MODEL
NTU6238GKV

APPROVALS

ENGINEERING CODE
925EA60

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
MBP

COOLING CAPACITY
2567 W (MBP)

EFFICIENCY
1.95 W/W (MBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	26.21 cm³
Compressor Cooling	Fan/NotControled/220
Fan Air Flow	520 m³/h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 1/2 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	-20 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	3.95 Ω at 25° C
Run Winding Resistance	1.47 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	650 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	18.1 Kg
Free Internal Volume	3.75 L

Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
CSR / CSIR Box	YES
Run Capacitor	30
Starting Device	3ARR3B10AS3
Motor Protection	15HM1963-247

External Characteristics

Base Plate	Universal
Tray Holder	No
Height	250 mm

Connector	Internal Diameter	Shape
Suction	12.77 mm	Slanted/Copper
Discharge	9.6 mm	Vertical/Copper
Process	6.42 mm	Vertical/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
54.40°C	-6.70°C	2567 W	1313 W	70.14 kg/h	1.95 W/W

Test Condition: ASHRAEMBP46, Fan/NotControled/220, Return Gas 35°C, Evaporation -6.70°C, Condensing 54.40°C, Ambient 35°C , Liquid 46.1°C, Subcooling 8.3K. 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
-20	2003	902	43.51	2.22
-15	2482	966	54.23	2.57
-10	3062	1023	67.29	2.99
-5	3739	1072	82.77	3.49
0	4511	1115	100.75	4.05
5	5375	1150	121.30	4.67
10	6327	1179	144.50	5.36

Test Condition: ASHRAEMBP46, Fan/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. 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
-20	1757	973	42.11	1.81
-15	2169	1059	52.35	2.05
-10	2667	1142	64.81	2.34
-5	3248	1219	79.56	2.67
0	3908	1291	96.67	3.03
5	4645	1360	116.22	3.42
10	5456	1424	138.29	3.83

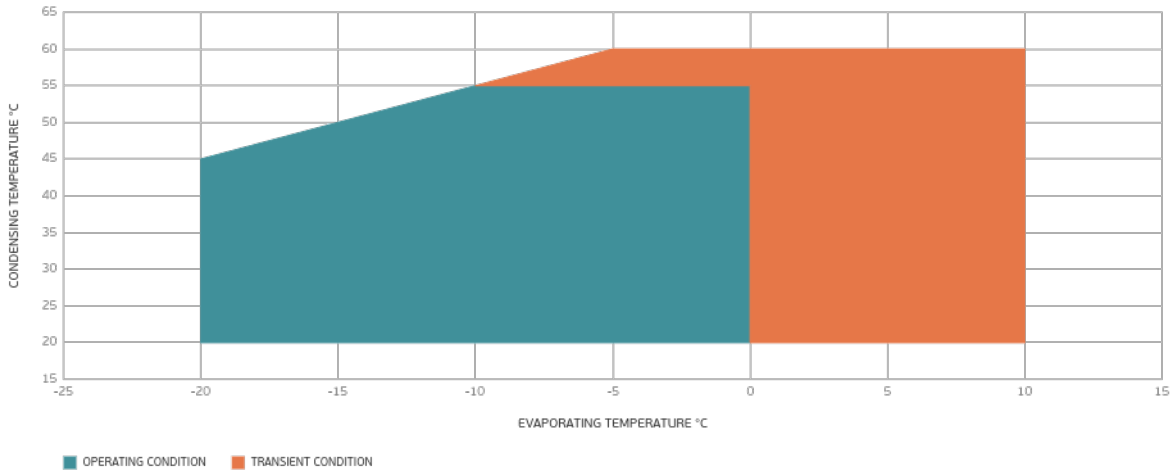
Test Condition: ASHRAEMBP46, Fan/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

