

Model			
Designation	HTK95AA	220-240V/50Hz 1~	Sales code: 16068600

Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	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.	1600cm³ / 54,1fl.oz		
Weight	8,3kg / 18,3lbs		
Motor protection	external		
Winding resistance main	19,3Ω (at 25°C)		
Winding resistance aux	11,3Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HTK95AA

	Conf. 1	Conf. 2
Motorconfiguration	RSIR	RSCR
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 HTK95AA

	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 HTK95AA

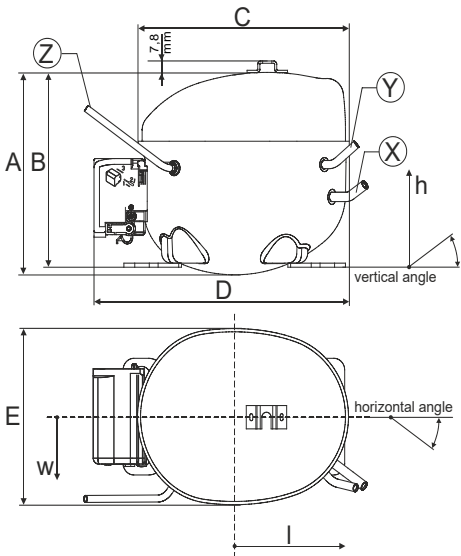
	Conf. 1	Conf. 2
Starting device type	PTC	PTC
Run capacitor	-/-	4µF
Start capacitor	-/-	-/-
LRA (locked rotor amps / 4s/ U(N))		
RLA (rated load amps / 1s/ U(N))	-/-A	-/-A
Cut in current (U(N))		

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Compressor dimensions

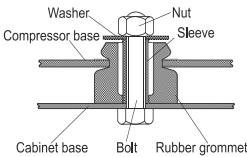
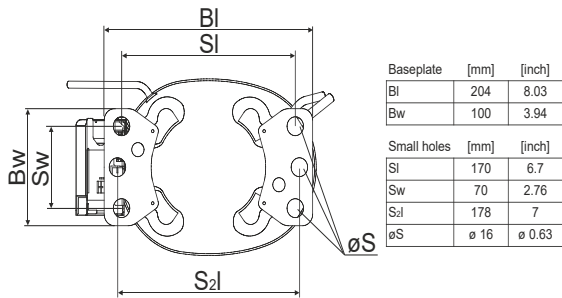
Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6,1-6,2	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

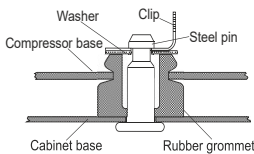


Compressor fixation

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

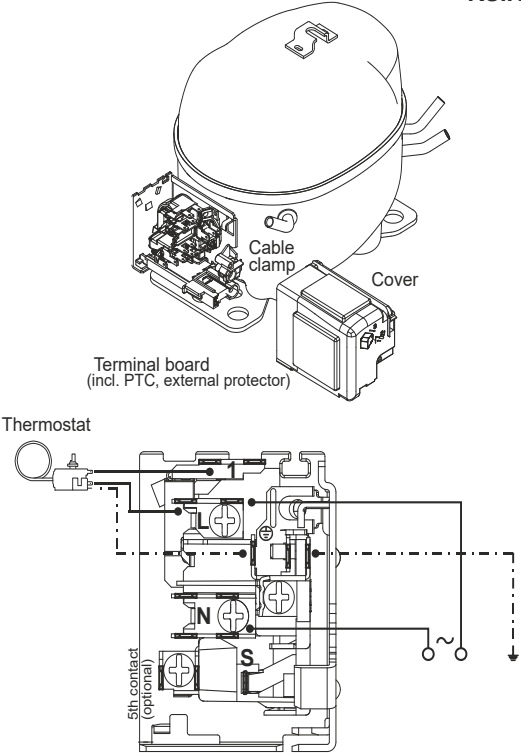
Application notes

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.

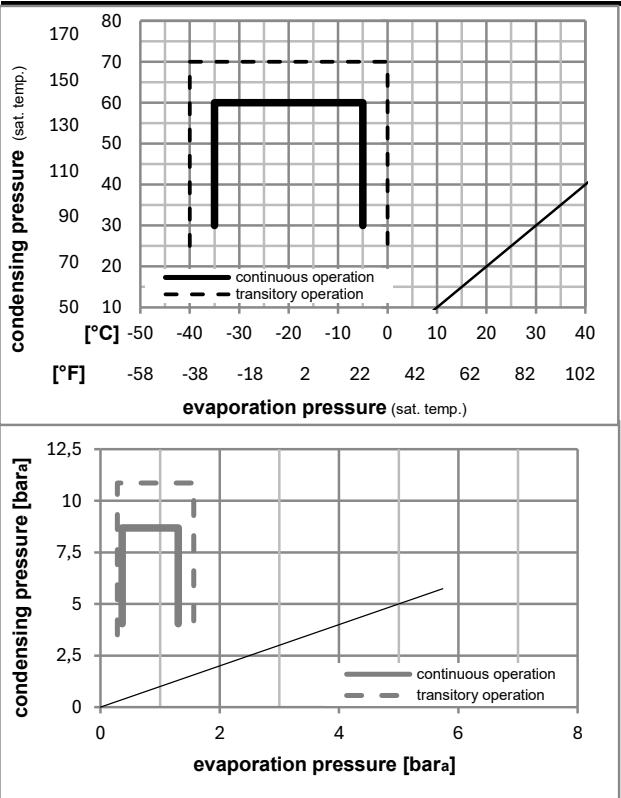
Model				
Designation	HTK95AA	220-240V/50Hz	Conf. 1	Sales code: 16068600

