



CompTech make, stationery, electric motor driven, **2-stage**, oil lubricated Rotary screw Air compressor with **Super Premium Efficiency IE5 PM Motor**.

Scope of Supply:

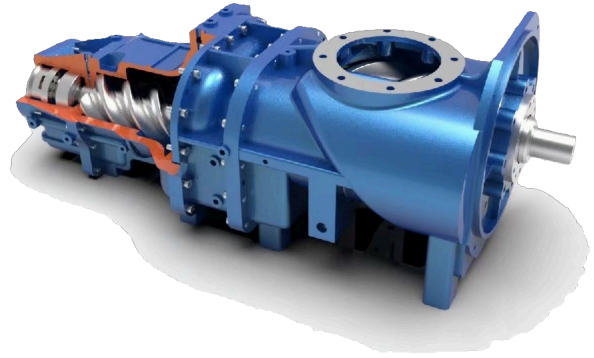
- The CTS-II range is a Direct Electric motor driven Stationery, 2-Stage, Air cooled, and Oil lubricated, Rotary Screw Air Compressor package housed in an acoustic enclosure.
- Heavy duty dry types Suction Air filter with 99.9% efficient @ 3 microns and above.
- Integrated new generation Intake Valve controls the compressor capacity to meet down-stream air demand.
- Bigger highly efficient Air-Oil Cooler designed for 45 ambient temperatures.
- Seamless lifelong pipe lines instead of hosepipe eliminate oil leakages and no need to replace hosepipes often.
- Low sound enclosure.

2-Stage Super Premium Efficiency:

- Before the first-stage compressed air gets into the second-stage unit, atomizing oil cooling is used to lower the inlet temperature of the second-stage unit so that the two

compression units can keep isothermal compression, which raises adiabatic efficiency and reduces energy consumption.

- The two-stage air end features the design of equal low internal pressure ratio with low leakage rate during the compression process, which promotes enormously the volumetric efficiency of the whole process. The volumetric efficiency of the two-stage air end is more than 15% compared to single stage air end.



Made for Dusty Environment:

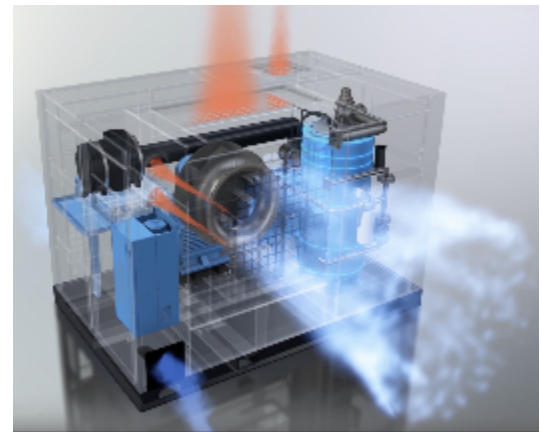
Bigger Sized high efficiency dual filtering stage suction air filter specially designed for dusty environment.



Super Premium Efficiency IE5 Permanent Magnet Motor, F class insulation Suitable for 415V \pm , 50 Hz \pm , 3 Phase, AC electric supply. It comes with Single Shaft Design, which eliminates the Transmission loss completely from Motor to Airend and provides maintenance free lifelong operation.

Efficient Cooling & Temperature Control:

Based on the Hot climate of India, we provide Big Size, High efficient Air & Oil Cooler which increase the durability of the compressor.



Spareparts Availability for 10 YEARS:

We assure our customers that even the critical spares are available with us for at least 10 Years to make sure our customers do not suffer due to any change in design, being a manufacturing company.

Oil-Less Air (1 ppm):

Two stage oil separation system in which oil is initially separated from compressed air by centrifugal force and only minimum oil remains to be removed by the separator element. Oil carryover from the separator is limited to 1-3PPM.



Easy Serviceability:

All components of the compressor package are mounted on a single base frame without any foundation. This does not require any Foundation. The Canopy provides a proper space and accessibility to all the Compressor Components for a quick service and the least downtime.

Standard Quality Control Panel:

The VFD and microprocessor based control panel is mounted on the same base frame within the canopy of the compressor. The panel is wired and hooked up with the main motor and all instruments within the canopy. The setting on various operating parameters can be done on HMI. All the Electricals used are of Siemens, ABB or other Standard make.



Premium Efficiency Intake Valve:

The New Flow Optimized design of the Intake Valve helps minimize intake pressure losses and simplifies servicing, specially designed for Variable flow of VFD Compressors.

Intelligent Touch Screen Compressor Controller (CompSmart 5.0)

Advanced microprocessor based control system ensure trouble free operation and safety of the compressor by displaying preventive maintenance indications and tripping the compressor. Controller controls and displays on line pressure, current (Amp of motor), automatic loading and unloading of compressor, Temperature, Total run hour with load on run hour. The controller has a fan control system which eliminates use of thermostats in the compressor.



Display on HMI

- Delivery air pressure
- Air-Oil Temperature
- Total run hours
- Total load hours
- Start/Stop, Load/Unload, Emergency Stop and maintenance reason for trip
- Maintenance schedule (No. of Hours)
- Replace Air & Oil filter
- Faults History
- Replace Air/Oil Separator
- Change Lube
- Phase Sequence
- Total Power Consumed

Protection and Safety Settings:

- High discharge Air / Oil temperature trip.
- Motor overload and single phasing protection.
- Phase Sequence protection.
- Safety valve.
- Emergency stop button.

General Arrangement for Screw Air Compressor:

