



MEP | TURNKEY PROJECT EXECUTION AND CONTRACTING SERVICES

TRANSFORMERS | GENSETS | COMPRESSORS



COMPANY PROFILE SALES CATALOGUE

EKTELON ENGINEERING AND PROJECTS PRIVATE LIMITED

A16, Scheme No. # 78, Part I, Indore - 453771. Madhya Pradesh. INDIA

Associate Office(s) : Pune | Ahmedabad | Raipur |

Tel.: +91 738 990 5333, +91 738 990 7333 Email: ektelonprojects@gmail.com | sales@ektelonindia.in

www.ektelonairpower.com | www.ektelonindia.in

PROFILE AND PRE-QUALIFICATION DOCUMENT

We at Ektelon Engineering and Projects Private Limited, have pleasure in introducing ourselves as leading Original Equipment Manufacturer, System Integrator and Solution Provider in core Electrical and Mechanical Utilities. We are Distributors, Merchant Exporters and MEP Contractors for Equipment Supplies and also execute single point Turnkey Projects.

Established in 2013, we have executed many landmark Projects in India and Overseas. We have full fledged setup at Indore (Central India & Commercial Capital of State-Madhya Pradesh) with Associated offices at Pune (Maharashtra), Ahmedabad (Gujarat) and Raipur (Chhattisgarh). We have our own Team of Engineers for providing Single Point Product Support post supplies for Equipments we supply, this makes us unique as our clients get a single point contact from Concept, Site Engineering, Supplies & Executions, Installation, Commissioning and later After Market Support and Spares, all under one roof, one customer centric solution oriented Co., Ektelon!

OUR SERVICES :



- ▶ Power distribution systems
- ▶ Transformers
- ▶ Lighting control
- ▶ Power generation
- ▶ LT/HT systems
- ▶ Telephone & data systems
- ▶ CCTV



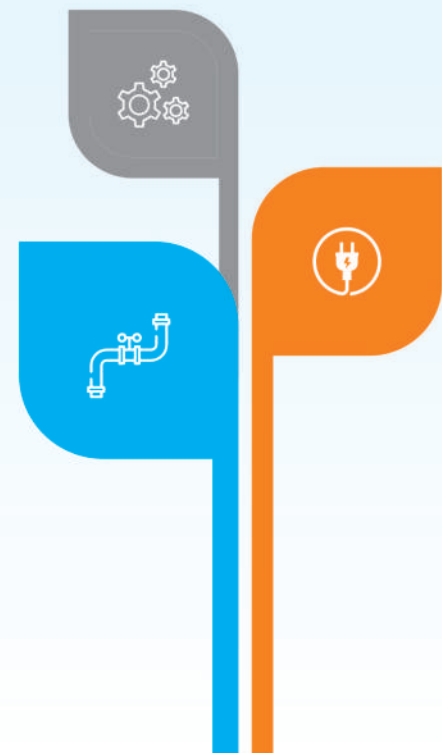
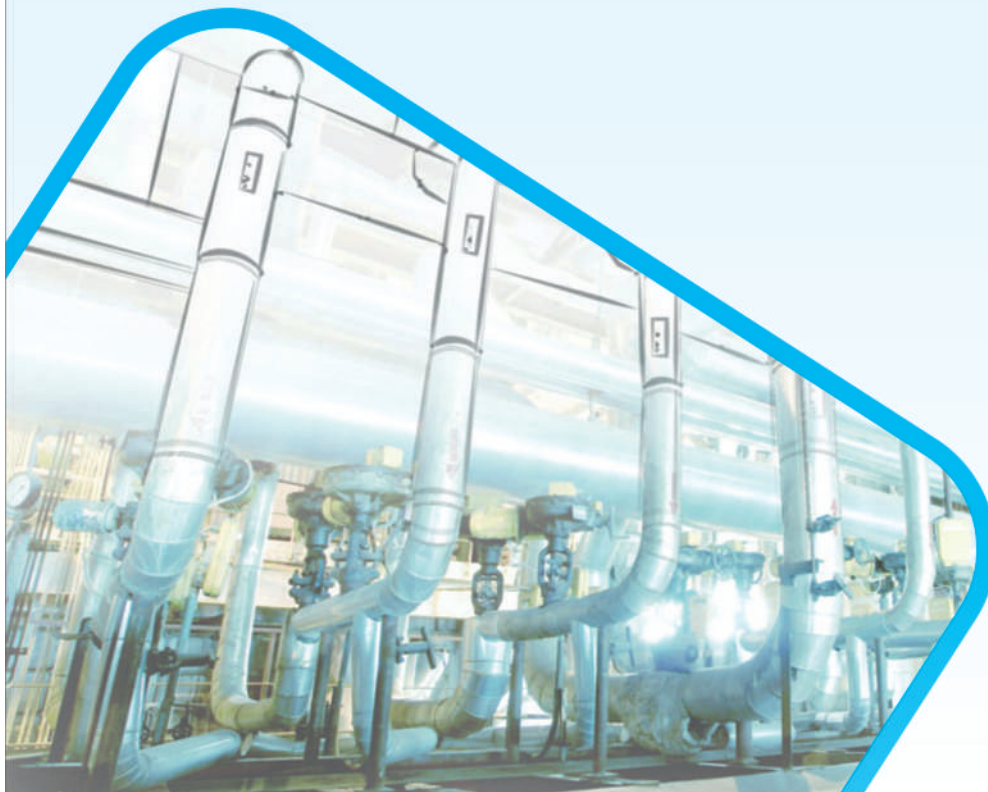
- ▶ Fire detection & alarms
- ▶ Building lighting systems
- ▶ Hot & cold water supply system



