



Danfoss Optyma Plus and INVERTER Instructions

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Danfoss Optyma Plus and INVERTER



Optima™ Plus and INVERTER

Field Pressure change from AKS 32R to DST P110



Components & Tools Required:

- Personal safety equipment (Hand gloves and safety glasses)

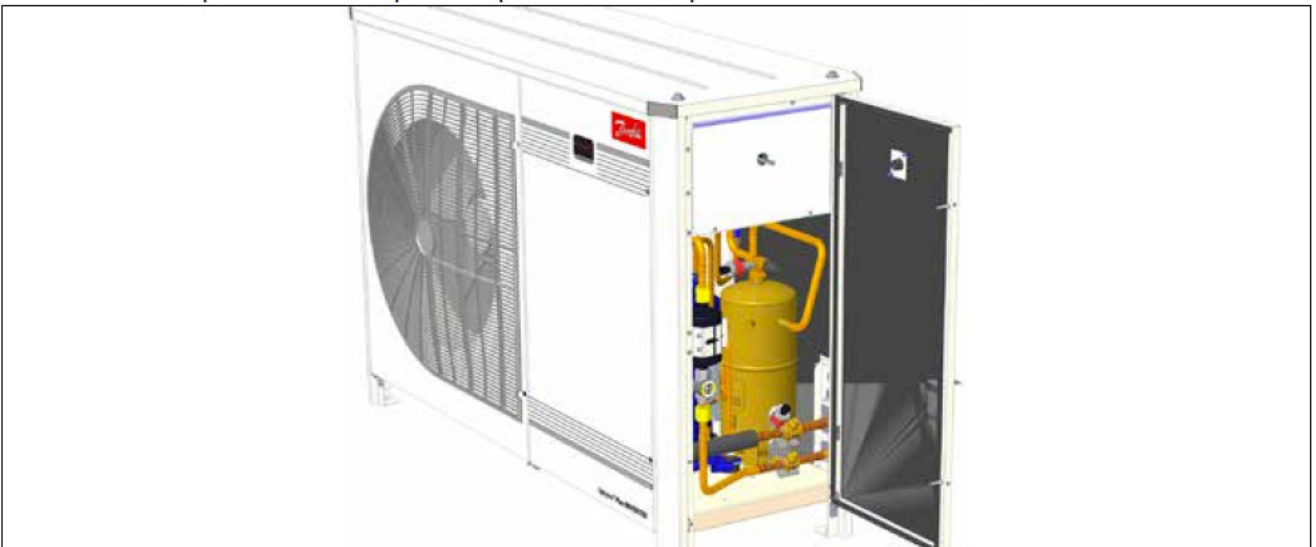
Procedure

Work should be done by electric professionals only !

1. Disconnect power supply and ensure fan motor stop before removing side and front panel. Turn of isolator switch before servicing (Rotate Anticlockwise).
2. Remove service panel screw and open front panel and service panel.

