



Simplex Industrial Oil-Less Scroll Tank Mounted Air System

System Description:

The *Global Vac & Air* Oil-less Scroll Industrial air system is built as one scroll compressor, control panel, and aftercooler mounted on a horizontal tank. A refrigerated dryer can optionally be included to achieve a pressure dew point of 38°F. The system is completely tested before shipment and is built with a single point connection for air discharge, drainage, and system power. The complete assembly is finished in GLOBALVAC white. The system is piped, wired and factory tested prior to shipment.

Oil-Less Scroll Compressor Assembly:

The system includes one air cooled oil-less scroll compressor rated for continuous duty. The compressor is belt driven and requires absolutely no oil. All interconnecting wiring, plumbing, and vibration isolation pads are included. The assembly contains:

- TEFC NEMA Electric motor
- Integral cooling fan and aftercooler
- 5-micron inlet filter with polyester element
- Exhaust high temperature switch
- Inlet & outlet flex connector
- Adjustable motor mounting base to achieve proper belt tensioning

Air Receiver:

The horizontal air receiver is ASME coded and rated for a minimum of 200 PSIG. Additional receiver size options are available. The receiver assembly is equipped with the following items:

- Sight glass to check for excess liquid
- Manual drain valve
- Pressure Gauge

Control Panel:

The system is controlled by a UL labeled simplex mounted and wired control panel.

The control panel is built with:

- 120V control transformer with CB protection for primary and secondary circuits
- Hand/Off/Auto Selector switch
- Door mounted system disconnect
- Door mounted Emergency Stop button
- Pressure switch for auto operation
- Hour meter
- UL508A listed NEMA 12 enclosure
- Alarms for high temperature and motor overload
- Panel mounted pressure gauge

Optional Refrigerant Air Dryer:

A non-cycling refrigerated air dryer can optionally be tank mounted with the compressor providing a 38°F pressure dew point. A separator and drain valve are incorporated into the dryer and tied into the system drainage to facilitate single point connection for drainage. The dryer uses CFC free R-134a refrigerant. The optional dryer includes an upgraded control panel to operate the dryer in one package. Additional options include a bypass valve for serviceability, after filters, pressure regulators, zero-loss drain valves and any other air handling products your application needs.



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Tank Mounted Air System**

Model Number*	Pump motor rating (HP)	Maximum Pressure (PSIG)	System capacity @ 100 PSIG (SCFM)**	Receiver / Orientation
CH03A-XXD-06H	3	145	7.7	60 Gallon Horizontal
CH05A-XXD-06H	5	145	13.3	60 Gallon Horizontal
CH05A-XXD-08H	5	145	13.3	80 Gallon Horizontal
CH07A-XXD-12H	7.5	145	17.7	120 Gallon Horizontal
CH07A-XXD-20H	7.5	145	17.7	200 Gallon Horizontal
CH10A-XXD-12H	10	145	25.4	120 Gallon Horizontal
CH10A-XXD-20H	10	145	25.4	200 Gallon Horizontal
CC03A-XXD-06H	3	115	8.7	60 Gallon Horizontal
CC05A-XXD-06H	5	115	15.1	60 Gallon Horizontal
CC05A-XXD-08H	5	115	15.1	80 Gallon Horizontal
CC07A-XXD-12H	7.5	115	22.3	120 Gallon Horizontal
CC07A-XXD-20H	7.5	115	22.3	200 Gallon Horizontal
CC10A-XXD-12H	10	115	31.1	120 Gallon Horizontal
CC10A-XXD-20H	10	115	31.1	200 Gallon Horizontal

*XX in the model number is a placeholder for system voltage. 43=460V/3/60Hz, 23=230V/3/60Hz, 53=575V/3/60Hz

** All data shown assumes 60 Hz electrical supply