- ▶ Water filtration system
- ▶ Sewage treatment
- ▶ Steam/fluid/air-line
- ▶ Cooling tower



- ▶ Fire fighting - sprinkler system
- ▶ Fire suppression system
- ▶ G.I ducting system
- ▶ Chilled water piping system
- ▶ Package units, DX units, and Fan coil units
- ▶ Ventilation systems





TURNKEY PROJECT EXECUTION AND CONTRACTING SERVICES

MEP Engineering: The Key to Optimized Industrial Systems

In the realm of industry, MEP refers to Mechanical, Electrical, and Plumbing. MEP engineering is the mastery of planning and administering these essential systems to ensure optimal functionality. We at Ektelon provide not only supply but supply, Installation, Testing, Commissioning and service during the life of the equipment.

MECHANICAL

The functional components driving key industries, such as HVAC, Fabrication, ETP/STP, RO, FIRE HYDRANT SYSTEM, FIRE SPRINKLER SYSTEM, PUMP HOUSE, provide optimal comfort levels within business establishments while maintaining full compliance with government regulations. These critical systems ensure our ability to occupy buildings safely and effectively.

ELECTRICAL

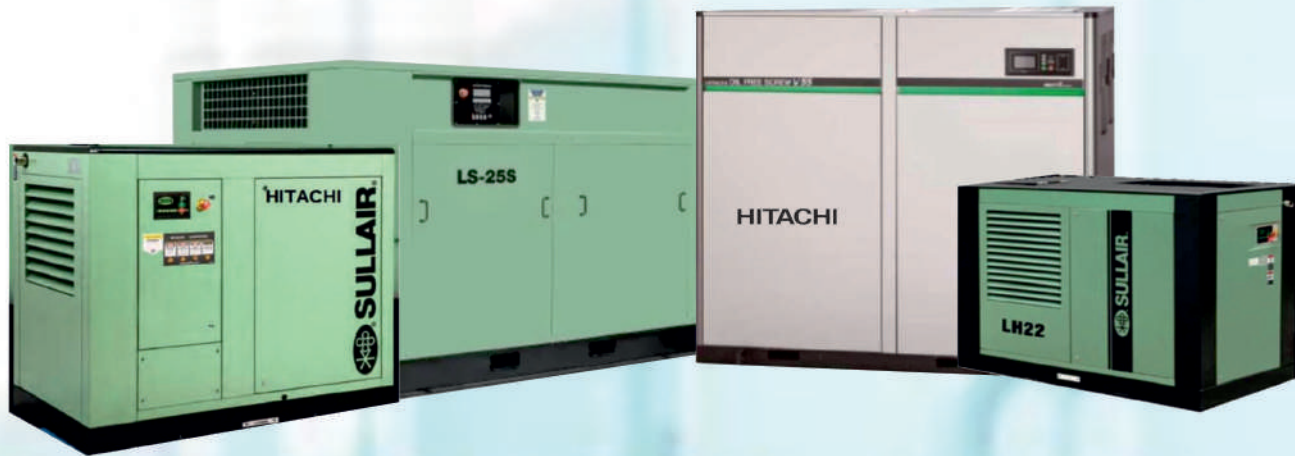
The electrical system within an industry plays a critical role in powering machinery and keeping all other systems operational. It includes high voltage architecture systems for lighting and cabling, as well as low voltage systems for data, telephone, fire alarms, and more. Planned electrical systems, including HT/LT panels, earthing and lightning arresters, are essential for effective electrical engineering.

PLUMBING

Plumbing is essential for human sustenance. Without it, how would we access clean drinking water or dispose of waste safely? Plumbing systems provide fresh water for drinking, drainage systems, and various fluid lines, including steam and condensate lines. They also play a crucial role in cleansing and removing storm and sanitary wastewater



