

Model
HTK80AA

Sales code:
16128600

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	7.90 kg / 17.42lbs
Displacement	8.10 cm3 / 0.49cu.in
Compressors on pallet	100



General – Configurations With HTK80AA

-	Conf. 1	Conf. 2
Motor configuration	RSIR	RSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	187-264 V	187-264 V
Approvals	VDE	VDE
Starting torque	LST	LST
Refrigerant	R600a	R600a
Application	LBP	LBP

Application Notes

- Various options of connectors are possible - please contact SECOP-Sales.
- 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
HTK80AA

Sales code:
16128600

Compressor Design

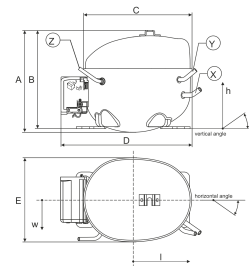
Oil type	Mineral	Winding resistance main	26.400 Ohm
Oil viscosity	5cSt	Winding resistance aux	16.70 Ohm
Oil quantity	162 / 5.48fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,500 cm ³ / 50.72fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

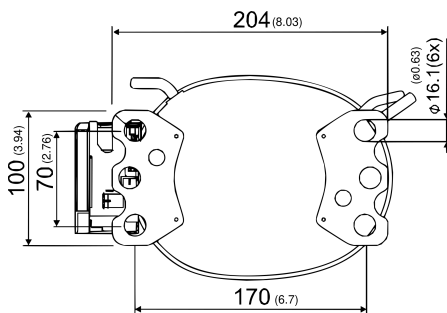
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



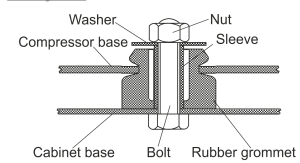
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.16–6.24 / 0.24–0.25in	øi #N/A–#N/A	øi 6.11–6.29 / 0.24–0.25in
Material	CU	#N/A	CU
Horizontal angle ±2°	54°	35°	45°
Vertical angle ±2°	35°	40°	35°
Position l/h/w [mm]	120/92/56.7 / 4.72/3.62/2.23in	112/105.5/81 / 4.41/4.15/3.19in	-86/94.3/72 / -3.39/3.71/2.83in
Straight tube l. [mm]	13.5 / 0.53in	#N/A	13.5 / 0.53in

Mounting Accessories

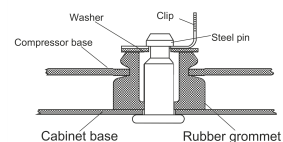


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
'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

Model
HTK80AA

Configuration 1

Sales code:
16128600

Configuration

Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	187-264 V
Starting torque	LST
Approvals	VDE
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

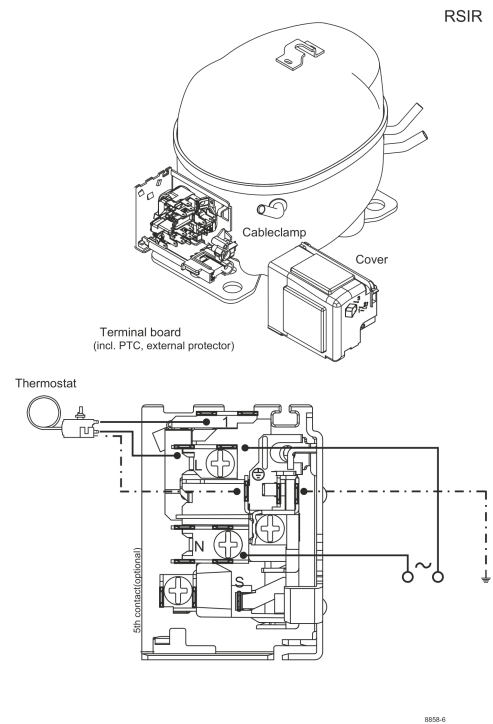
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



[View full size](#)