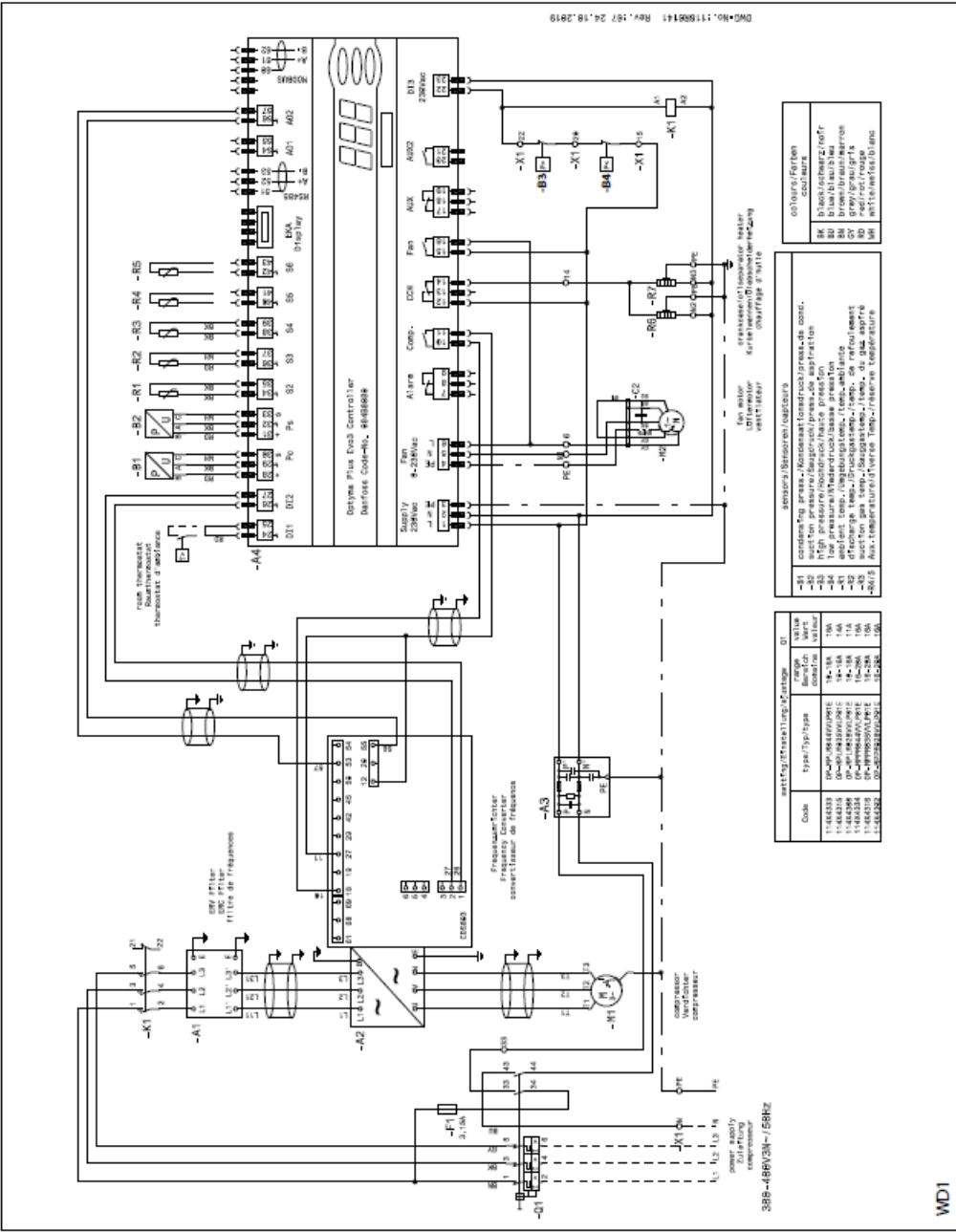


3. Rotate Rotalock (receiver) valve spindle towards clockwise direction to close the valve. Pump down / remove Refrigerant from the system before servicing pressure sensor. (Keep liquid and suction line open.)

