

Model

Designation	HTK55AA	220-240V/50Hz 1~	Sales code:	16128200
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cSt	Displacement	5,6cm ³ / 0,34cu.in
Oil quantity	162cm ³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1500cm ³ / 50,7fl.oz		
Weight	7,8kg / 17,2lbs		
Motor protection	external		
Winding resistance main	32,7Ω (at 25°C)		
Winding resistance aux	29,2Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HTK55AA

	Conf. 1	Conf. 2
Motor configuration	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 HTK55AA

	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 HTK55AA

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

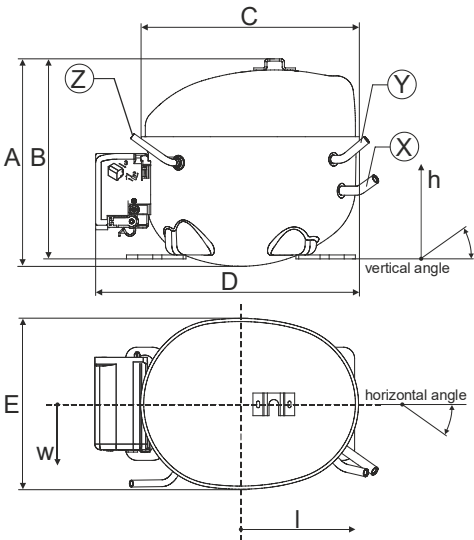
Model

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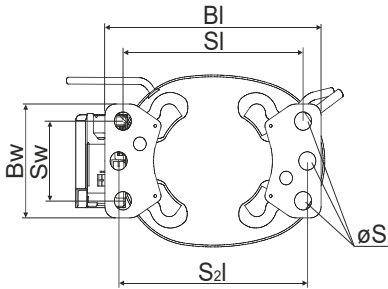
Compressor dimensions

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

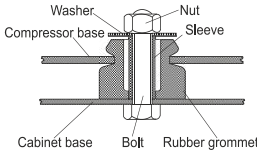


Compressor fixation

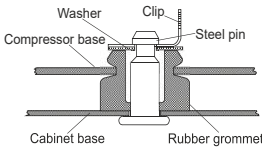


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	100	3.94
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

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

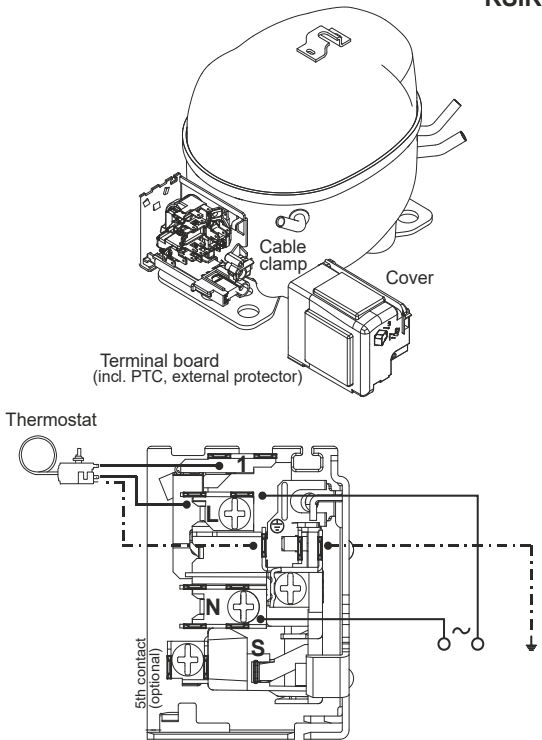
- order code
- 772N
 - 768N
 - 4ZN + 118-1917 (18)
 - 776N

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.

