



APPROVALS



 **ENGINEERING CODE**
171AA72

 **APPROVED REFRIGERANT**
R-134a

 **POWER SUPPLY**
220-240 V 50 Hz

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
L/MBP

 **COOLING CAPACITY**
160 W (LBP)

 **EFFICIENCY**
1.34 W/W (LBP)

 **MOTOR TYPE**
RSIR

 **STARTING TORQUE**
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	6.09 cm ³
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/6 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	-35 °C to 5 °C

Electrical Data

Motor type	RSIR
Starting Torque	LST
Start Winding Resistance	16.25 Ω at 25° C
Run Winding Resistance	17.6 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	250 g
Oil Charge	150 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Pressurization	Light vacuum
Weight	7.6 Kg
Free Internal Volume	1.5 L

Electrical Components

Description	
Starting Device	PTC V230
Motor Protection	AE19BU8

External Characteristics

Base Plate	European	
Tray Holder	No	
Height	171 mm	
Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42°/Copper
Discharge	4.94 mm	Straight/Copper
Process	6.1 mm	Slanted 46°/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	160 W	119 W	0.91 A	3.11 kg/h	1.34 W/W

Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C , Liquid 32.2°C, Subcooling 22.2K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

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
-35	92	81	0.84	1.78	1.14
-30	128	94	0.86	2.47	1.36
-25	173	107	0.88	3.36	1.62
-20	230	120	0.91	4.47	1.92
-15	297	132	0.94	5.79	2.25
-10	376	144	0.97	7.36	2.61
-5	467	156	1.01	9.17	3
0	570	166	1.05	11.25	3.42
5	686	177	1.1	13.62	3.88

Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	83	81	0.84	1.60	1.02
-30	116	95	0.86	2.24	1.21
-25	159	110	0.89	3.08	1.44
-20	213	126	0.92	4.13	1.69
-15	278	142	0.96	5.42	1.96
-10	355	158	1.01	6.94	2.25
-5	445	175	1.06	8.73	2.54
0	547	192	1.12	10.79	2.85
5	662	209	1.18	13.14	3.17

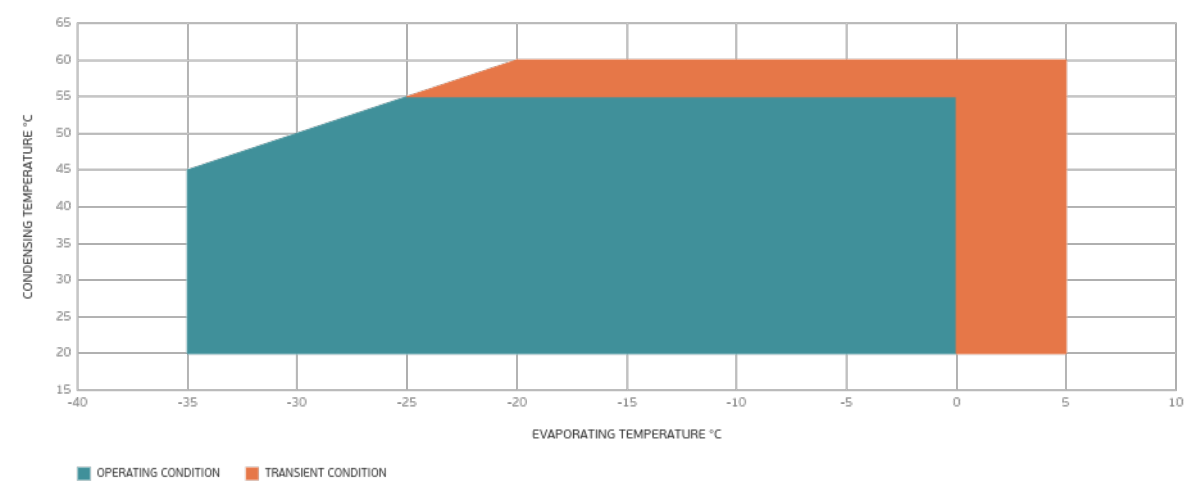
Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

