

Model

Designation	HTK12AA	220-240V/50Hz 1~	Sales code:	16111600
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Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cSt	Displacement	11,2cm ³ / 0,68cu.in
Oil quantity	162cm ³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1660cm ³ / 56,1fl.oz		
Weight	8,5kg / 18,7lbs		
Motor protection	external		
Winding resistance main	14,6Ω (at 25°C)		
Winding resistance aux	13,7Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HTK12AA

	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 HTK12AA

	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 HTK12AA

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

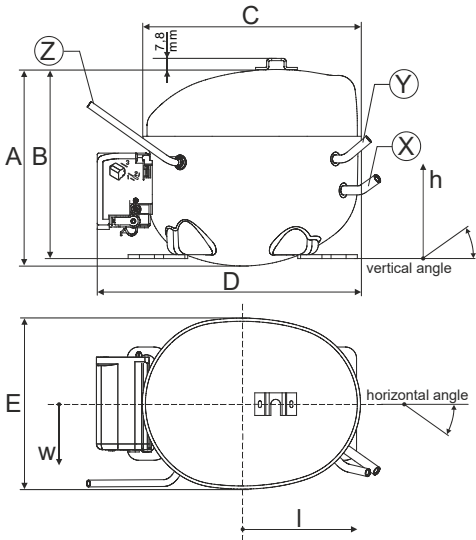
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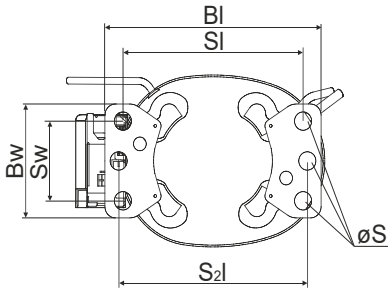
Compressor dimensions

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 6,1-6,2	øi 5,1-5,2	øo 5,92-6,08
(i:inside, o:outside) [in]	øi 0,24-0,24	øi 0,2-0,2	øo 0,23-0,24
Material	copper	copper	copper
Horizontal angle	±2° 45°	13°	0°
Vertical angle	±2° 30°	40°	145°
Position l/h/w [mm]	120/72/62	112/106/62	-140/136/70
	[in] 4,7/2,8/2,4	4,4/4,2/2,4	-5,5/5,4/2,8
Straight tube l.	[mm] 14	14	75
	[in] 0,5	0,5	3

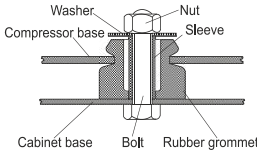


Compressor fixation

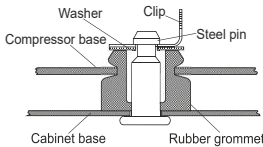


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	100	3.94
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

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

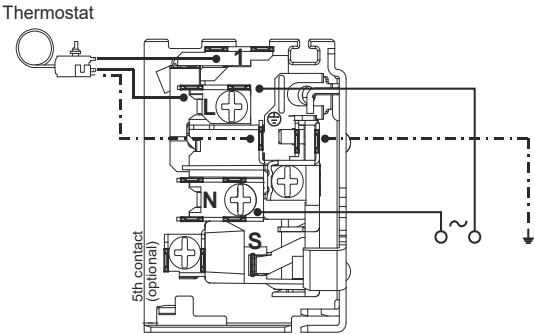
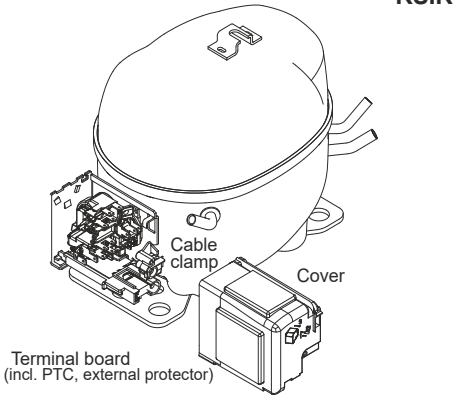
- order code
- 772N
- 768N
- 4ZN + 118-1917 (18)
- 776N

