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Product Manual

AUTOMATIC AIR DEHYDRATOR KD20 / KD70 Series

Model Covered by This Manual:

KD20 / KD22 / KD20S / KD22S/KD24-DC/KD24S-DC



KD70 / KD72 / KD70S / KD72S/KD74-DC/KD74S-DC



PLEASE READ THIS MANUAL THOROUGHLY AND SAVE FOR FUTURE REFERENCE.



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1. WARNINGS, CAUTIONS & NOTES

NOTE: Read this manual before installation or operation of the dehydrator.

WARNING

Power source of the dehydrator must have proper ground connection, to reduces the risk of electrical shock, electrocution, and fires caused by unexpected voltage spikes or short circuits.

High noise may be generated when the dehydrator operates.



Hazardous voltages exist inside the unit. Unplug the power before servicing. Do not energize or operate the unit with the lid removed.



The unit starts automatically when power switches to on. Do not operate unit without cover secured properly in place.



2. PRODUCT INTRODUCTION

2.1 Product Description

The KD20 and KD70 Series Automatic Air Dehydrators are designed to provide a source of dry, pressurized air by removing moisture from the ambient air. The unit performs this process automatically with minimal maintenance requirements.

2.2 KD20 and KD70 Series Dehydrator Models

Model	Description
KD20	0.27SCFM (460L/h), 0.2 to 7psi Configurable Pressure, 110VAC Dehydrator
KD20S	0.27SCFM (460L/h), 0.2 to 7psi Configurable Pressure, 110VAC Dehydrator, with network
	management protocols
KD22	0.25SCFM (420L/h), 0.2 to 7psi Configurable Pressure, 220VAC Dehydrator
KD22S	0.25SCFM (420L/h), 0.2 to 7psi Configurable Pressure, 220VAC Dehydrator, with network
	management protocols
KD24-DC	0.25SCFM (420L/h), 0.2 to 7psi Configurable Pressure, -48VDC Dehydrator
KD24S-DC	0.25SCFM (420L/h), 0.2 to 7psi Configurable Pressure, -48VDC Dehydrator, with network
	management protocols
KD70	0.78SCFM (1300L/h), 0.2 to 7psi Configurable Pressure, 110VAC Dehydrator
KD70S	0.78SCFM (1300L/h), 0.2 to 7psi Configurable Pressure, 110VAC Dehydrator, with network
	management
KD72	0.71SCFM (1200L/h), 0.2 to 7psi Configurable Pressure, 220VAC Dehydrator
KD72S	0.71SCFM (1200L/h), 0.2 to 7psi Configurable Pressure, 220VAC Dehydrator, with network
	management protocols
KD74-DC	0.71SCFM (1200L/h), 0.2 to 7psi Configurable Pressure, -48VDC Dehydrator
KD74S-DC	0.71SCFM (1200L/h), 0.2 to 7psi Configurable Pressure, -48VDC Dehydrator, with network
	management protocols

2.3 Product Specification

Model	KD20 /	KD22 /	KD24-DC/	KD70 /	KD72 /	KD74-DC/
	KD20S	KD22S	KD24S-DC	KD70S	KD72S	KD74S-DC
Flow Rate at	0.27SCFM	0.25SCFN	M (420L/h)	0.78SCFM	0.71SCFM (1200L/h) ±10%	
25°C (77F°)	(460L/h)	±10%		(1300L/h)		
	±10%			±10%		
Power	110VAC	220VAC	-48VDC	110VAC	220VAC	-48VDC
Supply	$\pm 10\%$, 60Hz	±10%,	±10%	±10%,	±10%,	±10%
		50/60Hz		60Hz	50/60Hz	
Power	200W max			370W max		
Consumption	200 W max			57000 1142		
Working	0.2	to 7psi (1 to 50	0kPa), Field Adju	istable. Factory	set low pressure	e at
Pressure	3 psi (21kPa), and high pressure at 5psi (35kPa)					
Dew Point		Bett	Better Than -45°C (-49°F) at 25°C (77F°)			
Drying	High active Aluminum Oxide Decision Two Heat Reconcepting Chembers					
Method	Ingi-active Aluminum Oxide Desiceant, 1 wo near Regenerating Chambers					uniters
Gas Outlet	2 Outlets, Pus	h-on quick fit	for 3/8" OD	4 Outlets, P	ush-on quick fit	t for 3/8" OD



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	tube	tube		
Noise Level	<65dB	at 1m		
Operation	$250C t_0 + 650C (120E t_0 1400E) \le 0.50/$ Hymidity			
Conditions	-25 C 10 +05 C (-15 1 10	14) 1), < 55% Humany		
Product Dimensions and Weight	H x L x D: 3.5x19x17.1inches (88x482x345mm), 20Lbs (9kg)	H x L x D:11x16.9x11.8 inches (278x430x300mm),42Lbs(19kg)		
Shipping Dimensions and Weight	H x L x D: 9.9 x 21.6 x 17.7 inches (250x550x450mm), 26.5Lbs (12kg)	H x L x D: 16.1 x 22x 15 inches (410 x560 x380mm), 47.4Lbs (21.5kg)		
Network Management	S Model Only: Support Network Management Protocols (TCP Server/Client, UDP, Multicast, SNMP) via RJ45 Interface			
Alarms	Low-Pressure, High-Pressure, Humidity, Runtime			
Installation	Desktop, 19" Rack	Desktop		