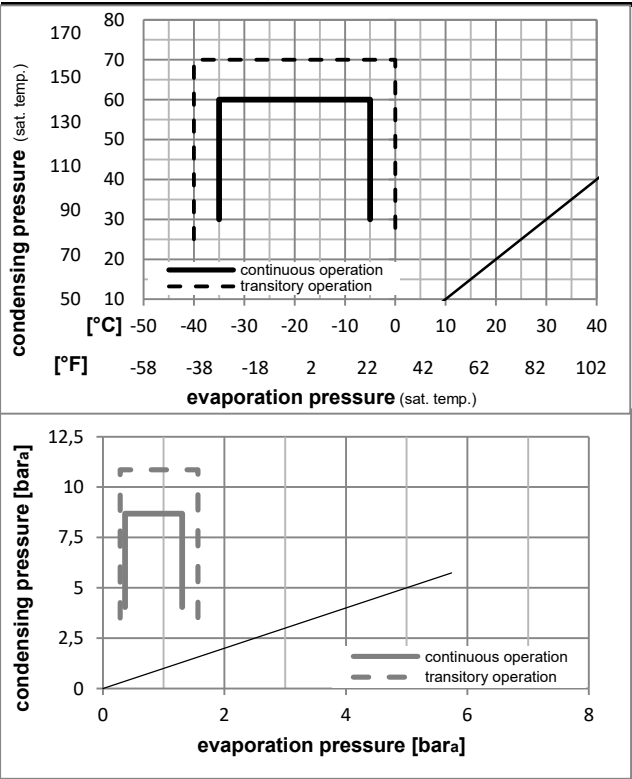
Model				
Designation	HTK55AA	220-240V/50Hz	Conf. 1	Sales code: 16128200

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)	15165700
b	cover terminal board	10636401
.	cable clamp	16058100
.	screw - uni6954	10636000
.	screw - uni6954	10636200
.	screw uni en iso 4757	10641201

Model

Designation **HTK55AA** **220-240V/50Hz** Conf. 1 Sales code: **16128200**

Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP
Return gas temp.					Current consumption						P1	I	Ref. mass flow ṁ	
Liquid temp.					Cooling capacity									
COP					EER									
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23	54	32	32	93,0	318	80,0	1,55	5,29	1,33	60,0	0,40	1,00	
[°F]	-10	130	90	90										

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP
Return gas temp.					Current consumption						P1	I	Ref. mass flow ṁ	
Liquid temp.					Cooling capacity									
COP					EER									
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-25	55	32	55	68,7	235	59,1	1,20	4,09	1,03	57,3	0,39	0,90	
[°F]	-13	131	90	131										

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP
Return gas temp.					Current consumption						P1	I	Ref. mass flow ṁ	
Liquid temp.					Cooling capacity									
COP					EER									
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-35	40	20	40	41,0	140	35,3	1,02	3,50	0,88	40,0	0,33	0,50	
[°F]	-31	104	68	104										

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP
Return gas temp.					Current consumption						P1	I	Ref. mass flow ṁ	
Liquid temp.					Cooling capacity									
COP					EER									
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23	49	4,4	49	76,7	262	66,0	1,31	4,48	1,13	58,5	0,39	1,12	
[°F]	-10	120	40	120										

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP
Return gas temp.					Current consumption						P1	I	Ref. mass flow ṁ	
Liquid temp.					Cooling capacity									
COP					EER									
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23	41	32	32	103,0	352	88,7	1,82	6,23	1,57	56,5	0,38	1,11	
[°F]	-10	105	90	90										

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP
Return gas temp.					Current consumption						P1	I	Ref. mass flow ṁ	
Liquid temp.					Cooling capacity									
COP					EER									
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-35	45	32	45	38,8	133	33,4	0,97	3,30	0,83	40,2	0,32	0,46	
[°F]	-31	113	90	113										