HITACHI SCREW COMPRESSORS



LUBRICATED SCREW COMPRESSORS

4kW - 550kW
20 CFM - 2828 CFM
5kg/CM² - 13/CM²

OIL FREE (NON-LUBE) COMPRESSORS

1.5kW - 240KW
6CFM - 1150CFM
7kg/CM² - 10kg/CM²



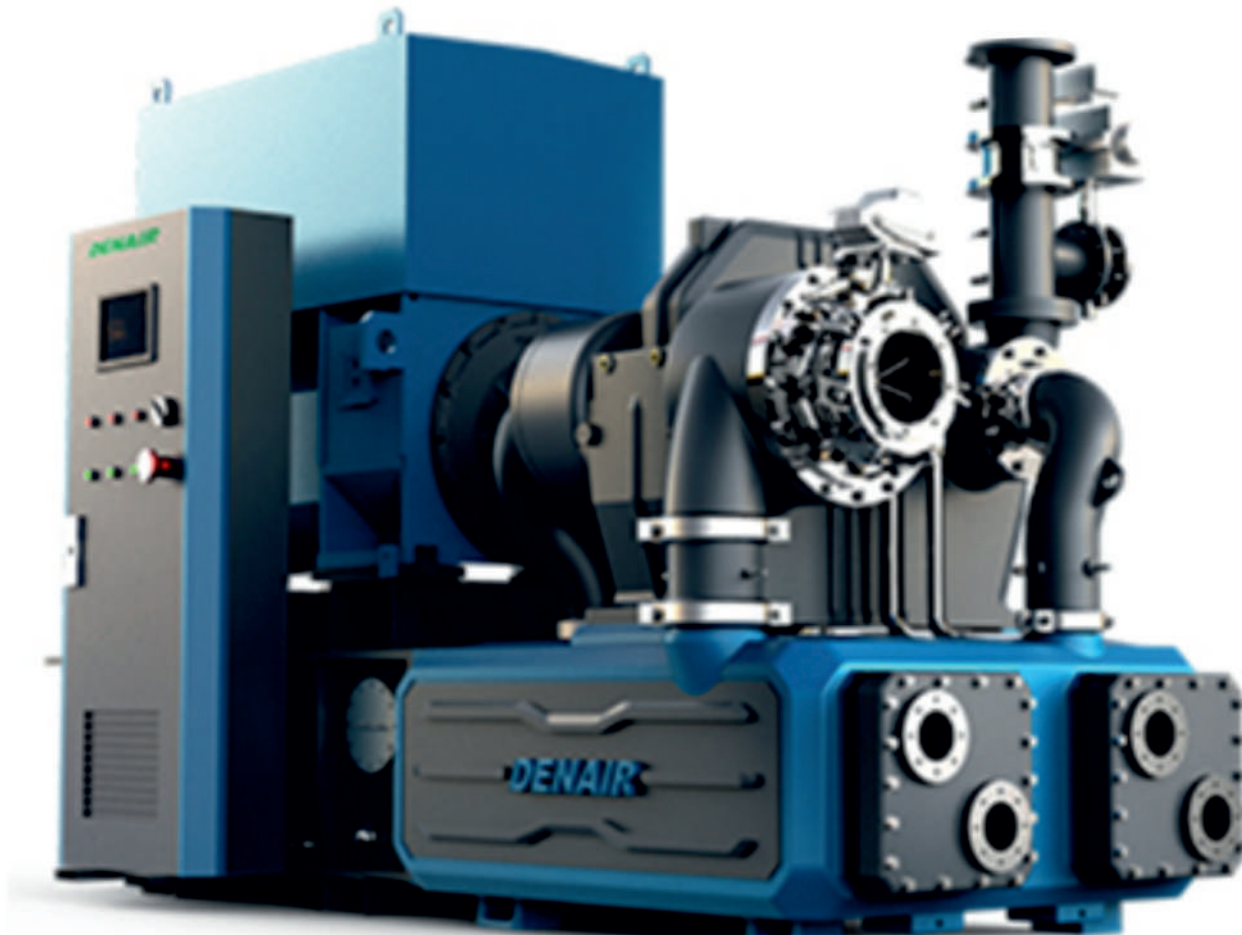
EKTELON SITE ASSEMBLED OXYGEN AND NITROGEN GENERATOR



25NM³/Hr - 1000 NM³/Hr | Purity: 93 - 99%

