

Model			
Designation	HKK55AA	220-240V/50Hz 1~	Sales code: 16212700

Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	Displacement	5,6cm³ / 0,34cu.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	7,9kg / 17,4lbs		
Motor protection	external		
Winding resistance main	39,2Ω (at 25°C)		
Winding resistance aux	25Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HKK55AA

	Conf. 1
Motorconfiguration	RSCR
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 HKK55AA

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

Electrical data - Configurations with HKK55AA

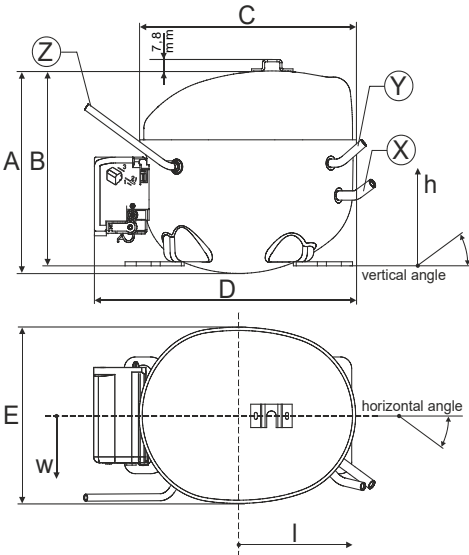
	Conf. 1
Starting device type	PTC
Run capacitor	2,5μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	
RLA (rated load amps / 1s/ U(N))	-/-A
Cut in current (U(N))	

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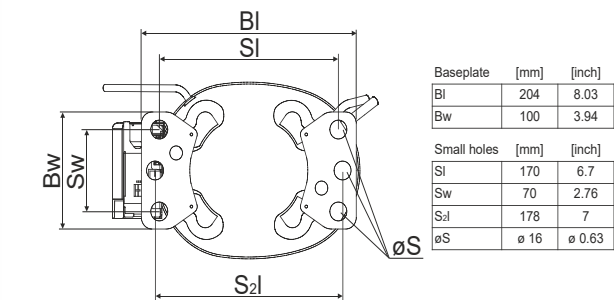
Compressor dimensions

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

Connectors		Suction X	Discharge Y	Process Z
Diameter	[mm]	øi 6,1-6,2	øi 5,1-5,2	øo 5,92-6,08
(i:inside, o:outside)	[in]	øi 0,24-0,24	øi 0,2-0,2	øo 0,23-0,24
Material		copper	copper	copper
Horizontal angle	±2°	45°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	120/72/62	112/106/62	-140/136/70
	[in]	4,7/2,8/2,4	4,4/4,2/2,4	-5,5/5,4/2,8
Straight tube l.	[mm]	14	14	75
	[in]	0,5	0,5	3



Compressor fixation



Mounting accessories

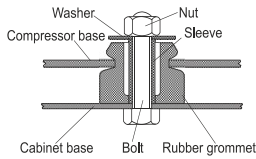
- '4ZN' with rubber grommet
- '4ZN' with rubber grommet and sleeve for M6
- Bolt joint kit
- '4ZN' with Snap on kit

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

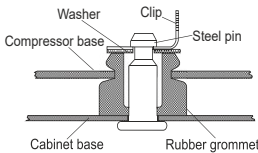
Application notes

- Provision for PE Grounding is located at the PE Stamp on the compressor
- Housing with dip-tray fixture (omega bracket).

