Dehydrator

Humidity, the critical issue

In theory wave guides and cables are airtight, however practice shows humidity leakage problems occur relatively shortly after installation. Temperature fluctuations and windspeeds cause pressure differences between inside and outside so that wet ambient air enters the system.

In addition, antenna-windows and connections are not completely water vapour tight.

To remove the revulting humidity efficiently, a regular rinsing with dry air is required. A combination of a pressurizer/dryer at the base of the tower, and an exhaust assembly in the wave guide near the antenna-window guarantees sufficient removal of water vapour. This results in a reduced risk of corrosion and arcing and keeps the transmission performance at maximum efficiency. The benefit: low maintenance costs with optimum service to users.

Each delair Etsiline pressurizer is produced with two heat-regenerated absobers, an air compressor, a pressure relief valve and a microprocessor-controlled printed-circuit board. The combination results in an attractive pressurizer which is suitable for fully continuous and automatic operation.

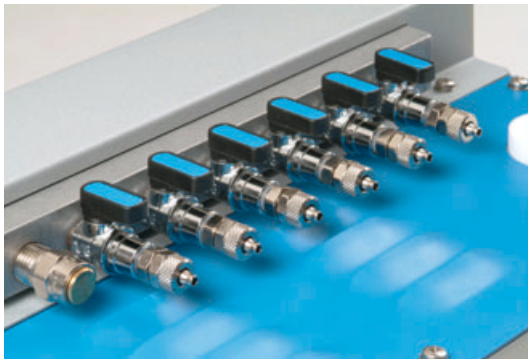
How delair® Etsiline Pressurizers Work

Etsiline pressurizers use porous materials (desiccants) to adsorb the water molecules from the air flow. Two desiccant adsorbers guarantee a continuous operation. When one adsorber is removing moisture the other one is being regenerated.

Benefits & Features

- Flexible arrangement
  suitable for wall, floor, ETSI and 19” rack mounting
- Plug and Play
- Low noise and vibration
- High reliability
- Digital control and read-out
- Low power consumption
  and high efficiency

The Etsiline pressurizers are equiped with 6 valves.



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Dehydrator

DEHYDRATOR

Etsiline 32 and 52	Model A
Microprocessor controlled printed circuit board	•
Digital display:	
- Digital pressure indication	•
- Analog pressure indication	•
- Operating time indication	•
- Process read-out	•
Programmable pressure level	-
- standard pressure ranges (factory set)	20 - 30 mbar
- other pressure ranges on request	40 - 80 mbar
Outlets, each equipped with shut-off valve	6
Tubing 6 mm OD, other sizes on request	•
Remote pressure sense input	•
Optical dew point indication	•
Safety relief valve	•
Electrical fuse	•
Low pressure alarm	•
Mounting	
- ETSI-rack	•
- 19” rack	•
- Wall mounting	•
- Floor/table mounting	•
Tropical version (ambient dew point <+19°C)	•
Medium	Ambient air
Operation	Fully automatic and continuous
Location	Indoors
Enclosure	IP 40
Ambient temperature	-10°C tot +45°C
Relative humidity	Max. 95%
Outlet dew point @ full load, 23°C inlet, 83% R.H.	< -40°C
Power supply	110V, 230V, 50/60 Hz
	24V, 48V, 60V DC
Drying time	6 hours
Regeneration time	3 hours
Stand-by time	depending on requirements

TECHNICAL DATA

Model	Configuration	Outlet capacity	Power consumption			Sound level	Dimensions			Weight
			Drying	Regeneration	Stand-by		Width	Depth	Height	
		l/h	W	W	W	dB(A)	mm	mm	mm	kg
delair Etsiline 32	ETSI-rack	30	9	53	5	< 43	535	200	221,5	10
	19” rack						482,6	200	221,5	
	Wall mounting						420	234	221,5	
	Floor/table mounting						420	200	243,5	
delair Etsiline 52	ETSI-rack	50	9	53	5	< 43	535	200	221,5	10
	19” rack						482,6	200	221,5	
	Wall mounting						420	234	221,5	
	Floor/table mounting						420	200	243,5	

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