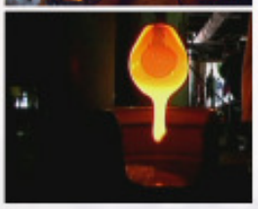
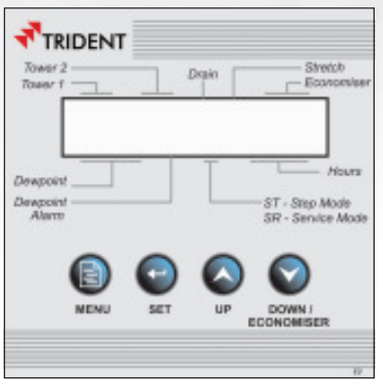
TRIDENT
engineering quality air & gas





Purge Economiser - Reduces purge loss and energy according to load requirements.

Accepts dewpoint meter signal to cycle on dewpoint based cycle change over and saves energy.

- Designed for - ISO : 7183-1986 (E)
- Dryer Quality Class - ISO : 8573-1 : 2010 (E) Class 2 (-40ºC PDP)
- Pressure Drop <0.3 kg/cm^2 (g)
- Fabrication Code: IS 2825.
- LCD Display.
- Filter made of aluminium with differential pressure indicator.
- Inbuilt Sample gas chamber and electrical outlet for Miniature Dew point Transmitter.
- Operating Voltage: 230 ± 10 % V AC 50/60 Hz 1 Ph.

Compressed Air Dryers (Heatless)

DP V3 Series

Selection Example

Requirement :

Flow Volume : 480 cfm

Working Pressure : 10 bar (g)

Inlet Air Temperature : 45ºC

Referring the Graphs : Factor (P) = 1.4
Factor (T) = 0.67

Dryer capacity required :

$$\frac{\text{Flow volume}}{\text{Factor (T) x Factor (P)}} = \frac{480}{1.4 \times 0.67} = 512 \text{ cfm}$$

Choose the nearest higher model i.e, Model DP 960 V3

Model	Item Code	Inlet Flow cfm	End Connection	Dimensions (mm)			Weight Kg
				Height	Width	Depth	
DP 768 V3	PD364	450	2" NB	1790	1120	870	520
DP 960 V3	PD365	565	2" NB	1760	1320	870	620
DP 1440 V3	PD366	850	3" NB	1910	1620	1020	940
DP 1920 V3	PD367	1130	3" NB	2010	1620	1020	1020

- For any other capacity contact factory.
- Specifications are subject to change without notification.

Specification

Maximum Operating Pressure : 12.5 kg/cm² (g)

Rated Air Inlet Temperature : 38ºC

Rated Operating Pressure : 7 kg/cm²

Pre - Filter Rating : 5 micron

After - Filter Rating : 1 micron

Cycle Time : 5 minutes

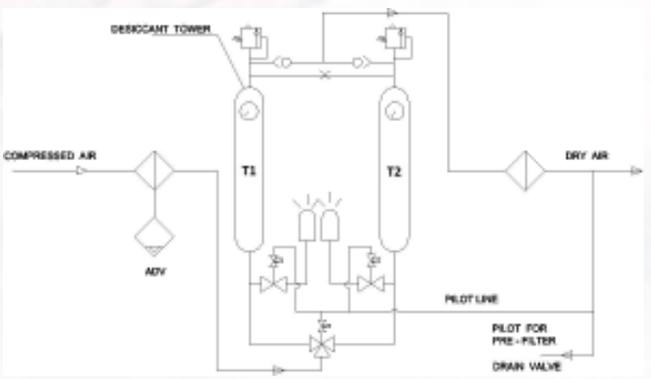
Purge Loss : 15 ± 1%

Outlet Air Quality : -40ºC PDP

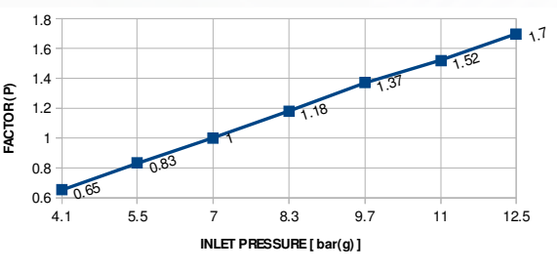
Principle of Operation

Drying Cycle : Moist air from the compressor is sent through the coalescing filter, there water & oil coalesces and purges through the auto drain valve. The relatively clean air with water vapor passes through the one of the towers filled with desiccant gets completely dried (upto -40ºC PDP) and then passes through a built in After - filter (1 micron). The desiccant fines from the tower are completely removed and clean air is let out through the outlet port for use.

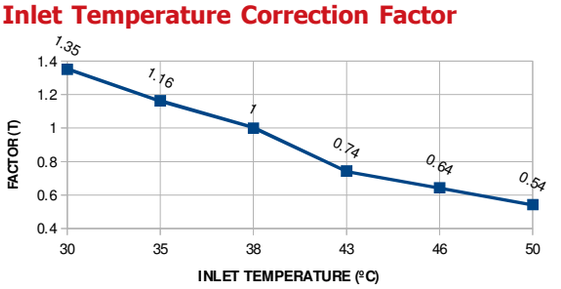
Regeneration Cycle : During the regeneration cycle, the sudden depressurisation brings out water molecule strapped in the Desiccant pores to the surface of the beads. A small portion of dry compressed air from the drying tower then passes over the desiccant through the regeneration orifice. This results in complete regeneration of the Desiccant.



Inlet Pressure Correction Factor



Inlet Temperature Correction Factor



Our Other Range of Products

• Timer based Auto Drain Valve • Level Sensing Auto Drain Valve • Desiccant Dryer (Heated) • Refrigeration Dryers • Water Separator • Submicron Filter

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