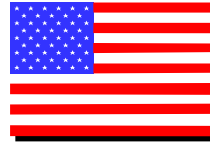


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HYPRES EQUIPMENT HERCULES III

COMPRESSOR • AIR MANAGEMENT • CLASS 2 FILL STATION • AIR STORAGE ALL IN ONE
CABINET
5000 PSI

Model	Charge Rate	Pump	H.P Rating	Stages/Del Pressure	Power	Filter System
HR-5000-NA3 E1	9	NA9	7.5	3/5000	230/460/1 PH	PO25
HR-5000-NA3 E3	9	NA9	7.5	3/5000	230/460/3 PH	PO25
HR-6000-NA4 E1	12	NA12	10	4/5000	230/460/1 PH	PO43
HR-6000-NA4 E3	12	NA12	10	4/5000	230/460/3 PH	PO43
HR-7000-NA4 E1	16	NA18	10	4/5000	230/460/1 PH	PO60
HR-7000-NA4 E3	16	NA18	10	4/5000	230/460/3 PH	PO60
HR-8000-NA4 E3	18	NA18	15	4/5000	230/460/3 PH	PO60

6000 PSI

HR-6000-NA6 E1	10	NA12-6	10	4/6000	230/460/1 PH	PO43-6
HR-6000-NA6 E3	10	NA12-6	10	4/6000	230/460/3 PH	PO43-6
HR-7000-NA6 E1	14	NA18-6	10	4/6000	230/460/1 PH	PO60-6
HR-7000-NA6 E3	14	NA18-6	10	4/6000	230/460/3 PH	PO60-6
HR-8000-NA6 E3	16	NA18-6	15	4/6000	230/460/3 PH	PO60-6

Hypres Equipment HERCULES III system consists of an American made compressor, Class II containment 3 position fill station, air management panel and DOT air storage, on a common frame, enclosed in a single cabinet. Dimensions are approximately 97" W x 34" D x 66" H.

Compressor:

Consists of a 3 or 4 stage, 9 to 18 SCFM charge rate with a pressure lubricated crankcase. Oversize double taper roller bearings on the crankshaft, aluminum high performance rods with needle bearings. A low pressure, high capacity oil pump and spin-on automotive oil filter.

Electrical System:

230/460 VAC, TEFC electric motor with magnetic starter and overload protection. Electronic control system a Siemens Logic1 24 VAC programmable "Smart Relay".

Class II Containment:

(Certified by a licensed professional engineering testing firm to meet NFPA 1901.)

3 position fill enclosure with safety interlock and tilting cylinder container making loading and unloading easy. Teflon slides on cylinder drawers protect cylinders from scuffing.

Air Management:

Stainless Steel Panel, gauge and valve for each storage cylinder (4), adjustable regulator, inlet & outlet

gauges, valve and gauge for each fill location (3) and remote fill port.

Air Storage:

Four (4) DOT 6000 storage cylinder cascade system, complete and connected to the Fill station, mounted on the rear of the cabinet. Optional ASME storage available

Specify cutoff pressure, voltage, phase and fill adapter needs.

Options:

Electronic Carbon Monoxide Monitor

Electronic Moisture Monitor

ASME 4 cylinders replacing DOT 4 cylinders

Purification System:

SCF treated

PO25

25,000 Cubic Feet

PO43

43,000 Cubic Feet

PO60

60,000 Cubic Feet

Hercules Model Compressor System

The Hypres Equipment HERCULES II American made compressor package consists of an American compressor, DOT air storage, class 2 containment 2 or 3 position fill station and air management panel mounted on a common frame and enclosed in a high-quality powder-coated cabinet.

COMPRESSOR: Made in the USA

The compressor consists of a North American, American made compressor pump with a pressure-lubricated crankcase and radial design. Also a crankshaft-driven oil pump, and a spin-on, automotive-style oil filter providing from 9 to 18 CFM I. The unit is driven by a 230/460 VAC, 60 Hz. TEFC electric motor. The maximum operating pressure of the system is 6000 PSI

ELECTRICAL SYSTEM

A Siemens 24 VAC electronic control system operates the following: compressor safety devices which include high temperature shutdown switch, low oil pressure shutdown switch, high pressure shutdown switch, relief valves on all interstages as well as final stage, automatic condensate drain valve system with auto timer. On/off controls and enunciator lights to inform of system failure mode and emergency stop control.

