






Compressors D&D™
MEDICAL AIR SYSTEM

MEDICAL AIR COMPRESSOR COMPRESSORS D&D®



 **TÜVRheinland®**
Precisely Right.

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TECHNICAL SPECIFICATIONS

Medical Air Compressors by Compressors D&D® Simplex, Duplex, Triplex, Cuadruplex or Multiplex to generate compressed medical air of 1.5, 2.2, 3.7, 5.5, 7.5, 11 y 15 Kw (2, 3, 5, 7.5, 10, 15 y 20 HP), on structural base assembly or modules

RECIPROCATANT AND SCROLL TYPE

Compressors D&D® One-Step type "Oil Less" Simplex, Duplex, Triplex, Cuadruplex o Multiplex, with Teflon Seals to operate totally without oil. Cooled with forced environment, powered with electric motor to 220-440 V, 3 Phases, 60 Hz and transmission (motor-head) through bands, with guarded bands according to OSHA. With starting point at 6.0 kg/cm² (85.3 psi) and stop point at 7.5 kg/cm² (105 psi). The compressor is built with alloys for maximum resistance to corrosion and wear. Shaft of the compressor is of nodular iron, supported on both sides by permanently lubricated balls bearings and sealed.

Heat exchanger (Post-Cooler) with smooth surface copper pipe with external aluminum fins for heat dissipation, cooled with environment air forced by fan to lower the compressed air temperature at compressor output. Up to a range of 10 °C above the environment temperature of the place of installation. With capacity to handle the volume delivered by the compressor, includes condensate separator with automatic drain.

High-pressure hose set with Teflon with reinforcement mesh to interconnect to the tank and cushion vibrations.

Electric Motor Totally Enclosed Fan Cooled (TEFC), Efficiency NEMA PREMIUM, Insulation Class F, IP55, 220-440-3-60 Hz.

Vertical or Horizontal Air Receiver for storage of compressed air, with capacity of 80, 120, 200, 240 gal. ASME Stamping for a work pressure of 14 kg/cm². Include calibrated security valve to 8.7 kg/cm² (125 psi), Manometer with range of 0 to 11



kg/cm² with Gauge of 76 mm (3"), with Solenoid valve for automatic drainage (controlled from the digital control panel) and manual mode, with ball valve for closure in case of change or repair of the manometer, sectioning valves according to NFPA 99-2015 & European Pharmacopoeia, condensate water level look.

The equipment has two banks of filtration with sectioning and security valves, elements of the following characteristics:

- General filter uses and particles up to 1 micron in compressed air, at an input pressure 7.0 kg/cm² (100 psi) and filtration efficiency of 99.99%. Include differential pressure indicator to know when the change of the filter element and automatic drainer.
- Coalescent filter for removal of liquid or spray oil, as particles of up to 0.1 microns in compressed air with capacity at an input pressure of 7.0 kg/cm² (100 psi), and a filtration efficiency of 99.999%. Include differential pressure indicator to know when the change of the filter element and automatic drainer.
- Filter for absorption of vapors (removal of odors and flavors) of particles of up to 0.01 microns in compressed air with capacity at an input pressure of 7.0 kg/cm² (100 psi), and a filtration efficiency of 99.9999%. Include differential pressure indicator to know when the change of the filter element and automatic drainer.

Pressure regulator, with regulation range of 0.35-8.7 kg/cm² (5-125 psi), with an input pressure of 6.3 kg/cm² (100 psi) and an output pressure 5.5 kg/cm² (78.3 psi).



REFRIGERATIVE DRYERS

Refrigerative compressed Air Dryers, designed to provide air to a maximum dew point [2° C (35° F) 50 psi to 55 psi] at any demanded level. Sized for 100% of maximum demand. Maximum input pressure of 7.0 kg/cm² (100 psi), integrated dew point monitor

- R134 refrigerant or updated gas
- On/Off switch with indicator light
- Motor overload protection
- Automatic or thermostatic expansion valve
- Fully insulated cold surfaces
- Automatic drain
- Moisture separator
- Condensate separator
- Filter and dryer for refrigerant
- Dew point indicator
- Dry bulb temperature (air inlet sensor) from -17.8°C to 93°C (0°F to 200 °F)

REGENERATIVE DRYERS

Desiccant compressed Air Dryers, designed to provide air to a maximum dew point that is below the freezing point [0° C (32° F) 50 psi to 55 psi] at any demanded level. Sized for 100% of maximum demand. Maximum input pressure of 7.0 kg/cm² (100 psi), integrated dew point monitor. These include activated alumina, silica gel, and molecular sieves. Two adsorbent filled vessels are installed in a desiccant dryer, one for drying the compressed air and one for regeneration. The vessels are switched from on-stream drying service to off-stream regeneration alternately.