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



<u>Components</u>		
.	terminal board (PTC, 4.8mm)	15164300
b	cover terminal board	10636401
.	cable clamp	11341000
.	screw - uni6954	10636000
.	screw - uni6954	10636200
.	screw uni en iso 4757	10641201

Model

Designation	HTK95AA	220-240V/50Hz	Conf. 1	Sales code:	16068600
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Optimization + standard conditions

R600a, 220V/50Hz, RSIR, 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/W/h]	[kcal/W/h]	[W]	[A]	[kg/h]	P1	I	m															
[°C]	[°C]																													
[°F]	[°F]																													
-23	54	32	32	167,0	570	143,7	1,64	5,61	1,41	101,8	0,67	1,79																		ASHRAE LBP
-10	130	90	90																											
-25	55	32	55	125,5	429	108,0	1,28	4,38	1,10	97,8	0,65	1,64																		cecomaf LBP
-13	131	90	131																											
-35	40	20	40	87,1	297	74,9	1,17	3,99	1,01	74,5	0,56	1,06																		EN12900 LBP
-31	104	68	104																											
-23	49	4,4	49	133,7	457	115,0	1,38	4,70	1,18	97,2	0,66	1,95																		ARI540 LBP
-10	120	40	120																											
-23	41	32	32	173,0	591	148,9	1,89	6,47	1,63	91,3	0,65	1,86																		AHAM LBP
-10	105	90	90																											
-35	45	32	45	83,2	284	71,6	1,11	3,79	0,96	74,9	0,54	0,99																		opt
-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/W/h]	[kcal/W/h]	[W]	[A]	[kg/h]				
[°C / °F]	-35	-31	83,2	284	71,6	1,11	3,79	0,96	74,9	0,54	0,99				
cond. pressure	-30	-22	108,8	371	93,6	1,33	4,55	1,15	81,6	0,59	1,29				
pc= 45/113	-25	-13	141,6	483	121,8	1,56	5,33	1,34	90,8	0,64	1,69				
return gas temp.	-23	-10	154,3	527	132,8	1,64	5,59	1,41	94,3	0,66	1,84				
RGT= 32/90	-20	-4	181,6	620	156,2	1,78	6,09	1,54	101,8	0,69	2,16				
liquid temp	-15	5	228,7	781	196,9	2,01	6,85	1,73	114,0	0,74	2,73				
Tliq= 45/113	-5	23	344,6	1177	296,6	2,47	8,43	2,12	139,6	0,85	4,14				
[°C / °F]	-35	-31	70,5	241	60,6	0,93	3,17	0,80	75,9	0,53	0,92				
cond. pressure	-30	-22	94,7	323	81,5	1,11	3,78	0,95	85,7	0,59	1,23				
pc= 55/131	-25	-13	125,5	429	108,0	1,28	4,38	1,10	97,8	0,65	1,64				
return gas temp	-23	-10	137,5	469	118,3	1,34	4,59	1,16	102,3	0,67	1,79				
RGT= 32/90	-20	-4	162,8	556	140,1	1,46	4,98	1,26	111,6	0,71	2,13				
liquid temp	-15	5	206,6	706	177,8	1,63	5,58	1,41	126,5	0,78	2,71				
Tliq= 55/131	-5	23	313,7	1071	270,0	2,00	6,82	1,72	157,1	0,91	4,13				

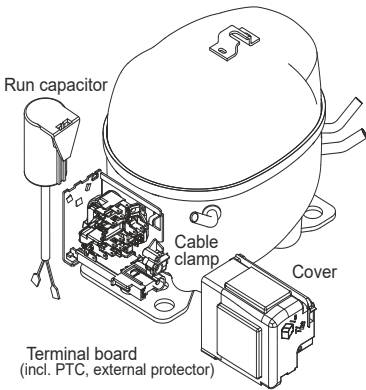
Model				
Designation	HTK95AA	220-240V/50Hz	Conf. 2	Sales code: 16068600

Configuration

Electrical accessories / wiring diagram

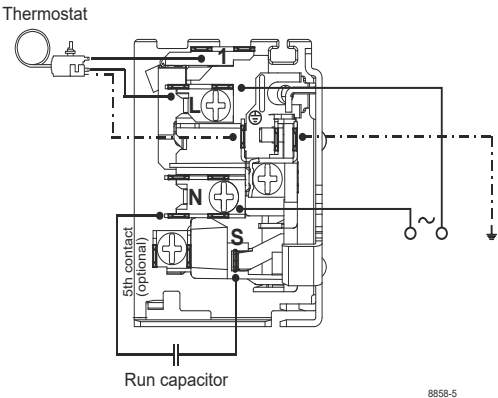
Motorconfiguration	RSCR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	187-264V
Starting torque	LST
Approvals	VDE

