

Model			
Designation	HTK80AA	220-240V/50Hz 1~	Sales code: 16128600

Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	Displacement	8,1cm³ / 0,49cu.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	25,8Ω (at 25°C)		
Winding resistance aux	16,3Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HTK80AA

	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 HTK80AA

	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 HTK80AA

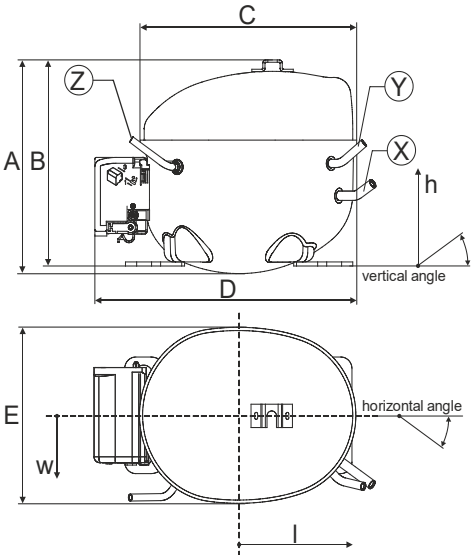
	Conf. 1	Conf. 2
Starting device type	PTC	PTC
Run capacitor	-/-	3µF
Start capacitor	-/-	-/-
LRA (locked rotor amps / 4s/ U(N))		
RLA (rated load amps / 1s/ U(N))	-/-A	-/-A
Cut in current (U(N))		

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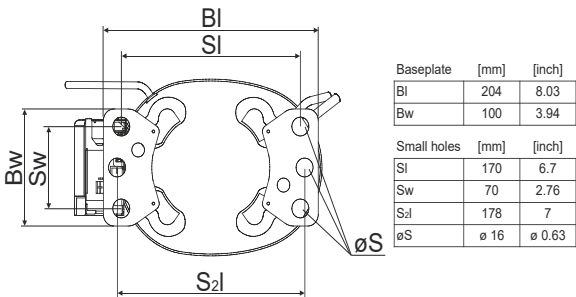
Compressor dimensions

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 6,16-6,24	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

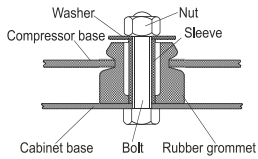
Application notes

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

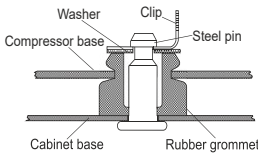
Housing with dip-tray fixture (omega bracket).

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

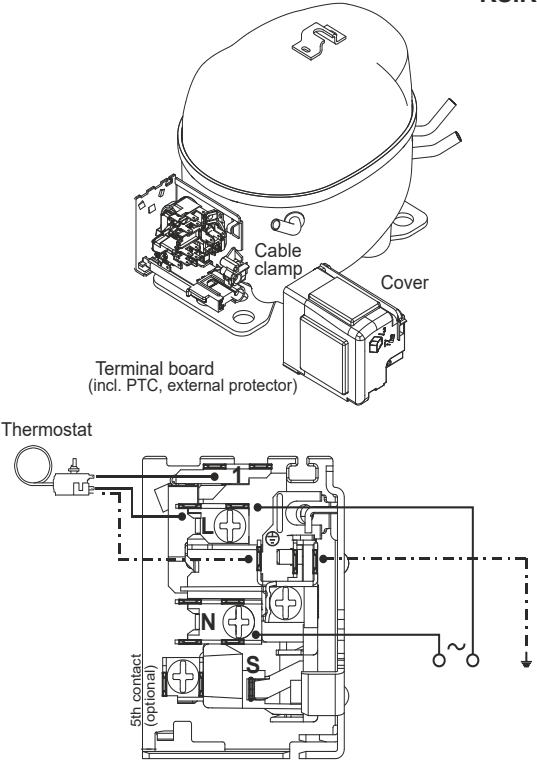
Bolt joint



Snap-on



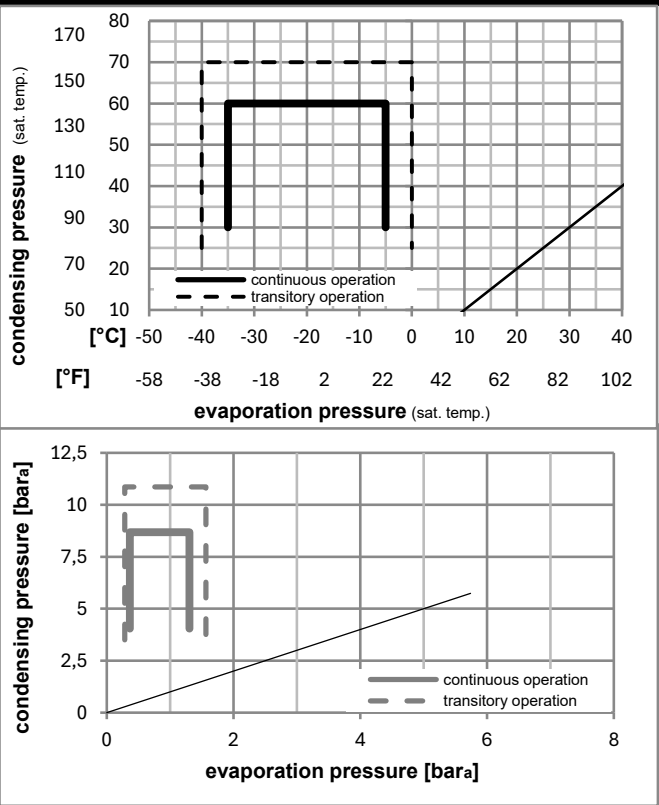
Model				
Designation	HTK80AA	220-240V/50Hz	Conf. 1	Sales code: 16128600