Set of Stainless ball valves for by-pass in Receiver, dryers, filters and air regulators. Positive pressure switch to establish the starting points and for the emergency engines.



Electrical panel control with digital screen for the alternate or simultaneous operation of the compressors, integrated in a metal cabinet, Listing UL 508A "Industrial Control Panels", with the following components:

- Monitor for Carbon Monoxide (CO), Audiovisual alarm for high or low limit with scale of 0 to 100 ppm.
- Cabinet NEMA 12.
- Control in the alternate or simultaneous sequence of operation of the electrical motors.
- Control of the operating time of the electrical motors, in case of achieving 5 minutes and do not arrive at the stop pressure, the other electrical motor will automatically enter in operation.
- Automatic drainage of condensates in the air receiver (activated by solenoid valves), each start with a 5 seconds operating period.
- Automatic disconnection and audiovisual alarm of any compressor in case of achieving high temperature.
- Electronic tablet protected against electrical and magnetic noise (avoid losing DLC programming).
- General thermomagnetic switch with proximity safety sensor disconnecting the system when opening the door.
- Three phase current alternating current contactor for electrical motor, according to capacity.
- Bimetallic relay for overload protection in electrical motor, according to capacity.
- Thermomagnetic switch for each electrical motor, according to capacity.
- Stop switch and starting on display through membrane.
- Counter of hours in operation for each of the electricals motors on screen.
- Indicator of compressor operation on screen.
- Overload indicator by alert on screen.
- Operating temperature indicator on screen.
- Audiovisual alarm that indicates low system pressure.
- UL 508A Listed

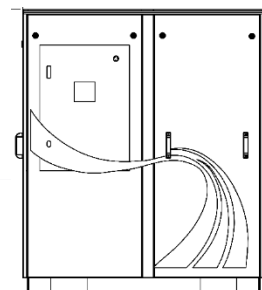
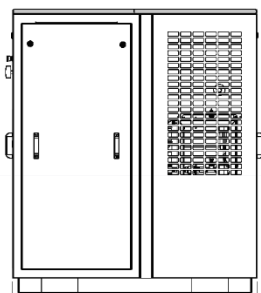


All mounted in structural chassis and cabinet Insonorised in the form of modules control / filtration / air receiver and compressors.

The equipment is delivered with:

A printed folder with operation manual, maintenance manual and number of parts, this information will also be given with electronic support. One year warranty against manufacturing defects. Drawings of mechanical guides will be delivered to carry out the necessary preparations for energy taking and discharge.

All our medical compressors are manufactured under the ISO 9001:2015, NFPA 99-2015 & European Pharmacopoeia rules.



RECIPROCATANT COMPRESSOR DENTAL SERIES SDDP

MODEL	POWER hp/kw	VOLTAGE	FLOW (cfm)(m3/h)	PRESSURE psi/bar	DRYERS	DIMENSIONS (L,W,H) Inch/mm
SDDP22	3/2.2	208-220/50-60/3 380-440/50-60/3	8.5/14.4	135/9.3	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
SDDP37	5/3.7	208-220/50-60/3 380-440/50-60/3	14.3/24.2	135/9.3	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
SDDP55	7.5/5.5	208-220/50-60/3 380-440/50-60/3	21.3/36.1	135/9.3	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
SDDP75	10/7.5	208-220/50-60/3 380-440/50-60/3	30.9/52.4	125/8.6	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
SDDP110	15/11	208-220/50-60/3 380-440/50-60/3	45.2/76.7	125/8.6	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
SDDP150	20/15	208-220/50-60/3 380-440/50-60/3	61.8/104.9	125/8.6	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889



RECIPROCAN COMPRESSOR DUPLEX MEDICAL SERIES DDDP

MODEL	POWER hp/kw	VOLTAGE	FLOW (cfm)(m3/h)	PRESSURE psi/bar	DRYERS	DIMENSIONS (L,W,H) Inch/mm
DDDP22	3/2.2	208-220/50-60/3 380-440/50-60/3	17/28.8	135/9.3	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
DDDP37	5/3.7	208-220/50-60/3 380-440/50-60/3	28.6/48.5	135/9.3	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
DDDP55	7.5/5.5	208-220/50-60/3 380-440/50-60/3	42.6/72.3	135/9.3	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
DDDP75	10/7.5	208-220/50-60/3 380-440/50-60/3	61.8/104.9	125/8.6	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
DDDP110	15/11	208-220/50-60/3 380-440/50-60/3	90.4/153.5	125/8.6	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
DDDP150	20/15	208-220/50-60/3 380-440/50-60/3	123.6/209.9	125/8.6	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889

