Technical Data Compressor

SECOP

Model

Designation	**HMK95AA**	**220-240V/50Hz 1~**	Sales code:	**CDO00164**

Compressor design

Oil type	Mineral	Refrigerant(s)	**R600a**
Oil viscosity	4,6cSt	Displacement	9,6cm³ / 0,59cu.in
Oil quantity	162cm³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1500cm³ / 50,7fl.oz		
Weight	7,9kg / 17,4lbs		
Motor protection	external		
Winding resistance main	21,1Ω (at 25°C)		
Winding resistance aux	19,1Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	120°C / 248°F		

General - Configurations with HMK95AA

	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	- / -

Applications with HMK95AA

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

Electrical data - Configurations with HMK95AA

	Conf. 1
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ $U_{(N)}$)	4,6A
RLA (rated load amps / 1s/ $U_{(N)}$)	1A
Cut in current ($U_{(N)}$)	10,1A

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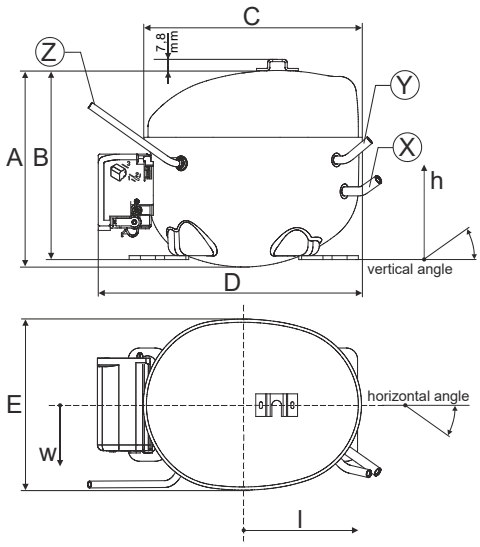
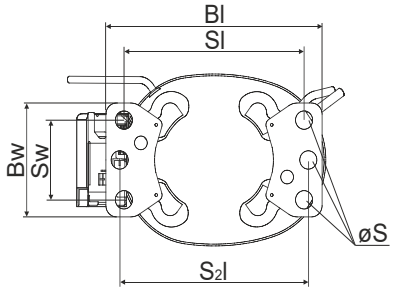
Compressor dimensions

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

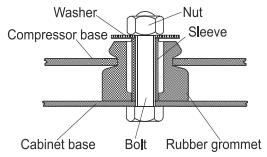
Compressor fixation



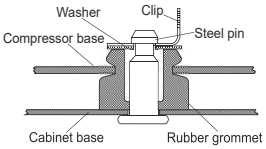
Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	100	3.94

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

Bolt joint



Snap-on



Mounting accessories	order code
'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

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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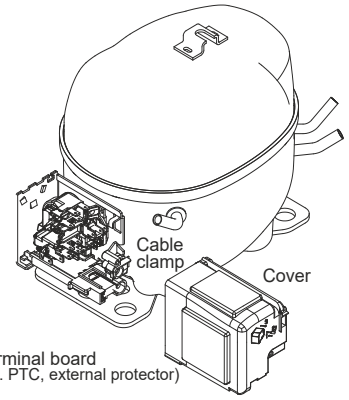
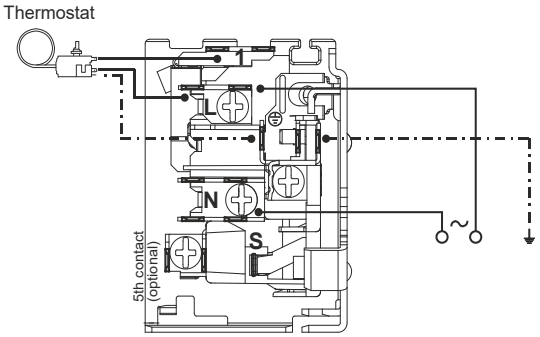
Application	LBP
Voltage range	187-264V
Starting torque	LST
Approvals	VDE