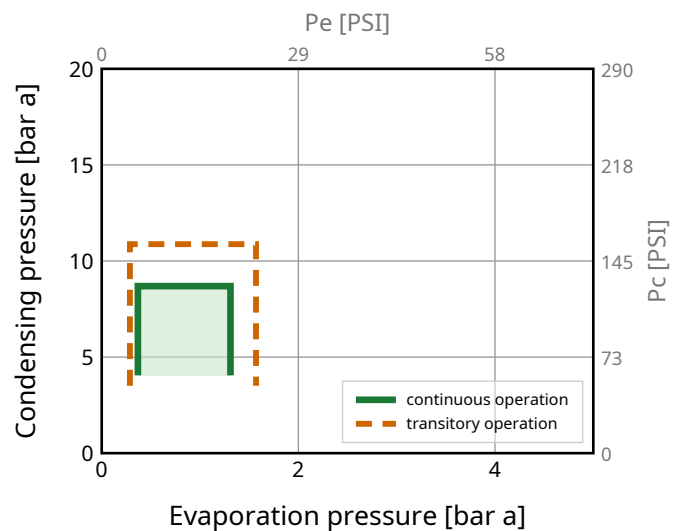
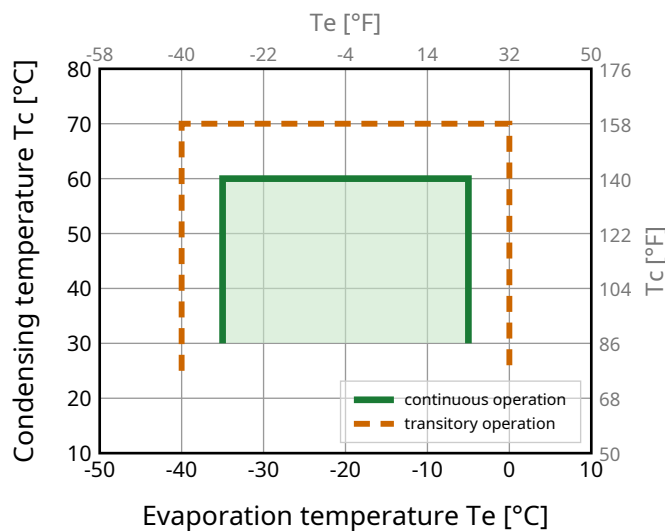
Components

- . terminal board (PTC, 4.8mm) 15164300
- b** cover terminal board 10636401
- . cable clamp 16058100
- . screw - uni6954 10636000
- . screw - uni6954 10636200
- . screw uni en iso 4757 10641201

Alternative components

- . terminal board (PTC, 6.3mm) 15162300

Operation Pressure Range



Model
HTK80AA

Configuration 1

Sales code:
16128600

Standard Conditions

R600a, 220 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	136	464	117	1.61	5.49	85	0.53	1.46	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	102	347	88	1.25	4.28	81	0.51	1.33	CECOMAF LBP
-35 -31	40 104	20 68	40 104	65	221	56	1.06	3.63	61	0.42	0.79	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	111	378	95	1.37	4.67	81	0.52	1.62	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	145	496	125	1.92	6.56	76	0.49	1.56	AHAM LBP
-25 -13	45 113	32 89.6	45 113	117	400	101	1.55	5.29	76	0.49	1.40	opt LBP

Performance Tables

R600a, 220 V/50 Hz, RSIR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	63	215	54	1.03	3.50	61	0.42	0.75
-30	-22	88	299	75	1.28	4.38	68	0.46	1.04
-25	-13	117	400	101	1.55	5.29	76	0.49	1.40
-20	-4	152	519	131	1.82	6.20	84	0.53	1.81
-15	5	192	655	165	2.09	7.12	92	0.56	2.29
-10	14	237	809	204	2.36	8.06	100	0.60	2.84
-5	23	287	980	247	2.64	9.01	109	0.64	3.45

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	55	187	47	0.90	3.07	61	0.40	0.71
-30	-22	76	258	65	1.07	3.65	71	0.46	0.98
-25	-13	102	347	88	1.25	4.28	81	0.51	1.33
-20	-4	133	455	115	1.45	4.93	92	0.56	1.74
-15	5	170	580	146	1.64	5.60	104	0.61	2.23
-10	14	212	724	182	1.84	6.29	115	0.65	2.78
-5	23	259	885	223	2.05	6.99	127	0.70	3.41

Model
HTK80AA

Configuration 2

Sales code:
16128600

Configuration

Motor configuration	RSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	187-264 V
Starting torque	LST
Approvals	VDE
Starting device type	PTC
Run capacitor	3 μF
Start capacitor	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

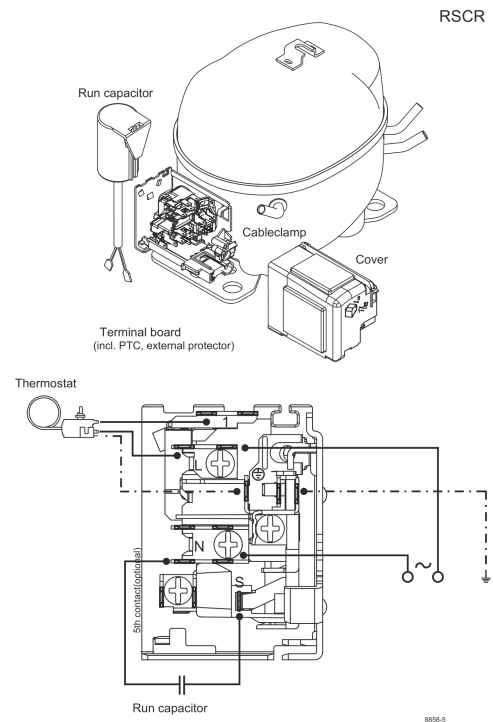
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



