

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

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.	1500cm³ / 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
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 HTK55AA

	Conf. 1	Conf. 2
Refrigerant	R600a	R600a
Application	LBP	LBP
System cooling	static	static
Hot gas defrost	-/-	-/-
Long interval pull down	-/-	-/-

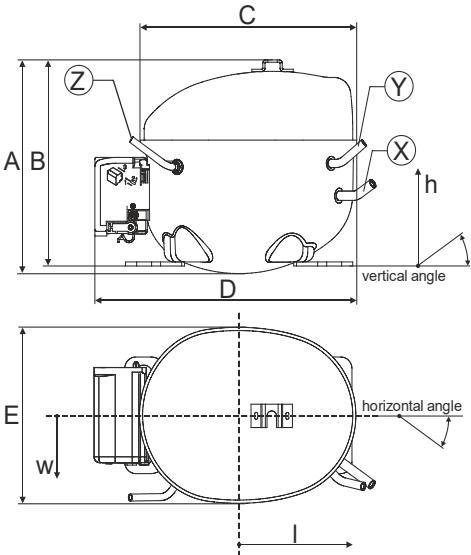
Electrical data - Configurations with HTK55AA

	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))		

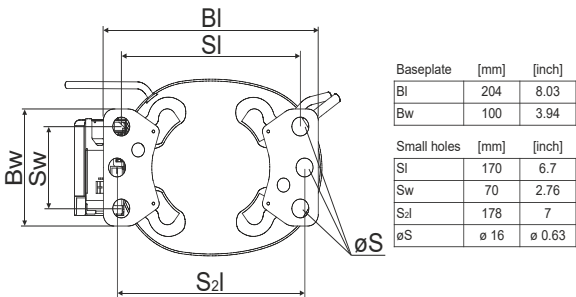
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Compressor dimensions

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	Discharge	Process
	X	Y	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



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

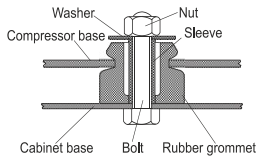
Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

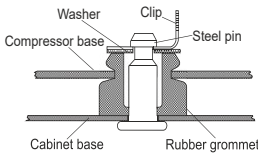
Housing with dip-tray fixture (omega bracket).

Various options of connectors are possible - please contact SECOP-Sales.

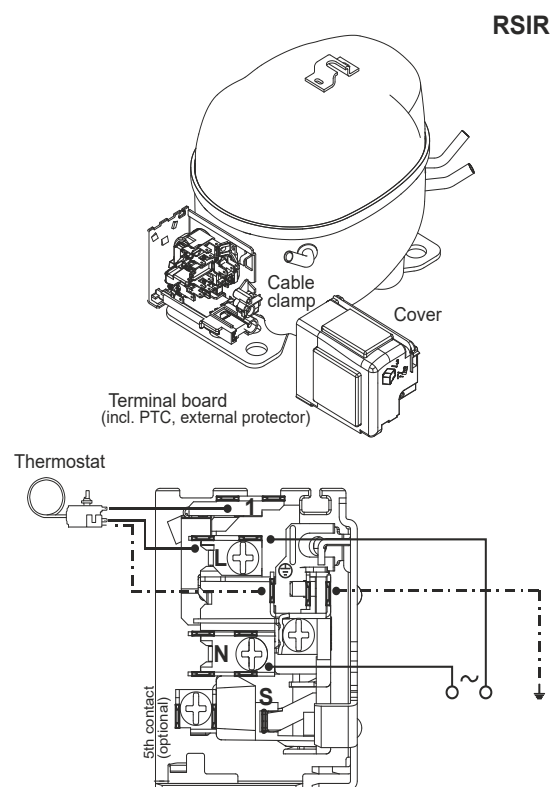
Bolt joint



Snap-on



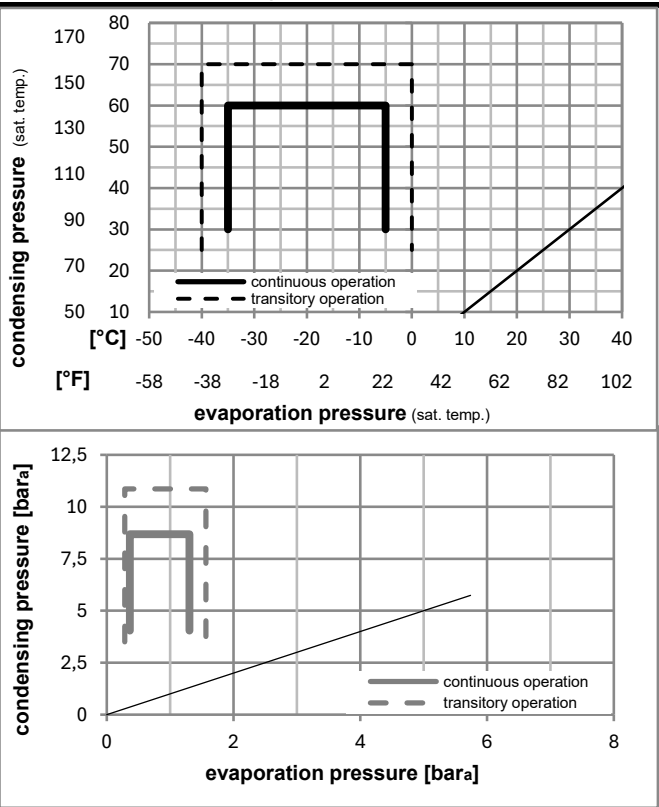
Model				
Designation	HTK55AA	220-240V/50Hz	Conf. 1	Sales code: 16128200

