

Model
HTK12AA

Sales code:
16111600

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	8.50 kg / 18.74lbs
Displacement	11.20 cm3 / 0.68cu.in
Compressors on pallet	100



General – Configurations With HTK12AA

-	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.

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Compressor Design

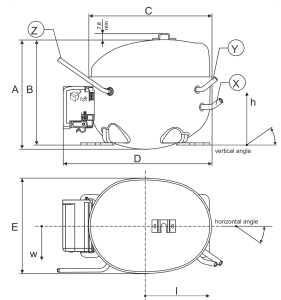
Oil type	Mineral	Winding resistance main	14.700 Ohm
Oil viscosity	5cSt	Winding resistance aux	13.70 Ohm
Oil quantity	162 / 5.48fl.oz	Max. winding temp.	130 °C
Free gas volume comp.	1,660 cm ³ / 56.13fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

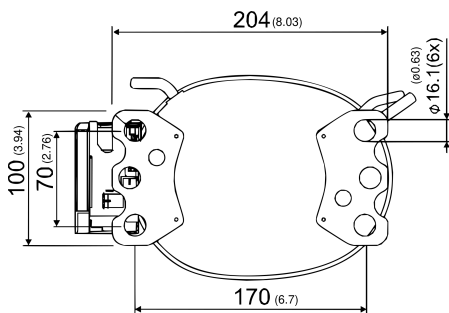
A Height	174mm / 6.85in
B Height	167mm / 6.57in
C Length shell	194mm / 7.64in
D Length w. cover	238mm / 9.37in
E Width	151mm / 5.94in

[Find 3D Model here](#)



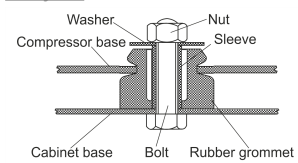
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.1–6.2 / 0.24–0.24in	øi #N/A–#N/A	øi 5.92–6.08 / 0.23–0.24in
Material	CU	#N/A	CU
Horizontal angle ±2°	45°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	120/71.5/62 / 4.72/2.81/2.44in	112/105.5/62 / 4.41/4.15/2.44in	-140/136/70 / -5.51/5.35/2.76in
Straight tube l. [mm]	13.5 / 0.53in	#N/A	75 / 2.95in

Mounting Accessories

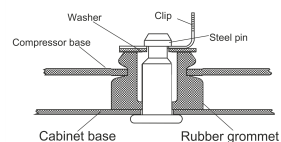


Dimensions in mm [in]

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

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Configuration 1

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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

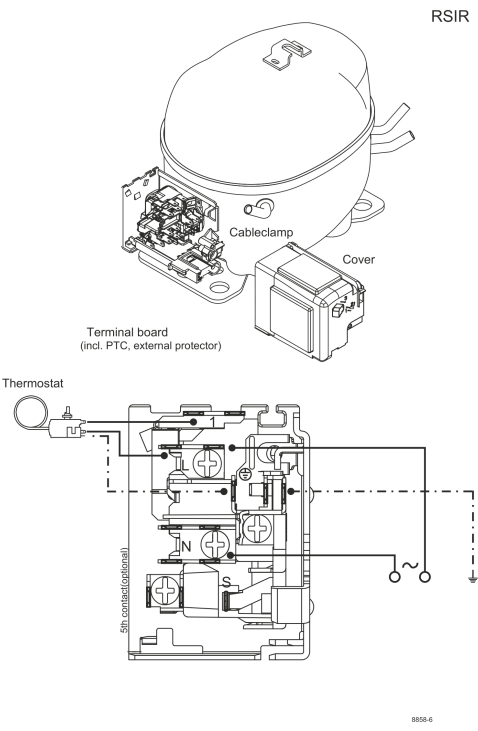
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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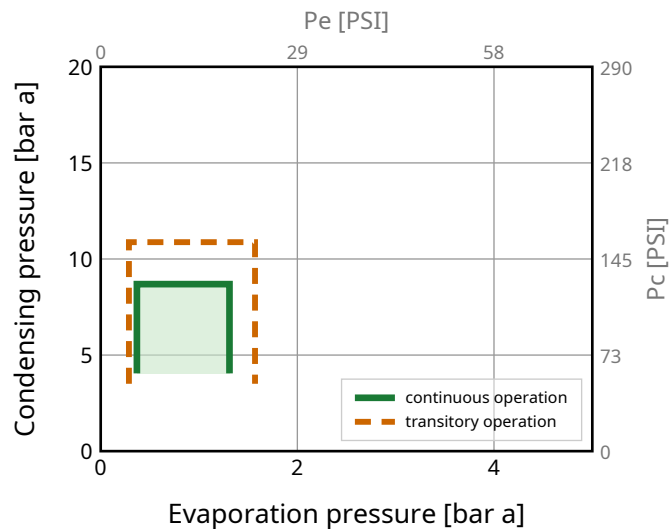
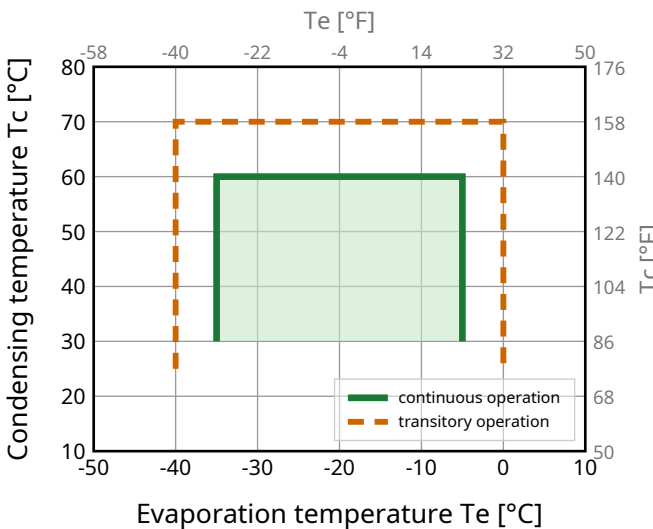
Components

- . terminal board (PTC, 4.8mm) 15164000
- 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) 15162500

Operation Pressure Range



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Configuration 1

Sales code:
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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	198	675	170	1.63	5.57	121	0.87	2.12	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	149	508	128	1.28	4.38	116	0.84	1.94	CECOMAF LBP
-35 -31	40 104	20 68	40 104	96	328	83	1.15	3.93	83	0.72	1.17	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	160	545	137	1.35	4.60	118	0.86	2.33	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	207	708	178	1.81	6.16	115	0.84	2.23	AHAM LBP
-25 -13	45 113	32 89.6	45 113	169	578	146	1.51	5.16	112	0.83	2.02	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	93	318	80	1.11	3.79	84	0.71	1.11
-30	-22	129	439	111	1.31	4.47	98	0.77	1.53
-25	-13	169	578	146	1.51	5.16	112	0.83	2.02
-20	-4	216	735	185	1.71	5.83	126	0.89	2.57
-15	5	267	911	230	1.91	6.52	140	0.96	3.19
-10	14	324	1104	278	2.11	7.20	153	1.03	3.88
-5	23	386	1316	332	2.31	7.89	167	1.10	4.63

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

-35	-31	82	278	70	0.96	3.28	85	0.69	1.06
-30	-22	112	384	97	1.12	3.83	100	0.77	1.47
-25	-13	149	508	128	1.28	4.38	116	0.84	1.94
-20	-4	191	652	164	1.45	4.93	132	0.93	2.49
-15	5	238	813	205	1.60	5.48	148	1.01	3.12
-10	14	291	994	250	1.76	6.01	165	1.10	3.82
-5	23	349	1192	300	1.92	6.54	182	1.19	4.60

Model
HTK12AA

Configuration 2

Sales code:
16111600

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	4 μF
Start capacitor	-/-

Ambient/ machine room temperatures minimum /maximum

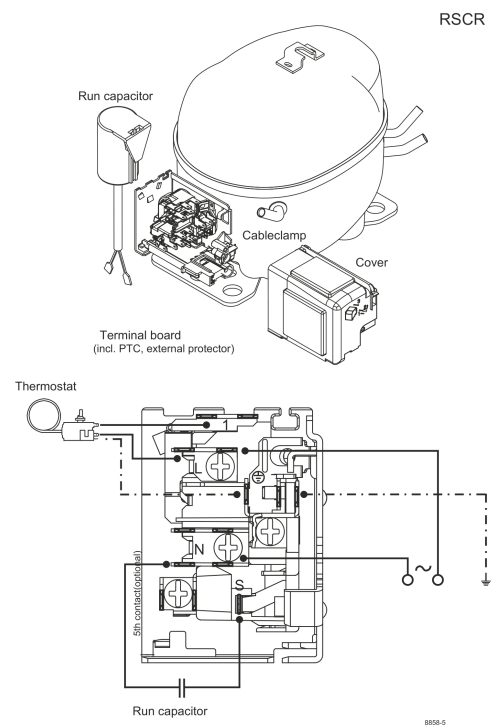
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System Cooling