RECIPROCAN COMPRESSOR TRIPLEX MEDICAL SERIES TDDP

MODEL	POWER hp/kw	VOLTAGE	FLOW (cfm)(m3/h)	PRESSURE psi/bar	DRYERS	DIMENSIONS (L,W,H) Inch/mm
TDDP37	5/3.7	208-220/50-60/3 380-440/50-60/3	42.9/72.8	135/9.3	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
TDDP55	7.5/5.5	208-220/50-60/3 380-440/50-60/3	63.9/108.5	135/9.3	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
TDDP75	10/7.5	208-220/50-60/3 380-440/50-60/3	92.7/157.4	125/8.6	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
TDDP110	15/11	208-220/50-60/3 380-440/50-60/3	135.6/230.3	125/8.6	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889
TDDP150	20/15	208-220/50-60/3 380-440/50-60/3	185.4/314.9	125/8.6	By cold or Adsorption	61.2x56.4x74.4 1554x1432x1889



RECIPROCATANT COMPRESSOR CUADRUPLEX MEDICAL SERIES CDDP

MODEL	POWER hp/kw	VOLTAGE	FLOW (cfm)/(m3/h)	PRESSURE psi/bar	DRYERS	DIMENSIONS (L,W,H) Inch/mm
CDDP55	7.5/5.5	208-220/50-60/3 380-440/50-60/3	254/431.5	135/9.3	By cold or Adsorption	61.2x56.4x93 1554x1432x2362
CDDP75	10/7.5	208-220/50-60/3 380-440/50-60/3	308/523.2	125/8.6	By cold or Adsorption	61.2x56.4x93 1554x1432x2362
CDDP110	15/11	208-220/50-60/3 380-440/50-60/3	399/677.9	125/8.6	By cold or Adsorption	61.2x56.4x93 1554x1432x2362
CDDP150	20/15	208-220/50-60/3 380-440/50-60/3	598/1016	125/8.6	By cold or Adsorption	61.2x56.4x93 1554x1432x2362

COMPRESSORS SCROLL SIMPLEX DENTAL SERIES SDDS

MODEL	POWER hp/kw	VOLTAGE	FLOW (cfm)/(m3/h)	PRESSURE psi/bar	DRYERS	DIMENSIONES (L, W, H) Inch/mm
SDDS22	3/2.2	208/220/50/3	8.9/15.1	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590
SDDS37	5/3.7	208/220/50/3	14.8/25.1	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590
SDDS55	7.5/5.6	208/220/50/3	21.9/37.2	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590
SDDS75	10/7.4	208/220/50/3	30.2/51.3	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590



COMPRESSORS SCROLL DUPLEX MEDICAL SERIES DDDS

MODEL	POWER hp/kw	VOLTAGE	FLOW (cfm)/(m3/h)	PRESSURE psi/bar	DRYERS	DIMENSIONES (L, W, H) Inch/mm
DDDS22	3/2.2	208/220/50/3	17.8/30.2	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590
DDDS37	5/3.7	208/220/50/3	29.6/50.2	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590
DDDS55	7.5/5.6	208/220/50/3	43.8/74.4	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590
DDDS75	10/7.4	208/220/50/3	60.4/102.6	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590

COMPRESSORS SCROLL TRIPLEX MEDICAL SERIES TDDS

MODEL	POWER hp/kw	VOLTAGE	FLOW (cfm)/(m3/h)	PRESSURE psi/bar	DRYERS	DIMENSIONES (L, W, H) Inch/mm
TDDS22	3/2.2	208/220/50/3	26.7/45.3	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590
TDDS37	5/3.7	208/220/50/3	44.4/75.4	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590
TDDS55	7.5/5.6	208/220/50/3	65.7/111.6	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590
TDDS75	10/7.4	208/220/50/3	90.6/153.9	116/8	By Cold or Adsorption	51x47x62 1300x1200x1590



COMPRESSORS SCROLL CUADRUPLEX MEDICAL SERIES CDDS

MODEL	POWER hp/kw	VOLTAGE	FLOW (cfm)/(m3/h)	PRESSURE psi/bar	DRYERS	DIMENSIONES (L, W, H) Inch/mm
CDDS22	3/2.2	208/220/50/3	35.6/60.4	116/8	By Cold or Adsorption	51x47x78 1300x1200x2000
CDDS37	5/3.7	208/220/50/3	59.2/100.5	116/8	By Cold or Adsorption	51x47x78 1300x1200x2000
CDDS55	7.5/5.6	208/220/50/3	87.6/148.8	116/8	By Cold or Adsorption	51x47x78 1300x1200x2000
CDDS75	10/7.4	208/220/50/3	120.8/205	116/8	By Cold or Adsorption	51x47x78 1300x1200x2000

