

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

Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	Displacement	11,2cm³ / 0,68cu.in
Oil quantity	162cm³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1660cm³ / 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
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 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

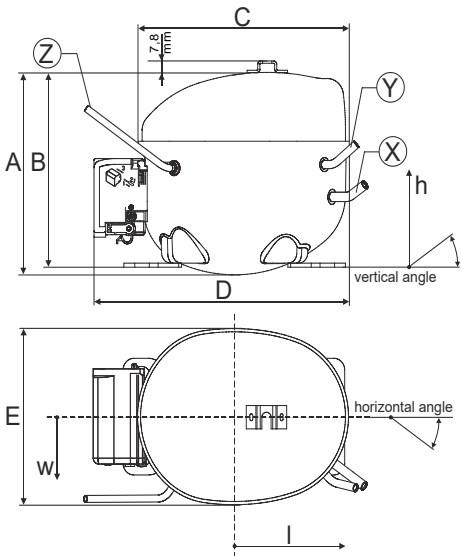
	Conf. 1	Conf. 2
Starting device type	PTC	PTC
Run capacitor	-/-	4µF
Start capacitor	-/-	-/-
LRA (locked rotor amps / 4s/ U(N))		
RLA (rated load amps / 1s/ U(N))	-/-A	
Cut in current (U(N))		

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Compressor dimensions

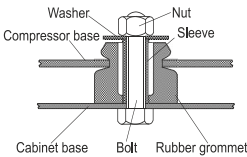
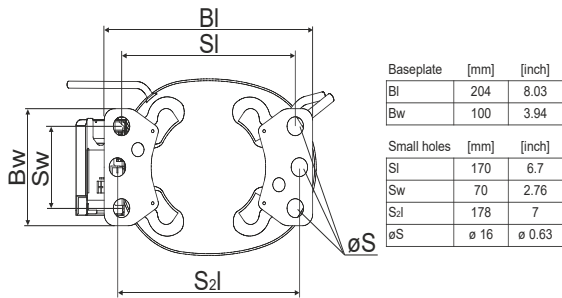
Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

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

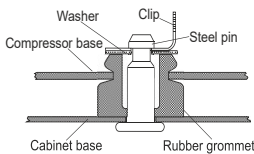


Compressor fixation

Bolt joint



Snap-on



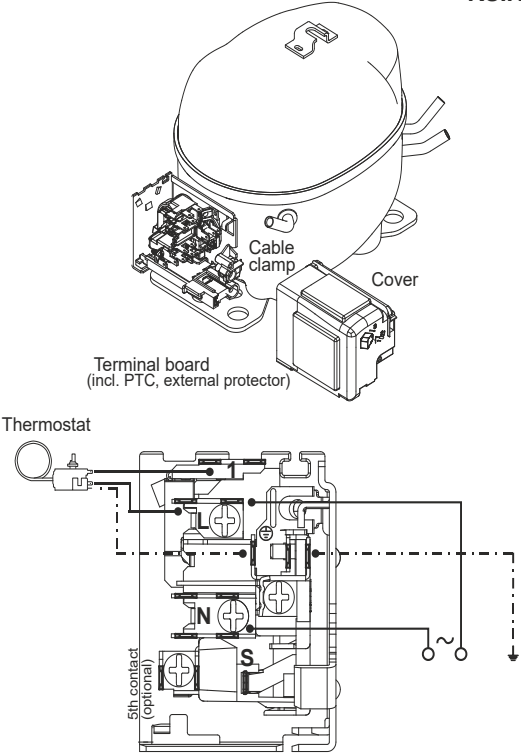
Mounting accessories

'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

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.

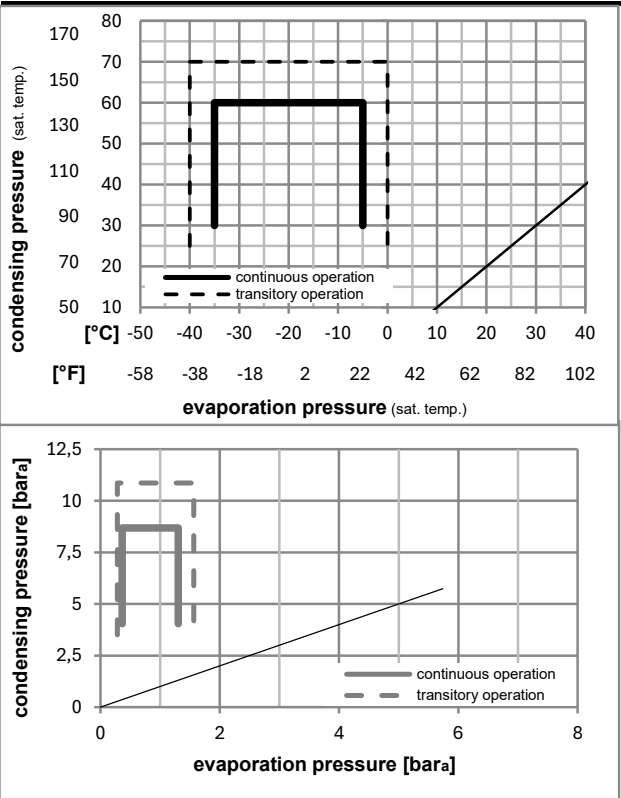
Model				
Designation	HTK12AA	220-240V/50Hz	Conf. 1	Sales code: 16111600

