

MEDICAL AIR PLANT - BRITISH STANDARD



DESCRIPTION

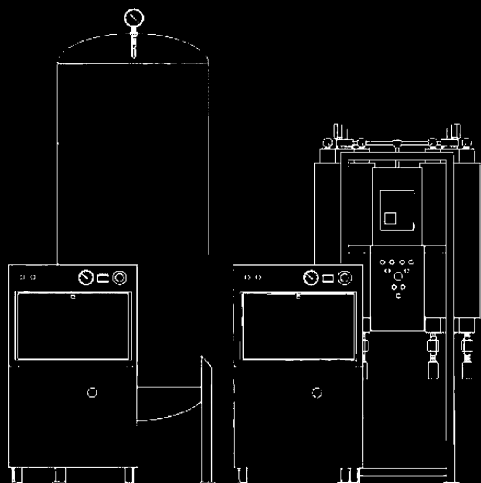
The PRECISION CPX Medical Air Plant provides a centralized source of Medical Air available in simplex to multi pump configurations dependant on individual requirement.

Specific Benefits Include:

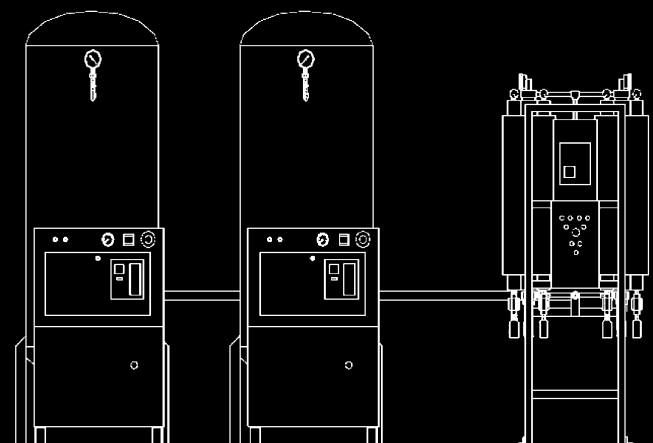
- Fully complies to HTM2022, HTM02-01, C11 BS EN 737
- CPX® Branded Solid British design
- Control and highly visible indication panel
- All interconnecting pipework is included
- Outlet pipework for connecting to the pipeline
- Anti vibration mounts on all pumps
- Isolator to each pump unit as standard
- Alarm and BMS outputs for remote status indication
- 400Kpa, 700Kpa and 1000Kpa output versions available
- All settings are factory set and verified with Certificates of Inspection
- Each plant has a full warranty of 12 months from its commission date
- All plant is manufactured under strict Quality Control procedures to ISO 9001:2000



SINGLE VESSEL PLANT



DUPLEX VESSEL PLANT



AIR COMPRESSOR MODULE

The compressor module comprises of the specified number of compressors and relevant control panels. Each compressor unit is chosen for its reliability and economical operation.

The compressor units are oil lubricated, screw type, air cooled, air end directly driven by a 400v, 3ph, 50Hz TEFC electric motor coupled to an air blast after-cooler with auto drain.

Options include alternative compressor formats designed to suit customer requirements, acoustic canopies to reduce noise emissions and rotary screw compressor modules.

Compressor Starter Panels

Each compressor requires its own starter panel which incorporates contactors, overloads, ammeter and a digital hours run meter.

The unit indicates:- Mains Power On, Control Circuit Failed (Plant Fault), Overload Tripped (Plant Fault), Failure to Respond (Plant Fault), High Temperature (Plant Fault).

The panel also provides BMS contacts for a compressor running signal.

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Pressure Vessel

All vessels are vertical mounted and constructed to BS5169 or EN286. The vessel comprises of a pressure relief valve fusible plug, pressure gauge, and auto drain with manual bypass and inspection holes to provide full internal inspection.

One coat of self-etching primer and two coats of white non-cell gloss finish protect the vessel.

Duplex Filter Dryer Module

Two individual subassemblies are formed to make the module, each assembly comprises of :- Pre filter - particle removal down to 1 micron
Coalescing Filter - particle removal down to 0.01 micron, Dryer – twin column heatless air regenerated desiccant dryer, Dust Filter – particle removal down to 1 micron, with active carbon element to remove vapors hydrocarbon odors.

Dryer control panel consisting timing mechanism, economy circuit for regeneration, dew point sensor, dryer selector switch and auto changeover circuit for each dryer. The panel also displays which dryer is selected normal and failed indications.

A duplex filter/pressure regulating unit is fitted to the assembly, it comprises of sterile filters and non relieving pressure regulators which regulate the output pressure of the plant to 4 Bar (7 Bar optional). The whole assembly requires a separate 230v, 1ph, 50Hz power supply.)

Compressor Starter Units

Operate their respective compressor only and are designed such that all safety interlocks inhibit plant operation until manually reset by means of a reset button. Isolators are interlocked with covers and circuits protected by circuit breakers.

Each panel includes: - Industrial Grade Ammeter to BS89, Digital Total Hours run counter, Mains Supply On Indicator.

Indicators display: - Control Circuit Failed (Plant Fault), Overload Tripped (Plant Fault), Failure of Compressor to Respond (Plant Fault), After cooler outlet air temperature high (Plant Fault).

Plant Control Panel

The plant control panel controls the operation of the whole system and ensures that it matches demand with compressor selection. It ensures that each compressor is run equal to maximize compressor life. The panel incorporates a central control, which can operate up to four compressors; a pressure transducer controls the cut in and cut out settings of the compressors.

The unit displays: - Mains Supply On, Pump Called For, Pump Operating, Pressure (digital display), Plant Service.

The panel incorporates the plant to alarm interface which displays and provides volt free contacts to a centralized alarm system as well as BMS contacts the following: - Plant Fault, Plant Emergency, Reserve Cylinder Low, Pressure Fault.

Service and Maintenance

Throughout the UK and worldwide our approved team of service and maintenance engineers provide immediate technical support.