



APPROVALS



ENGINEERING CODE
513308598

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
144 W (LBP)

EFFICIENCY
1.57 W/W (LBP)

MOTOR TYPE
RSCR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	4.99 cm ³
Compressor Cooling	Static/Controlled/220
Expansion Device	Capillary Tube
Horse Power	1/6 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to -10 °C

Electrical Data

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	15.54 Ω at 25° C
Run Winding Resistance	23.56 Ω at 25° C

Mechanical Data

Oil Charge	160 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	8.24 Kg

Electrical Components

	Description
Run Capacitor	5
Starting Device	TSD-220V
Motor Protection	4TM189KFBYY-53

External Characteristics

Tray Holder	No	
Connector	Internal Diameter	Shape
Suction	6.5 mm	Straight/Copper
Discharge	4.94 mm	Straight/Copper
Process	6.5 mm	Straight/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	144 W	92 W	0.43 A	2.80 kg/h	1.57 W/W

Test Condition: ASHRAELBP32, Static/Controlled/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	85	61	0.29	1.64	1.4
-30	114	71	0.34	2.20	1.6
-25	149	81	0.39	2.90	1.83
-20	193	92	0.44	3.75	2.11
-15	245	102	0.48	4.78	2.41
-10	308	112	0.52	6.02	2.75

Test Condition: ASHRAELBP32, Static/Controlled/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	78	63	0.29	1.50	1.24
-30	106	74	0.35	2.05	1.44
-25	141	85	0.4	2.73	1.65
-20	184	98	0.46	3.57	1.88
-15	235	110	0.51	4.59	2.13
-10	297	124	0.57	5.81	2.4

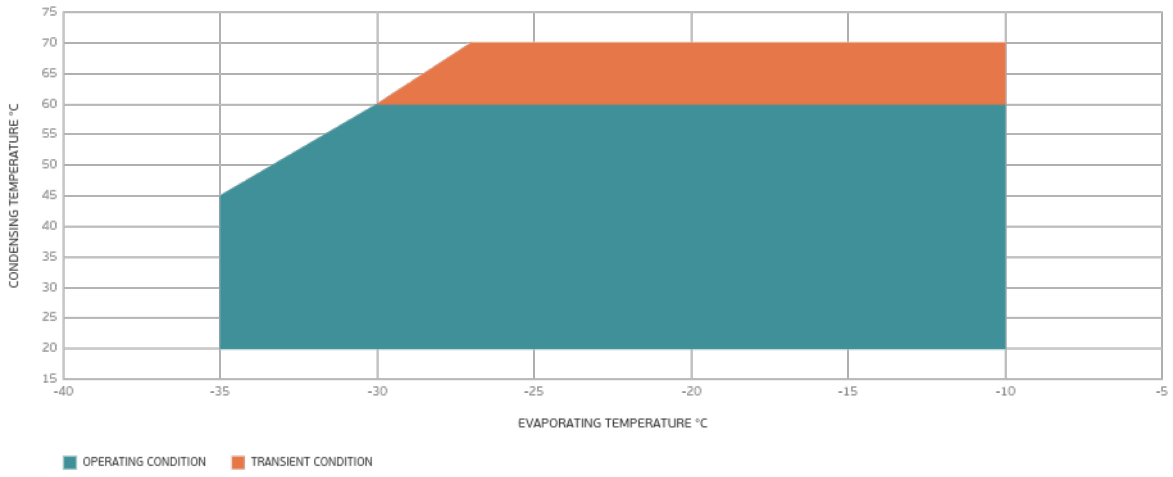
Test Condition: ASHRAELBP32, Static/Controlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

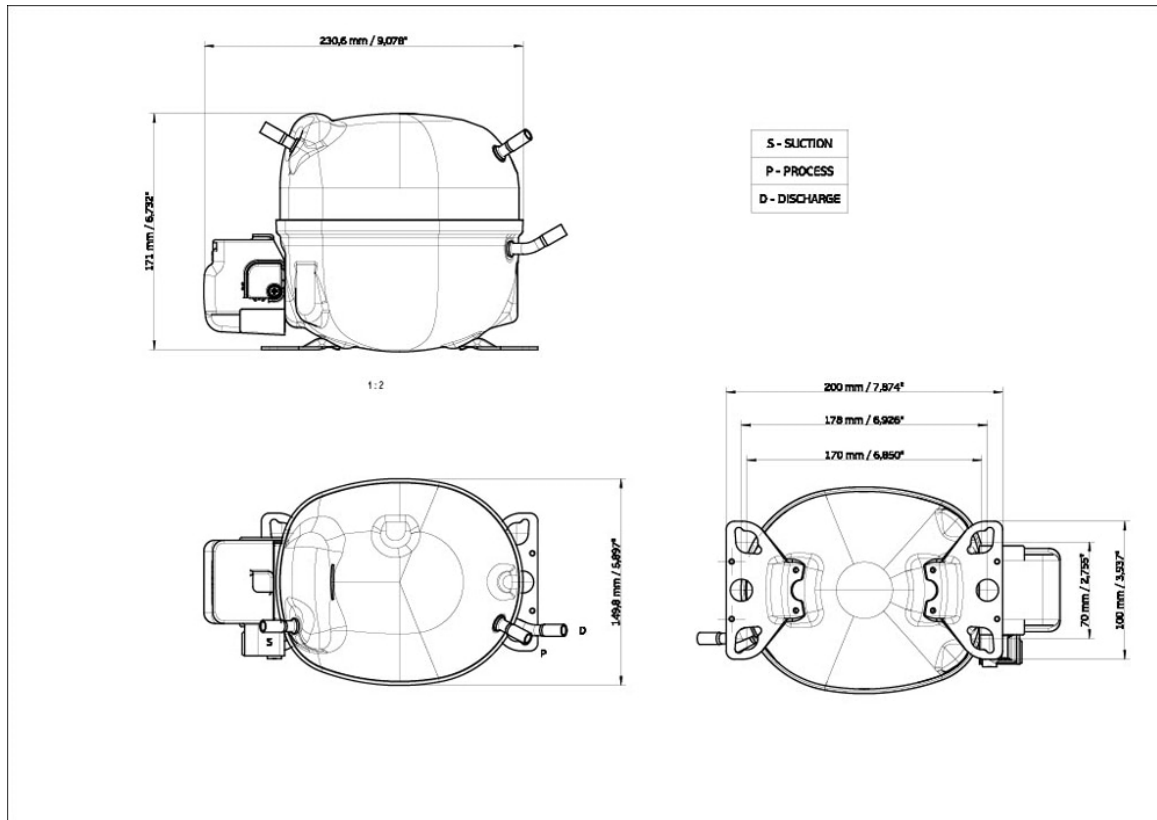
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	68	62	0.3	1.32	1.1
-30	96	74	0.35	1.86	1.29
-25	130	87	0.41	2.52	1.5
-20	172	101	0.48	3.34	1.7
-15	223	117	0.55	4.34	1.91
-10	283	133	0.62	5.54	2.12

Test Condition: ASHRAELBP32, Static/Controlled/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

