



APPROVALS



ENGINEERING CODE
262CA50

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ARI 540

APPLICATION
LBP

COOLING CAPACITY
270 W (LBP)

EFFICIENCY
1.12 W/W (LBP)

MOTOR TYPE
RSIR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	12.11 cm ³
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube
Horse Power	1/3 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-30 °C to -5 °C

Electrical Data

Motor type	RSIR
Starting Torque	LST
Start Winding Resistance	31.5 Ω at 25° C
Run Winding Resistance	6.4 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	10.9 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Starting Device	Relay MTRPH-0028*
Motor Protection	T0156/G5

External Characteristics

Base Plate	European	
Tray Holder	No	
Height	200 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°/Copper
Discharge	6.1 mm	Straight/Copper
Process	6.1 mm	Slanted 42°/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
48.90°C	-23.30°C	271 W	242 W	7.17 kg/h	1.12 W/W

Test Condition: ARILBP, Fan/NotControlled/220, Return Gas 4.4°C, Evaporation -23.30°C, Condensing 48.90°C, Ambient 35°C, Liquid 48.9°C, Subcooling 0K. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-30	238	194	5.39	1.23
-25	316	219	7.19	1.44
-20	409	246	9.34	1.66
-15	518	278	11.90	1.86
-10	644	313	14.87	2.06
-5	786	352	18.28	2.24

Test Condition: ARILBP, Fan/NotControlled/220, Return Gas 4.4°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-30	201	195	5.03	1.03
-25	268	225	6.74	1.19
-20	350	258	8.83	1.36
-15	447	295	11.34	1.51
-10	559	336	14.29	1.67
-5	688	380	17.70	1.81

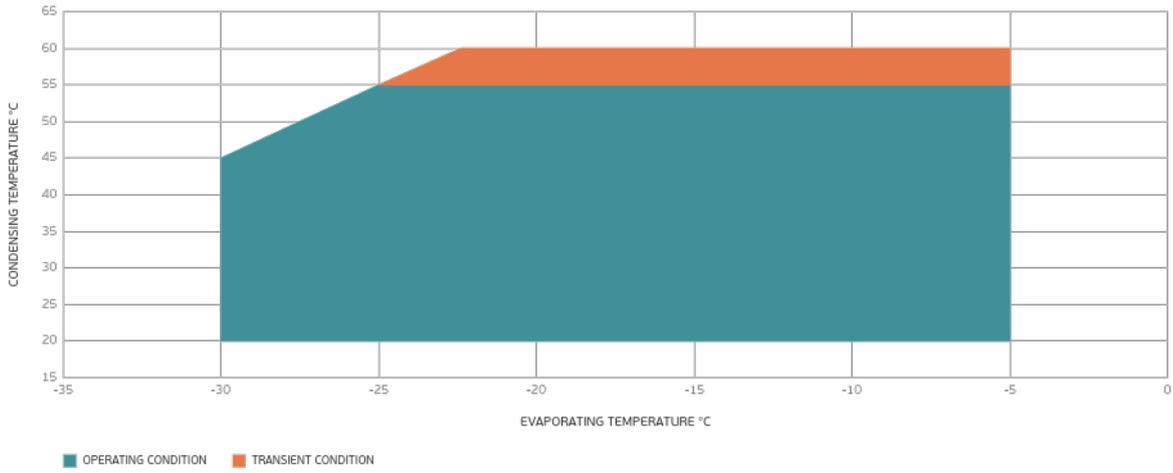
Test Condition: ARILBP, Fan/NotControlled/220, Return Gas 4.4°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