Application notes

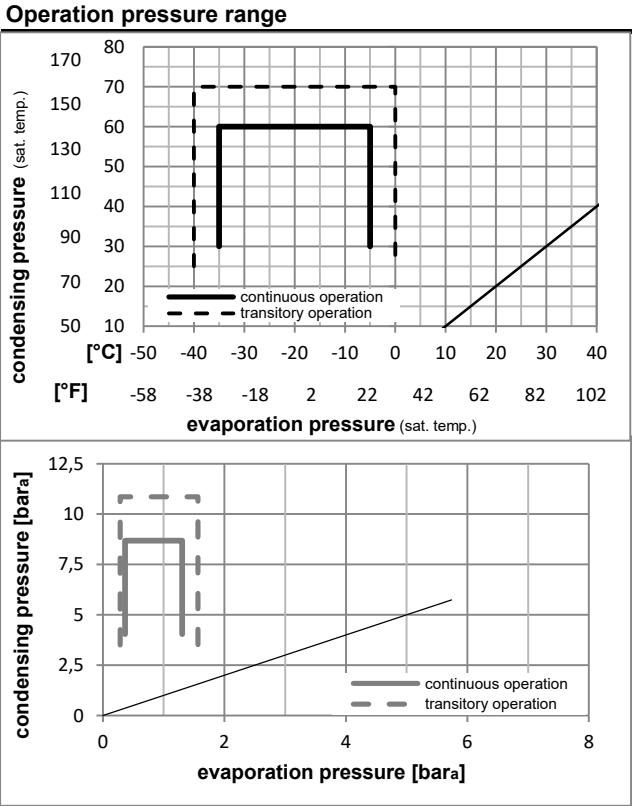
Provision for PE Grounding is located at the PE Stamp on the compressor
Housing with dip-tray fixture (omega bracket).
Various options of connectors are possible - please contact SECOP-Sales.

Model					
Designation	HTK12AA	220-240V/50Hz	Conf. 1	Sales code:	16111600

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



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

Model

Designation **HTK12AA** **220-240V/50Hz** Conf. 1 Sales code: **16111600**

Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1		I		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	ṁ		
[°C]	[°C]											[kg/h]		
[°C]	-23	54	32	32	197,8	675	170,2	1,63	5,58	1,41	121,0	0,87	2,12	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	149,0	509	128,2	1,28	4,39	1,11	116,0	0,85	1,94	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	96,0	328	82,6	1,15	3,94	0,99	83,3	0,72	1,17	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	159,2	544	137,0	1,34	4,59	1,16	118,5	0,86	2,33	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	207,3	708	178,4	1,81	6,17	1,55	114,8	0,84	2,22	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	93,3	319	80,3	1,11	3,79	0,95	84,1	0,71	1,11	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	93,3	319	80,3	1,11	3,79	0,95	84,1	0,71	1,11
cond. pressure	-30	-22	128,6	439	110,7	1,31	4,48	1,13	98,1	0,77	1,53
pc= 45/113	-25	-13	169,4	578	145,8	1,51	5,16	1,30	112,1	0,83	2,02
return gas temp.	-23	-10	184,4	630	158,7	1,58	5,39	1,36	116,8	0,85	2,20
RGT= 32/90	-20	-4	215,5	736	185,5	1,71	5,84	1,47	126,0	0,89	2,57
liquid temp	-15	5	267,0	912	229,8	1,91	6,52	1,64	139,8	0,96	3,19
Tliq= 45/113	-5	23	385,7	1317	331,9	2,31	7,89	1,99	166,9	1,10	4,63
[°C / °F]	-35	-31	81,6	279	70,3	0,96	3,28	0,83	84,9	0,69	1,06
cond. pressure	-30	-22	112,5	384	96,8	1,12	3,83	0,97	100,3	0,76	1,47
pc= 55/131	-25	-13	149,0	509	128,2	1,28	4,39	1,11	116,0	0,85	1,94
return gas temp	-23	-10	162,7	556	140,0	1,34	4,57	1,15	121,4	0,87	2,12
RGT= 32/90	-20	-4	191,0	652	164,4	1,45	4,94	1,24	132,1	0,93	2,50
liquid temp	-15	5	238,4	814	205,2	1,60	5,48	1,38	148,5	1,01	3,12
Tliq= 55/131	-5	23	349,4	1193	300,7	1,92	6,55	1,65	182,3	1,18	4,60

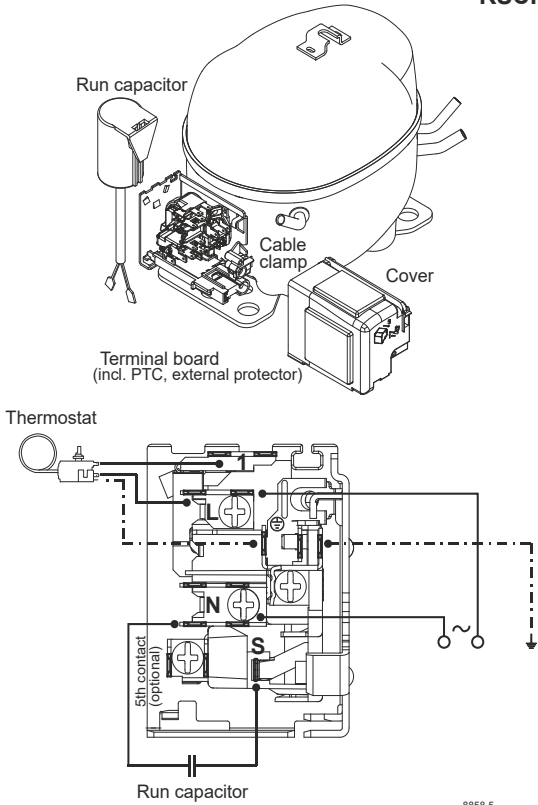
Model					
Designation	HTK12AA	220-240V/50Hz	Conf. 2	Sales code:	16111600