Performance tables

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

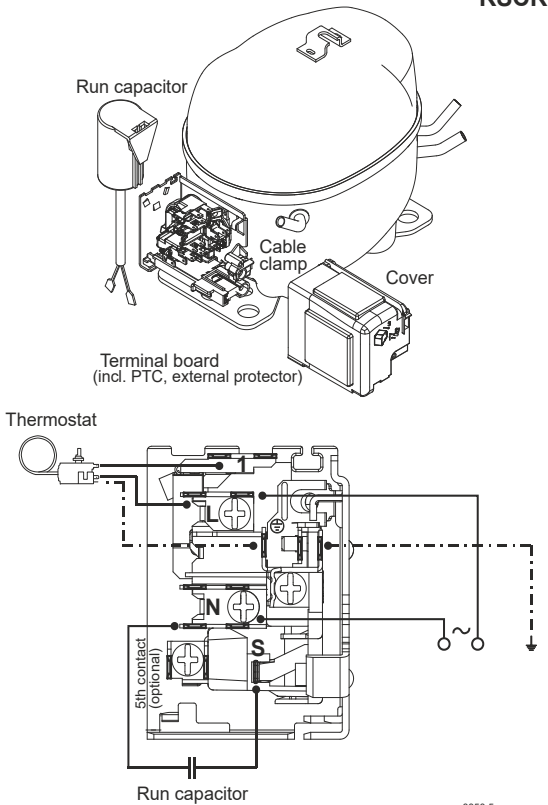
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	38,8	133	33,4	0,97	3,30	0,83	40,2	0,32	0,46
cond. pressure	-30	-22	58,9	201	50,7	1,23	4,19	1,06	48,0	0,35	0,70
pc= 45/113	-25	-13	81,9	280	70,5	1,48	5,06	1,27	55,3	0,38	0,97
return gas temp.	-23	-10	90,4	309	77,8	1,57	5,35	1,35	57,7	0,39	1,08
RGT= 32/90	-20	-4	107,9	369	92,9	1,73	5,92	1,49	62,3	0,41	1,29
liquid temp	-15	5	137,2	468	118,1	1,99	6,78	1,71	69,1	0,44	1,64
Tliq= 45/113	-5	23	205,9	703	177,2	2,50	8,53	2,15	82,4	0,50	2,47
[°C / °F]	-35	-31	31,7	108	27,2	0,80	2,73	0,69	39,7	0,31	0,41
cond. pressure	-30	-22	48,5	166	41,8	1,00	3,42	0,86	48,5	0,35	0,63
pc= 55/131	-25	-13	68,7	235	59,1	1,20	4,09	1,03	57,3	0,39	0,90
return gas temp	-23	-10	76,3	261	65,7	1,27	4,32	1,09	60,3	0,40	1,00
RGT= 32/90	-20	-4	92,3	315	79,4	1,40	4,77	1,20	66,1	0,42	1,21
liquid temp	-15	5	119,5	408	102,8	1,59	5,44	1,37	75,0	0,46	1,56
Tliq= 55/131	-5	23	185,1	632	159,3	1,98	6,76	1,70	93,5	0,54	2,44

Model					
Designation	HTK55AA	220-240V/50Hz	Conf. 2	Sales code:	16128200

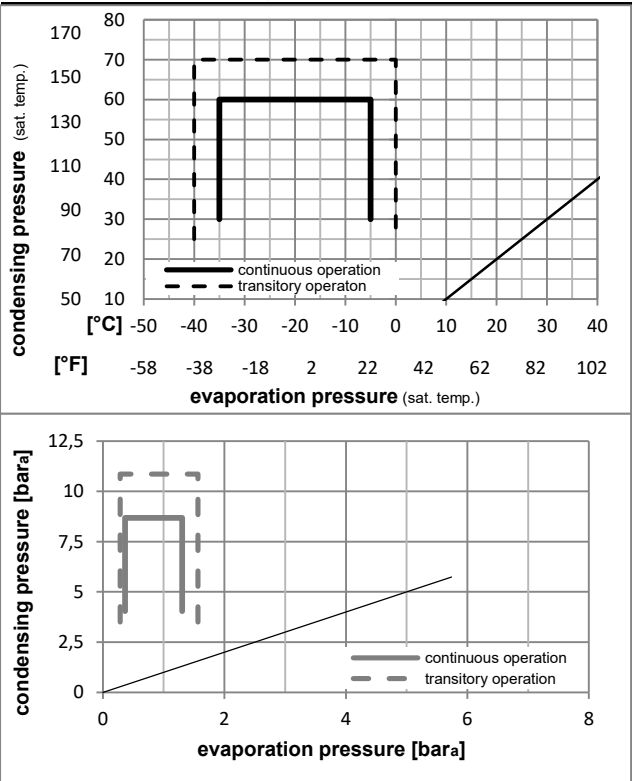
Configuration	Electrical accessories / wiring diagram				
Motor configuration	RSCR	RSCR			
Power supply (nominal)	220-240V/50Hz 1~				
Refrigerant	R600a				
Application	LBP				
Voltage range	187-264V				
Starting torque	LST				
Approvals	VDE				

