components		
.	terminal board (PTC, 6.3mm)	15588600

Model

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Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption																																																																																			
Return gas temp.					Current consumption						Ref. mass flow																																																																																			
Liquid temp.					Cooling capacity						COP				EER				P1				I				ṁ																																																																			
pe					pc					RGT					Tliq					[W]					[Btu/h]					[kcal/h]					[W/W]					[Btu/Wh]					[kcal/Wh]					[W]					[A]					[kg/h]																																		
[°C]					-23					54					32					32					197,9					676					170,4					1,53					5,23					1,32					129,2					0,87					2,12					ASHRAE LBP																								
[°F]					-10					130					90					90																																																																										
[°C]					-25					55					32					55					149,0					509					128,2					1,20					4,10					1,03					124,0					0,85					1,94					cecomaf LBP																								
[°F]					-13					131					90					131																																																																										
[°C]					-35					40					20					40					93,7					320					80,6					1,08					3,68					0,93					87,0					0,72					1,14					EN12900 LBP																								
[°F]					-31					104					68					104																																																																										
[°C]					-23					49					4,4					49					160,7					549					138,3					1,28					4,37					1,10					125,5					0,86					2,35					ARI540 LBP																								
[°F]					-10					120					40					120																																																																										
[°C]					-23					41					32					32					211,6					723					182,1					1,75					5,99					1,51					120,7					0,84					2,27					AHAM LBP																								
[°F]					-10					105					90					90																																																																										
[°C]					-35					45					32					45					91,7					313					78,9					1,04					3,54					0,89					88,5					0,71					1,09					opt																								
[°F]					-31					113					90					113																																																																										

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	91,7	313	78,9	1,04	3,54	0,89	88,5	0,71	1,09
cond. pressure	-30	-22	129,3	442	111,3	1,25	4,26	1,07	103,8	0,77	1,54
pc= 45/113	-25	-13	171,7	586	147,8	1,45	4,95	1,25	118,4	0,83	2,04
return gas temp.	-23	-10	187,2	639	161,1	1,52	5,19	1,31	123,3	0,85	2,23
RGT= 32/90	-20	-4	218,8	747	188,3	1,65	5,64	1,42	132,4	0,89	2,61
liquid temp	-15	5	270,5	924	232,8	1,86	6,34	1,60	145,8	0,96	3,23
Tliq= 45/113	-5	23	387,4	1323	333,4	2,27	7,75	1,95	170,7	1,10	4,65
[°C / °F]	-35	-31	81,6	279	70,2	0,90	3,07	0,77	90,8	0,69	1,06
cond. pressure	-30	-22	112,5	384	96,8	1,05	3,58	0,90	107,3	0,76	1,47
pc= 55/131	-25	-13	149,0	509	128,2	1,20	4,10	1,03	124,0	0,85	1,94
return gas temp	-23	-10	162,7	556	140,0	1,25	4,28	1,08	129,8	0,87	2,12
RGT= 32/90	-20	-4	191,0	652	164,4	1,35	4,62	1,16	141,1	0,93	2,50
liquid temp	-15	5	238,4	814	205,1	1,50	5,13	1,29	158,6	1,01	3,12
Tliq= 55/131	-5	23	349,2	1193	300,5	1,79	6,12	1,54	194,9	1,18	4,60