CENTRIFUGAL COMPRESSORS

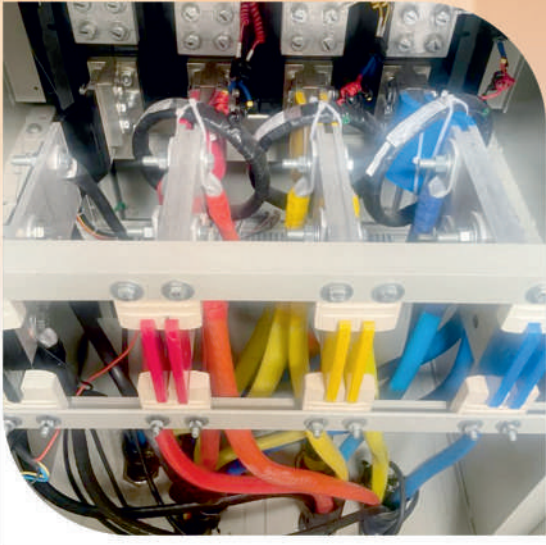
**Class
Zero**
ISO-8573-1



2400CFM - 16200CFM | 0.6bar(g) - 25bar(g)
400kW - 2350kW

- 01 Easy Maintenance
- 02 Smart Operation System
- 03 High Reliability
- 04 Lower Energy Consumption
- 05 Certified Class Zero Oil-free Air