Configuration	Electrical accessories / wiring diagram			
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			8858-6
.	terminal board (PTC, 4.8mm)	15164000	
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)	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)															
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	
												[W]	[A]	[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

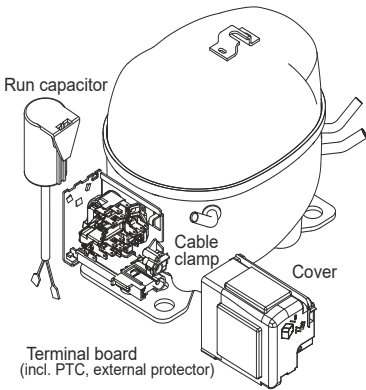
Model				
Designation	HTK12AA	220-240V/50Hz	Conf. 2	Sales code: 16111600

Configuration

Electrical accessories / wiring diagram

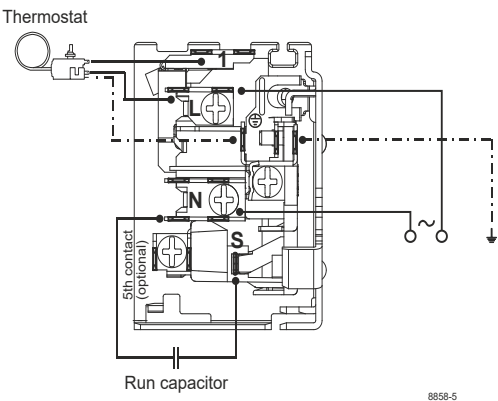
Motorconfiguration	RSCR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	187-264V
Starting torque	LST
Approvals	VDE

RSCR

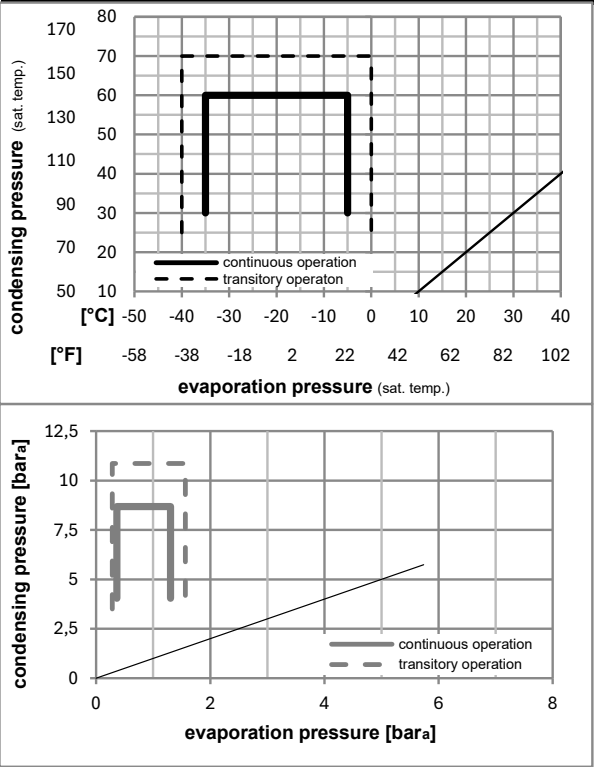


Ambient/ machine room temperatures minimum /maximum

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	11341000
. 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

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Optimization + standard conditions

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

	Evaporating pressure (saturation temperature)										Power consumption			
	Condensing pressure (saturation temperature)										Current consumption			
	Return gas temp.										Ref. mass flow			
	Liquid temp.													
	Cooling capacity													
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	COP	EER		P1	I	m	
											[W]	[A]	[kg/h]	
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[°C]	-35	45	32	45	93,3	319	80,3	1,18	4,02	1,01	79,2	0,53	1,11	opt
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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
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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