

Troubleshooting Flowchart

Compressor Fails To Run When Needed

Version 1.5

Can you connect to the compressor using the Monitoring Software?
(Check cable connections between I/O board and computer, ensure correct Com Port Number)

CAUTION: Please refer to the appropriate section of the service manual for the following procedures and observe all necessary safety measures.

Is there a fault displayed?
 Is the interlock open?

Can you clear the fault?
 (Set demand to 0%)
 Can you close interlock?
 (Closed Circuit at I/O)

Is there a demand signal? Check Compressor Control Mode

Does the backplane have power? Check 250VDC (HV- & HV+) and 24VDC

Check all other backplane voltage test points. All ok?

Do you have the rated AC Voltage on all phases $\pm 10\%$?

Does compressor run without fault reoccurring?

Can the fault be reset by cycling the power?

Cycle Power or Reset Demand to 0%. All ok?

Check the demand input (Thermistor, BMS, Analog). All ok?

Are all wires connected, any hot spots detectable?

Consult appropriate chart in service manual, fix problem, all ok?

Do you have the appropriate DC Voltage on the DC+/- Bus?

Check mains, restore power unless breaker tripped. All ok?

Problem Solved
 Contact Turbocor

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Check Setpoint
 Fix then return to Start

Fix then return to Start
 Contact Turbocor

Problem Solved
 Contact Turbocor

Verify the DC-DC Converter and Fuse
 Verify the SCR's and Softstart Board

Problem Solved
 Return to Start