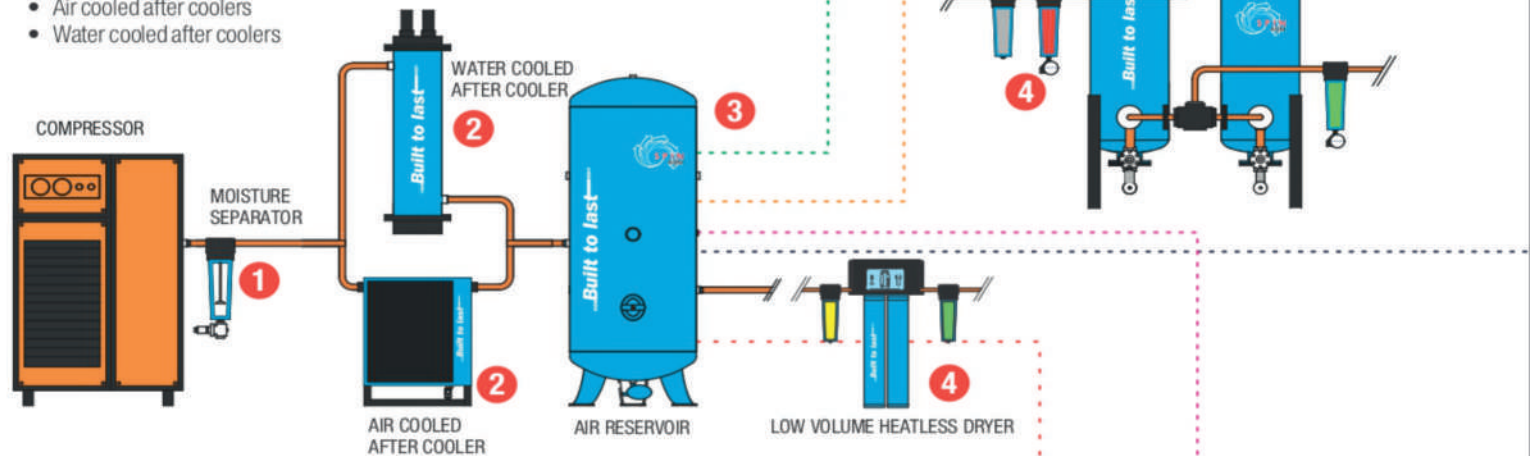
Whatever be the industry, We provide the complete downstream compressed air quality solution

2 AFTER COOLERS

After coolers are heat exchangers for cooling the discharge from an air compressor. They use either air or water and are an effective means of removing heat and moisture from compressed air. Aftercoolers reduce the amount of water vapour in a compressed air system by condensing the water vapour into liquid form.

Common types:

- Air cooled after coolers
- Water cooled after coolers



1 MOISTURE SEPARATOR

Moisture separator, also known as cyclone condensate separators, use centrifugal motion to force liquid water out of compressed air.

They are installed following after coolers to remove the condensed moisture.

3 AIR RESERVOIR

Air reservoir stores compressed air in larger volume and plays important role in compressed air system.

- Supplying peak demands from stored air without needing to run an extra compressor
- Reducing load/unload or start/stop cycle frequencies to help screw compressors run more efficiently and reduce motor starts.
- Slowing system pressure changes to allow better compressor control and more stable system pressures.

4 HEATLESS DESSICANT DRYER

The compressed air is passed through a pressure vessel with two "towers" filled with desiccant material. This desiccant material attracts the water from the compressed air via adsorption. The desiccant will bring the pressure dew point of the compressed air to a level in which the water will no longer condense, or can be removed as much from the compressed air as possible.