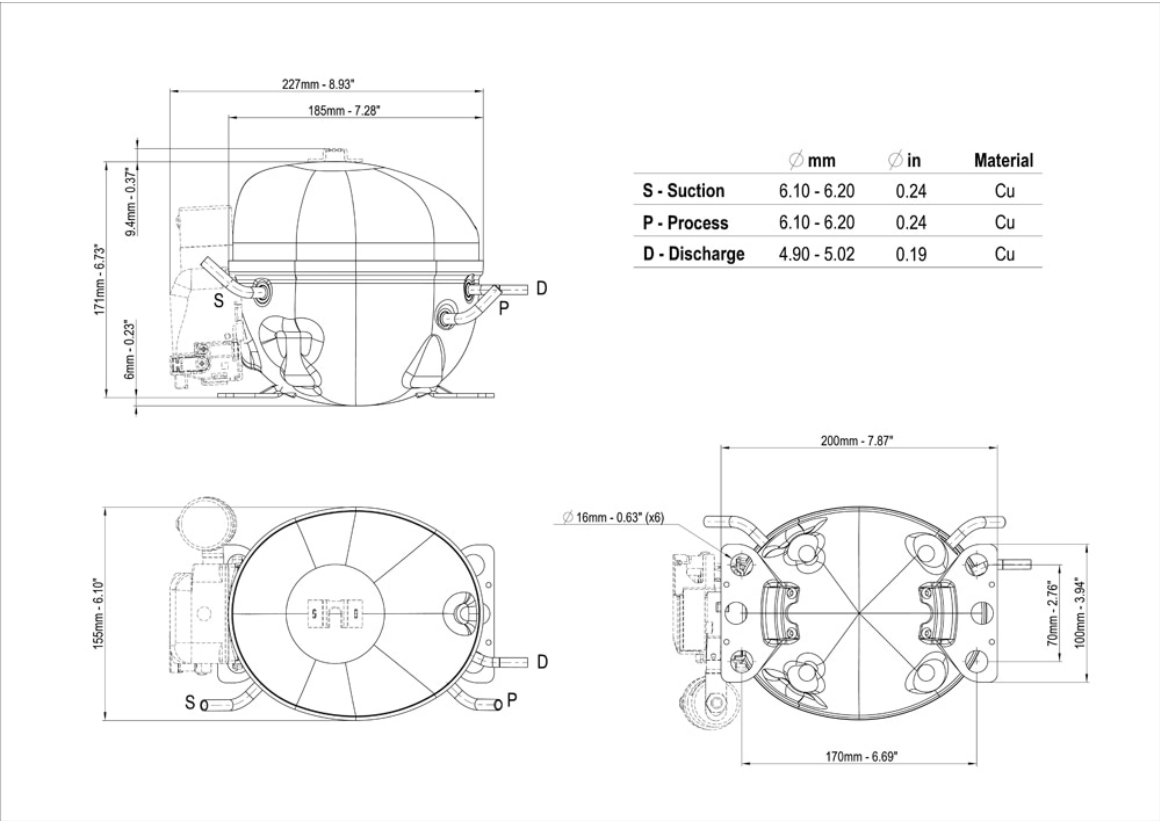
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-25	144	113	0.89	2.78	1.27
-20	194	130	0.93	3.77	1.5
-15	256	148	0.99	5.00	1.73
-10	331	167	1.05	6.48	1.98
-5	418	188	1.11	8.22	2.22
0	519	210	1.19	10.24	2.47
5	633	233	1.27	12.55	2.71

Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

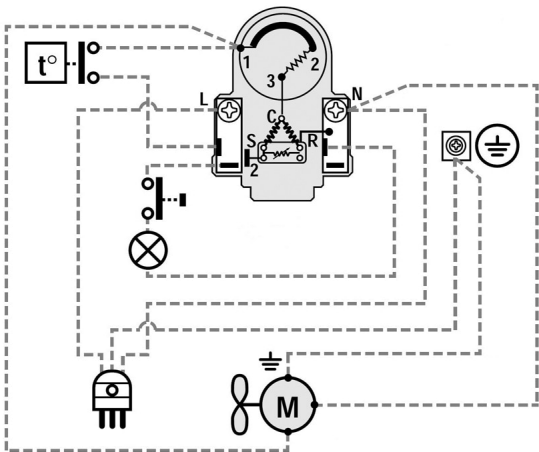
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