Bolt joint



Snap-on



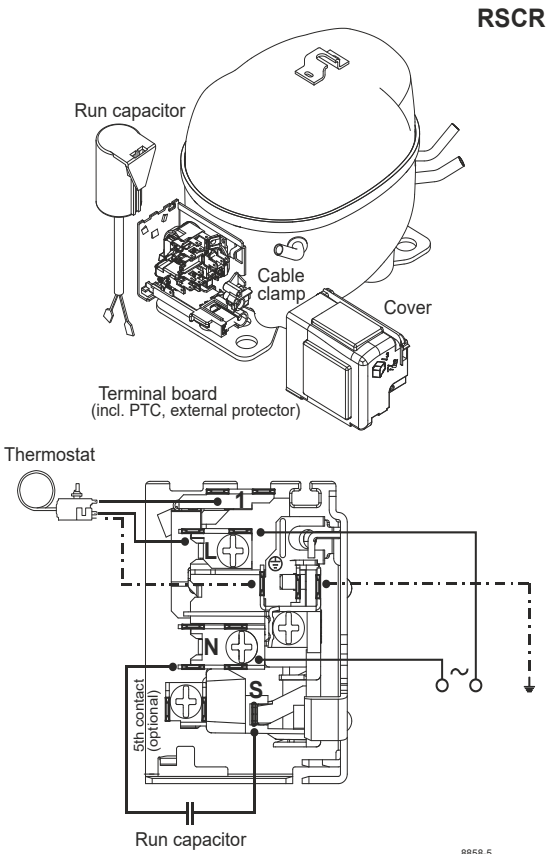
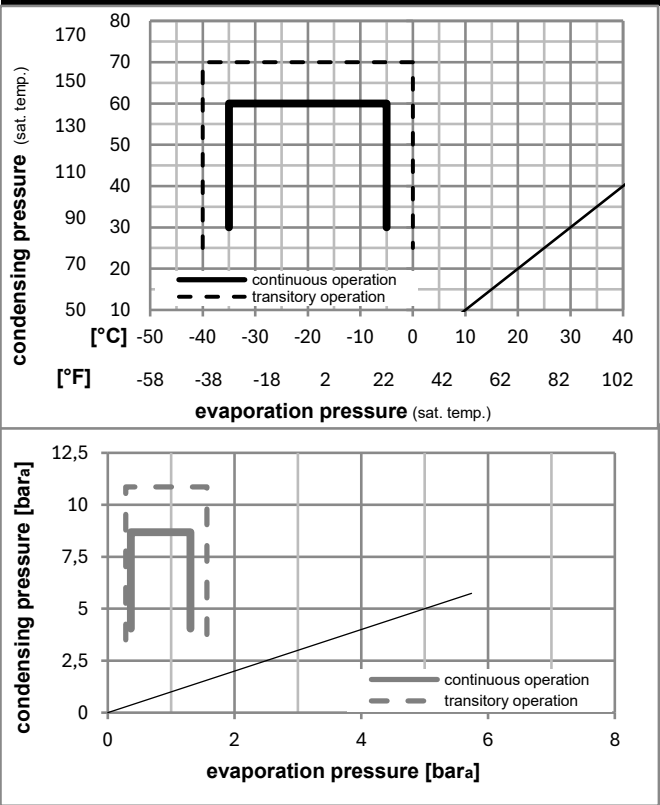
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Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	RSCR			
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	187-264V			
Starting torque	LST			
Approvals	VDE			

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)	15166200
.	run capacitor (2,5µF, 4.8mm)	10692802
b	cover terminal board	10636401
.	cable clamp	11341000

Alternative components		
.	screw - uni6954	10636000
.	screw - uni6954	10636200
.	screw uni en iso 4757	10641201

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Optimization + standard conditions

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

Evaporating pressure (saturation temperature) Condensing pressure (saturation temperature) Return gas temp. Liquid temp. Cooling capacity COP EER Power consumption Current consumption Ref. mass flow														
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	
[°C]	-23	54	32	32	92,7	317	79,8	1,71	5,85	1,47	54,2	0,23	1,00	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	68,5	234	59,0	1,33	4,54	1,14	51,6	0,23	0,89	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	43,9	150	37,8	1,22	4,17	1,05	36,0	0,20	0,53	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	76,2	260	65,5	1,44	4,93	1,24	52,7	0,23	1,11	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	102,0	348	87,7	1,99	6,79	1,71	51,3	0,23	1,09	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	40,6	139	34,9	1,15	3,92	0,99	35,4	0,19	0,48	opt
[°F]	-31	113	90	113										

Performance tables

R600a, 220V/50Hz, RSCR, 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	40,6	139	34,9	1,15	3,92	0,99	35,4	0,19	0,48
cond. pressure	-30	-22	59,2	202	50,9	1,39	4,75	1,20	42,5	0,21	0,70
pc= 45/113	-25	-13	81,2	277	69,9	1,63	5,58	1,41	49,7	0,23	0,97
return gas temp.	-23	-10	89,5	305	77,0	1,72	5,86	1,48	52,1	0,23	1,07
RGT= 32/90	-20	-4	106,6	364	91,7	1,88	6,41	1,61	56,8	0,24	1,27
liquid temp	-15	5	135,4	462	116,5	2,12	7,23	1,82	64,0	0,26	1,62
Tliq= 45/113	-5	23	203,2	694	174,9	2,60	8,87	2,23	78,2	0,30	2,44
[°C / °F]	-35	-31	31,6	108	27,2	0,91	3,09	0,78	34,9	0,19	0,41
cond. pressure	-30	-22	48,3	165	41,6	1,12	3,82	0,96	43,2	0,21	0,63
pc= 55/131	-25	-13	68,5	234	59,0	1,33	4,54	1,14	51,6	0,23	0,89
return gas temp	-23	-10	76,1	260	65,5	1,40	4,78	1,20	54,4	0,24	0,99
RGT= 32/90	-20	-4	92,1	315	79,3	1,53	5,24	1,32	60,0	0,25	1,20
liquid temp	-15	5	119,1	407	102,5	1,74	5,93	1,50	68,6	0,27	1,56
Tliq= 55/131	-5	23	183,5	627	157,9	2,14	7,30	1,84	85,8	0,32	2,42