Refrigerant Air Dryer



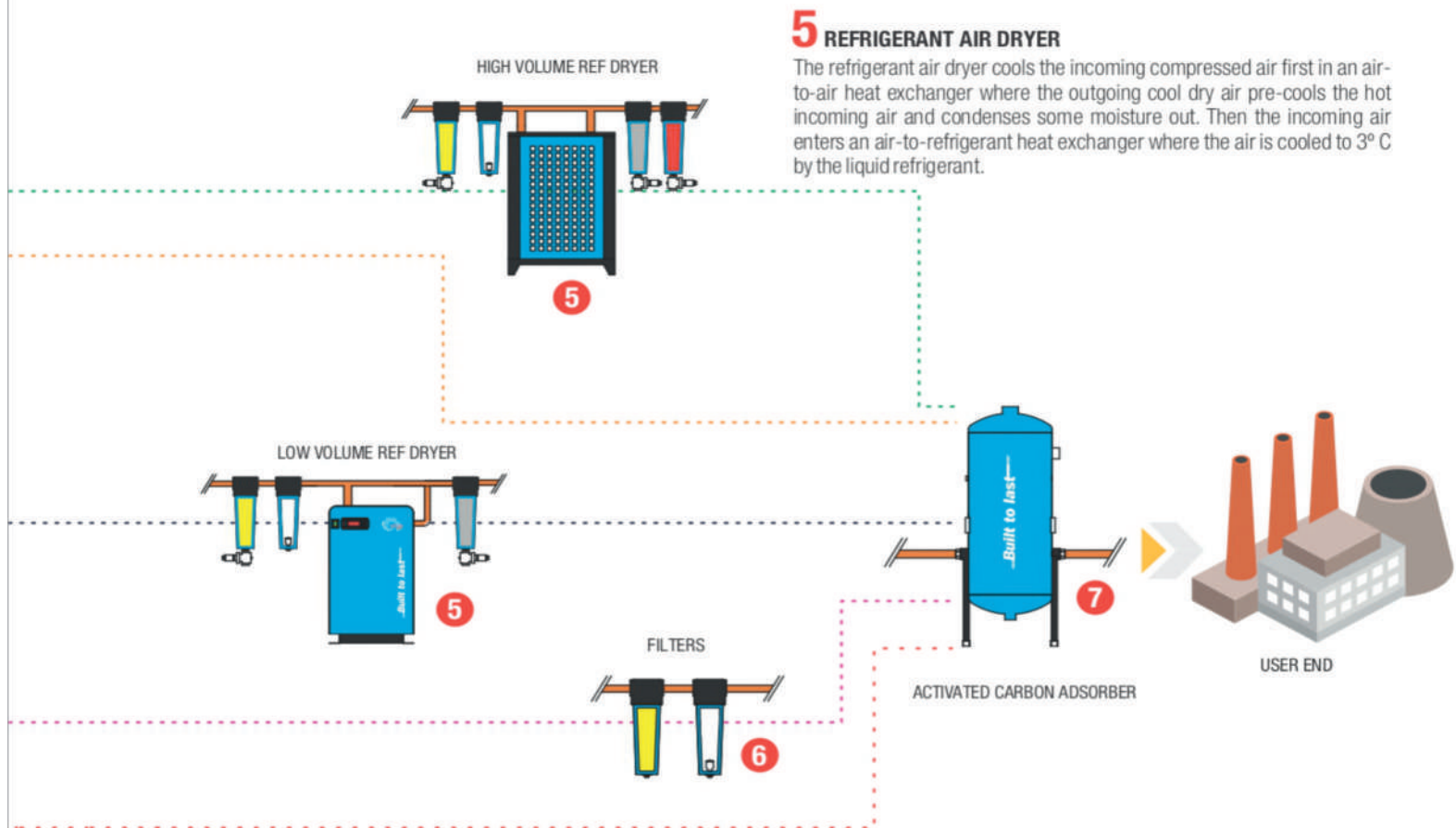
Heatless Air Dryer

Why air quality management?

The contaminants of compressed air delivered by air compressors include moisture, dust and oil particles which affects the air quality. Most of the compressed air applications require clean air and the quality of air requirement varies with the application. The untreated compressed air is most expensive because it may cause increased machinery down time, product rejection and added maintenance cost. As defined in ISO: 8573.1 high quality of compressed air can be achieved only by filtration, water separation and drying.



AGEMENT SOLUTIONS



5 REFRIGERANT AIR DRYER

The refrigerant air dryer cools the incoming compressed air first in an air-to-air heat exchanger where the outgoing cool dry air pre-cools the hot incoming air and condenses some moisture out. Then the incoming air enters an air-to-refrigerant heat exchanger where the air is cooled to 3° C by the liquid refrigerant.

6 FILTERS

Compressed air filters are used for efficient removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air systems.

To meet the required compressed air quality appropriate filter element must be installed into filter housing.

