

APPROVALS



**ENGINEERING CODE**  
923HA04

**APPROVED REFRIGERANT**  
R-404A

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

**STANDARD CONDITIONS**  
ASHRAE

**APPLICATION**  
LBP

**COOLING CAPACITY**  
940 W

**EFFICIENCY**  
1.26 W/W

**MOTOR TYPE**  
CSIR

**STARTING TORQUE**  
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	20.4 cm <sup>3</sup>
Compressor Cooling	Fan
Fan Air Flow	520 m <sup>3</sup> /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	8.4 Ω at 25° C
Run Winding Resistance	1.9 Ω at 25° C

## Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	450 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	18.2 Kg
Free Internal Volume	3.3 L

## Electrical Components

	Description
Starting Device	Current relay   MTRPH-59-65
Start Capacitor	130-156 $\mu$ F / 330V
Motor Protection	External 3/4" T0748/G6

## External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	234 mm	
Connector	Internal Diameter	Shape
Suction	9.6 mm	Vertical
Discharge	6.42 mm	Vertical
Process	6.42 mm	Vertical

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	940 W	745 W	4.64 A	21.72 kg/h	1.26 W/W

Test Condition: ASHRAE, Fan, 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
-40	414	437	3.72	9.49	0.95
-35	586	509	3.91	13.48	1.15
-30	784	579	4.12	18.09	1.35
-25	1006	648	4.34	23.31	1.55
-20	1251	717	4.58	29.15	1.74
-15	1520	789	4.84	35.62	1.93
-10	1809	863	5.12	42.70	2.1

Test Condition: ASHRAE, Fan, 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
-35	532	518	3.92	12.20	1.03
-30	718	600	4.16	16.53	1.2
-25	935	683	4.44	21.61	1.37
-20	1180	770	4.74	27.44	1.53
-15	1454	860	5.08	34.01	1.69
-10	1755	954	5.46	41.34	1.84

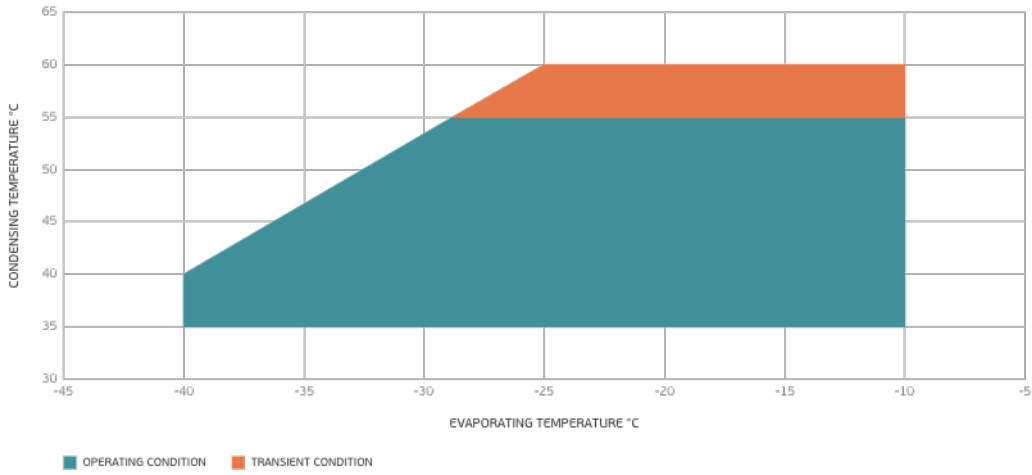
Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

### Condensing Temperature 55°C

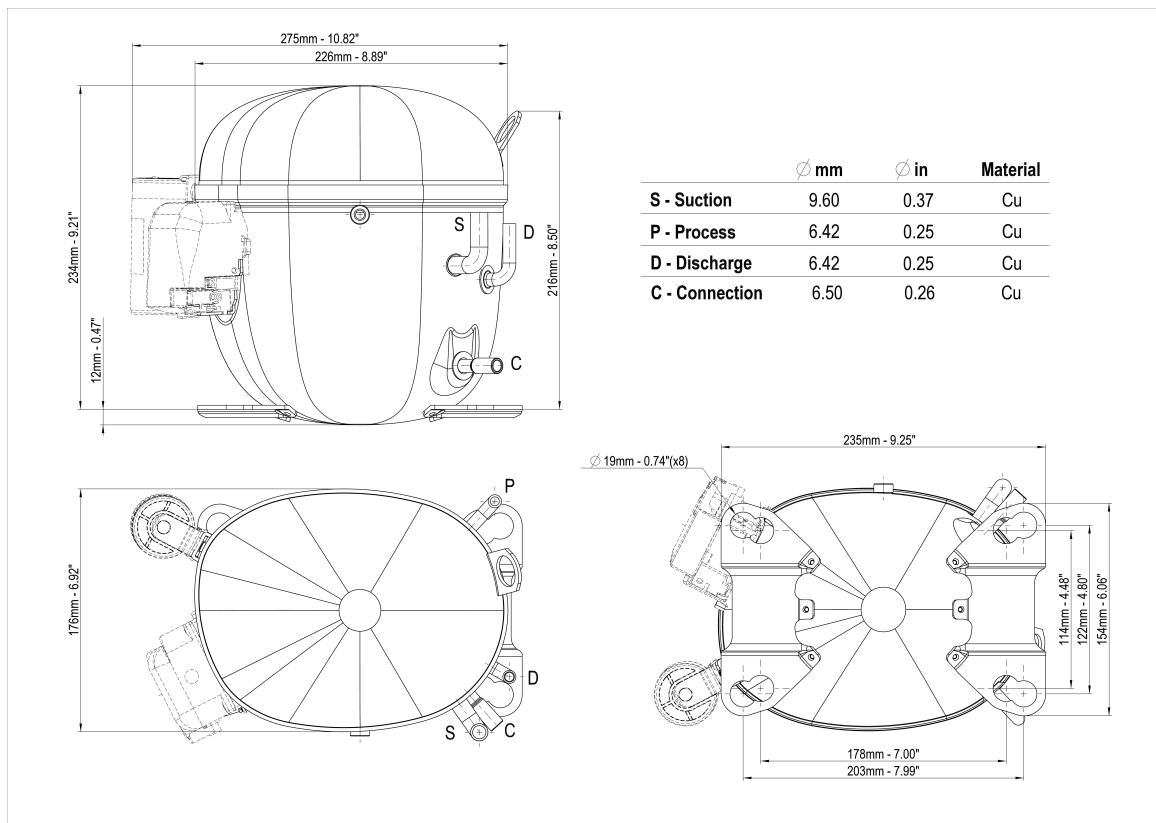
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	646	613	4.2	14.82	1.05
-25	855	712	4.53	19.73	1.2
-20	1100	816	4.9	25.51	1.35
-15	1378	925	5.32	32.17	1.49
-10	1689	1041	5.79	39.70	1.62

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

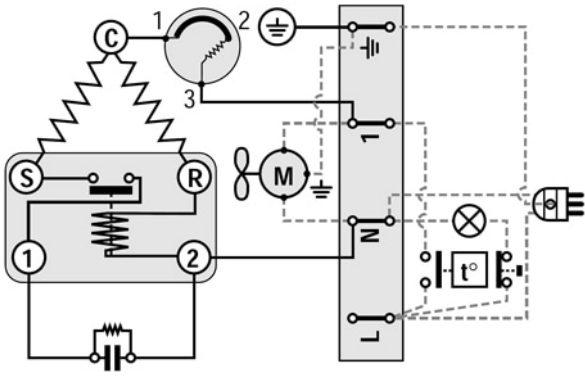
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