RSCR

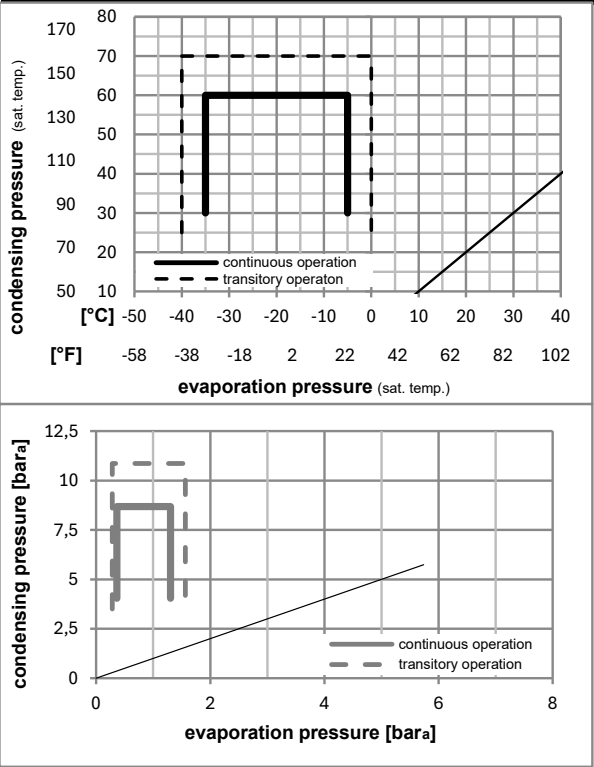


Ambient/ machine room temperatures minimum /maximum

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



Operation pressure range



Components		
.	terminal board (PTC, 4.8mm)	15164300
.	run capacitor (4µF, 4.8mm)	10693001
b	cover terminal board	10636401
.	cable clamp	11341000
.	screw - uni6954	10636000
.	screw - uni6954	10636200

Model													
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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 [W]	I [A]	m [kg/h]	
[°C]	-23	54	32	32											
[°F]	-10	130	90	90	167,0	570	143,7	1,70	5,81	1,46		98,2	0,48	1,79	ASHRAE LBP
[°C]	-25	55	32	55											
[°F]	-13	131	90	131	125,5	429	108,0	1,33	4,55	1,15		94,1	0,47	1,64	cecomaf LBP
[°C]	-35	40	20	40											
[°F]	-31	104	68	104	87,1	297	74,9	1,22	4,16	1,05		71,4	0,40	1,06	EN12900 LBP
[°C]	-23	49	4,4	49											
[°F]	-10	120	40	120	133,7	457	115,0	1,42	4,86	1,22		94,0	0,48	1,95	ARI540 LBP
[°C]	-23	41	32	32											
[°F]	-10	105	90	90	173,0	591	148,9	1,95	6,66	1,68		88,7	0,47	1,86	AHAM LBP
[°C]	-35	45	32	45											
[°F]	-31	113	90	113	83,2	284	71,6	1,16	3,98	1,00		71,5	0,39	0,99	opt

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	83,2	284	71,6	1,16	3,98	1,00	71,5	0,39	0,99
cond. pressure	-30	-22	108,8	371	93,6	1,39	4,73	1,19	78,5	0,43	1,29
pc= 45/113	-25	-13	141,6	483	121,8	1,61	5,50	1,39	87,9	0,46	1,69
return gas temp.	-23	-10	154,3	527	132,8	1,69	5,76	1,45	91,5	0,47	1,84
RGT= 32/90	-20	-4	181,6	620	156,2	1,84	6,27	1,58	98,9	0,50	2,16
liquid temp	-15	5	228,7	781	196,9	2,06	7,03	1,77	111,1	0,53	2,73
Tliq= 45/113	-5	23	344,6	1177	296,6	2,52	8,60	2,17	136,8	0,61	4,14
[°C / °F]	-35	-31	70,5	241	60,6	0,99	3,37	0,85	71,3	0,38	0,92
cond. pressure	-30	-22	94,7	323	81,5	1,16	3,96	1,00	81,7	0,42	1,23
pc= 55/131	-25	-13	125,5	429	108,0	1,33	4,55	1,15	94,1	0,47	1,64
return gas temp	-23	-10	137,5	469	118,3	1,39	4,76	1,20	98,7	0,48	1,79
RGT= 32/90	-20	-4	162,8	556	140,1	1,51	5,14	1,30	108,1	0,52	2,13
liquid temp	-15	5	206,6	706	177,8	1,68	5,73	1,44	123,1	0,56	2,71
Tliq= 55/131	-5	23	313,7	1071	270,0	2,04	6,96	1,75	154,0	0,66	4,13