

KD20 Series Dehydrator

KD20 Automatic Dehydrator, 0.27 SCFM, 460L/h, 0.2 to 7psi Field Adjustable Pressure

The automatic dehydrator series KD20 is specifically engineered 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 KD20 dehydrators feature high-activited aluminum oxide to absorb moisture, along with a dualchamber system that delivers pressurized dry air while automatically regenerating the desiccant by purging collected moisture to the atmosphere. This innovative design eliminates the need for desiccant replacement or manual reactivation, making the dehydrators perfect for unattended operation, even in remote locations. With proper installation, operation, and maintenance, these units can provide years of trouble-free service.



FEATURES / BENEFITS

- · High flow rate and capacity to support telecom, small to medium size broadcasting and radar applications: 0.27SCFM or 7.7L/min (+/-10% at 25°C)
- Pre-programed in the factory to minimize installation time on the site.
- High pressure, low pressure, excess run and dew point alarms come as standard configuration.
- 2 gas outlet ports with supplied tubing support up to 2 transmission lines, optional gas distribution manifold is available.
- Unique leakage detection function aids in inspecting the airtighness of the system.
- · Compact 2U height enclouse with supplied brackets supports versatile mounting including desktop, rack and wall mount.
- 110VAC, 220VAC and 48VDC power models available.
- KD20S/KD22S/KD24S models can be managed by network management system using SNMP and other popular protocols.

Technical features

GENERAL SPECIFICATIONS

Product Model		KD20	KD20S	KD22	KD22S	KD24-DC	KD24S-DC
Dehydrator Type		Automatic Pressurization, Automatic Regeneration					
System Capacity		Standard					
60 Hz Output Capacity NI/h (SCFM)		460 (0.27) +/- 10%		460 (0.27) +/- 10%		420 (0.25) +/- 10%	
50 Hz Output Capacity NI/h (SCFM)		420 (0.25) +/- 10%		420 (0.25) +/- 10%			
Output Dew Point	°C (°F)	Better than -45 (-49)					
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		2					
Output Fitting		Push-on quick fit for 3/8" OD tube					
Network Management Protocols			KD20/22/24: N//	N/A KD20S/22S/24S: SNMP, TCP Server/Client, U		ver/Client, UD	

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Product Model		KD20	KD20S	KD22	KD22S	KD24-DC	KD24S-DC
Operating Voltage	V	110 +/- 10%, 60Hz		220 +/- 10%, 50/60Hz		-48VDC +/- 10%	
Max. Active Current	А	2		1		4.2	
Max. Power Consumption	Watt	20			200		
Electrical Feed Circuit Configuation		Single phase, 3-Conductor (Phase/Neutral/Ground)					
Electrical Inlet Connector		IEC 320 Type C 14					
ENVIRONMENTAL SPECIFICATIONS							
Ambient Temperature Range	°C (°F)	-25 to 65 (-13 to 149)					
Ambient Humidity Range, relative	%	0 - 95					
Noise, dBA @ 1 m, Active	dBA	65					
MECHANICAL SPECIFICATIONS							
Dimensions, H x W x D	mm (in)	88 x 482 x 345 (3.5 x 19 x 17.1)					
Net Weight	kg (lb)	9 (20)					
Mounting		Desktop, 19" Rack (2U space required) and Wall Mount					
INTERFACE							
Front Panel Indicators		Alarm (red), Working (green), L D (yellow)					
Display		4 Segment Numeric Display to Show Pressure Values, Alarm Codes, Dehydrator State Cod Other Information				State Codes and	
Control Buttons		4, including +Add/P, -Dec/Q, Set and LeakDetection buttons					
Keypad Tone		Field adjustable to On or Off					
ALARMS							
Alarm Configuration		Low	Pressure Alarm, I	High Pressure A	larm, Excess Run	Alarm, Dew Poin	t Alarm
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					
Dew Point Alarm		When unit output air dew point is higher than -5°C (23°F)					
Event Log		Unit power-on time, Accumulated inflating time, Number of inflating, Alarm Code, Working St Regenerating State				e, Working State	
COMPLIANCE							
Compliance		CE, RoHS LVD: EN 60204-1:2018 EMC: EN IEC 61000-6-2: 2019, EN IEC 61000-6-4: 2019					
STANDARD ACCESSORIES							
Item	Quantity	Description					
Power Cord	1 pc	6ft (1.8m) long, 110V and 220V AC models with plug, 48V DC model has lug			ıs lugs		
Fuse	2 pcs	Spare fuse					
Gas Inlet Adaptor	2 pcs	1/8 thread and 3/8" OD screw-on					

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PRODUCT DATASHEET

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Plastic Tube	33 ft (10m)	Black, 3/8" OD
Mount Bracket	2 pair	One for rack mount and one for wall mount
Rubber feet	4 pcs	For desktop mount
Handle	1 pair	Stainless Steel
Teflon Tape	1 roll	For Air-tightness in Connections

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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