
ABOUT US

Alcon Meditech is an Engineering company in the field of healthcare. We expertise in the designing of Medical Compressed Air Systems for various applications in the field of healthcare. Our tailor-made designs meet the specific flow requirements, pressure requirements, air quality etc. to fit in the space available with clients.

GENERAL

Compressor system is designed to provide medical quality air for hospital and medical institutions. Each system is completely tested before shipment and includes:

- Multiple oil-less reciprocating air compressors and associated equipment
- Air receiver
- Refrigerated air dryers, cyclone separator
- Set of Air Filters.

All interconnecting piping, wiring, and vibration isolation pads are included with the system.

OIL-LESS COMPRESSOR PUMP

Each compressor shall be belt-driven reciprocating, Single- Stage (1-5HP), Two-Stage (7.5-15 HP), air-cooled oil-less design with no oil needed for operation.

Pistons are constructed of a heat resistant composite material.

Tried and Tested technology over the years and all-over the world.

AIR RECEIVER

Receiver of 200 Liter to 3000 Liter water capacity available. Different volumes of air could be stored in reservoirs depending upon storage pressure. For example a 1000 liter water capacity reservoir can store appx. 8000 liter of compressed air at 8 bar. The tank shall be equipped with:

- A pressure gauge and a safety relief valve
- An automatic electronic tank drain with manual override

REFRIGERANT AIR DRYERS

Required to provide Moisture free / Dry air. Electronic Refrigerant Dryers contains components like Air Exchanger, Evaporator, Condenser, cyclone separator, Auto Drain Valves etc. to ensure moisture free air.

FILTRATION, PRESSURE REDUCTION

Each filter/dryer/regulator assembly shall be plumbed with bypass valves to enable service without disrupting air flow to the facility. The filtration systems typically consist of two stages of filtration.

- Set of air filter installed before intake line of hospital to achieve bacteria free air.
- A set of pressure reducing valves with pressure gauges shall be installed downstream of the final filters and adjusted to an outlet pressure of 5 bar.

DISPLAY CONTROL SYSTEM

The display control system provides systematic and safe operation and display. The control system includes:

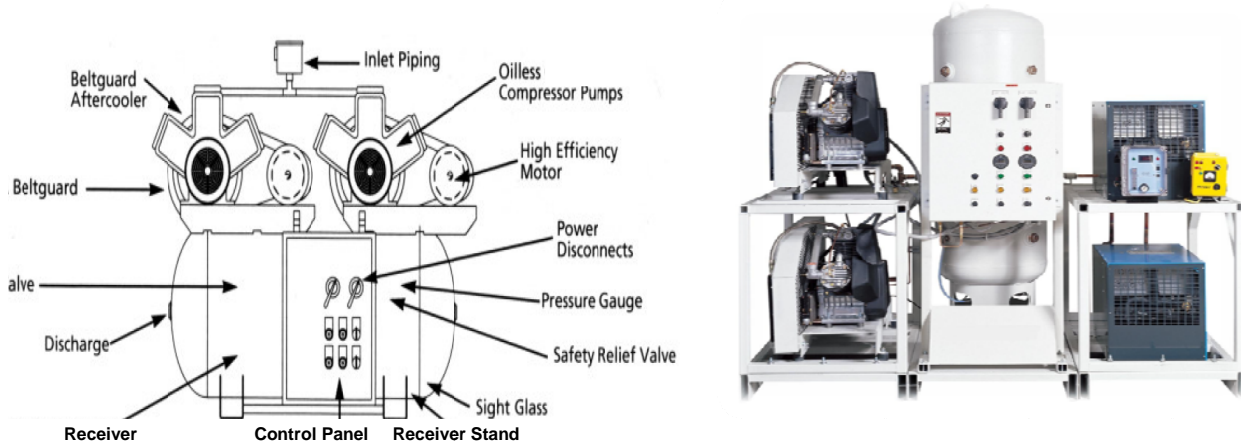
- A control panel includes following accessories: Starter, Overload Relay, Single Phase Preventer, Hour Meter, Phase Indicator Lamps, Phase selector switch, Ammeter and Voltmeters.

MOTORS

Each compressor shall be belt driven by 3 phase induction motor.

Note : In view of continual growth and up gradation, we reserve the right to modify above data /specifications.

TYPICAL LAYOUTS



Model	Motor Rating HP	Piston Displacement in LPM	Operating Pressure	Dryer Type
AM01 R	1	151	8.5	Refrigerated
AM02 R	2	267	8.5	Refrigerated
AM03 R	3	408	8.5	Refrigerated
AM04 R	5	649	8.5	Refrigerated
AM05 R	7.5	692	8.5	Refrigerated
AM06 R	10	1038	8.5	Refrigerated
AM07 R	15	1619	8.5	Refrigerated

-----Technical descriptions from Anest-Iwata's Base Unit-----

Critical Maintenance Free Technology is the one which gives you a combination of 100% oil free air, continuous and heavy duty running and No risk if seizure. It brings in :

- Safety
- Heavy Duty operation
- 100% oil free air.
- Low Noise Level – Less than 95 dB at 5 bar
- Configurable auto on / auto off as per demand.
- Can be provided with Refrigerated Dryer and set of micron and sterile filters for medical use.
- Connections sizes for reservoir, drains etc. are tailor-made.
- Different mounting arrangement i.e. Tank mounted, Stack mounted, base frame mounted are available.

Sectional View