2.4 Appearance and Interface (KD20 Series for reference)



- 1. Indicator lights
- 2. Display window
- 3. Control buttons
- 4. Fuse
- 5. Power switch on/off
- 6. Rack brackets and handles

6. RJ45 Port (S model only)

- 7. Gas Outlets
- 8. Power socket



3. INSTALLATION STEPS

3.1 Installation Location

The Dehydrator KD20 Series is versatile in its placement options, designed to use on a desktop, on a standard 19" rack using the supplied mounting brackets. KD70 Series is designed for desktop placement only.

To maintain optimal performance, place the Dehydrator in a dry, well-ventilated location with access to the power supply and gas inlet of the pressurized dry air distribution system. Ensure that there are no flow restrictions in the location of the dehydrator and the dry air system.

3.2 Unpacking and Inspection

Carefully inspect the package before unpacking. Record any damage on the packaging.

Unpack the dehydrator in an environmentally controlled location consistent with the operating conditions of the dehydrator. Place the unit on a flat, stable surface.

Check the contents of the package against the packing list and inspect the appearance of the dehydrator. Please inform RFS Technologies or the distributor if the unit is damaged or if any items are missing from the package.

	KD20 Series	Part Number	KD70 Series	Part Number
1	Power cord x 1 piece, 6ft	AC: KD25002	Power cord x 1 piece, 6ft	AC: KD25002
	(1.8m) length	DC: KD25004	(1.8m) length	DC: KD25004
2	Spare Fuse x 2 pieces	See table below	Spare Fuse x 2 pieces	See table below
3	Nozzle connector x 2 pieces,	KD26001	Nozzle connector x 4	KD26001
	G 1/8 to 3/8" tube		pieces, G 1/8 to 3/8" tube	
4	Teflon tape x 1 roll	KD29001	Teflon tape x 1 roll	KD29001
5	PU tube x 33ft (10m) length	KD24009	PU tube x 33ft (10m)	KD24009
			length	
6	Bracket x1 pair	KD30002		
7	Handle x 1pair	KD30006		
8	Rubber feet x 4 pieces with	KD29003		
	hardware			

The following accessories are included with the dehydrator:

Dehydrator Model	KD20 /	KD22 /	KD24-DC/	KD70 /	KD72 /	KD74-DC/
Fuse Model	3A	2A	8A	5A	3A	10A
Part Number	KD22003	KD22002	KD22006	KD22004	KD22003	KD22007

Included (Picture for reference only)						
Power cord	Nozzle Connector	Fuse	PU tube	Brackets	Handles	Rubber feet
	***	11	0			

3.3 Staging the Dehydrator



Leave the power switch on the dehydrator in the OFF position. Connect the unit to the appropriate power source using the power cord provided.

Remove the insert from one of the gas outlets by following these steps:

Step1, Depress the release ring: using your thumb and forefinger, gently depress the white plastic ring of the gas outlet towards the unit. This will disengage the locking mechanism holding the insert in place.

Step 2, Pull the insert out: while holding the release ring, pull the black insert away from the gas port with a firm, straight motion. Refer to the following pictures.

Step 3, Store the insert in a safe place for future use.



Switch on the power to activate the dehydrator and let it run for 3-5 minutes with nothing attached to the dry air outlet fitting. Check the airflow coming from the gas outlet using your finger. Disregard any alarms shown on the front panel.

If the dryer does not operate, please check the power supply. Report the issue if the dehydrator does not function correctly or if there is no airflow from the gas outlet.

Upon completion of the staging process, power off the dehydrator and proceed with its installation at the designated final location.

3.4 Installation Mode of KD20 Series

The Dehydrator is designed for desktop and 19-inch rack mounting. Please select an appropriate installation model based on the actual site conditions.

[The following images are for reference only. Accessories may be different for different models].

3.4.1 Desktop Installation

Four screw holes are prepared at the bottom of the dehydrator. Fix the rubber feet on the hole by using the screws. Both rubber feet and screws are included in the accessory package. Please refer to the following diagrams for guidance on instructions and measurements.







Place the dehydrator on a solid, level surface. Allow at least 2" clearance at the top for proper heat dissipation. Allow sufficient space at the rear for power cord and gas line connections.

3.4.2 Rack Installation

The Dehydrator can be installed in a standard 19" rack using the brackets provided. See the following steps for rack installation and dimensions.

- Step1: Remove the three screws on each side of the dehydrator.
- Step2: The handles have been attached to the brackets, install the brackets on both sides with the three screws.
- Step3: Fix the dehydrator to the 19in rack with four cabinet screws.





3.5 Installation Mode of KD70 Series

The KD70/72 Series is specifically designed for tabletop placement only.

