

3.6 Special Operating Notes

During standard operation, the High Pressure switch will reset when the head pressure drops below approximately 425 PSI (2.9 MPa, 29 bar), and Vortex Dual will restart automatically.

4.0 Maintenance

With minimal but important maintenance, Vortex Dual can provide many seasons of reliable service. After each use, clean Vortex Dual with a damp cloth to remove dirt and oils.



Do not use gasoline or other hazardous solvents to clean Vortex Dual; this can damage the plastic enclosure. Standard household detergent or isopropyl alcohol may be used, but do not allow liquid to penetrate the outer case.

Make sure the inlet and discharge ports are protected during transit and storage; keep the inner diameter and the outer threads clear and clean.

NOTE: For best results, leave the filter connected to the inlet port, and change the filter regularly.

5.0 Troubleshooting

| PROBLEM | CAUSE | ACTION |
|--|---|--|
| Vortex Dual will not turn on; compressor does not start | <ol style="list-style-type: none"> 1. Power cord is not attached 2. No voltage at receptacle 3. Circuit breaker has opened 4. Discharge pressure is too high; HP switch has opened 5. Electronics failure in motor | <ol style="list-style-type: none"> 1. Attach power cord 2. Verify voltage at job site 3. Identify cause of breaker activation, rectify and reset 4. Reduce pressure; rotate V2 to Purge, then back to Recovery 5. Factory service required |
| Compressor starts, but falters within minutes; pressure indication on HP gauge is high | <ol style="list-style-type: none"> 1. Recovery tank valve is not open 2. Discharge hose blocked 3. Air in system/tank | <ol style="list-style-type: none"> 1. Open tank valve 2. Check and clear blockage 3. Bleed air from system/tank |

| PROBLEM | CAUSE | ACTION |
|---------------------------------|--|--|
| Compressor stops intermittently | <ol style="list-style-type: none"> 1. Vapor pressure of refrigerant in tank is close to HP trip point 2. Thermal overload switch in compressor is activating | <ol style="list-style-type: none"> 1. Reduce tank temperature 2. Reduce amount of liquid being pumped; let machine cool before proceeding |
| Vortex Dual overheats | <p>Excessive head pressure, due to:</p> <ol style="list-style-type: none"> 1. High ambient temperature 2. Restricted discharge hose 3. Air in recovery tank | <ol style="list-style-type: none"> 1. Reduce tank temperature 2. Check and clear restriction 3. Bleed air from tank |
| Recovery process too slow | <ol style="list-style-type: none"> 1. Head pressure is too high 2. System refrigerant is frozen 3. Compressor seals are worn | <ol style="list-style-type: none"> 1. Reduce tank temperature or change tanks 2. Interrupt process to allow ice to dissipate 3. Rebuild compressor with service kit — contact wholesaler for assistance |

6.0 Service

Vortex Dual uses electrical components recognized by international safety agencies or components that have been specially designed for this application.



Do not change any of these components, as it could compromise safety. All service work must be performed at an INFICON-approved facility to maintain the safety rating and the warranty.

If defective, do not return Vortex Dual directly to the factory. For technical assistance or service information, contact INFICON or your wholesaler.