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)	15164300	
b cover terminal board	10636401	
. cable clamp	11341000	
. screw - uni6954	10636000	
. screw - uni6954	10636200	
. screw uni en iso 4757	10641201	

Alternative components		
. terminal board (PTC, 6.3mm)	15162300	

Model											
Designation	HTK80AA	220-240V/50Hz	Conf. 1	Sales code:	16128600						

Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption																			
Return gas temp.					Current consumption						Ref. mass flow																			
Liquid temp.					Cooling capacity						COP				EER				P1				I				ṁ			
pe		pc		RGT		Tliq		[W]		[Btu/h]		[kcal/h]		[W/W]		[Btu/Wh]		[kcal/Wh]		[W]		[A]		[kg/h]						
[°C]	-23	54	32	32																									ASHRAE LBP	
[°F]	-10	130	90	90					136,1	465	117,2	1,61	5,50	1,39	84,5	0,53	1,46													
[°C]	-25	55	32	55																									cecomaf LBP	
[°F]	-13	131	90	131					101,8	348	87,6	1,25	4,28	1,08	81,2	0,51	1,33													
[°C]	-35	40	20	40																									EN12900 LBP	
[°F]	-31	104	68	104					64,7	221	55,7	1,06	3,64	0,92	60,8	0,42	0,79													
[°C]	-23	49	4,4	49																									ARI540 LBP	
[°F]	-10	120	40	120					110,4	377	95,0	1,36	4,66	1,17	80,9	0,52	1,61													
[°C]	-23	41	32	32																									AHAM LBP	
[°F]	-10	105	90	90					145,1	496	124,9	1,92	6,56	1,65	75,5	0,49	1,56													
[°C]	-35	45	32	45																									opt	
[°F]	-31	113	90	113					62,9	215	54,1	1,03	3,51	0,88	61,3	0,42	0,75													

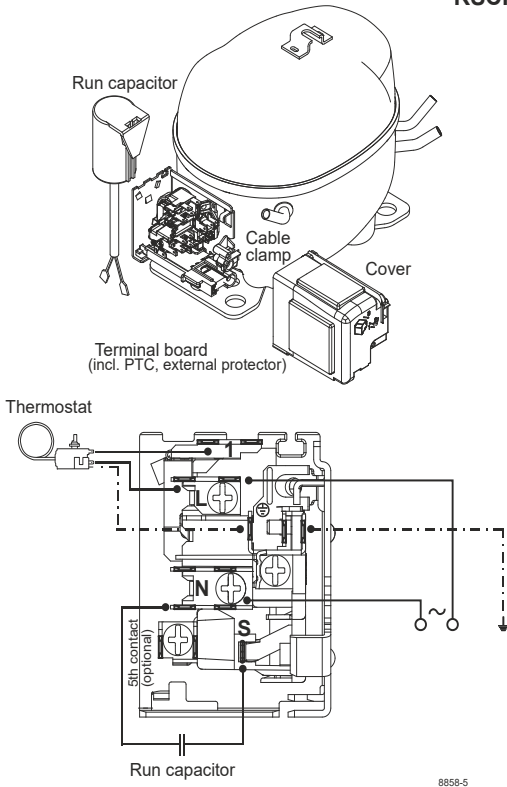
Performance tables

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	62,9	215	54,1	1,03	3,51	0,88	61,3	0,42	0,75
cond. pressure	-30	-22	87,5	299	75,3	1,28	4,39	1,11	68,1	0,46	1,04
pc= 45/113	-25	-13	117,3	400	100,9	1,55	5,29	1,33	75,7	0,49	1,40
return gas temp.	-23	-10	128,6	439	110,6	1,64	5,60	1,41	78,4	0,51	1,53
RGT= 32/90	-20	-4	152,1	520	130,9	1,82	6,21	1,56	83,7	0,53	1,81
liquid temp	-15	5	192,1	656	165,3	2,09	7,13	1,80	92,0	0,56	2,30
Tliq= 45/113	-5	23	287,1	981	247,1	2,64	9,02	2,27	108,7	0,64	3,45
[°C / °F]	-35	-31	54,9	188	47,3	0,90	3,07	0,77	61,1	0,39	0,71
cond. pressure	-30	-22	75,7	258	65,1	1,07	3,65	0,92	70,8	0,46	0,99
pc= 55/131	-25	-13	101,8	348	87,6	1,25	4,28	1,08	81,2	0,51	1,33
return gas temp	-23	-10	111,9	382	96,3	1,32	4,50	1,13	84,9	0,53	1,46
RGT= 32/90	-20	-4	133,3	455	114,7	1,44	4,93	1,24	92,2	0,56	1,74
liquid temp	-15	5	170,0	581	146,3	1,64	5,61	1,41	103,6	0,61	2,23
Tliq= 55/131	-5	23	259,4	886	223,2	2,05	7,00	1,76	126,6	0,70	3,41

