

TELECOMS DEHYDRATOR



TELECOMS DEHYDRATOR CCD SERIES

The CCD Series is a totally new Dehydrator. Designed and manufactured in South Africa by **Polar Air**. The dehydrator is built to International Standards and backed up by more than 30 years of experience in the manufacturing of Cable Pressurisation Equipment.

The most reliable and advanced Embedded processor technology is incorporated, controlling all aspects of the dehydrator, thereby adding new features and flexibility as required in modern Telecommunication Networks today.

The dehydrator can be remotely monitored and managed via modem, network or internet links using the Polar Air Remote Management software or it can be integrated into wider systems via an open standards interface.

All working parameters are displayed digitally, Alarm Thresholds are flexible and adjustable.

The dehydrator will hunt and adjust automatically for the desired pressure in the Telephone Cables.

An exceptional feature is the self diagnostic capability of the dehydrator whereby the dryness of the compressed air can be checked and verified via the remote computer.

The dedicated operating software developed by Polar Air is supplied to all our customers.

This Dehydrator is designed for your specific requirements, using the most modern engineering solutions.

Years of experience in Dehydrator technology provides you with a product you can rely on.



GENERAL SPECS

COMPRESSOR COOLING	cooling fans (compressor heads)
CABINET COOLING	cooling fan (91W)
SERVICE INTERVAL	1000 Hr (minor), 3000 Hr (major)
RECEIVER CAPACITY	110 litres
AIR DRYER	twin bed fully automatic (heatless reactivation)
DEW POINT PROBE TESTING FACILITY	push button or via management system
MANUAL HOUR COUNTER	recording compressor operating time
OUTPUT PRESSURE	target set at 70 kPa (adjustable from management system)
LINE PRESSURE SAFETY VALVE	to prevent over pressurisation of cables (set at 110 kPa)
NOISE LEVEL	< 60 dBA

ALARM FACILITIES

dew point 1	minor	-22°C
dew point 2	major	-18°C
line pressure	low	user defined between 50 -90 kPa
	high	user defined between 50 -90 kPa
tank pressure	low	fixed at 250 kPa
	high	fixed at 680 kPa
flow rate		
auxiliary 1	high	maximum 160 L/min at 1500m
auxiliary 2		external alarm inputs
DAF10 alarm's		digital alarm flow monitor DAF10

*Alarm Threshold values can be adjusted via The Software Management System.
Alarm extension ports are provided on the side of the dehydrator.*

LED DISPLAY	compressor on, desiccator tower 1 /tower 2 power on, maintenance, test, modem
DIGITAL DISPLAY	dew point (° c), tank pressure (kPa), line pressure (kPa), flow rate (L/min)
MODEM CONNECTION	RJ - 11 and screw terminal
NETWORK CONNECTION	RJ - 45
ENCLOSURE	powder coated milled steel cabinet

MACHINE SPECIFICATIONS



	CCD 840	CCD 400	CCD 200
COMPRESSOR	2 x oil free, 4 cylinder compressor, 2.2kW each	2 x oil free, 2 cylinder compressor, 1.3kW each	2 x oil free, single cylinder compressor, 0.8kW each
POWER SUPPLY	400VAC ± 10%, 50Hz, 3 phase	230VAC ± 10%, 50Hz, single phase	230VAC ± 10%, 50Hz, single phase
DRY AIR OUTPUT	10800 N litre/Hr one compressor, 21600 N litre/Hr two compressor	4800 N litre/Hr one compressor, 9600 N litre/Hr two compressor	3000 N litre/Hr one compressor, 6000 N litre/Hr two compressor
HUMIDITY DETECTION	electronically controlled dew point probe	electronically controlled dew point probe	electronically controlled dew point probe
RELATIVE HUMIDITY OF DRY AIR	< 0,8 % RH = <minus 36° C	< 0,8 % RH = <minus 36° C	< 0,8 % RH = <minus 36° C
OPERATING TEMPERATURE	-5° to +50° C	-5° to +50° C	-5° to +50° C
AIR OUTLET CONNECTION	4 x 8 mm ØD push on fitting	2 x 8 mm ØD push on fitting	2 x 8 mm ØD push on fitting