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



Components		
.	terminal board (PTC, 4.8mm)	15165700
b	cover terminal board	10636401
.	cable clamp	11341000
.	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) 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	93,0	318	80,0	1,55	5,29	1,33	60,0	0,40	1,00	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	68,7	235	59,1	1,20	4,09	1,03	57,3	0,39	0,90	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	41,0	140	35,3	1,02	3,50	0,88	40,0	0,33	0,50	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	76,7	262	66,0	1,31	4,48	1,13	58,5	0,39	1,12	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	103,0	352	88,7	1,82	6,23	1,57	56,5	0,38	1,11	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	38,8	133	33,4	0,97	3,30	0,83	40,2	0,32	0,46	opt
[°F]	-31	113	90	113										

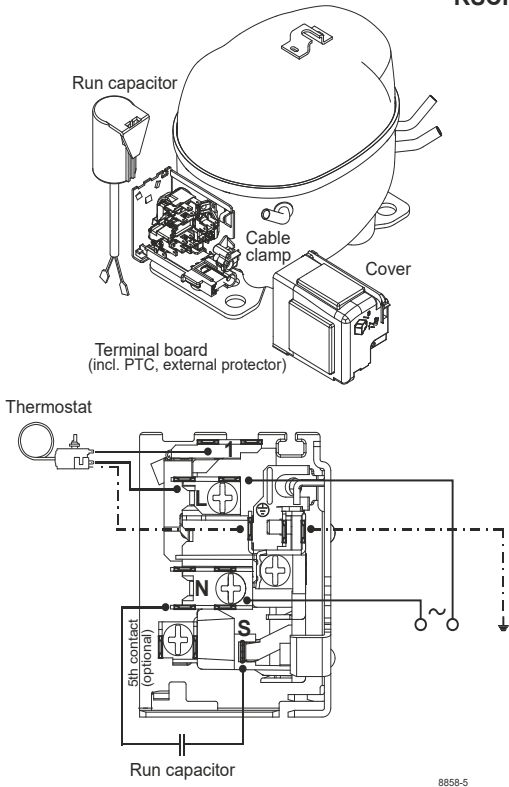
Performance tables

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

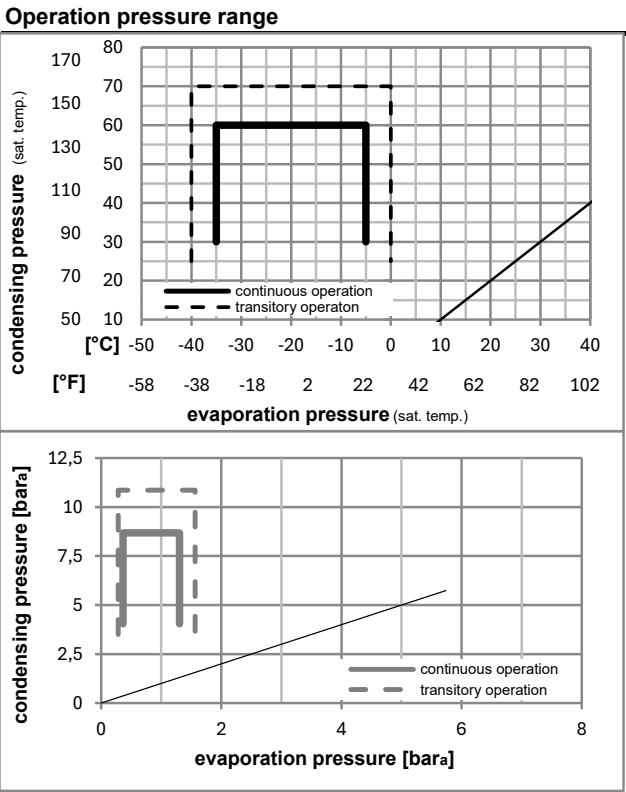
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	38,8	133	33,4	0,97	3,30	0,83	40,2	0,32	0,46
cond. pressure	-30	-22	58,9	201	50,7	1,23	4,19	1,06	48,0	0,35	0,70
pc= 45/113	-25	-13	81,9	280	70,5	1,48	5,06	1,27	55,3	0,38	0,97
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	
Motorconfiguration	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
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Components		
. terminal board (PTC, 4.8mm)	15165700	
. run capacitor (2,5μF, 4.8mm)	10692802	
b cover terminal board	10636401	
. cable clamp	11341000	
. screw - uni6954	10636000	
. screw - uni6954	10636200	
Alternative components		
. screw uni en iso 4757	10641201	

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	I	m	
[°C]	-23	54	32	32	93,0	318	80,0	1,61	5,49	1,38	57,8	0,29	1,00	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	68,7	235	59,1	1,25	4,25	1,07	55,2	0,28	0,90	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	41,0	140	35,3	1,08	3,68	0,93	38,0	0,24	0,50	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	76,7	262	66,0	1,36	4,63	1,17	56,6	0,29	1,12	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	103,0	352	88,7	1,88	6,42	1,62	54,8	0,28	1,11	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	38,8	133	33,4	1,01	3,47	0,87	38,3	0,24	0,46	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	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