TRIDENT
engineering quality air & gas

- Extensive Mimic display with Electronic Controller.
- Energy saving purge economiser.
- Stainless Steel Filters Catridges.
- Fabrication Code : IS 2825.
- Dewpoint better than -40° C.

Optional :

- Fabrication Code : ASME SEC VIII DIV I.
- Dewpoint based changeover.

Blower Reactivated Air Dryers

DB Series

Principle of Operation

The Blower Heat Reactivated Dryer works on the principle of Thermal swing. The desiccant adsorbs moisture from the compressed air to deliver dry air. The desiccant bed saturates over a period of time. The saturated bed is regenerated by heating with hot air generated using a blower. Hence the dryer is called blower heat reactivated desiccant dryer. Since the temperature of the bed swings between the compressed air temperature and the regeneration temperature it is called Thermal swing type. The hot air from the blower passed through a heater. This makes the air very dry. The hot air then heats up the desiccant bed. When the bed is heated it gives up the moisture adsorbed and is ready for adsorption. The hot air carries this moisture to the atmosphere. After the regeneration, heated desiccant bed is cooled by the flow of air to suit the application conditions. Final cooling is achieved by a no loss compressed air cooling method, resulting in a no Dewpoint spike system. Trident dryer comes with a dewpoint based control system as a standard. The tower changeover takes place only when the bed is saturated, resulting in energy saving and extended life. The dryer with its control valves and controller manages the drying, regeneration and repressurisation of the desiccant columns automatically and thereby delivering continuous dry compressed air.

Blower Heat Reactivated Dryers are best suited for applications requiring large volume of compressed air at low dewpoint. For the above conditions the dryer works out very economical energy wise. Trident blower heat reactivated dryers are built from the start for customization. Since the air volume is large cusomisation delivers substantial energy savings.

Consultant Approvals

● EIL ● Tata Consulting Engineers ● Technip KT India Ltd ● Mott MacDonald Pvt Ltd ● Uhde India ● Avant Garde ● Barc ● Punj Lloyd ● Bhavini ● Foster wheeler ● Mecon ● Alstom ● NHPC Hydel ● Tecproashtech ● Macawber Beekay ● Linde ● BOC ..... etc...

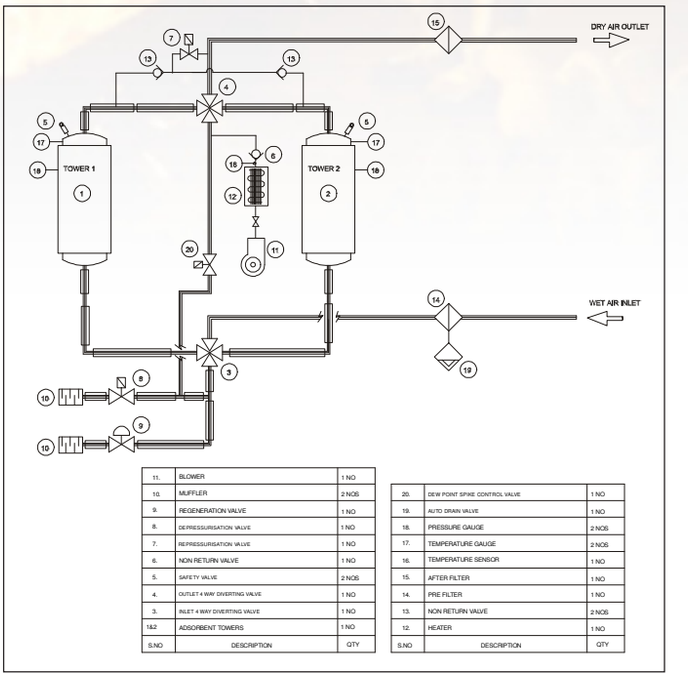
DB Series Specifications

Model	Inlet Flow cfm	Inlet Flow cu.m/min	End Connection	Power Heater KW	Power Blower KW
DB 200	200	7.5	2" NB	12	1.5
DB 300	300	10.00	2" NB	12	2.5
DB 500	500	14.16	2½" NB	12	2.5
DB 1000	1000	28.32	4" NB	23	4.0
DB 1500	1500	42.48	5" NB	35	5.5
DB 2000	2000	56.64	5" NB	45	7.5
DB 3000	3000	84.96	6" NB	68	5.5
DB 4000	4000	113.28	7" NB	90	5.5

Specifications are subjected to change as per customer requirement.

Designed for Air Inlet Pressure 7 Kg/cm^2
Designed for Air Inlet temperature 45^{o}C
Designed for Ambient temperature 38^{o}C
Desiccant : Activated alumina with adsorption capacity 10%

Blower Heat Reactivated Dryer



S.NO	DESCRIPTION	QTY
11.	BLOWER	1 NO
10.	MUFFLER	2 NOS
9.	REGENERATION VALVE	1 NO
8.	DEPRESSURISATION VALVE	1 NO
7.	REPRESSURISATION VALVE	1 NO
6.	NON RETURN VALVE	1 NO
5.	SAFETY VALVE	2 NOS
4.	OUTLET 4 WAY DIVERTING VALVE	1 NO
3.	INLET 4 WAY DIVERTING VALVE	1 NO
1&2	ADSORBENT TOWERS	1 NO

S.NO	DESCRIPTION	QTY
20.	DEW POINT SPIKE CONTROL VALVE	1 NO
19.	AUTO DRAIN VALVE	1 NO
18.	PRESSURE GAUGE	2 NOS
17.	TEMPERATURE GAUGE	2 NOS
16.	TEMPERATURE SENSOR	1 NO
15.	AFTER FILTER	1 NO
14.	PRE FILTER	1 NO
13.	NON RETURN VALVE	2 NOS
12.	HEATER	1 NO

Our Other Range of Products

● Time based Auto Drain Valve ● Level Sensing Auto Drain Valve
● Desiccant Dryer (Heatless) ● Refrigeration type Dryer
● Micro Filter ● Air / Water Cooled After Cooler ● Air Receiver
● Flex Dryer

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