Ambient/ machine room temperatures minimum /maximum

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



Operation pressure range



Components	
terminal board (PTC, 4.8mm)	15165700
run capacitor (2,5 μF , 4.8mm)	10692802
b cover terminal board	10636401
cable clamp	16058100
screw - uni6954	10636000
screw - uni6954	10636200

Alternative components	
screw uni en iso 4757	10641201

Model

Designation **HTK55AA** **220-240V/50Hz** Conf. 2 Sales code: **16128200**

Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
					Return gas temp.						Current consumption			
					Liquid temp.						Ref. mass flow			
					Cooling capacity									
					COP						EER			
					P1						I			
					m									
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23	54	32	32										
[°F]	-10	130	90	90	93,0	318	80,0	1,61	5,49	1,38	57,8	0,29	1,00	ASHRAE LBP
[°C]	-25	55	32	55										
[°F]	-13	131	90	131	68,7	235	59,1	1,25	4,25	1,07	55,2	0,28	0,90	cecomaf LBP
[°C]	-35	40	20	40										
[°F]	-31	104	68	104	41,0	140	35,3	1,08	3,68	0,93	38,0	0,24	0,50	EN12900 LBP
[°C]	-23	49	4,4	49										
[°F]	-10	120	40	120	76,7	262	66,0	1,36	4,63	1,17	56,6	0,29	1,12	ARI540 LBP
[°C]	-23	41	32	32										
[°F]	-10	105	90	90	103,0	352	88,7	1,88	6,42	1,62	54,8	0,28	1,11	AHAM LBP
[°C]	-35	45	32	45										
[°F]	-31	113	90	113	38,8	133	33,4	1,01	3,47	0,87	38,3	0,24	0,46	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	38,8	133	33,4	1,01	3,47	0,87	38,3	0,24	0,46
cond. pressure	-30	-22	58,9	201	50,7	1,28	4,36	1,10	46,1	0,26	0,70
pc= 45/113	-25	-13	81,9	280	70,5	1,53	5,23	1,32	53,5	0,28	0,97
return gas temp.	-23	-10	90,4	309	77,8	1,62	5,52	1,39	55,9	0,28	1,08
RGT= 32/90	-20	-4	107,9	369	92,9	1,79	6,10	1,54	60,5	0,30	1,29
liquid temp	-15	5	137,2	468	118,1	2,04	6,97	1,76	67,2	0,32	1,64
Tliq= 45/113	-5	23	205,9	703	177,2	2,55	8,70	2,19	80,8	0,37	2,47
[°C / °F]	-35	-31	31,7	108	27,2	0,84	2,85	0,72	37,9	0,23	0,41
cond. pressure	-30	-22	48,5	166	41,8	1,04	3,56	0,90	46,6	0,25	0,63
pc= 55/131	-25	-13	68,7	235	59,1	1,25	4,25	1,07	55,2	0,28	0,90
return gas temp	-23	-10	76,3	261	65,7	1,31	4,49	1,13	58,1	0,29	1,00
RGT= 32/90	-20	-4	92,3	315	79,4	1,45	4,95	1,25	63,7	0,31	1,21
liquid temp	-15	5	119,5	408	102,8	1,65	5,64	1,42	72,4	0,34	1,56
Tliq= 55/131	-5	23	185,1	632	159,3	2,04	6,96	1,75	90,9	0,39	2,44