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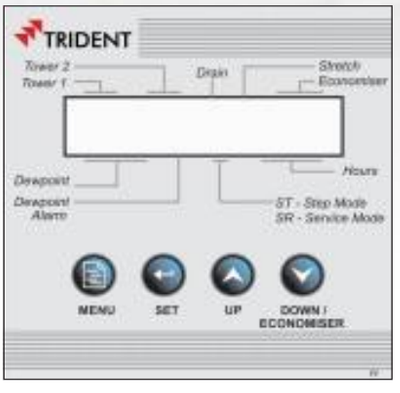


Purge Economiser - Reduces purge loss and energy according to load requirements.

Accepts dewpoint meter signal to cycle on dewpoint temperature instead of time.

- Designed For - ISO:7183-1986 (E)
- Dryer Quality Class - ISO : 8573-1 : 2010 (E) class 3 (-20 PDP)
- Pressure Drop < 0.3 kg/cm² (g)
- Fabrication Code: IS 2825
- LCD Display
- Stainless Steel Internals

Compressed Air Dryers (Heatless)

DP V2 Series

Selection Example

Requirement :

Flow Volume:480 cfn

Working Pressure:7 Kg / cm2

Inlet air Temperature:45oc

Referring the Graphs:Factor (T) = 1.0
Factor (P) = 1.0

Dryer capacity required:

$$\frac{\text{Flow volume480}}{\text{Factor (T) x Factor (P)1.0 x 1.0}} = 480 \text{ cfm}$$

Choose the nearest higher model i.e, Model DP-960V2

Model	Item Code	Inlet Flow cfm	End Connection	Dimensions			Weight Kg
				Height	Width	Depth	
DP-768V2	PD328	450	2" NB	1750	1320	850	850
DP-960V2	PD329	565	2" NB	1730	1430	850	950
DP-1440V2	PD330	850	3"NB	1865	1930	1000	1265
DP-1920V2	PD331	1130	3" NB	1990	1930	1000	1575

- Operating voltage - 230 V AC 50 Hz 1 Ph.
- For any other capacity contact factory.
- Specifications are subject to change without notification.

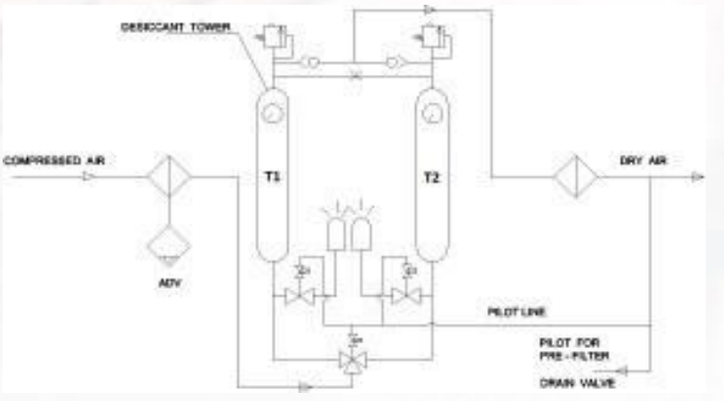
Specification

Maximum Operating Pressure	: 12.5 kg/cm² (g)
Air Inlet Temperature	:45 °C
Operating pressure	:7 kg/cm² (g)
Pre - Filter Rating	:5 Micron
After - Filter Rating	:1 Micron
Cycle Time	:10 Minutes
Operating Voltage	:195 - 253 VAC 50±5% Hz 1 Ph
Purge Loss	:12 ± 1%

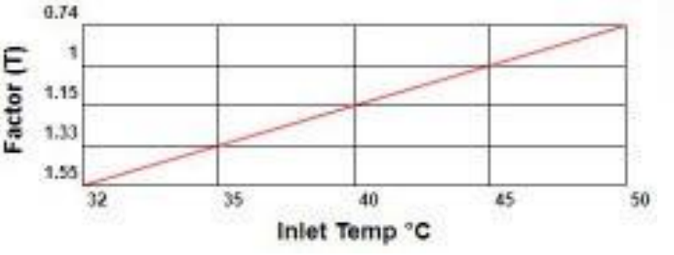
Principle of Operation

Drying Cycle : Moist air from the compressor is sent through the coalescing filter. Here water & oil coalesces and purges through the auto drain valve. The relatively clean air with water vapour passing through the aluminum drying tower filled with desiccant gets completely dried (up to -20*C PDP) and then passes through a built in after filter (1 micron). The desiccant fines from the towers are completely removed and clean dry air is let out through the outletport for use.

