Product Data Sheet
GVM44AA
Variant Code G*

1 Application

Application	Refrigerant	Expansion Device	Cooling Type
LBP	R134a	Capillary	Static

1.1 Application Conditions

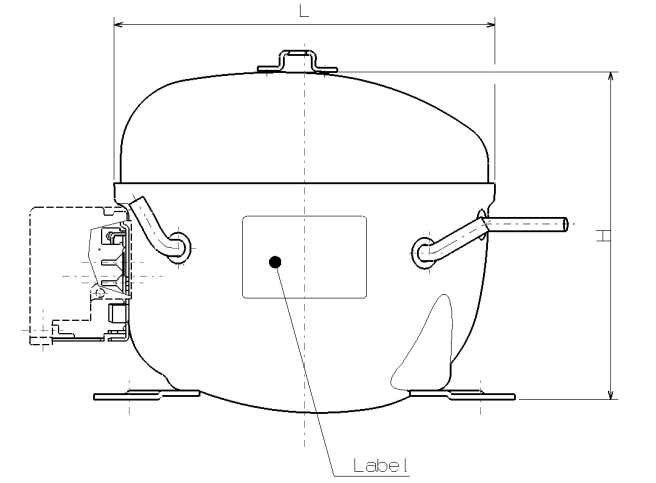
Max. Ambient temp.[1]	**[°C]**	43
Max. Steady discharge temp.[2]	**[°C]**	120
Max. Peak discharge temp.[2]	**[°C]**	135
Max. Steady condensing temp.[3]	**[°C]**	60
Max. Peak condensing temp.[3]	**[°C]**	70
Max. Winding temp.[4]	**[°C]**	130

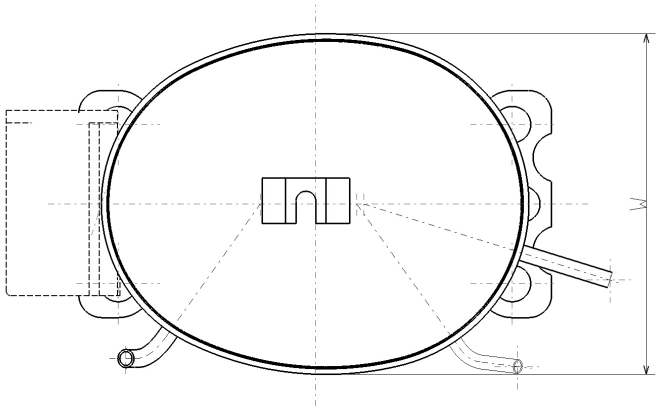
[1]…static
[2]…measured on discharge tube, 50 mm from the shell
[3]…measured in the middle of condenser
[4]…calculated out of the measured difference of resistance
***…Variant code according to Label; see General Product Documentation**

2 Mechanical Data

Displacement	**[cm³]**	4,38
Net Weight[1]	**[kg]**	7,5
Oil Type		Ester
Oil Charge	**[ml]**	163
Oil Viscosity	**[cst]**	15
Suction muffler		Semi direct
Length L	**[mm]**	184,5
Width W	**[mm]**	150
Height H	**[mm]**	169,5

[1]...**Compressor without accessories**





3 Electrical Data

Power supply	**[V]**	220 - 240
Voltage range[1]		187 – 264
Frequency	**[Hz]**	50
Phase	**[ph]**	1
Motor type		RSIR
Rated current / Locked rotor current @ steady state	**[A]**	0,9 / 3,9
Max. Locked rotor current measured after 4 sec	**[A]**	11,3 / 4,6
Main wind. Resistance @ 25°C	**[Ω]**	23,6
Start wind. Resistance @ 25°C	**[Ω]**	19,2

[1]...@ +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**	K100
PTC	**Type**	A
Run Capacitor	**[µF]**	-

3.2 Motor Protector

Motor Protector	BDG	Wanbao	Sensata
Type	AE 37 FJ x	B59 115 x	4TM 189 NFB YY x
Code	F7	MF	69

