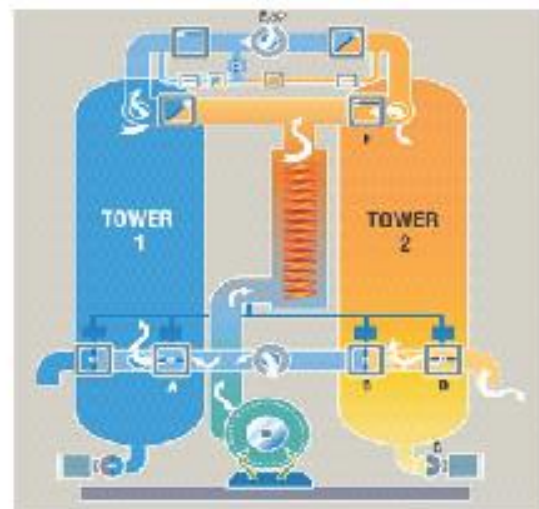


# Desiccant AIR DRYER

## Series : EDB - 200



### Introduction of main components

- 1) Pneumatic butterfly val : High quality pneumatic butterfly valve to ensure reliable running, it has large flow capacity, new design to ensure the seal, the life time is above one million times, valve leakage is below 4.0ml/min
- 2) Check valve : Air outlet valve, regeneration gas inlet valve are clamp type stainless steel valve, it has compact structure, fast close action, silent, low flow resistance , safety and low leakage.
- 3) 2-way and 5-port solenoid valve : The pneumatic valve action is completed by operated solenoid valve, valve is imported from Italy, it has low breakdown rate, the lifetime can reach to ten millions times.
- 4) Heating element : U type heating element, it has simple structure, high mechanical strength, high heat efficiency and long lifetime. The designed surface loading is controlled under 2.0 w/ cm<sup>2</sup>.
- 5) Blower : Vortex type blower for energy saving, it has high EER, stable output pressure, low noise and vibration.
- 6) Adsorbent : High quality activated alumina, large adsorption capacity and good performance, the life time is above 5 years.
- 7) Dew point transducer : Imported from Finland, Long calibration interval saves maintenance costs

Withstands condensation Fast response time.





Air Dryer - MATRIBA Series



Air Dryer - New model 4000 COXER



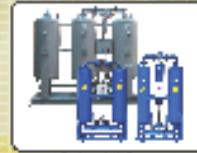
Desiccant for Air Dryer System



Air Dryer - QIT & ISA Series



Compressed Air Filter



Desiccant Air Dryer



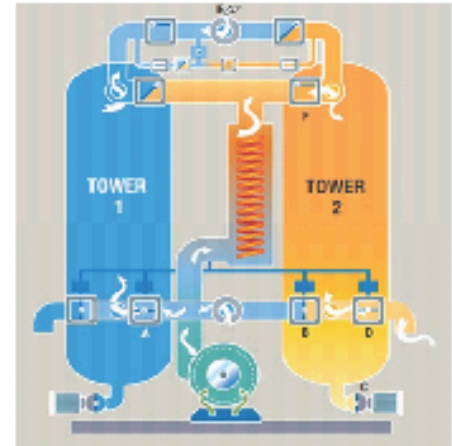
Water Cooler

# YOUR SOLUTION

## Technical Specifications

Model	EDB-200
Flow capacity	23m <sup>3</sup> /min
Air inlet pressure	7 bar (4-10bar)
Air inlet temperature	≤40°C
Ambient temperature	≤45°C
Inlet water content	Saturated moist air
Inlet oil content	≤0.1ppm (w)
Outlet water content	-40°C (PDP)
Regeneration method	Blower purge
Desiccant type	Activated alumina
Bed layer	Fixed ,single layer
Desiccant weight	520 kg
Regeneration medium	Heating -ambient air; blast-cold-self dry air
Pressure drop	≤ 0.21bar
Gas loss	<2%
Switch time	4 hr (adjustable)
Inlet/outlet connection	DN65
Control method	PLC controller
Voltages	380V/3PH/50HZ
Heater power	15kw
Blower power	3.3kw
Surface treatment	Painting
Installation method	Skid mounted ,indoor house
Noise	≤ 75dB (A)
Dimensions L×W×H (mm)	1560*1630*2780
Weight	1380kg

## Working Principle



Filtered compressed air enters on-line desiccant-filled, drying Tower 1 through Valve A. Up-flow drying enables the desiccant to strip moisture from the air stream. Clean, dry compressed air exits through E to feed the air system. Valves B on Tower 2 closes, depressurizing the air to atmosphere through the muffler, Valves D and F open and the heater turns on. The high-efficiency blower draws ambient air and feeds it through the heater. The ambient air stream passes through Valves F and flows downward through the moist desiccant in Tower 2, collecting water vapor before exiting Valve D. Once the desiccant is fully desorbed, the heater turns off. Valve D closes and Tower 2 is repressurized. Once the energy management system controller determines that Tower 1 is fully saturated, Valve B will open and Tower 2 will be placed on-line to dry the airstream and Valve A will close. Operations will switch and Tower 1 will be regenerated.

## Quality Assurance and Testing

We will launch the Product design & manufacture Controlling Procedure as soon as the contract takes effect, and bring the whole process into QA System. Ensuring the dryer is manufactured in accordance with all the requirements specified in the contract, achieving zero fault on the spot. Our Design & production Process Control is established on the basis of National Industry Standard and Company Quality Manual, our QC department supervise every department to ensure the quality in the process of design and manufacturing.

## Manufacturing Standard

- 1) GB/T 10893-1989
- 2) GB/T13277-1991
- 3) ISO7183.2
- 4) ISO8573.3
- 5) GB 150-1998
- 6) National Quality Supervise Bureau
- 7) HG20592~20635-97
- 8) JB4701-200
- 9) Q/KHB3010-2005
- 10) KHB5012-2003

Standard and testing for compressed air dryer  
 quality class of compressed air for general use  
 rated performance for compressed air dryer  
 humidity testing for compressed air section two  
 steel pressure vessel  
 Safety supervise rules for pressure vessel  
 steel tube flange, washer and fastener  
 A welded flange  
 desiccant air dryer (enterprise)  
 Working Instruction for desiccant air dryer