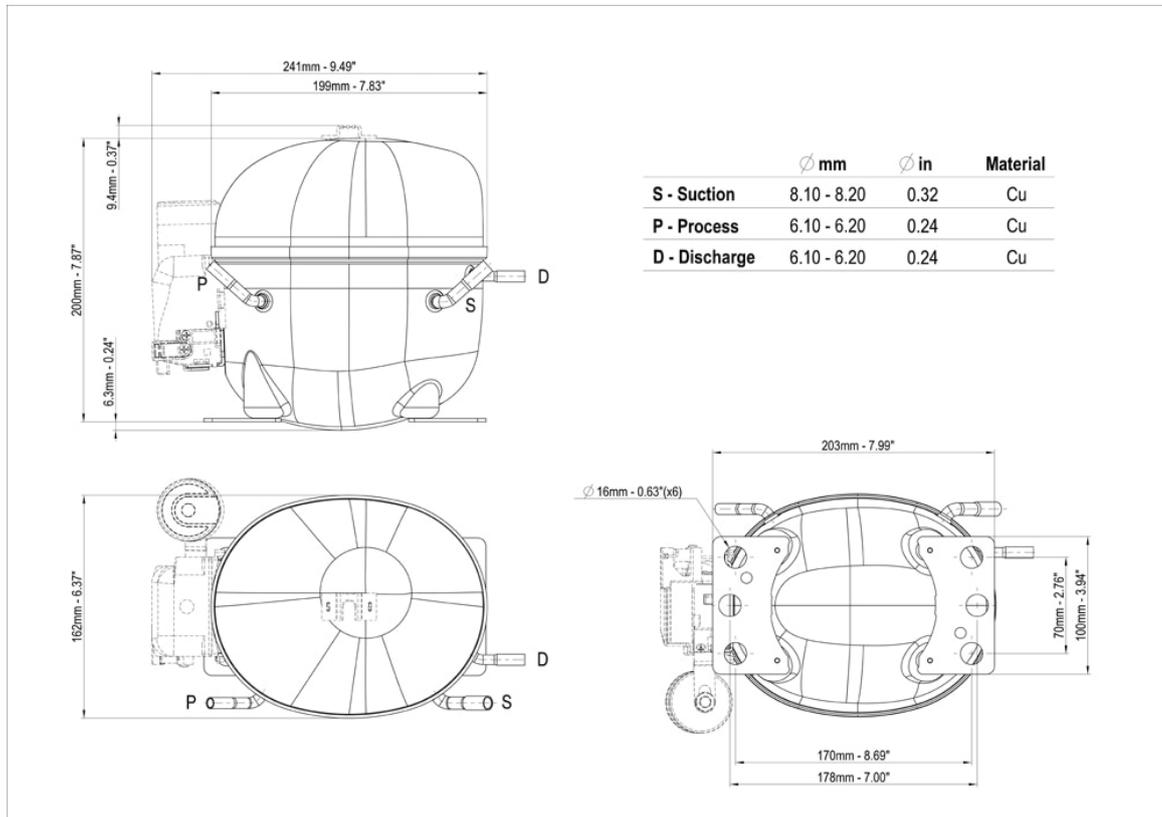
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-25	225	232	6.34	0.97
-20	295	269	8.34	1.09
-15	378	310	10.77	1.22
-10	476	354	13.66	1.34
-5	589	402	17.04	1.46

Test Condition: ARILBP, Fan/NotControlled/220, Return Gas 4.4°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

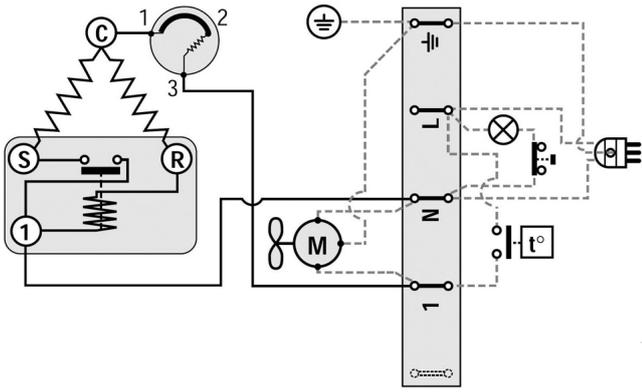
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