Electrical accessories / wiring diagram

RSIR





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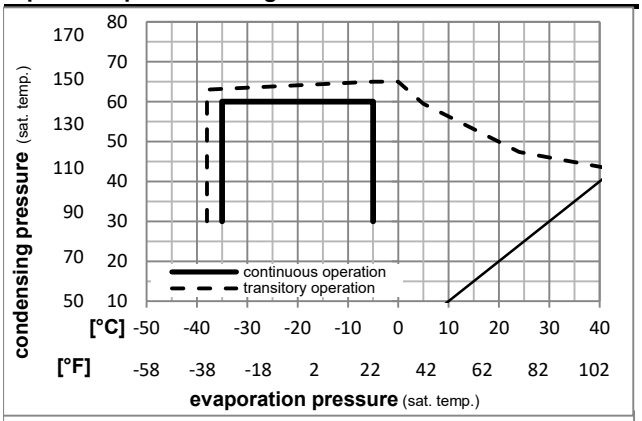
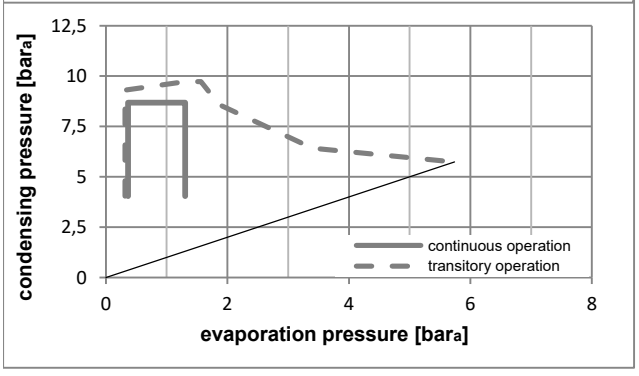
Ambient/ machine room temperatures minimum /maximum

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,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_

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Optimization + standard conditions R600a, 220V/50Hz, RSIR, static, VDE

	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	166,9	570	143,6	1,53	5,22	1,31	109,3	0,76	1,79	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	125,0	427	107,6	1,19	4,07	1,02	105,0	0,74	1,63	**cecomaf LBP**
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	72,9	249	62,7	0,99	3,38	0,85	73,7	0,63	0,89	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	134,4	459	115,7	1,28	4,38	1,10	104,7	0,75	1,96	**ARI540 LBP**
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	175,0	598	150,6	1,77	6,04	1,52	99,0	0,74	1,88	**AHAM LBP**
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	72,5	248	62,4	0,96	3,29	0,83	75,4	0,62	0,86	**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	72,5	248	62,4	0,96	3,29	0,83	75,4	0,62	0,86
cond. pressure	-30	-22	104,4	357	89,9	1,21	4,12	1,04	86,5	0,67	1,24
pc= 45/113	-25	-13	141,8	484	122,1	1,45	4,94	1,25	98,0	0,73	1,69
return gas temp.	-23	-10	155,8	532	134,1	1,53	5,22	1,31	102,0	0,75	1,86
RGT= 32/90	-20	-4	184,7	631	158,9	1,68	5,75	1,45	109,7	0,78	2,20
liquid temp	-15	5	233,0	796	200,5	1,92	6,56	1,65	121,2	0,84	2,78
Tliq= 45/113	-5	23	345,9	1181	297,7	2,41	8,23	2,08	143,5	0,96	4,15
[°C / °F]	-35	-31	66,7	228	57,4	0,85	2,89	0,73	78,9	0,60	0,87
cond. pressure	-30	-22	92,9	317	79,9	1,02	3,47	0,87	91,4	0,67	1,21
pc= 55/131	-25	-13	125,0	427	107,6	1,19	4,07	1,02	105,0	0,74	1,63
return gas temp	-23	-10	137,3	469	118,1	1,25	4,27	1,08	109,8	0,77	1,79
RGT= 32/90	-20	-4	163,0	557	140,3	1,36	4,66	1,17	119,5	0,81	2,13
liquid temp	-15	5	207,0	707	178,2	1,54	5,25	1,32	134,8	0,89	2,71
Tliq= 55/131	-5	23	312,6	1067	269,0	1,88	6,41	1,61	166,6	1,04	4,11