Configuration

Electrical accessories / wiring diagram

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

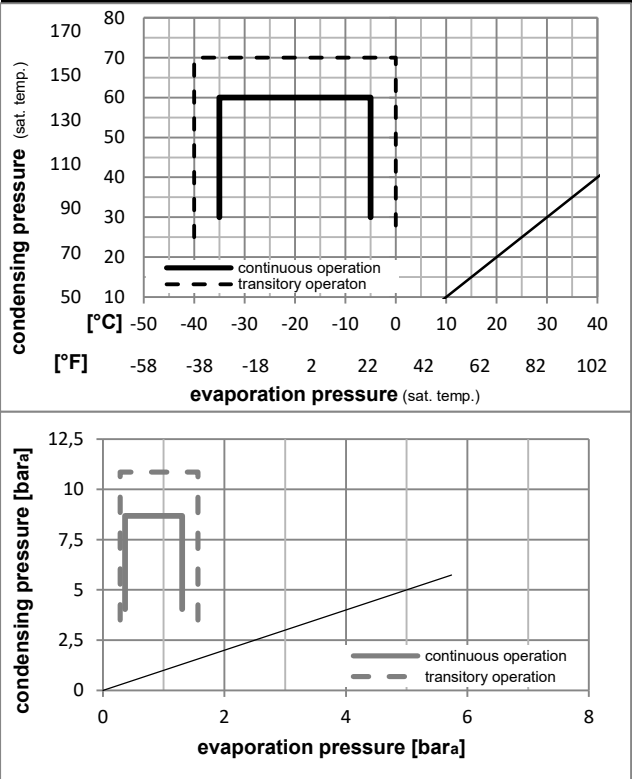
RSCR



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)	15164000
. run capacitor (4µF, 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 (4µF, 6.3mm)	15186801
. screw uni en iso 4757	10641201

Model

Designation **HTK12AA** **220-240V/50Hz** Conf. 2 Sales code: **16111600**

Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP
Return gas temp.					Current consumption						ASHRAE LBP			
Liquid temp.					Ref. mass flow							ASHRAE LBP		
Cooling capacity					COP								ASHRAE LBP	
EER					P1						I			ASHRAE LBP
[W]					[Btu/h]						[A]		ASHRAE LBP	
[kcal/h]					[W/W]						[kg/h]			ASHRAE LBP
[Btu/Wh]					[kcal/Wh]						[kg/h]		ASHRAE LBP	
[W]					[W/W]						[kg/h]			ASHRAE LBP
[Btu/Wh]					[W/W]						[kg/h]		ASHRAE LBP	
[kcal/Wh]					[W/W]						[kg/h]			ASHRAE LBP
[W]					[W/W]						[kg/h]		ASHRAE LBP	
[A]					[W/W]						[kg/h]			ASHRAE LBP
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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	93,3	319	80,3	1,18	4,02	1,01	79,2	0,53	1,11				
cond. pressure	-30	-22	128,6	439	110,7	1,38	4,70	1,19	93,4	0,57	1,53				
pc= 45/113	-25	-13	169,4	578	145,8	1,58	5,38	1,36	107,5	0,62	2,02				
return gas temp.	-23	-10	184,4	630	158,7	1,64	5,61	1,41	112,2	0,64	2,20				
RGT= 32/90	-20	-4	215,5	736	185,5	1,77	6,06	1,53	121,4	0,67	2,57				
liquid temp	-15	5	267,0	912	229,8	1,97	6,74	1,70	135,2	0,72	3,19				
Tliq= 45/113	-5	23	385,7	1317	331,9	2,38	8,12	2,05	162,1	0,82	4,63				
[°C / °F]	-35	-31	81,6	279	70,3	1,01	3,45	0,87	80,8	0,51	1,06				
cond. pressure	-30	-22	112,5	384	96,8	1,17	4,01	1,01	95,9	0,57	1,47				
pc= 55/131	-25	-13	149,0	509	128,2	1,34	4,57	1,15	111,4	0,63	1,94				
return gas temp	-23	-10	162,7	556	140,0	1,39	4,76	1,20	116,7	0,65	2,12				
RGT= 32/90	-20	-4	191,0	652	164,4	1,50	5,13	1,29	127,1	0,69	2,50				
liquid temp	-15	5	238,4	814	205,2	1,67	5,69	1,43	143,1	0,75	3,12				
Tliq= 55/131	-5	23	349,4	1193	300,7	1,99	6,80	1,71	175,4	0,88	4,60				