

**Technical Specifications of components of High Temperature Compressor Set**

Components:

1) Compressor:

Refrigerant - 245fa

Suction pipe id - 2-1/4"

Discharge pipe id - 1-3/4"

EVI pipe id - 1"

Input power source - 3-phase / 380V / 50Hz

Capacity - 68.9 KW

Input power - 21.04

W/W - 3.27

Current - 36.4A

Operating Condenser temperature: 120 °C

Test condition of rated performance - Tc-150 °C / Te- 50°C / SH-5k / SC-10k / Ta-35 °C / 50Hz

Please provide the operating envelope

Quantity: 01

2) Electrical Control Valves:

Inlet connection:7/8" ; Outlet connection: 1 1/8 " ; Electric Connector:M12 plug ;

Flow pattern: Uniflow ; Capacity:10- 100%

Quantity: 01

3) Cable assembly to expansion valve : Temperature range: -50 - +80°C

Length: 3 m ; Connector type to valve: M12 ; Connector type to controller: Loose wires

Quantity: 01

4) Programmable Controller:

Power supply:24Vac/dc (from TF20D)

Probe inputs:0 - 1V, 0 - 5V, 0 - 10V, 0 - 20mA, 4 - 20mA, NTC, PTC, DI: 10 x configurable

Digital inputs: Opto-insulated: 20 x configurable

Other outputs:0-10V/4-20mA: 2 x configurable – 0 -

10V: 4 - RS485 output: master + slave - USB output:

present - CANBus output: present - Ethernet: present

Other: Remote display output: 2 x V2IPG/VTIPG -

Real time clock: present - Flash memory: 128MB -

Connections: bayonet + screw

Power absorption:20VA max

Display:4 digits, red LED 8.5mm high  
4 digits, yellow LED 7.5mm high

Operating temperature:- 10 - 60°C  
Storage temperature: -30 - 85°C  
Relative humidity: 20 - 85% (no condensing)  
Resolution: 8bit  
Accuracy (at ambient temperature) : ±1°C  
Relay outputs: Configurable: 15 x 5A  
Quantity: 01

5) Expansion valve controller :

Case: 4 DIN Connectors: disconnectable terminal block ≤ 2,5 mm<sup>2</sup> for valve outputs and minifit connector for low voltage section

Power Supply: 24Vac/dc

Absorption: 40VA max.

Probe inputs: 2 configurable as NTC/PTC/Pt1000 2 configurable as NTC/PTC/Pt1000/4 - 20mA/5V

Valve output/s: CAN Bus and LAN

Data storing: on non volatile memory (EEPROM).

Kind of action: 1B;

Pollution grade: 2;

Software class: A.;

Rated impulsive voltage: 2500V;

Overvoltage Category: II

Operating temperature: -10 - 60 °C;

Storage temperature: -30 - 85 °C.

Relative humidity: 20 - 85% (no condensing)

Measuring and regulation range:

PTC probe: -50 - 150°C

NTC probe: -40 - 110°C

Pt1000 probe: -50 - 100°C

Pressure transducer: -1.0 - 50.0 Bar

Quantity: 01

6) HMI:

Hardware: CPU Cortex A7 528MHz,128M FLASH,  
128M DRAM RAM

Display size: 7 inch

Resolution: 800×480 TFT LCD, 16,000k colors

Interface: COM1:RS485/RS422; COM2:RS232

Storage: Support Data Storage, U Disk

Quantity: 01

7) Pressure Transducer:

2-wire transducer with 4 - 20mA.  
output and measuring range: 0 -30 bar.  
Power supply: 8-28Vdc  
female.  
2 meters  
Operating temperature: -40 - 135 ° C.  
Storage temperature: -40 - 135 ° C.  
Quantity: 03

8) Oil Separator:

Welded/Flanged: Welded  
Inlet Connection Size: 1-1/8" ODF Solder  
Outlet Connection Size: Shell OD (In.) 4  
Length: 16.38"  
Discharge Maximum: 8.28 CFM  
Pre-Charge Amount (oz.) :17  
Maximum Working Pressure: 600 psig  
Suitable for R245fa  
Quantity: 01

9) Suction Accumulator:

Inlet Connection Size:1-5/8" ODF Solder  
Outlet Connection Size: 1-5/8" ODF Solder  
Diameter: 6  
Height: 25  
Fusible Plug: No  
Tons R-22 (+40°F) : 28.5  
Holding Capacity (lbs.) 50% Charge at 40°F Liquid R-22 | R-134a : 25.8  
Holding Capacity (lbs.) 50% Charge at 40°F Liquid R-404A R-532: 23.1  
Holding Capacity (lbs.) 50% Charge at 40°F Liquid R-410A: 25.9  
Quantity: 01

10) Oil Management system:

Max. Allowable pressure: 46 bar  
Time delay alarm: 20 sec  
Rotalock adapter - 1-3/4", 12 UNF  
Quantity:01

11) Temperature sensor:

General purpose, resinated, IP67, inox steel cap "dimension  $\varnothing$ 6x30mm"

Cable:1.5m - 3.0 m

Temperature range: -40 to +110°C

Quantity: 03

12) Temperature sensor:

Heating applications, inox steel cap "dimension  $\varnothing$ 6x40mm"

Cable:1.5m - 3 m

Temperature range: -40 to +150°C

Quantity: 04