PRODUCT DATASHEET

KD-C70 Series Dehydrator

KD-C70 Desiccant Dehydrator, 0.71 SCFM, 1200L/h, 0.2 to 7psi Field Adjustable Pressure

The KD-C70 series dehydrators provide a cost-effective solution to pressurize elliptical waveguides, coaxial cables, rigid transmission lines, and antenna systems reliably. By utilizing dry pressurized air in the distribution system, condensation is prevented, ensuring optimal system performance.
The KD-C70 series dehydrators operate automatically once powered on, supplying dry air and maintaining the output pressure within the specified range. They utilize high performance, cobalt-free allochroic silica gel as the desiccant to absorb moisture and dry the air safely and efficiently. The dehydrator is equipped with a desiccant display window for users to conveniently check the dryness of the output air and the condition of the desiccant. The desiccant can be easily taken out and filed back to the dehydrator after being regenerated by a quick heating process using a microwave oven or traditional oven.

FEATURES / BENEFITS

- High flow rate and capacity to support large size telecom, medium size broadcasting and radar applications: 0.71SCFM or 20.L/min (+/-10% at 25°C)
- Pre-programed in the factory to minimize installation time on the site.
- High pressure, low pressure, and excess run come as standard configuration.
- 4 gas outlet ports with supplied tubing support up to 4 transmission lines, optional gas distribution manifold is available.
- Unique leakage detection function aids in inspecting the airtighness of the system.
- Support local or remote management using web browsers
- Provide audible and visible alarm signal, as well as alarm port for external monitor systems.
- 110VAC, 220VAC and 48VDC power models available.

Technical features

GENERAL SPECIFICATIONS

Product Model		KD-C70	KD-C72
Dehydrator Type		Manual Desiccant Regeneration, Automatic Pressurization	
System Capacity		Medium	
60 Hz Output Capacity Nl/h (SCFM)		1200 (0.71) +/- 10%	1200 (0.71) +/- 10%
50 Hz Output Capacity Nl/h (SCFM)		1080 (0.64) +/- 10%	1080 (0.64) +/- 10%
Output Dew Point	°C (°F)	Better Than -30 (-22)	
Factory Set Output Pressure (on/off)	kPa (psig)	21 / 35 (3 / 5)	
Field Adjustable Output Pressure Range	kPa (psig)	Field configurable from 1 - 50 (0.2 - 7)	
Number of Outlets		4	
Output Fitting		Push-on quick fit for 3/8" OD tube	
Network Management		Web Browser	

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ELECTRICAL SPECIFICATIONS

Product Model		KD-C70	KD-C72
Operating Voltage	V	110 +/- 10%, 60Hz	220 +/- 10%, 50/60Hz
Max. Active Current	A	1.1	0.6
Max. Power Consumption	Watt	120	
Electrical Feed Circuit Configuation		Single phase, 3-Conductor (Phase/Neutral/Ground)	
Electrical Inlet Connector		IEC 320 Type C 14	
Alarm Port		Relay Contact, Load Capacity 30VDC/1.0A or 125VAC/0.5A	

ENVIRONMENTAL SPECIFICATIONS

Ambient Temperature Range	°C (°F)	-25 to 50 (-13 to 122)
Ambient Humidity Range, relative	%	0 - 95
Noise, dBA @ 1 m, Active	dBA	65

MECHANICAL SPECIFICATIONS

Dimensions, H x W x D	mm (in)	275 x 315 x 150 (10.8 x 12.4 x 5.9)
Net Weight	kg (lb)	7.3 (16.1)
Mounting		Desktop and Wall Mount

INTERFACE

Front Panel Indicators		Alarm (red), Working (green), L D (yellow)
Display		4 Segment Numeric Display to Show Pressure Values, and Log Information
Control Buttons		4, including +Add/P, -Dec/Q, Set and LeakDetection buttons
Alarm Terminal		Alarm Summary and Power Failure, 3 Pin Dry Contact NC, COM, NO

ALARMS

Alarm Configuration		Low Pressure Alarm, High Pressure Alarm, Excess Run Alarm
Alarm Contact Rating		Dry Contact, 30VDC 1A or 125VAC 0.5A
Low Pressure Alarm		Factory set at 0.1 psi lower than the low pressure limit setting
High Pressure Alarm		Factory set at 0.5 psi higher than the high pressure limit setting
Excess Run Alarm	minutes	30
Event Log		Unit Power-on Time, Number of Inflating

COMPLIANCE

Compliance		CE, RoHS LVD: EN60204-1:2006+AC:2010

STANDARD ACCESSORIES

Item	Quantity	Description
Power Cord	1 pc	6ft (1.8m) long, 110V and 220V AC models with plug, 48V DC model has lugs
Fuse	2 pcs	Spare fuse
Gas Inlet Adaptor	4 pcs	1/8 thread and 3/8" OD screw-on
Plastic Tube	33 ft (10m)	Black, 3/8" OD
Teflon Tape	1 roll	For Air-tightness in Connections

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Bracket	1 pair	For wall mount
3.5mm Plug	1 pc	For connecting alarm port to external monitoring system

OPTIONAL ACCESSORIES AND MAINTENANCE KIT

Item	Quantity	Part Number
Desiccant Replacement Kit	1 pc	KD27002

External Document Links
Quick Installation Guide
Product Manual

Notes
1) All specifiactions at 23°C (73°F) and 50% relative humidity at mean sea level (MSL) unless otherwise noted.

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