Product Data Sheet
HXK55AA
Revision 1
(Variant Code B)

1 Application

Application	Refrigerant	Expansion Device	Cooling Type
LBP	R600a	Capillary	Static

1.1 Application Conditions

Max. Ambient temp.[1]	**[°C]**	43
Max. Steady discharge temp.[2]	**[°C]**	120
Max. Peak discharge temp.[2, 5]	**[°C]**	135
Max. Steady condensing temp.[3]	**[°C]**	60
Max. Peak condensing temp.[3, 5]	**[°C]**	70
Max. Winding temp.[4]	**[°C]**	130

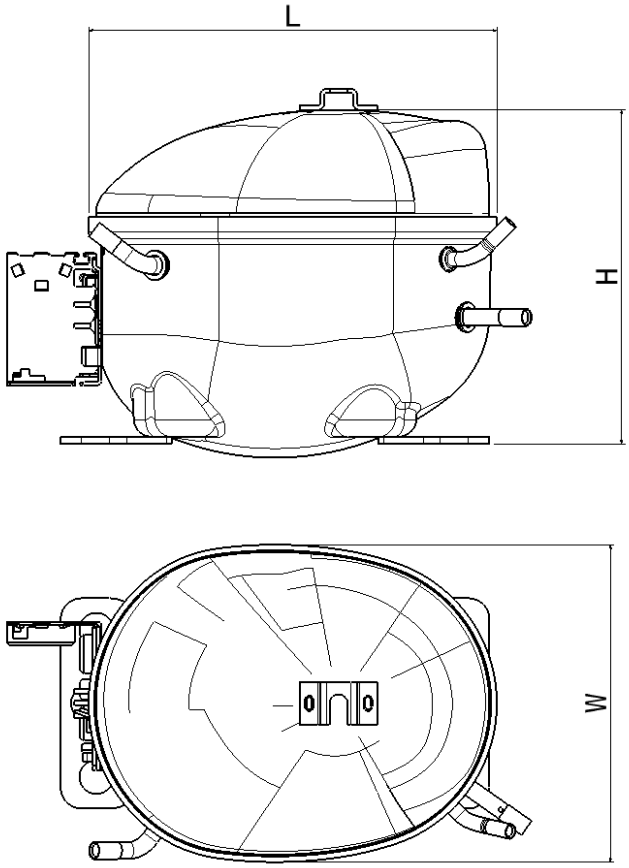
[1]…static
[2]…measured on discharge tube, 50 mm from the shell
[3]…measured in the middle of condenser
[4]…calculated out of the measured difference of resistance
[5]…max 5% of lifetime

Variant code according to Label; see General Product Documentation

2 Mechanical Data

Displacement	**[cm³]**	5,6
Net Weight[1]	**[kg]**	8,2
Oil Type		mineral
Oil Charge	**[ml]**	165
Oil Viscosity	**[cst]**	5
Suction muffler		Semi direct
Free Gas Volume	**[cm³]**	1550
Length L	**[mm]**	194,2
Width W	**[mm]**	151,5
Height H	**[mm]**	167

[1]...Compressor without accessories



3 Electrical Data

Power supply	**[V]**	220 - 240
Voltage range[1]	**[V]**	187 - 264
Frequency	**[Hz]**	50
Phase	**[ph]**	1
Motor type		RSCR
Locked rotor current @ steady state	**[A]**	2,1
Max. Locked rotor current / measured after 4 sec	**[A]**	8,5 / 2,6
Main wind. Resistance @ 25°C	**[Ω]**	37,0
Start wind. Resistance @ 25°C	**[Ω]**	27,5

[1]...Operating and starting (starting condition @ +43°C windings temperature, 3,5 barA equalized pressure)

All data measured according to EN 60335

3.1 Electrical Component Data

Terminal board		ECC
Starting device	**Code**	K120
PTC	**Type**	A
Run Capacitor	**[µF]**	2 ; 2,5

3.2 Motor Protector

Motor Protector	BDG	Senbao
Type	AE 25 FJ x	B43 115 x
Code	F6	MW

4 Performance Data

4.1 Cooling Capacity, COP and Input Power

Performance Table Cooling Capacity @ ASHRAE / EN12900 (CECOMAF); 220V, 50Hz; [W]:

Evap. temp. [°C]			-35	-30	-25	-23,3	-20	-15	-10
Condensing temp. @	ASHRAE [°C]	40	52,7	76,2	102,2	111,6	130,7	161,8	195,4
		45	49,8	72,1	97,5	106,8	125,9	157,4	191,9
		50	46,8	68,0	92,8	102,0	121,1	153,0	188,5
		55	43,9	63,9	88,0	97,2	116,3	148,6	185,0
		60	41,0	59,8	83,3	92,4	111,5	144,2	181,6
	EN12900 (CECOMAF) [°C]	C55	36,0	53,0	72,0	80,0	96,0	122,0	152,0

Performance Table COP with RC @ ASHRAE / EN12900 (CECOMAF); 220V, 50Hz; [W/W]:

Evap. temp. [°C]			-35	-30	-25	-23,3	-20	-15	-10
Condensing temp. @	ASHRAE [°C]	40	1,47	1,77	2,07	2,17	2,37	2,67	2,97
		45	1,41	1,69	1,97	2,06	2,24	2,52	2,79
		50	1,36	1,61	1,86	1,95	2,11	2,36	2,62
		55	1,30	1,53	1,76	1,83	1,98	2,21	2,44
		60	1,24	1,45	1,65	1,72	1,85	2,06	2,26
	EN12900 (CECOMAF) [°C]	C55	1,07	1,27	1,45	1,52	1,64	1,82	2,00

Performance Table Input Power with RC @ ASHRAE / EN12900 (CECOMAF); 220V, 50Hz; [W]:

Evap. temp. [°C]			-35	-30	-25	-23,3	-20	-15	-10
Condensing temp. @	ASHRAE [°C]	40	35,8	43,0	49,3	51,3	55,1	60,5	65,7
		45	35,2	42,7	49,6	51,8	56,1	62,5	68,7
		50	34,5	42,3	49,8	52,4	57,3	64,7	72,0
		55	33,8	41,8	50,1	53,0	58,6	67,2	75,9
		60	32,9	41,4	50,5	53,7	60,1	70,1	80,3
	EN12900 (CECOMAF) [°C]	C55	33,8	41,8	50,1	53,0	58,6	67,2	75,9

Test Conditions @ 220V/50Hz		ASHRAE	EN12900 (CECOMAF)
Evaporating temp.	**[°C]**	-23,3	-25
Condensing temp.	**[°C]**	55	55
Sub cooling temp.	**[°C]**	32	55
Suction temp.	**[°C]**	32	32
Ambient temp.	**[°C]**	32	32

Tolerance Range:

COP	**± 5%**
Cooling Capacity	**± 5%**

4.2 Rated current @ 55°C condensing temperature

Evaporating temperature	[°C]	-30	-23,3	-10
Rated current with RC	**[A]**	0,20	0,25	0,35

5 Reliability Tests

High Temperature CECOMAF GT4 – 002	passed
Wear CECOMAF GT4 – 003	passed
On – Off CECOMAF GT4 – 004	passed
Transport test ASTM D4728	passed