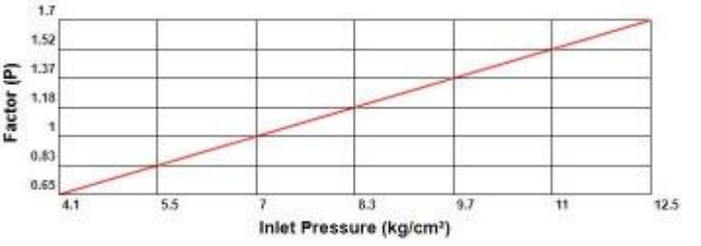
Regeneration Cycle : During the regeneration cycle, the sudden depressurisation brings out water molecule strapped in the desiccat pores to the surface of the beads. A small portion of dry compressed air from the drying tower then passes over the desiccant through the regeneration orifice built in the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



Inlet Temperature Correction Factor



Inlet Pressure Correction Factor





Our Other Range of Products

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



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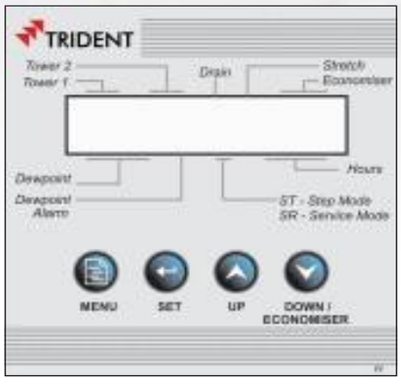


Purge Economiser - Reduces purge loss and energy according to load requirements.

Accepts dewpoint meter signal to cycle on dewpoint temperature instead of time.

- Designed for - ISO : 7183-1986 (E)
  Dryer Quality Class - ISO : 8573-1 : 2010 (E)
- Class 2
  (-40ºC PDP)
- Pressure Drop <0.3 kg/cm2 (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:

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

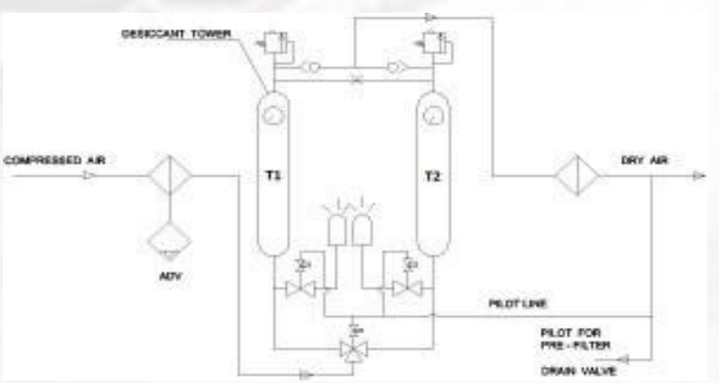
Choose the nearest higher model i.e, Model DP 960 V3

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 straped in the desiccant pores to the surface of the beads. A small portion of dry compressed air from the dying tower then passes over the deisiccant through the regeneration orifice. This results in complete regeneration of the desiccant.

Model	Item Code	Inlet Flow cfm	End Connections	Dimensions (mm)			Weight Kg
				Height	Width	Depth	
DP 768 V3	PD364	450	2" NB	1770	1100	850	520
DP 960 V3	PD365	565	2"NB	1740	1300	850	620
DP 1440 V3	PD366	850	3"NB	1890	1600	1000	940
DP 1920 V3	PD367	1130	3"NB	1990	1600	1000	1020

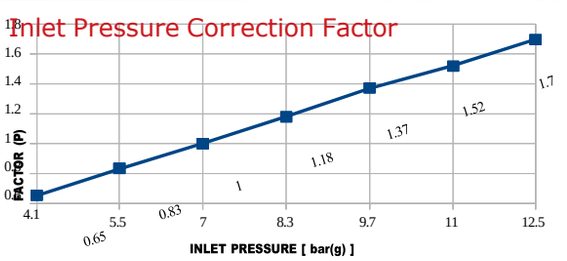


- For any other capacity contact factory.
- Specifications are subject to change without notification.

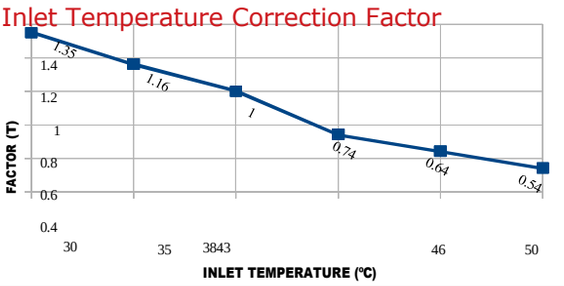
Specification

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

Inlet Pressure Correction Factor



Inlet Temperature Correction Factor



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