Place the dehydrator on a solid, level surface. Allow at least 2" clearance at the top for proper heat dissipation. Allow sufficient space at the rear for power cord and gas line connections.

3.6 Connect to the Power Supply

After installing the dehydrator, leave the power switch on the unit in the OFF position. Connect the dehydrator to the appropriate power source using the power cord provided.

3.7 Change the Dehydrator Configuration

Switch the power to the ON position to turn on the dehydrator. When the dehydrator is operating, the digital display window on the front panel will show "P XX" where "XX" represents the current system pressure value.

The Dehydrator is pre-programmed with the following configurations as shown in the table below. If no configuration changes are required, skip the following steps and proceed directly to Section 3.8.

Parameter	KD20/22/24 Default Setting	KD70/72/74 Default Setting
Low-Pressure Limit	3 psi	3 psi
High-Pressure Limit	5 psi	5 psi
Push Button Tone	Off	Off
Unit ID	245	245

3.7.1 High-Pressure Limit

When the display shows "P XX", press and hold the "Set" button for 5 seconds to enter the highpressure limit setting interface. The display will change to "H XX" where XX is the current high-



pressure limit setting. Press the "+Add" or "-Ded/Q" button on the front panel to increase or decrease the value. The adjustable range of the high-pressure limit is between 0.4 and 7 psi for KD series.



3.7.2 Low-Pressure Limit

At the "H XX" interface, press the "Set" button once to enter the low-pressure limit setting interface. The display will change to "L XX" where XX is the current low-pressure limit setting. Press the "+Add/P" or "-Ded/Q" button to change the setting. The adjustable range for the low-pressure limit is between 0.2 and 6.8 psi for KD series. And the low-pressure limit setting must be lower than the high-pressure limit.



3.7.3 Push Button Tone on/off

The push button tone provides a sound indicating that a push button operation is being performed. At the "L XX" interface, press the "Set" button again to enter the push button tone setting interface. The display will show the current setting. The default setting is "off". Press the "+Add/P" or "-Ded/Q" button to change the tone setting.





3.7.4 Unit ID

From the push button tone setting interface, press the "Set" button to enter the Unit ID setting interface. The display will show "IXXX" where XXX is the current unit ID number. Press the "+Add/P" or "-Ded/Q" button to change the ID. The default ID is 245 and the adjustable ID range is 1 to 254.

The numbers 0 and 255 are reserved ID numbers and should not be used.



3.7.5 Save Settings

At the Unit ID setting interface, press "Set" again to save and apply the new configurations to the dryer. The display will then return to the "P XX" interface.

Configuration is not lost or changed when the dehydrator is turned off.

3.8 Connect the Dehydrator to the Tubing and the System

Check the configuration of the dryer and make sure the settings are correct. Turn off the unit and begin connecting the tubing.

3.8.1 Connect the Tubing with the Dehydrator

The KD20 dehydrator has two gas outlet ports and can be connected to two gas lines. The KD70 has four gas outlet ports. Optional gas distribution manifold can be ordered if more outlets are needed. Eash outlet port is sealed by an insert. Follow the instructions below to connect the tubing.

[Caution] Retain removed inserts for future use. Do not remove inserts from unused ports.





- Step 1, Depress the release ring: using your thumb and forefinger, gently depress the white plastic ring of the gas outlet towards the unit. This will disengage the locking mechanism holding the insert in place.
- Step 2, Pull the insert out: while holding the release ring, pull the black insert away from the gas port with a firm, straight motion.
- Step 3, Push the tube in: insert the 3/8" tube into the gas port until it cannot go in any further. Make sure the tube is securely locked in place by the locking mechanism.

3.8.2 Connect the Tubing to the System

Connect the other end of the tubing to the site distribution system or to the inlets to be pressurized. Different products and systems may use different connection methods. Two gas inlet/pipe adapters are supplied with the KD20 and four adaptors with the KD70. The nozzle has a G 1/8 thread and is compatible with tubing with an outer diameter of 3/8" or 9 mm.

Refer to the following instructions when using these adapters to connect the tubing to the connector.



Step 1: Unplug the sealing plug. Sealing plug Step 2: Unscrew the lock nut of the nozzle in the accessory package, wrap the threads of part A with Teflon tape. Install it to the gas port of the connector. Insert the PU tube through the lock nut (part B). Step 3: Connect the PU tube in Step 2 to the part A and tighten the lock nut.

[Caution] Please wrap the threads of the gas adapter with Teflon tape before screwing it into the port. After connecting, please check the air tightness strictly.

After connecting the tubing, make sure that the air path of the tubing between the dehydrator and the feeder system is unobstructed. Do not bend the tubing.

3.9 System Purging

It is important to properly purge the site distribution system prior to completing the dehydrator installation. Failure to do so may result in moisture being present in the system after the dehydrator is installed. This moisture will remain in the system until it is purged from the system by normal operation of the dehydrator.



If the purge is left to the dehydrator's normal operation, the process may take days, weeks, or longer depending on the dehydrator's installed options, system size, moisture levels, and other variables. Humidity alarms may occur until the moisture is purged from the system.