static

Electrical Accessories / Wiring Diagram



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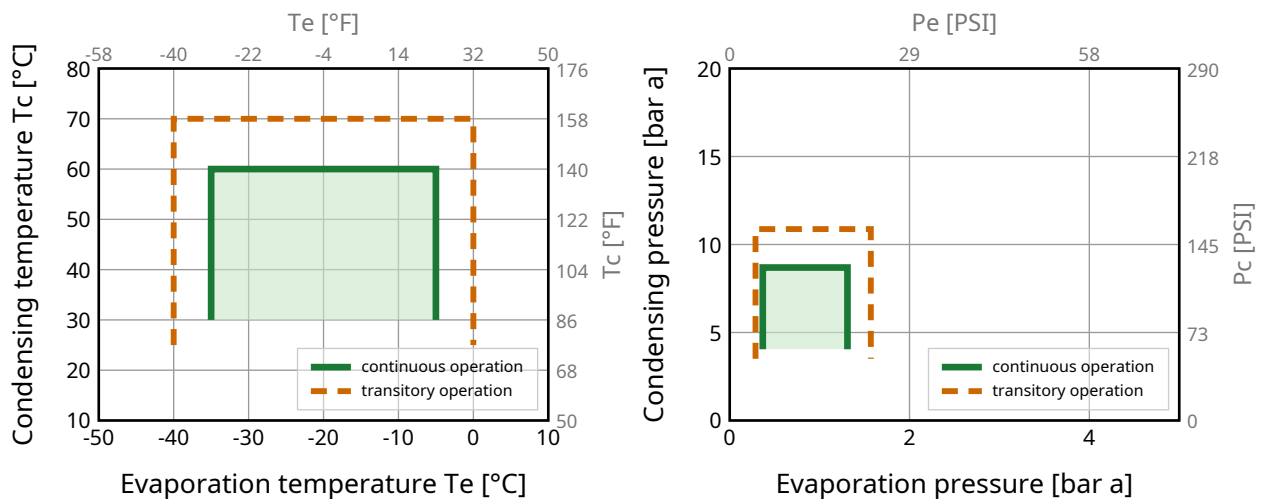
Components

- . terminal board (PTC, 4.8mm) 15164000
- . run capacitor (4 μ F, 4.8mm) 10693001
- b** cover terminal board 10636401
- . cable clamp 16058100
- . screw - uni6954 10636000
- . screw - uni6954 10636200

Alternative components

- . terminal board (PTC, 6.3mm) 15162500
- . run capacitor (4 μ F, 6.3mm) 15186801
- . screw uni en iso 4757 10641201

Operation Pressure Range



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Configuration 2

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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]	
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-23.3 -10	40.6 105.1	32.2 90	32.2 90	207	708	178	1.88	6.40	110	0.63	2.23	AHAM LBP
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Performance Tables

R600a, 220 V/50 Hz, RSCR, static

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

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-35	-31	93	318	80	1.18	4.02	79	0.53	1.11
-30	-22	129	439	111	1.38	4.70	93	0.57	1.53
-25	-13	169	578	146	1.58	5.38	108	0.62	2.02
-20	-4	216	735	185	1.77	6.06	121	0.67	2.57
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pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	82	278	70	1.01	3.45	81	0.52	1.06
-30	-22	112	384	97	1.17	4.00	96	0.57	1.47
-25	-13	149	508	128	1.34	4.57	111	0.63	1.94
-20	-4	191	652	164	1.50	5.12	127	0.69	2.49
-15	5	238	813	205	1.67	5.69	143	0.75	3.12
-10	14	291	994	250	1.83	6.24	159	0.81	3.82
-5	23	349	1192	300	1.99	6.80	175	0.88	4.60