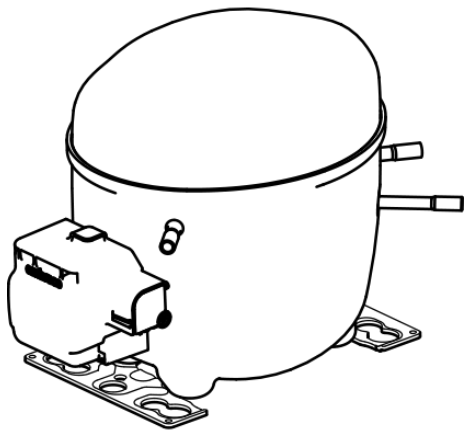
COMPRESSOR TECHNICAL DATA

EGAS90HLR



ENGINEERING CODE
513701433

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
RSIR

STANDARD
EN12900

COOLING CAPACITY
113 W

EFFICIENCY
1.05 W/W

DATA

GENERAL DATA

Model	EGAS90HLR
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/3-
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	35.4 Ω at 25°C
Run Winding Resistance	14.8 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	12.8 A
Locked Rotor Amperage (LRA) 60Hz	12.3 A
Rated Load Amperage (LMBP) at 50 Hz	1.2 A
Rated Load Amperage (LMBP) at 60 Hz	1 A
Rated Load Amperage (HBP) at 50 Hz	1.5 A
Rated Load Amperage (HBP) at 60 Hz	1.3 A

MECHANICAL DATA

Displacement	7.15 cm^3
Oil Charge	230 ml
Oil Type	ESTER
Oil Viscosity	ISO10
Weight	10.1 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	4TM739KFBYY-53

EXTERNAL CHARACTERISTICS

Base Plate	UNI V2
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	6.5 mm	SLANTED	COPPER
Discharge	4.94 mm	SLANTED	COPPER
Process	6.5 mm	SLANTED	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Static
Tested Voltage	220 V
Tested Frequency	50 Hz
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
40	-35	113	1.05	108	-	2.48

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

PERFORMANCE CURVE — Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	123	1.18	104	-	2.56
-30	163	1.38	118	-	3.42
-25	213	1.62	132	-	4.49
-20	276	1.90	146	-	5.82
-15	352	2.22	158	-	7.45
-10	444	2.62	170	-	9.43

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

PERFORMANCE CURVE — Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	103	0.93	111	-	2.37
-30	141	1.12	126	-	3.24
-25	187	1.31	143	-	4.31
-20	243	1.51	161	-	5.62
-15	311	1.75	178	-	7.22
-10	392	2.01	195	-	9.15

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

PERFORMANCE CURVE — Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	114	0.87	132	-	2.92
-25	156	1.03	151	-	4.00
-20	206	1.20	172	-	5.30
-15	266	1.38	194	-	6.88
-10	338	1.57	216	-	8.77

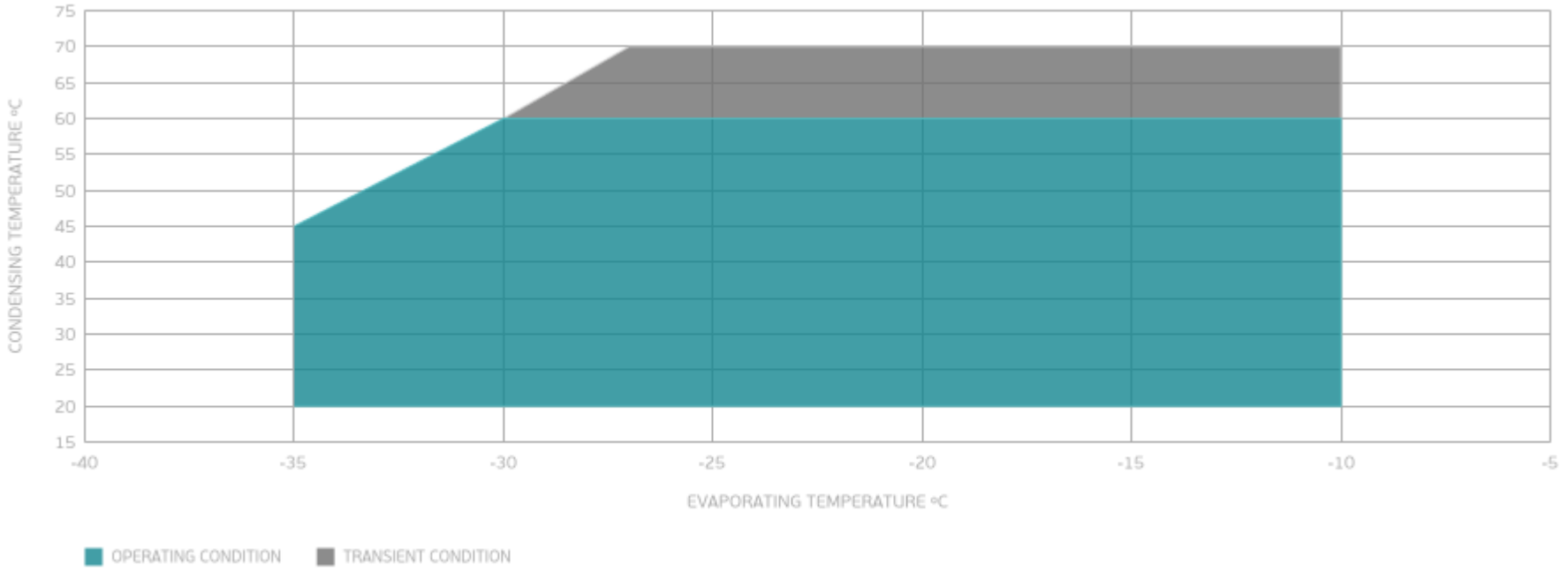
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

PERFORMANCE CURVE — Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	121	0.78	155	-	3.50
-20	166	0.93	178	-	4.81
-15	218	1.07	204	-	6.37
-10	280	1.22	230	-	8.24

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

ENVELOPE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CONDENSING TEMPERATURE °C
-40
-35
-30
-25
-20
-15
-10
-5
EVAPORATING TEMPERATURE °C
OPERATING CONDITION
TRANSIENT CONDITION