Use the following steps to purge the system.

3.9.1 If the System Has a Remote Exhaust Vent

Open the exhaust vent, start the dehydrator, and allow it to run for at least one hour. Close the exhaust port and complete the purge.

3.9.2 If the System Doesn't Have a Remote Exhaust Vent

Start the dehydrator and allow it to run until it stops when the high-pressure limit is reached. Wait 15 minutes to allow the dry air to mix with the humid air in the feeder. Disconnect the dehydrator hose and allow the air to escape. Reconnect the tubing and repeat these steps ten times to complete purging.

3.10 Leak Detection

After purging, re-connect the dehydrator to the system. The next step involves checking the airtightness of the feeder system using the leak detection function. Follow these steps for the leakage test:

- Press the "Leak Detection" button and observe the pressure value on the front panel.

- The dehydrator will halt inflation and the "L D" yellow indicator will illuminate.

- Monitor the change in pressure value to assess the airtightness of the system. Quick drops imply the need for better sealing.

- If the pressure value remains stable, the feeder system is airtight.

- Press the "Leak Detection" button again to end the test, the yellow indicator goes off, and the dehydrator resumes normal operation.

[Caution]

Address any leaks promptly to prevent alarms, excess running and system performance decline due to humidity.

Use this function solely for testing purposes. Remember to exit using the "Leak Detection" button and restore the dehydrator operation. The "L D" indicator will turn off.

3.11 Completion of the Installation

After completing the previous steps, the installation process is now finished. Verify that the dehydrator is functioning normally by ensuring that the alarm indicator is not illuminated, and that the dehydrator stops inflating once the high-pressure limit is reached. Please refer to Section 6 if the dehydrator is the model with the network management capability.

4. OPERATION

4.1 General Description

The KD20/70 series dehydrators operate automatically once powered on. The system constantly monitors the pressure during standby mode. If the pressure falls below the lower limit, the dehydrator will activate and pressurize the system with dry air. You will notice the green "Working" indicator on the front panel illuminating when the dehydrator is inflating. Once the pressure reaches the upper limit, the dehydrator will return to standby mode and the "Working" indicator will turn off.

The KD20/70 dehydrators utilize two drying cylinders to ensure a continuous supply of dry air. These cylinders contain highly efficient aluminum desiccant that offers excellent drying performance and a long lifespan.

After one cylinder has been in operation for 8.5 hours, the system will automatically regenerate it and switch to the other cylinder. This rotation maximizes the lifespan of both the desiccant and the dehydrator.



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To control the cylinder regeneration, the dehydrator employs a micro-processor. First, the drying cylinder is heated to convert the moisture absorbed by the desiccant into steam. After heating for 1.5 hours, the dehydrator purges for 5 minutes to release the vapor. This evaporation and purging process is repeated once more. Finally, the dehydrator allows the cylinder to cool naturally for a total of five hours and twenty minutes to complete the regeneration process.

4.2 Indicators

The front panel consists of three indicators: Alarm, Working, and L D.

4.2.1 Alarm Indicator

If the red "Alarm" indicator on the front panel is illuminated, it means there is at least one alarm in the dehydrator. For more information on the alarms, refer to Section 4.4.



4.2.2 Working Indicator

During the inflation process of the dehydrator, the green light labeled "Working" illuminates. Conversely, the "Working" indicator remains off during all non-inflating intervals.



4.2.3 L D Indicator

When the "L D" indicator turns yellow, it means the leak detection function is in operation. For a detailed explanation of this function, refer to Section 3.10.





4.3 Control Buttons

On the front panel, you will find four control buttons: +Add/P, -Dec/Q, Set, and Leak Detection.

4.3.1 +Add/P Button

The "+Add/P" button is utilized to increase the value in the pressure (H XX and L XX) and unit ID (IXXX) setting interface, or switch the value in the Push Button Tone (on/off) setting interface.

4.3.2 -Dec/Q Button

The "-Dec/Q" button is utilized to decrease the value in the pressure (H XX and L XX) and unit ID (IXXX) setting interface, or switch the value in the Push Button Tone (on/off) setting interface. Additionally, the "-Dec/Q" button is used to access the dehydrator's logs, status, and alarms. For more information, refer to Sections 4.4 and 4.5.

4.3.3 Set Button

The primary function of the "Set" button is to confirm and store values or status in the setting interfaces. Additionally, it can be used to switch the dehydrator to a different interface. By pressing and holding it for 5 seconds in the "P XX" interface, the dehydrator will switch to the setting interface. Pressing it once in the checking logs, status, and alarms interface will bring the dehydrator back to the "P XX" interface.

4.3.4 Leak Detection Button

Press the "Leak Detection" button to initiate the leak detection process. For further details, please see Section 3.10.

[Caution] Avoid pressing the "Leak Detection" button if the dehydrator's operation should not be disrupted.