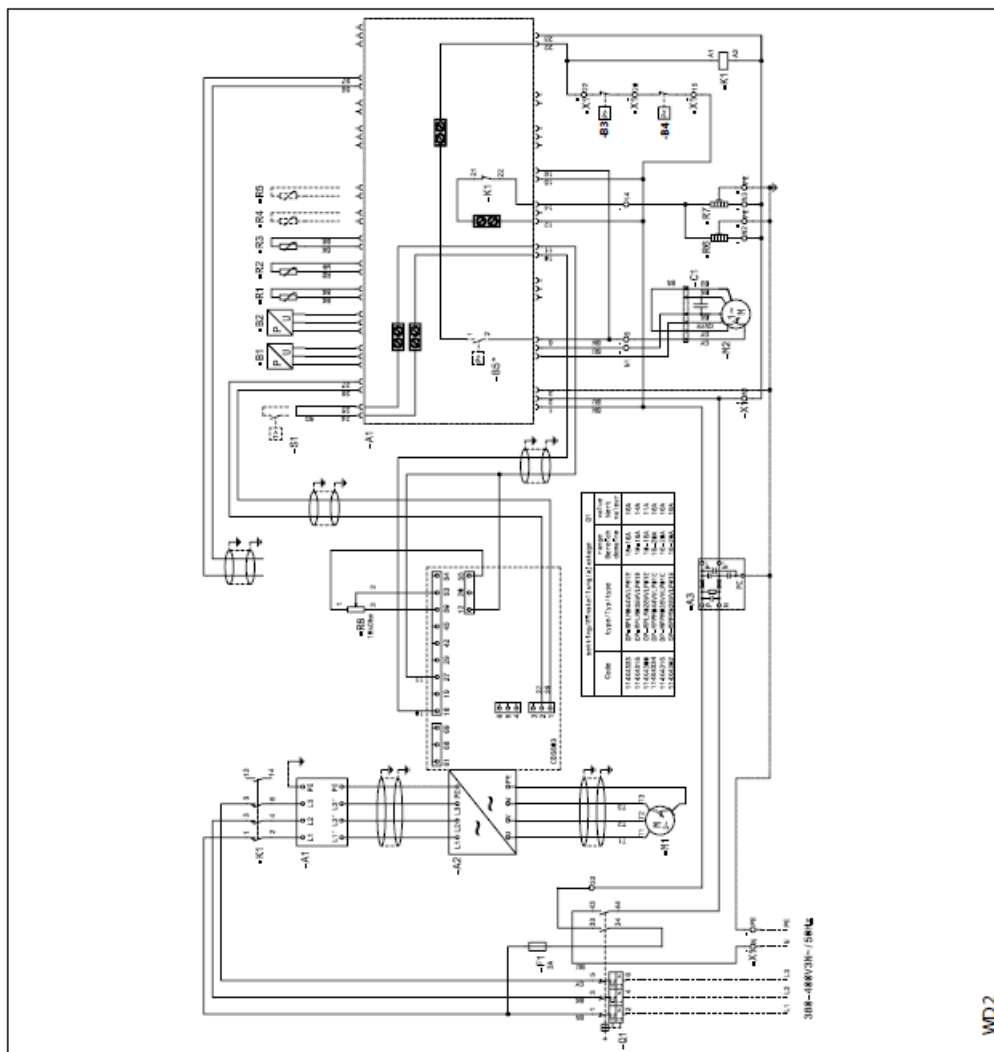


4. Remove the tie cable and wire from electrical box. Hold the connection pipe (Schrader valve) and rotate sensor anticlockwise to remove. Don't damage connection pipe and thread.
5. Now assembly new spare in condensing unit. (Torque 15Nm)
 - 075G1036(118U4021) – In Compressor discharge line.
 - 075G1013(118U4025) – in Condensing unit Suction line.
6. After assembling pressure sensor, connect the cable from P110 sensor to Optyma controller as shown wiring diagram. Use give cables comes with spare part (See Annex -A for Wiring drawing).
7. Complete the electrical connection and ensure there is no leak observed and proper electrical connection.
8. Vaccum entire units, Danfoss recommend to fill fresh refrigerants and close the service and front panel.

Annex -A: Wiring diagram



OP-MPLM028-035-044, OP-MPPM028-035-044 – Emergency wiring diagram



WD 2

- A1 : RFI Filter (Compressor)
- A2 : Frequency Converter
- A3 : RFI Filter (Controls)
- A4 : Optima™ Plus Controller
- B1 : Condensing Pressure Transducer
- B2 : Suction Pressure Transducer
- B3 : High Pressure Switch
- B4 : Low Pressure Switch
- B5* : Fan Speed Controller / Pressure Switch
- C1 : Run Capacitor (Fan)
- F1 : Fuse (Control Circuit)
- K1 : Contactor
- M1 : Compressor
- M2 : Fan Motor
- Q1 : Main Switch
- R1 : Ambient Temp. Sensor
- R2 : Discharge Temp. Sensor
- R3 : Suction Temp. Sensor
- R4,R5 : Auxiliary Temp. Sensor (optional)
- R6 : Crankcase Heater

- R7 : Oil Separator Heater
- R8 : Compressor Speed Potentiometer
- S1 : Room Thermostat (optional)
- X1 : Terminal
- Supply : Supply
- Fan : Fan
- Alarm : Alarm
- Comp. : Compressor
- CCH : Crankcase Heater
- Aux : Auxiliary

Documents / Resources