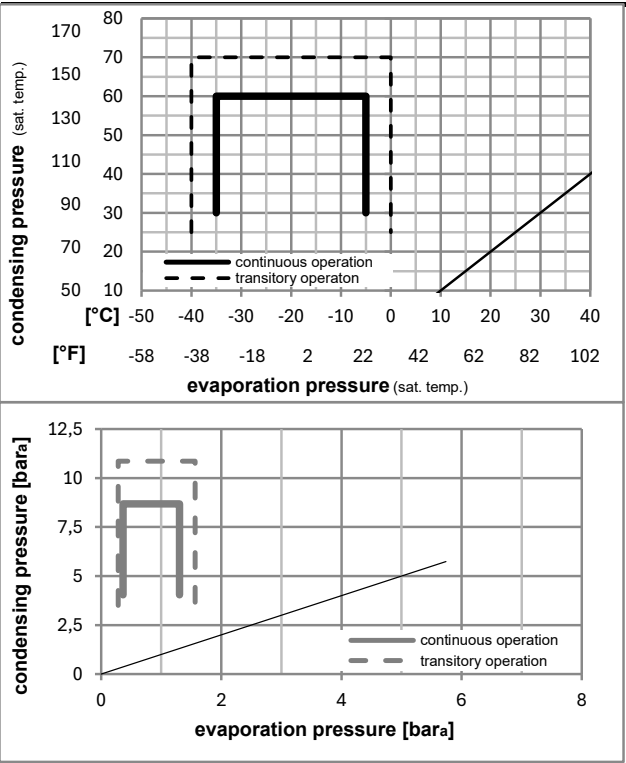
Model				
Designation	HTK80AA	220-240V/50Hz	Conf. 2	Sales code: 16128600

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

Operation pressure range



Components		
.	terminal board (PTC, 4.8mm)	15164300
.	run capacitor (3μF, 4.8mm)	10692902
b	cover terminal board	10636401
.	cable clamp	11341000
.	screw - uni6954	10636000
.	screw - uni6954	10636200
Alternative components		
.	screw uni en iso 4757	10641201

Model													
Designation	HTK80AA	220-240V/50Hz	Conf. 2	Sales code:	16128600								

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	136,1	465	117,2	1,66	5,66	1,43	82,1	0,39	1,46	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	101,8	348	87,6	1,29	4,41	1,11	78,9	0,38	1,33	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	64,7	221	55,7	1,09	3,73	0,94	59,2	0,32	0,79	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	110,4	377	95,0	1,40	4,79	1,21	78,6	0,39	1,61	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	145,1	496	124,9	1,97	6,72	1,69	73,7	0,38	1,56	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	62,9	215	54,1	1,06	3,61	0,91	59,5	0,32	0,75	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	62,9	215	54,1	1,06	3,61	0,91	59,5	0,32	0,75
cond. pressure	-30	-22	87,5	299	75,3	1,32	4,51	1,14	66,3	0,35	1,04
pc= 45/113	-25	-13	117,3	400	100,9	1,59	5,43	1,37	73,7	0,37	1,40
return gas temp.	-23	-10	128,6	439	110,6	1,68	5,75	1,45	76,3	0,38	1,53
RGT= 32/90	-20	-4	152,1	520	130,9	1,87	6,37	1,61	81,5	0,40	1,81
liquid temp	-15	5	192,1	656	165,3	2,14	7,32	1,84	89,7	0,43	2,30
Tliq= 45/113	-5	23	287,1	981	247,1	2,70	9,22	2,32	106,4	0,50	3,45
[°C / °F]	-35	-31	54,9	188	47,3	0,93	3,18	0,80	59,1	0,31	0,71
cond. pressure	-30	-22	75,7	258	65,1	1,10	3,76	0,95	68,7	0,34	0,99
pc= 55/131	-25	-13	101,8	348	87,6	1,29	4,41	1,11	78,9	0,38	1,33
return gas temp	-23	-10	111,9	382	96,3	1,36	4,63	1,17	82,5	0,39	1,46
RGT= 32/90	-20	-4	133,3	455	114,7	1,49	5,08	1,28	89,6	0,41	1,74
liquid temp	-15	5	170,0	581	146,3	1,69	5,76	1,45	100,8	0,45	2,23
Tliq= 55/131	-5	23	259,4	886	223,2	2,10	7,16	1,80	123,7	0,53	3,41