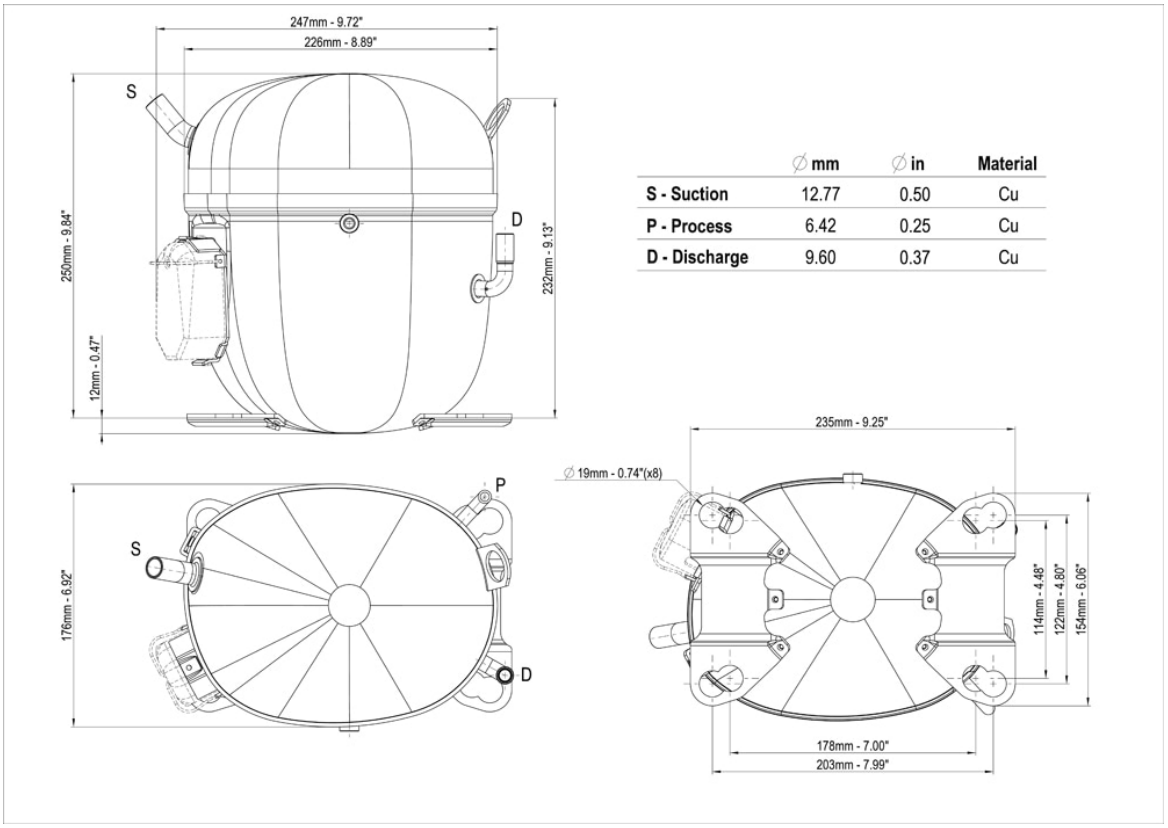
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	2231	1253	60.99	1.78
-5	2717	1351	74.95	2.01
0	3268	1447	91.14	2.26
5	3880	1541	109.64	2.52
10	4551	1634	130.52	2.79

Test Condition: ASHRAEMBP46, Fan/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data are an indication of performance based simulation.

Operating Envelope

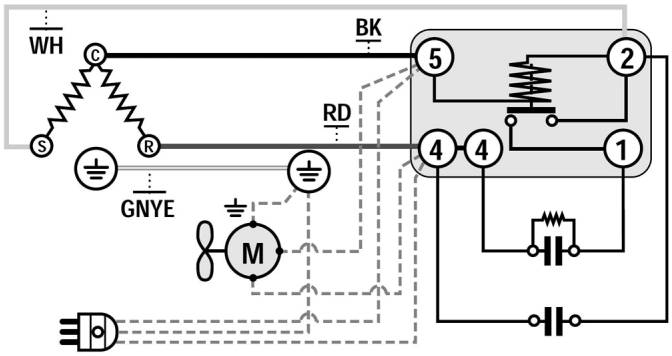


External Dimensions



	∅ mm	∅ in	Material
S - Suction	12.77	0.50	Cu
P - Process	6.42	0.25	Cu
D - Discharge	9.60	0.37	Cu

Wiring Diagram



Assembly Instructions