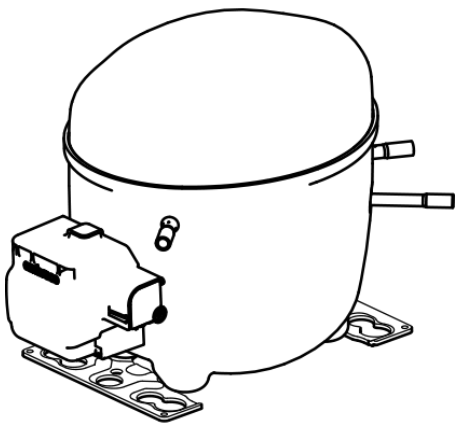
COMPRESSOR TECHNICAL DATA

FFI12HBK



ENGINEERING CODE
513200410

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
L/M/HBP

MOTOR TYPE
RSIR/CSIR

STANDARD
EN12900

COOLING CAPACITY
588 W

EFFICIENCY
1.74 W/W

DATA

GENERAL DATA

Model	FFI12HBK
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	L/M/HBP
Expansion Device	Capillary Tube
Compressor Cooling	Fan/220
HP	1/3+
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	29.9 Ω at 25°C
Run Winding Resistance	5.7 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	20 A
Rated Load Amperage (LMBP) at 50 Hz	2.5 A
Rated Load Amperage (HBP) at 50 Hz	3 A

MECHANICAL DATA

Displacement	11.14 cm^3
Oil Charge	280 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11.4 Kg

ELECTRICAL COMPONENTS

Start Capacitor	88-108 µf/220 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	213516035 213516043*
Overload Protection	4TM757KFBYY-53 5TM 757KFBYY-53 CP4TMF210N52A2 DRB210N52A*F MRP40APN-5590 MRP40APN-5598

EXTERNAL CHARACTERISTICS

Base Plate	UNI V2
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED	COPPER PLATED STEEL
Discharge	5 mm	SLANTED	COPPER PLATED STEEL
Process	6.1 mm	SLANTED	COPPER PLATED STEEL

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	MBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
Tested Frequency	50 Hz
Max Refrigerant Charge	250 g
Refrigerant Temperature	Dew

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
45	-10	588	1.74	337	-	13.69

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	150	0.76	197	-	3.42
-30	199	0.93	215	-	4.61
-25	268	1.12	239	-	6.20
-20	356	1.32	269	-	8.23
-15	462	1.53	302	-	10.72
-10	588	1.74	337	-	13.69
-5	733	1.97	373	-	17.17
0	897	2.21	407	-	21.18
5	1081	2.47	437	-	25.75
10	1284	2.77	464	-	30.91
15	1507	3.12	483	-	36.68

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	164	0.77	214	-	4.21
-25	225	0.93	242	-	5.78
-20	302	1.09	277	-	7.76
-15	395	1.25	317	-	10.17
-10	504	1.40	360	-	13.06
-5	630	1.55	406	-	16.43
0	773	1.71	452	-	20.32
5	932	1.88	497	-	24.75
10	1108	2.06	538	-	29.75
15	1301	2.26	576	-	35.35

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

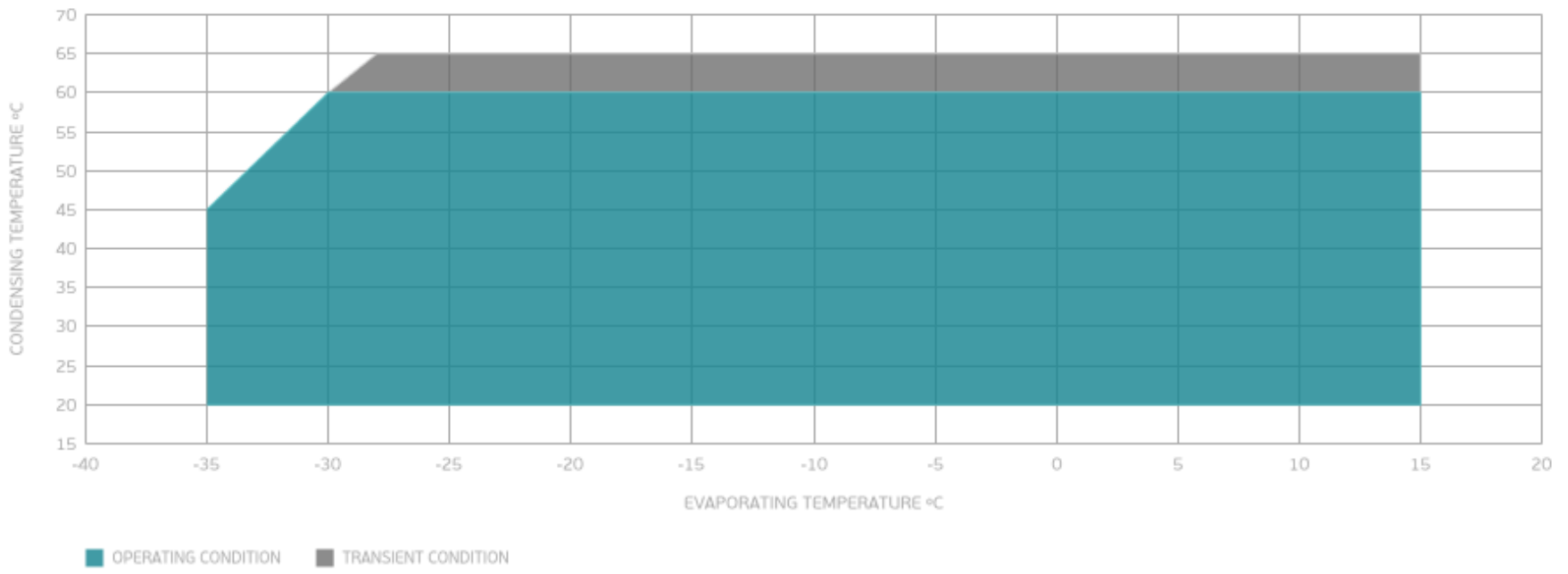
PERFORMANCE CURVE

Condensing Temperature 65ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	177	0.78	227	-	5.12
-20	243	0.91	266	-	7.05
-15	323	1.04	311	-	9.40
-10	416	1.15	362	-	12.19
-5	523	1.26	417	-	15.46
0	644	1.36	473	-	19.23
5	779	1.47	531	-	23.52
10	927	1.58	587	-	28.36
15	1090	1.70	640	-	33.78

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS