

INTEGRA COMPRESSOR SYSTEMS

STANDARD FEATURES FOR INTEGRA SERIES FRAMES:

- A Programmable Logic Controller with display to control compressor functions with an integrated hour meter to record compressor system operating hours.
- A high temperature sensor with audible alarm, shutdown and fault indicator on PLC.
- A low oil pressure switch with audible alarm, shutdown and fault indicator on PLC.
- An “Auto-Off-Manual” three-position selection switch selects the type of operation.
- The motor operates via a magnetic starter with thermal overload protection.
- Final pressure transmitter for pressure actuated automatic start and shutdown.
- A gauge set with 2 ½” oil-filled, dual scale gauges monitor all stages of compression, final pressure and oil pressure.
- CRN certified Automatic Condensate Drain System to drain accumulating compression liquids during operation and at shut down for disposal, complete with condensate reservoir.
- The complete purification system and the replacement cartridges are CSA certified under the Jordair certificate number LR77799
- All filter chambers rated for 6300 PSIG made in hard anodized corrosion protected 7075-T6 alloy for superior strength and with a 4 to 1 safety factor.
- Final oil and water separator auto-drain cycle counter
- Safety relief valves after each stage of compression and the final oil/moisture separator.
- CRN certified check valve after the final separator stops back flow through the filter.
- CRN certified pressure maintaining valve set at 1,800 psig to maintain pressure in the filter and optimize the filter cartridge life.
- Fully-integrated Compressor, Storage and Fill Station with sound-dampening insulation and panels, and independent rubber anti-vibration mounting of the compressor/motor.
- All electrical components are CSA approved and the complete compressor system is certified for use in Canada under the Jordair certificate number LR77799.
- B.C. Boiler and Pressure Vessels contractors licence No. MA-2007
- The breathing air quality meets/exceeds the current CSA standard CAN3-Z180.1-00.

INTEGRA COMPRESSOR SYSTEMS

ASME AIR STORAGE SYSTEM

- Two (2) ASME 7000 PSIG storage cylinders, 619 ft³ each at 7000 PSIG.
- A total of 1,038 ft³ of stored air at 6000 PSIG.
- Panel mounted pressure gauges for each storage cylinder.
- Cylinders are complete with isolation and cascade valve, drain valve, interconnecting manifold, gauge and safety rupture disc.
- Cylinders are mounted and secured in a vertical rack in the centre of the Integra frame.
- The complete system is fully assembled and pressure tested.

ASME AIR STORAGE SYSTEM AVAILABLE OPTIONS:

- **Model J-8BA711** additional ASME cylinders, the Integra can be supplied with up to 6 cylinders, 4 within the centre section and 2 within the fragmentation station behind gauge panel area.

FILL STATION STANDARD FEATURES:

- A Fully enclosed SCBA containment system designed to contain a SCBA cylinder failure or ruptured SCBA fill hose.
- The Jordair “D” series fill stations are the safest filling stations offered in Canada for the containment and recharging of SCBA cylinders.
- Sliding, ½” plate steel, front access door that is held in the closed position by a spring loaded pin type door lock.
- Heavy wall schedule 80 steel 8” pipe used to contain the SCBA cylinders within the recharge station.
- Anti-abrasion collars and liners in the SCBA containment sleeves to protect the exterior of the SCBA cylinders from abrasion damage during the filling process.
- 6000 PSIG inlet shut off valve to isolate the recharging station from the compressor and air storage cylinders.
- Panel mounted SCBA cylinder shut off valves for 2216 or 4500 PSIG fill positions.
- One anodized aluminum, self-venting and adjustable regulator with operating pressures from 0 to 6000-PSIG inlets and 0 to 6000 PSIG outlet pressures.
- Self-venting regulator comes complete with 4” inlet and discharge pressure gauges, gauges are rated for 7500 PSIG.

INTEGRA COMPRESSOR SYSTEMS

- 2½" pressure gauges for 4500 PSIG filling, installed for each fill outlet to indicate SCBA recharge pressure.
- SCBA recharge assemblies are supplied for two 2216 or 4500 PSIG filling.
- A CRN certified adjustable safety relief valve is set for 2400 or 4700 to protect the filling of the 2216 or 4500 PSIG SCBA.
- The fill station will not recharge the SCBA cylinders when the door is in the open position.
- All recharge hose assemblies are equipped with restriction orifices set to the CSA Z94.4 rate of 300 PSIG per minute, to control filling speed. When a cascade system is used, this prevents rapid SCBA cylinder expansion and significant pressure drop due to the compression heat created during a rapid refilling situation.
- The fill station is manufactured to CSA regulation Z180.1-00 and CSA Z94.4
- All pressure piping manufactured to ASME code B31.1 and B31.3
- As per NFPA 1901 regulation the manufacturer of the enclosed air refill station tested a standard production model. The test included pressurizing a 1-hour SCBA cylinder rated at a gauge pressure of 4500 PSIG (31,026 kPa) to failure. The testing proved that the air refill station is capable of containing all fragments of a failed cylinder to protect the operator and not rupture cylinders in adjacent chambers and proved that the venting provisions are adequate to direct the concussive release of air away from the operator.
- The test results are certified by an independent Canadian third-party testing organization. A copy of the Powertech Labs Inc. test certificate is on the Jordair website www.jordair.ca.
- CSA and BCB&PV approval of the complete compressor electrical and pressure system.

FILL STATION AVAILABLE OPTIONS:

- **Model J-FSFP-** (*) * Specify the number of additional fill points for dual filling 2216 or 4500 in any recharging holder.
- **Model J-FFS-** (*) **C** * specify the number of cascade control valves included in the fragmentation protecting station control panel.
- **Model J-RFVG-5** shut off valve and gauge for remote filling line.
- **Model J-SRC-3** SCUBA cylinder recharging option within the fragmentation protecting station, replaces a SCBA holder and can accommodate SCBA.
- **Model J-ACPV-5** Pneumatically controlled three-bank cascade system.

JORDAIR IS ISO 9001:2008 CERTIFIED

JORDAIR – "RELIABILITY & SAFETY" – BAUER

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