[View full size](#)

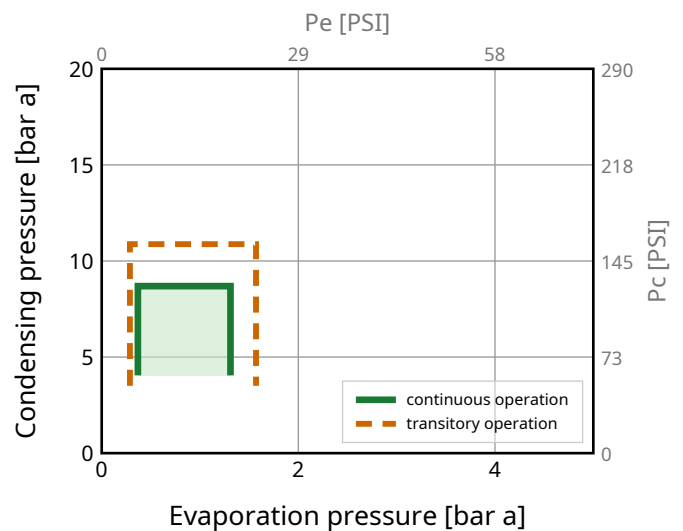
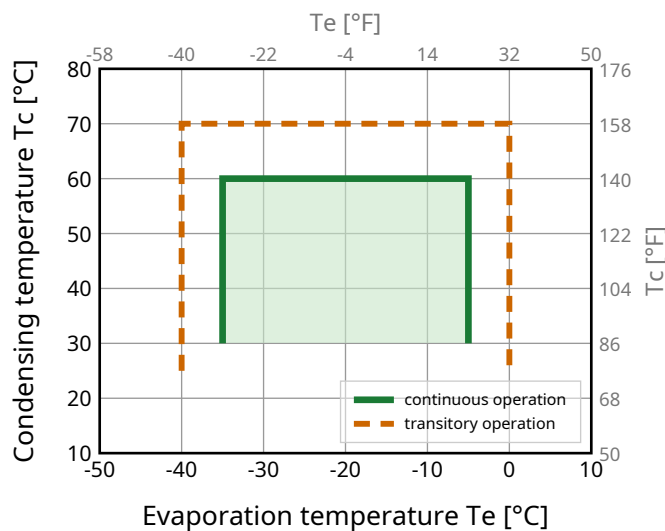
Components

- . terminal board (PTC, 4.8mm) 15164300
- . run capacitor (3 μ F, 4.8mm) 10692902
- b** cover terminal board 10636401
- . cable clamp 16058100
- . screw - uni6954 10636000
- . screw - uni6954 10636200

Alternative components

- . screw uni en iso 4757 10641201

Operation Pressure Range



Model
HTK80AA

Configuration 2

Sales code:
16128600

Standard Conditions

R600a, 220 V/50 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	136	464	117	1.66	5.65	82	0.39	1.46	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	102	347	88	1.29	4.40	79	0.38	1.33	CECOMAF LBP
-35 -31	40 104	20 68	40 104	65	221	56	1.09	3.73	59	0.33	0.79	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	111	378	95	1.41	4.80	79	0.39	1.62	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	145	496	125	1.97	6.71	74	0.38	1.56	AHAM LBP
-25 -13	45 113	32 89.6	45 113	117	400	101	1.59	5.43	74	0.37	1.40	opt LBP

Performance Tables

R600a, 220 V/50 Hz, RSCR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	63	215	54	1.06	3.61	60	0.32	0.75
-30	-22	88	299	75	1.32	4.50	66	0.34	1.04
-25	-13	117	400	101	1.59	5.43	74	0.37	1.40
-20	-4	152	519	131	1.87	6.37	82	0.40	1.81
-15	5	192	655	165	2.14	7.31	90	0.43	2.29
-10	14	237	809	204	2.42	8.26	98	0.47	2.84
-5	23	287	980	247	2.70	9.21	106	0.50	3.45

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	55	187	47	0.93	3.17	59	0.31	0.71
-30	-22	76	258	65	1.10	3.76	69	0.34	0.98
-25	-13	102	347	88	1.29	4.40	79	0.38	1.33
-20	-4	133	455	115	1.49	5.07	90	0.41	1.74
-15	5	170	580	146	1.69	5.76	101	0.45	2.23
-10	14	212	724	182	1.89	6.45	112	0.49	2.78
-5	23	259	885	223	2.10	7.15	124	0.53	3.41