4.4 Alarms

The dehydrator is equipped with four types of alarms: high-pressure alarm, low-pressure alarm, dew point alarm, and excess run alarm. When the red alarm indicator illuminates, it signifies a situation involving one or more alarms. Refer to Section 5.2 for instructions on troubleshooting an alarm or alarms.

4.4.1 Identify Alarms

In case the red alarm indicator turns on, follow these instructions and codes for identification purposes.

At the "P XX" interface, press the "-Ded/Q " button five times to change the display to "b XX", with "XX" representing the alarm code. You can find the description of the alarm in the table below, and refer to the corresponding section for more information. For troubleshooting, please refer to Section 5.2.





Table of alarm codes and descriptions

Display	Alarm type
b10	Dew point alarm
b20	Low-pressure alarm
b30	Dew point & Low-pressure alarm
b40	Excess run alarm
b50	Dew point & Excess run alarm
b60	Low-pressure & Excess run alarm
b70	Dew point & Low-pressure & Excess run alarm
b80	High-pressure alarm
b90	High-pressure & Dew point alarm

Press the "+Add/P" button to return to the "P XX" interface after the alarm is identified.

4.4.2 High-Pressure Alarm

The dehydrator will show an alarm if the system pressure exceeds the high-pressure limit by 0.5psi (**P**>**H**+**0.5psi**). Once the pressure returns to normal, the alarm will automatically reset.

[Attention] High pressure can damage pressure sensitive components like pressure windows in the system. Set the high-pressure limit parameter correctly, taking into account the upper-pressure limit of the entire system.

4.4.3 Low-Pressure Alarm

The dehydrator will show an alarm if the system pressure falls below the set lower limit by 0.1psi (**P**<**L-0.1psi**). Typically, a low-pressure alarm is triggered by a leak in the system. You can use the "Leak Detection" function explained in Section 3.10 to verify this.

4.4.4 Dew Point Alarm

The dehydrator will show an alarm if the dew point exceeds $-5^{\circ}C$ (23°F). KD20/70 dehydrators can supply dry air with a dew point of $-45^{\circ}C$ (-49°F) when the ambient temperature is 25°C (77F°). A dew point alarm indicates that the humidity level of the air provided by the dehydrator is rising and does not meet the system's requirements.

[Attention] The dew point alarm is anticipated to appear and persist for a while when the dehydrator is first operated. Once the system purging is completed, the alarm will be reset.



4.4.5 Excess-Run Alarm

The dehydrator will show an alarm if it runs continuously for 30 minutes without reaching the high-pressure limit. A leak is the main cause of this alarm. In this situation, the dehydrator will not stop until it reaches the high-pressure limit or runs continuously for 60 minutes. If the high-pressure limit is reached, the dehydrator will stop, and the alarm will be cleared. If the dehydrator runs for 60 minutes without reaching the high-pressure limit, it will enter an idling-inflating cycle where it will alternate between stopping and inflating for 60 minutes each. This cycle will continue until the high-pressure limit is reached and the alarm is cleared.

[Attention] The dehydrator may start frequently or excessively run over 30 minutes during the initial inflation, which is a common occurrence.

4.5 Dehydrator Status and Logs

The KD dehydrator also offers information about the operational and regenerating states of the unit. It provides these log information to aid in comprehending the dehydrator's status and troubleshooting any issues.

4.5.1 Power-on Time: T XX

At the "P XX" interface, press the "-Ded/Q " button. The power-on time will be displayed as "T XX", with "XX" indicating the total hours since the dehydrator was turned on. This log refreshes every 24 hours and the maximum value displayed is 23. Press the "Set" button to return to "P XX" from the power-on time interface.



4.5.2 Accumulated Inflating Time: t---

At the "P XX" interface, press the "-Ded/Q" button twice. The display window will show "t---" which represents the total inflating time interface. Press the "-Ded/Q" button again will display "XXXX", which is the number of minutes. This log refreshes every 24 hours with a maximum display value of 1439. Press the "Set" button to return to "P XX" from the accumulated inflating time interface.





4.5.3 Number of Inflating: cXXX

At the "P XX" interface, press the "-Ded/Q" button four times. The display window shows "c XXX" where "XXX" represents the total number of inflations by the dehydrator. The maximum value is 255 and the counter resets after 255. Press the "Set" button to return to "P XX" from the number of inflating interface.



[Attention] During the initial operation of the dehydrator, it is anticipated to observe a significant increase in the number of inflating instances. The duration of these inflating instances and the logs documenting the number of inflating occurrences is valuable for identifying and resolving issues. For instance, if there is a leak in the system, both logs would display higher values than usual.

4.5.4 Alarm Code: b XX

At the "P XX" interface, press the "-Ded/Q" button five times. The alarm code will be displayed as "b XX" on the screen. Refer to Section 4.3.1 for more information.

4.5.5 Working State: F XX

At the "P XX" interface, press the "-Ded/Q" button six times. The code of the dehydrator's working state will be displayed as "F XX" on the screen. You can find the description of the dehydrator working state for each code in the table below.



Table of code and description of the dehydrator working state.