7 ACTIVATED CARBON ADSORBER

Activated carbon towers can be incorporated in existing compressed air systems significantly minimising the risks of contamination. They are able to absorb oil carry-over (both liquid and vapour) to provide the plant with technically oil-free compressed air eliminating hydrocarbon vapours and odours.

ISO quality air standard (ISO 8573-1:2010)

The quality of compressed air used in industrial processes is specified in the international standard ISO 8573-1, Untreated compressed air typically contains 3 types of contaminants : dirt , water and oil. The Quality Classes specify the maximum allowed limits.

ISO8573-1:2010	Dirt			Mass Concentration mg/m ³	Water		Oil
	Maximum number of particles per m ³				Vapor pressure dew point	Liquid g/m ³	Total (aerosol liquid and vapor) mg/m ³
	0.1-0.5 micron	0.5 - 1 micron	1 - 5 micron				
As specified by the equipment user or supplier and more stringent than Class 1							
1	≤ 20000	≤ 400	≤ 10	-	≤ -70°C/-94°F	-	0.01
2	≤ 400000	≤ 6000	≤ 100	-	≤ -40°C/-40°F	-	0.1
3	-	≤ 90000	≤ 1000	-	≤ -20°C/-4°F	-	1
4	-	-	≤ 10000	-	≤ +3°C/+37.4°F	-	5
5	-	-	≤ 100000	-	≤ +7°C/+44.6°F	-	-
6	-	-	-	≤ 5	≤ +10°C/+50°F	-	-
7	-	-	-	5-10	-	≤ 0.5	-
8	-	-	-	-	-	0.5-5	-
9	-	-	-	-	-	5-10	-
X	-	-	-	> 10	-	> 10	> 10

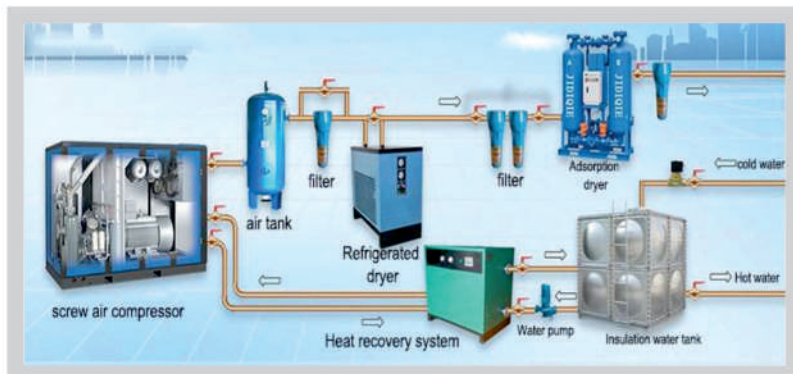
OTHER PRODUCTS AND SOLUTION OFFERINGS



COMPRESSED AIR AUDIT



HRU - RECOVER HEAT FROM COMPRESSOR OIL CIRCUIT





DISTRIBUTION - POWER TRANSFORMERS AND COMPACT SUB-STATIONS



**200kVA - 30MVA
11/22/33/132KV CLASS**



OUR OFFERINGS :

- ▶ Supplies
- ▶ Installation Testing
- ▶ System Integration
- ▶ Associated Electrical Work of Sub Station.
- ▶ Liasoning & Approvals
- ▶ Overhauling/Maintenance Services



SILENT DIESEL GENSETS

**CPCB IV +
COMPLIANT NS
3kVA - 1500kVA**



- ▶ Supplies
- ▶ Auto Mains Failure Panel
- ▶ Associated Cabling, Earthing Works
- ▶ DG Synchronisation
- ▶ Stack & Exhaust Work
- ▶ Liasoning & Approvals



PART LIST OF OUR CLIENTS



EKTELON ENGINEERING AND PROJECTS PRIVATE LIMITED

A16, Scheme No. #78, Part I, Indore - 453771, Madhya Pradesh. INDIA

Branch/Associate Office : Pune | Ahmedabad | Raipur | Mumbai

Tel. : +91 738 990 5333, +91 738 990 7833 | Email : sales@ektelonindia.in