COMPRESSOR CABINET

Powder-coated, forklift access, Grade 8 fasteners, Southco Lift & Turn compression fasteners and glass reinforced nylon hinges, removable access panels for maintenance, louvered front panel to facilitate system cooling and sound-dampening insulation. One side, rear and top panels are expanded metal to give maximum airflow for maximum cooling.

FILTRATION

The filtration system will provide Grade 'E' air as defined by CGA Pamphlet 7-1.1 and consists of cartridge type filter system. System will process up to 60,000 cubic feet of air between cartridge changes, this allows for approximately 50 hours of running time between cartridge changes. 33" Filter housings and one mechanical separator housing are constructed of hard-anodized high strength aluminum designed for a burst pressure of not less than 4 times the operating pressure of 6000 PSIG, which is 24,000 PSI. System is also provided with a high efficiency moisture separator connected to the automatic drain system to further enhance cartridge life. A pressure maintaining valve and a check valve are provided to assure maximum cartridge performance. Cartridges are removable without tools and does require any disassembly. A bleed valve is also provided to allow cartridge replacement. System will not operate without the cartridges installed and cartridges cannot be installed upside down.

STORAGE:

Storage is accomplished with 4 DOT 6000 PSI cylinders with CGA702 valves and over-pressurization protection rated for 6000 PSIG service and mounted vertically. Storage manipulation is provided for with valves furnished with the fill station control panel. Each cylinder is equipped with a valve and overpressure protection device. All tubing is ¼" 304 stainless with .049 wall thickness.

FILL STATION/CLASS 2 CONTAINMENT, 2 CYLINDER FILL:

- Stainless Steel Gauge Panel with:
 - Gauge & Soft-seat Valve for each DOT cylinder (4)
 - Gauge & Soft-seat Valve for each fill position (3)
 - Adjustable Regulator, (0-6000 PSI) with inlet & outlet gauges
 - Regulated remote fill outlet with gauge and CGA fitting
 - Cascade refill through the regulator
 - Remote fill gauge, panel valve and CGA adapter

Cylinder Fill Enclosure, 5,000 PSI

The cylinder fill enclosure fills one or two or three cylinders at a time. This enclosure provides increased safety during the fill process, only operating when the door is closed and locked. (Reference CGA pamphlet G-7-1989, Compressed Air for Human Respiration, Section 7 and NFPA 1901-71, 1999 Edition, 23.9 thru 23.9.4.2).

Featuring a ½" thick steel door with a safety interlock and a steel tilting cylinder container which makes loading and unloading easy. Teflon slides on the steel cylinder holder protect cylinders from scuffing. Fill hoses are designed for easy connection and inside the enclosure for increased safety.

Safety Control System with interlock, Door locking bar ½" thick, (manual). Fill drawer opens to 37° maximum. Designed to contain the destructive force of accidental cylinder rupture or hose failure, allowing the air blast to be vented quickly and in a direction away from the operator.

The construction of this unit consists of an inner drawer of 1/4" steel plate on 4 sides with an additional 1/4" plate door to provide ½" protection at the front. The outer cabinet is 1/4" steel plate on four sides, this gives ½" steel protection on all four sides. Allowing the safety protection you need in a cylinder containment.

A safety interlock prevents SCBA or SCUBA filling unless the front access door is completely closed and locked in place. All air control components are located inside the compartment.

The carriage design "tilts" toward the operator whenever the door is opened. This facilitates loading and unloading cylinders and minimizes operator fatigue.



**Fabricated by an ISO 9002 Company, Laser Cut, Robot Welded and Powder-Coated.
NFPA 1901-71, 23.9.1-4 CERTIFIED BY A LICENSED PROFESSIONAL ENGINEERING TESTING FACILITY.**