Code	Description of Working State
F 00	Pressure holding
F 01	Inflating
F 02	Idling-Inflating mode (inflating for 60min, then stopping 60min for self-protection)



4.5.6 Regenerating State: C XX

At the "P XX" interface, press the "-Ded/Q" button seven times. The dehydrator's regenerating state code will be displayed as "C XX". You can find the description of the dehydrator regenerating state to each code in the table below.



Table of code and description of the dehydrator regenerating state

Code	Description of Regenerating State
C 18	Cylinder 1 heating
C 14	Cylinder 1 Steam removing
C 12	Cylinder 1 Standing by
C 28	Cylinder 2 heating
C 24	Cylinder 2 Steam removing
C 22	Cylinder2 Standing by
C 32	Cylingder1 and 2 Standing by

[Attention] Pressing the "Set" button on any of the mentioned status and logs interfaces will cause a switch back to the "P XX" interface. If there is no button pressed within 20 seconds on any of the status and logs interfaces, it will also return to the "P XX" interface.

5. MAINTENANCE AND TROUBLESHOOTING

5.1 Maintenance

If the dehydrator is installed and operated correctly, it will need very little maintenance throughout its lifespan. The only maintenance tasks that need to be done are removing dust and debris at least once a year, and performing solenoid valve maintenance every 8000 hours (approximately 11 months) of service time.

5.1.1 Routine Cleaning

To ensure proper air intake and normal functioning, it is recommended to regularly clean the dust off the dehydrator. Additionally, it is advised to perform a thorough cleaning of the dehydrator after one year of use, or more frequently if the operating environment is very dusty. Follow the instructions below to open the dehydrator and carry out this cleaning process.

This section uses the KD20 series model as an example, and the KD70 series shares the same operating principle.



Attention: Make sure the power is turned off before starting this cleaning process. Gently open the panel. Be careful not to harm the cable connection when opening the dehydrator for inspection or cleaning.

Step 1: Open the top panel of the dehydrator. Locate the white air inlet.



Step 2: While pressing the blue ring backward, gently pull the white air inlet filter out of the fitting.



Step 3: Use high-pressure air and reverse blow the filter to remove dust, or directly wash and dry it. Avoid dust entering the exposed dehydrator.





Step 4: Ensure that the filter is securely inserted into the fitting until it firmly locks into the position. Reinstall the panel.

5.1.2 8,000 Hours Maintenance

To ensure the continuous and efficient operation of the dehydrator and to prevent dust from blocking the solenoid valve, it is recommended to perform the maintenance of the solenoid valves after every 8,000 hours of service time.

Attention: Make sure the power is turned off before starting this cleaning process. Gently open the panel. Be careful not to harm the cable connection when opening the dehydrator for inspection or cleaning.

Step 1: Open the top and back panel of the dehydrator. Locate the three solenoid valves F1, F2, F3. Screw off the lock nuts and remove the 3 black solenoid valve coils.



Step 2: Take off all 6 tubes and demount the set plate with a 7mm socket wrench.



Step 3: Take off screws on the top of the valve body and open the valve.





Step 4: Remove the dust from the plunger and the valve body with high-pressure air. If there is rust, wipe it with alcohol. Clear all 3 valves.

Step 5: Install the solenoid valve back in place. Connect the tube according to the signage stickers.



Step 6: Check the installation position of the tubes again, do not misconnect. Close the panels and complete the maintenance.

5.2 Troubleshooting

5.2.1 Dehydrator Won't Power On

Possible Cause	Check	Solution
Power switch in OFF position		Turn the Power switch to ON
		position
No power was supplied to the	Power cord and power source,	Use the right power supply or cord
dehydrator	measure the incoming voltage	with the right voltage
Fuse is blown	Fuse box on the panel	Replace the fuse, see the
	_	instructions below





Step 1: Remove the fuse box by rotating it counterclockwise.

Step 2: Peel off the protective layer outside the fuse tube in the accessories

Step 3: Insert the new fuse into the fuse box.

Step 4: Screw the fuse box into the panel clockwise to complete the replacement.



Possible Cause	Check	Solution
Leak in the dehydrator	Feel the air flow from the	If there is no airflow from the
	dehydrator outlets by hand, block	outlet, the dehydrator is not
	the outlets and see the pressure	functioning properly. Contact the
	display change	after-sale service.
Serious leak in the feeder		If there is an airflow, the pressure
system		value will go up quickly to reach
		the high-pressure limit when you
		block the outlet, and this value can
		remain for a certain time. Check
		the leak in the feeder system.
Pressure sensor failure		If there is an airflow, and after
		blocking the outlet the display still
		is 0. Contact the after-sale service.