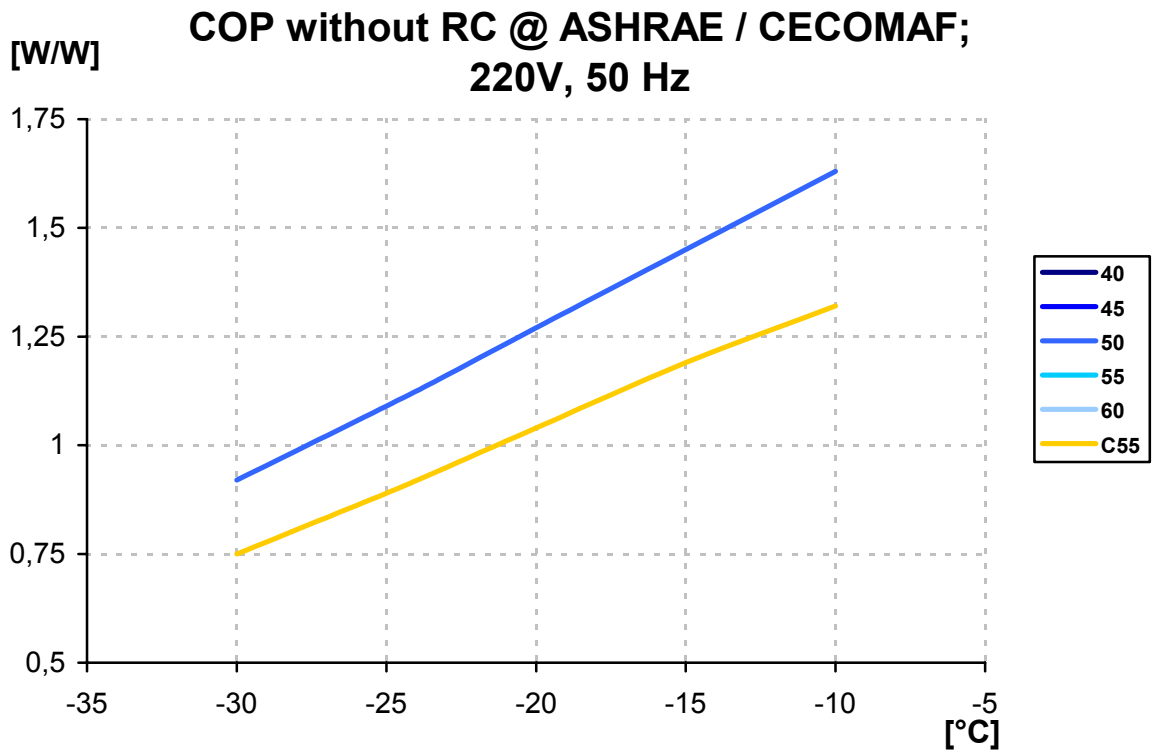
4 Performance Data

4.1 COP, Cooling Capacity and Input Power according to EN 12900

Performance Table COP without RC @ ASHRAE / CECOMAF; 220V, 50Hz; [W/W]:

Evap. temp. [°C]			-30	-25	-23,3	-20	-15	-10
Condensing temp. @	ASHRAE [°C]	55	0,92	1,09	1,15	1,27	1,45	1,63
	CECOMAF [°C]	C55	0,75	0,89	0,94	1,04	1,19	1,32

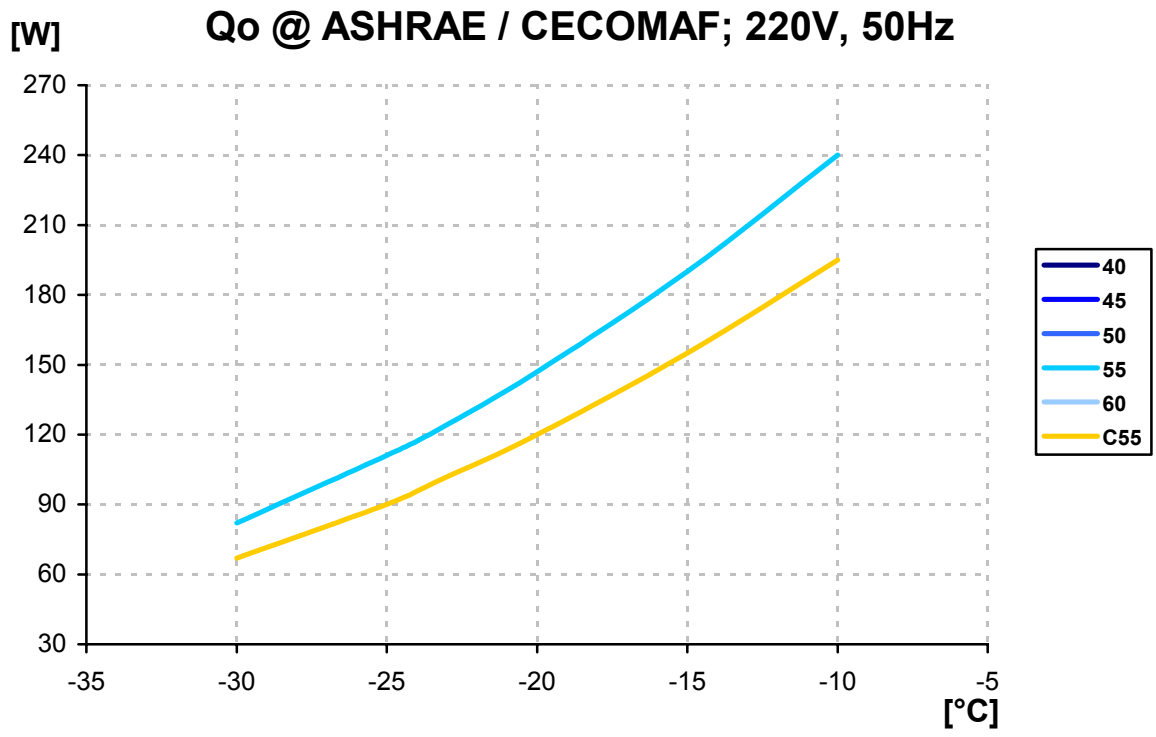
Performance Graph COP without RC:



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

Evap. temp. [°C]			-30	-25	-23,3	-20	-15	-10
Condensing temp. @	ASHRAE [°C]	55	82	111	122	147	190	240
	CECOMAF [°C]	C55	67	90	100	120	155	195

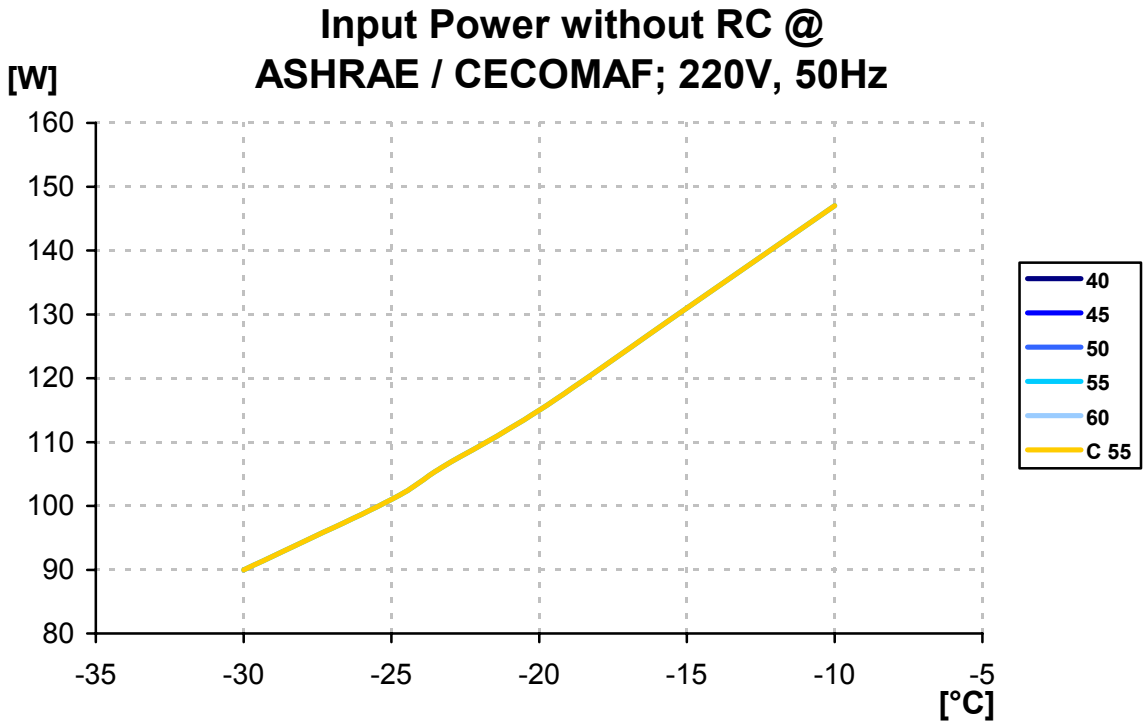
Performance Graph Cooling Capacity:



Performance Table Input Power without RC @ ASHRAE / CECOMAF; 220V, 50Hz; [W]:

Evap. temp. [°C]			-30	-25	-23,3	-20	-15	-10
Condensing temp. @	ASHRAE [°C]	55	90	101	106	115	131	147
	CECOMAF [°C]	C55	90	101	106	115	131	147

Performance Graph Input Power without RC:



Test Conditions @ 220V/50Hz		ASHRAE	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 **+/-7%**
Cooling Capacity **+/-5%**

4.2 Rated current @ 55°C condensing temperature

Evaporating temperature	[°C]	-30	-23,3	-10
Rated current without RC	[A]	0,69	0,69	0,84