

Compressed Air Dryers

Type 3 dryer range for railway applications



Compressed air adsorption dryers

Compressed air adsorption dryers are designed to remove water vapour only. Water in a liquid or aerosol form additionally requires the use of coalescing filters to remove effectively. The Type 3 modular adsorption dryer comprises of twin desiccant filled chambers to dry the compressed air as it passes through, using the pressure swing adsorption (PSA) method of drying. One chamber is operational (drying), while the opposite chamber is regenerating.

This type of dryer is extremely efficient and a typical pressure dew point for adsorption dryers is -40°C (-40°F). However, in rolling stock applications, the dryness of the compressed air is stated as a dew point suppression.

For compressed air applications such as braking systems, suspension, pantograph operation, automatic doors and ancillaries (e.g. wipers and horn), the Type 3 dryer can be specified in vertical, horizontal or stacked configurations to meet your space requirements. The Type 3 dryer is therefore suitable for High Speed Trains, Very High Speed Trains, Regional EMU's and DMU's, locomotives and railway maintenance vehicles.



The Parker domnick hunter Design Philosophy

Parker domnick hunter has been supplying its' customers with high efficiency compressed air purification products since 1963. Our philosophy 'Designed for Air Quality & Energy Efficiency' ensures products that not only provide the user with clean, oil-free and dry compressed air, but also with low lifetime costs and reduced CO₂ emissions.



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Benefits:

- **Delivered air quality in accordance with NF F11-100 and ISO8573-1:2010, the International standard for compressed air quality**
- **Continued protection of downstream equipment and applications**
- **Consistent dew point performance**
- **Reduce unplanned maintenance and set out for service costs**
- **Easy to maintain**
- **Low operational costs**
- **Compact and lightweight**
- **Low noise level <75dB(A)**
- **Approvals to international standards**
- **10 year guarantee on pressure envelope**
- **Peace of mind**

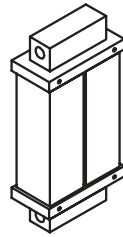


ENGINEERING YOUR SUCCESS.

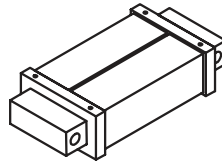


Dryer orientation

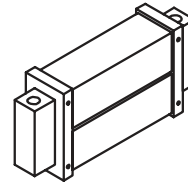
The Parker domnick hunter compressed air drying systems also have the advantage of being installed in horizontal and stacked orientations where the available space envelope precludes the vertical installation of a dryer.



**TDV
(Vertical)**



**TDH
(Horizontal)**



**TDS
(Stacked)**

Technical Data

Desiccant Dryer Type:	Dew Point Suppression
Drying Efficiency (typically):	40°C (72°F) pdp reduction on inlet temperature
Test Methods used:	ISO7183:2007 (generally in accordance with)
Operating Pressure:	4 bar g to 12 bar g (58 psi g to 174 psi g)
Operating Temperature range:	-25°C to +70°C (-13°F to +158°F) with trace heating
Initial Differential Pressure:	<200mbar (3psi) at 7 bar g (100 psi g)
Precede with Filtration Grades:	Grades SE/GE & HE – Lubricated Compressor Grades SE & HE – Oil-Free Compressor
Change Desiccant Every:	3 – 5 years
Shock and Vibration:	Tested to BRB/LU Ltd./RIA Technical Specification No.20.

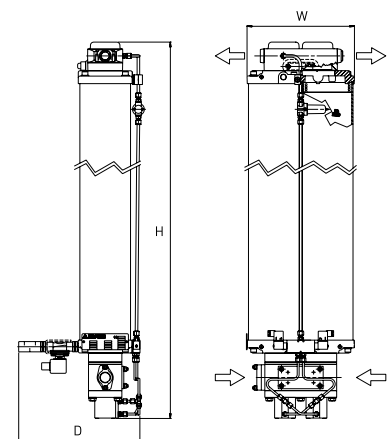
Product Selection

Model	Pipe Size BSPP	Flow Rates		Recommended Filtration			
		L/min	cfm	TF-SE	TF-GE	TF-HE	TF-DE
TD*0800G	G1	2323	81	TFSE240E	TFGE360E	TFHE360E	TFDE360E
TD*0818G		2378	83				
TD*0950G		2776	97				
TD*0984G		2879	101				
TD*1100G		3229	113				
TD*1232G		3627	127				

Note: * = Vertical, Horizontal or Stacked option

Weights and Dimensions

Model	Pipe Size BSPP	Height (H)		Width (W)		Depth (D)		Weight	
		mm	ins	mm	ins	mm	ins	kg	lbs
TD*0800G	G1	1174	46.2	335	13.2	378	14.9	40	88
TD*0818G		1192	46.9					70	154
TD*0950G		1324	52.1					77	169
TD*0984G		1358	53.5					79	174
TD*1100G		1474	58.0					86	189
TD*1232G		1606	63.2					94	207



Models 0800 - 1232