5.2.2 Display Pressure Is Always At 0 Or Stays at A Very Low-Pressure Value

5.2.3 High-Pressure Alarm

Possible Cause	Check	Solution
The dehydrator detects the	The alarm is normal, no	It is common to observe a quick high-pressure
high limit and stops to	need to check	alarm when the dehydrator inflating for a
inflate		while.
Feeder system installed in	Environmental	Disconnect the tubing to release the pressure.
a high-temperature	temperature	Adjust the high-pressure limit setting
environment or the air in		considering the impact of heat.
the feeder expands from		
exposure to the sun		
High-pressure limit set to	High-pressure limit	Raise the high-pressure limit setting.
too low	setting	

5.2.4 Low-Pressure Alarm

Possible Cause	Check	Solution
The dehydrator detects the	The alarm is normal, no need to	It is common to observe a quick
lower limit and starts to	check	low-pressure alarm when the
inflate		dehydrator restarts to inflate.
First time dehydrator		It is common to observe a low-
operation		pressure alarm when the
		dehydrator is switched on and
		begins operating for the first time.
Leak in the dehydrator	Feel the airflow from the	If there is no airflow from the
	dehydrator outlets by hand, block	outlet, the dehydrator is not
	the outlets and see the pressure	functioning properly. Contact the
	display change	after-sale service.
System leak	Use leakage detection function	Locate the leak and fix it.
	(Section 3.10)	

5.2.5 Dew Point Alarm

Possible Cause	Check	Solution
First time dehydrator		It is common to observe a dew
operation		point alarm when the dehydrator is



		switched on and begins operating for the first time.
The dehydrator operates in	Environmental temperature and	Make sure the dehydrator operates
an extreme environment	humidity	in an environment that meets the
		requirements
The dew point of output air	Using a dew-point meter	Contact the after-sale service.
does not meet the		
requirements		

5.2.6 Excess-run Alarm

Possible Cause	Check	Solution
First time dehydrator		It is common to observe a excess-
operation		run alarm when the dehydrator is
		switched on and begins operating
		for the first time.
System leak	Use leakage detection function	Locate the leak and fix it.
	(Section 3.10)	
Leak in the dehydrator	Feel the air flow from the	If there is no airflow from the
	dehydrator outlets by hand, block	outlet, the dehydrator is not
	the outlets and see the pressure	functioning properly. Contact the
	display change	after-sale service.

5.2.7 Compressor Is Not Functioning

Possible Cause	Check	Solution
System program crashes		Toggle the ON/OFF switch.
Compressor failure		Contact the after-sale service.

6. CONFIGURATIONS FOR NETWORK MANAGEMENT (for models with network management only)

6.1 Network Management Description

The KD20/70 dehydrators provide the option to support network management systems, which is available only on specific models with an "S" at the end of the model's name. Upgrading a standard unit to have network management capability is not possible.

To facilitate network management for the dehydrator, a network management system must be used and connected to the dehydrator through the RJ-45 interface. The KD20/70 dehydrators support independent TCP and UDP sessions and offer various socket operation modes such as TCP server, TCP client, UDP, and multicast. They also support Simple Network Management Protocol (SNMP), and an MIB file is included with the "S" model to support the SNMP network management. For detailed SNMP parameters, please refer to Section 7.3.

6.2 Management Interfaces on the Dehydrator

6.2.1 Ethernet Interface

The dehydrator is equipped with a RJ-45 Ethernet interface. KD20 has it on the back panel and KD70 on the top panel. This Ethernet interface allows for easy setup of network management parameters and to enable the network management functionalities.

This interface adheres to the IEEE 802.3u standard and allows for 10/100M bit/s speed in both full or half-duplex operation using crossline and straight-through lines.



The Ethernet interface's default IP address is 192.168.8.10, with a subnet mask of 255.255.255.0 and a gateway of 192.168.8.1. To ensure that the dehydrator is in the same management network, users have the option to modify the IP address of the Ethernet interface.

6.2.2 Wi-Fi Interface

The dehydrator is equipped with a built-in Wi-Fi module that enables users to connect to the unit wirelessly using their smartphones or computers. The Wi-Fi network name (SSID) is "kddtu" and the password is "12345678". These default network credentials cannot be modified. It is important to understand that the Wi-Fi interface is solely used for setting network parameters and not for network management.

The default IP address for the Wi-Fi interface is 192.168.0.1 and cannot be changed.

If the default IP address for the Ethernet interface is altered and cannot be remembered, users can still access the unit by connecting to the Wi-Fi interface and finding out the Ethernet IP address.

6.3 Setting the Unit for Network Management Systems

To facilitate network management, the dehydrator must be configured to a specific network mode with the correct parameters based on the protocol used by the existing network management system. KD20/70 dehydrators are compatible with TCP/IP and SNMP protocols. For TCP/IP, it offers four operation modes (sockets): TCP server, TCP client, UDP, and Multicast.

The default setting of the dehydrator is UDP mode, with an IP address of 192.168.8.10, a local port of 8000, a target host IP of 192.168.8.100, and a target host port of 9000. These settings can be modified through a web browser using an Ethernet or Wi-Fi connection.

6.3.1 Change the IP Address of the Dehydrator

Ensure that the management computer and the dehydrator are on the same subnet. Connect the Ethernet cable and launch the browser. Enter 192.168.8.10 in the address bar to access the dehydrator's web interface. In case of a Wi-Fi connection is used, enter 192.168.0.1 instead.

