DEHYDRATOR

AUTOMATIC REGENERATION

CONSTANT PRESSURE / ALL OR NOTHING
DESIGN ON DEMAND

Key features

To preserve moisture HF transmission line (waveguide, coaxial ventilated, antennas etc ...) supplied with high power transmitters (several kW), it is necessary to pressurize and to dehydrate these lines in order to avoid the ionization of water molecules and avoid electric arc phenomena that are likely to destroy the transmission line or even cause a fire.

The pressurizer is intended to inject dry air into any HF system. The moisture content of the dried air is kept low enough to prevent condensation. This lowering of the dew point considerably increases the reliability and longevity of the system.

- Military radars, embarked on ships or on tactical stations,
- Civils radars,
- Missile guidance device,
- High-power transmitters of television or radio broadcasting...

Benefits

☑ Different flow available

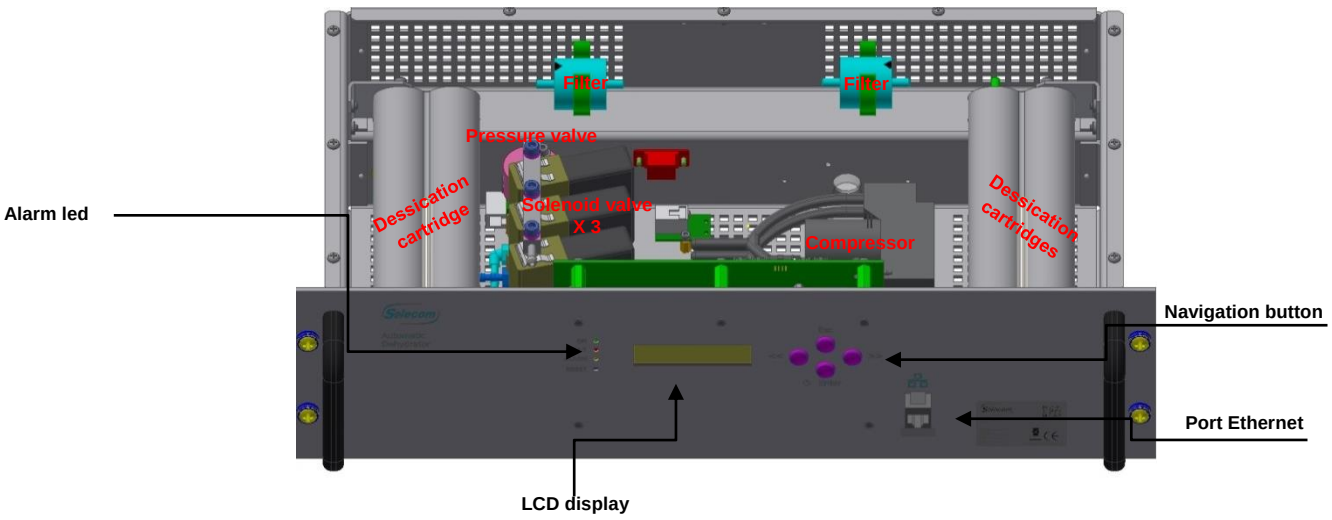
☑ Digital display for fast reading

☑ Configuration, Monitoring and remote controle (Option)

Specifications

Pneumatics characteristics

Descriptif	Model All or nothing	Model At constant pressure	Values
Dew point temperature	All references		Reduced by -40 °C for an ambient temperature of 20°C and 95 % relative humidity Dew point ambient point 19,5°C obtained dew point 19,5°-40°C = - 20,5°C
Pressure control	Piezo resistive pressure sensor		
Protection against over pressure	SEL000174 SEL000176	SEL000113 SEL000170	Safety valve opening at 50 hPa ±25 hPa for compressor flow
	SEL000177 SEL000178 SEL000175 SEL000180	SEL000171 SEL000172 SEL000112 SEL000181	Safety valve opening at 160 hPa ± 40 hPa for compressor flow
	SEL000179	SEL000173	Safety valve opening at 500 hPa ± 50 hPa for compressor flow
Drying medium	Molecular sieve filter		
Regénération	Heating and sweeping with dry air		



Mechanical characteristics

Dimensions	L483 mm x H132.5 mm x P230 mm
Weight	5 Kg

Electrical characteristics

Descriptif		**Model All or nothing**	**Model At constant pressure**	**Values**
Mains voltage		SEL000177 SEL000175 SEL000179 SEL000178 SEL000174 SEL000180	SEL000171 SEL000112 SEL000173 SEL000172 SEL000113 SEL000181	230V 50/60Hz
		SEL000176	SEL000170	115V 50/60Hz
Protection		All reference		Fusible type F 5x20 2 A
Consumption	**Filling**	All reference		20 W
	Heating	All reference		220 W
	Filling and Heating	All reference		230 W
Switching alarm circuits		60V maxi 1 A		

Air flow

Air flow	SEL000175 SEL000174	SEL000112 SEL000113	300l/h max (at the specified pressure *)
	SEL000177	SEL000171	260 l/h max (at the specified pressure *)
	SEL000178 SEL000176	SEL000172 SEL000170	280 l/h max (at the specified pressure *)
Alarm pressure	SEL000175 SEL000178 SEL000174 SEL000176	SEL000112 SEL000172 SEL000113 SEL000170	10 hPa ± 3 hPa
	SEL000177	SEL000171	15 hPa ± 5 hPa
Low pressure	SEL000175 SEL000174 SEL000176 SEL000178	SEL000112 SEL000113 SEL000170 SEL000172	20 hPa ± 5 hPa
	SEL000177	SEL000171	40 hPa ± 5 hPa
	SEL000179	SEL000173	200 hPa ± 20 hPa
High pressure	SEL000175 SEL000174 SEL000176	SEL000112 SEL000113 SEL000170	40 hPa ± 3 hPa
	SEL000178	SEL000172	60 hPa ± 5 hPa
	SEL000177	SEL000171	80 hPa ± 5 hPa
	SEL000179	SEL000173	300 hPa ± 30 hPa

Interface

Display	Backlit LCD 2 lines - 16 characters
Affichage	Hour meter / Pressure / alarms / Access to configuration menus On / off function Humidity level
Ethernet port	1
Monitoring	WEB interface Agent SNMP V2*
Alarms	Dry loops (x3) NC or NO (Default Pressure / Heating / Humidity)

Environment

Storage	-20°C/+70°C
Operation specs guaranteed	-0°C/+40°C
Operation specs without guaranteed	.-10°C/+50°C
Max humidity	95% RH à 20°C
Dry air output	Fluted tip for hose Ø 8 mm
MTBF	5 000 h

More informations: www.see-critical.com

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