



APPROVALS



ENGINEERING CODE
816BA42

APPROVED REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
241 W

EFFICIENCY
1.75 W/W

MOTOR TYPE
RSCR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	14.28 cm ³
Compressor Cooling	Static
Expansion Device	Capillary Tube
Horse Power	1/4 hp
Max Condensing Pressure Operating	6.73 bar
Max Condensing Pressure Peak	7.69 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-30 °C to -5 °C

Electrical Data

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	23.2 Ω at 25° C
Run Winding Resistance	15.2 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	280 ml
Oil Type Configuration	Alkylbenzene
Oil Type Viscosity	ISO5
Pressurization	Without dry air charge
Weight	10.4 Kg
Free Internal Volume	2.3 L

Electrical Components

	Description
Starting Device	TSD TSD2 220V
Motor Protection	External 4TM222RFBYY-73

External Characteristics

Base Plate	European	
Tray Holder	No	
Height	194 mm	
Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42°
Discharge	4.86 mm	Straight
Process	6.1 mm	Slanted 42°

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	241 W	138 W	0.65 A	2.61 kg/h	1.75 W/W

Test Condition: ASHRAE, Static, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to ASHRAE guideline polynomial curve.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	178	102	0.5	1.93	1.74
-25	232	115	0.55	2.50	2.02
-20	302	128	0.61	3.25	2.35
-15	388	143	0.67	4.18	2.72
-10	492	158	0.74	5.30	3.11
-5	613	175	0.82	6.61	3.5

Test Condition: ASHRAE, Static, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	176	111	0.53	1.92	1.59
-25	229	125	0.59	2.47	1.83
-20	295	140	0.66	3.18	2.1
-15	377	157	0.74	4.06	2.4
-10	474	175	0.82	5.11	2.71
-5	588	195	0.91	6.35	3.01

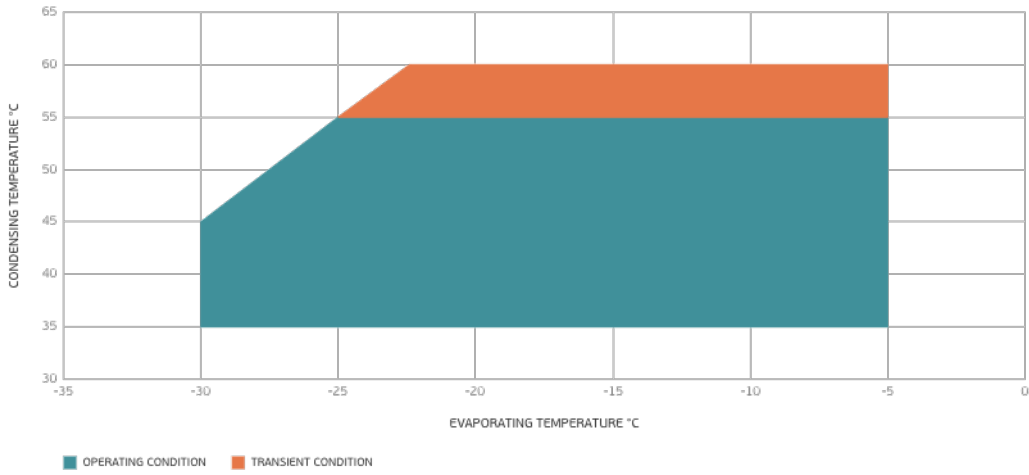
Test Condition: ASHRAE, Static, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

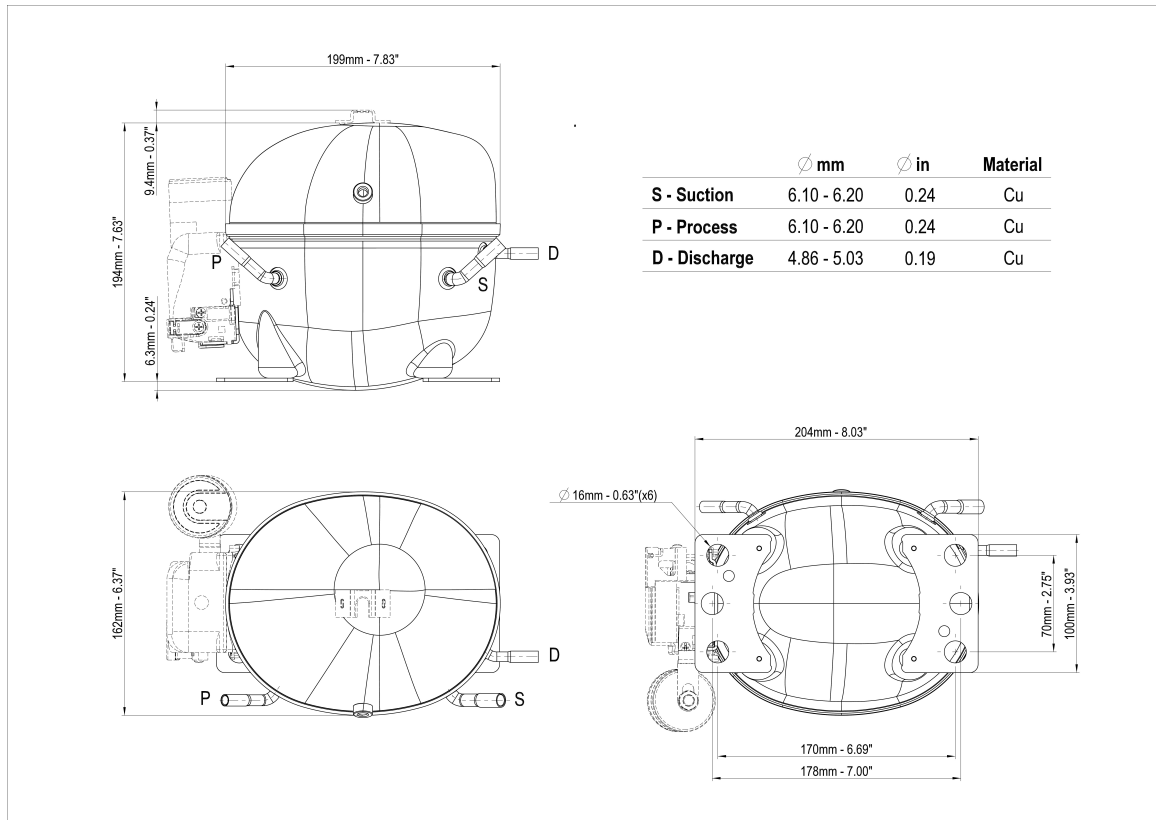
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-25	220	132	0.62	2.39	1.66
-20	285	150	0.7	3.08	1.89
-15	364	170	0.79	3.92	2.14
-10	457	193	0.89	4.93	2.38
-5	566	217	1.01	6.11	2.61

Test Condition: ASHRAE, Static, LBP. Data in accordance to ASHRAE guideline polynomial curve.

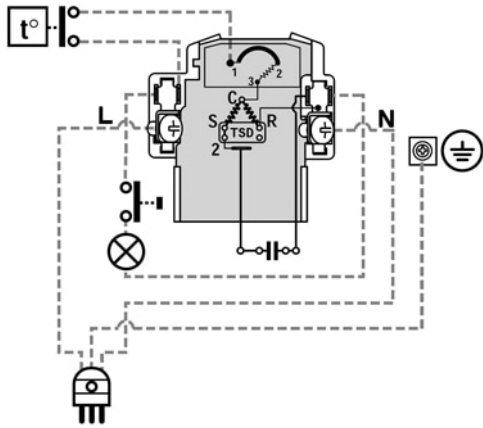
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