To modify the IP address of the Ethernet interface, follow these steps:

- 1) Navigate to the left menu and click "NetworkConfig".
- 2) In the main window, click on the "EthernetConfiguration" tab.
- 3) Configure the dehydrator's "IP address", "Subnet Mask", and "Gateway" address.
- 4) Finally, click on the "Save" button to apply the new settings.

KAIDA	GeneralMa	nagement				
NetworkConfig	< Home Netw	orkConfig ×				
SocketConfig	EthernetConfiguration					
SnmpConfig	EthernetConfiguration		Edit		2	×
SystemManage	IPAddress	192.168.8.10	IPAddress *	192.168.8.10		
CompanyProfile	SubnetMask	255.255.255.0	SubnetMask *	255.255.255.0		
	Gateway	192.168.8.1	Gateway *	192.168.8.1		
	MacAddress	82:eb:e8:ab:5a:41	MacAddress *	82:eb:e8:ab:5a:41	-	
					Save	4

6.3.2 TCP Server

The dehydrator can act as a server in TCP server mode, with the network management system acting as a client. To configure this, follow the steps below:

- 1) Go to the left menu and select "SocketConfig".
- 2) In the main window, click on the "SocketConfig" tab.



- 3) From the drop-down menu, select "tcpserver". Enter the desired "LocalPort" number (between 2000 and 65535) for communication.
- 4) Finally, click on the "Save" button to apply the settings.See the example configuration in the figure below, with a port number of "8000".

KAIDA	這 GeneralManagement		
NetworkConfig 1	Home NetworkConfig ×	SocketConfig ×	
SocketConfig	SocketConfig	Edit socket configuration	× 3
SnmpConfig	SocketConfig	SocketType * tcpserver	~
SystemManage	SocketType udp	LocalPort * 8000	
CompanyProfile	LocalPort 8000	Save 4	
	TargetHostIP 192.168.8.100		
	TargetHostPort 9000		

6.3.3 TCP Client

To configure the TCP client mode, follow these steps:

- 1) Go to the left menu and click on "SocketConfig".
- 2) In the main window, click on the "SocketConfig" tab.
- 3) From the drop-down menu, select "tcpclient". Enter the IP address of the network management system in the "TargetHostIP" field. Enter the port number of the network management system in the "LocalPort" field. Make sure the port number is within the range of 2000 and 65535.
- 4) Once you have entered the necessary information, click on the "Save" button.

The screenshot below is an example configuration of the dehydrator in TCP client mode:

- Target host IP (management computer): 192.168.8.100
- Target host port (management computer): 9000.

KAIDA [®] GeneralManagement	
NetworkConfig	SocketConfig ×
SocketConfig	
SnmpConfig SocketConfig	Edit socket configuration X
SystemManage SocketType udp	SocketType * topclient
CompanyProfile LocalPort 8000	TargetHostIP * 192.168.8.100
TargetHostiP 192.168.8.100	TargetHostPort * 9000
TargetHostPort 3000	Sine 4

6.3.4 UDP

When the network management system uses UDP protocol, the dehydrator needs to be set to UDP mode. To do this, follow these steps:

- 1) Go to the left menu and click on "SocketConfig".
- 2) In the main window, click on the "SocketConfig" tab.



- 3) From the drop-down menu, select "udp". Enter the "LocalPort" number, "TargetHostIP" address and "TargetHostPort" number. Make sure the port number is within the range of 2000 and 65535.
- 4) Click on the "Save" button.

"LocalPort" is the port the dehydrator used to communicate with the network management system. "TargetHostIP" and "TargetHostPort" are the IP address and port number of the network management system.

The following figure shows an example configuration of the dehydrator in UDP mode, where the local (dehydrator) port is "8000", the target host (management computer) IP is "192.168.8.100", and the target host (management computer) port is "9000".

KAIDA	GeneralManagement		
NetworkConfig	A Home SetworkConfig X SetworkConfig X	looketConfig ×	
SocketConfig	SocketConfig 2		
SnmpConfig	SocketConfig	Edit socket configuration	×
SystemManage	SocketType udp	SocketType * udp	~
OcompanyProfile	LocalPort 8000	LocalPort * 8000	,3
	TargetHostIP 192.168.8.100	TargetHostIP * 192.168.8.100	
	TargetHostPort 9000	TargetHostPort 9000	
		Save 4	

6.3.5 Multicast

To set the dehydrator work in the multicast mode, follow these steps:

- 1) Go to the left menu and click on "SocketConfig".
- 2) In the main window, click on the "SocketConfig" tab.
- 3) From the drop-down menu, select "multicast". Enter "multicast receive IP" "multicast receive port", "multicast send IP", and "multicast send port".
- 4) Click on the "Save" button.

The dehydrator's IP and port for receiving data are referred to as the "multicast receive IP" and "multicast receive port" respectively. Similarly, the dehydrator's IP and port for sending data are known as the "multicast send IP" and "multicast send port". The multicast IP range spans from 224.0.1.0 to 238.255.255.255, while the port range is between 2000 and 65535. Remember to click the "Save" button after making any modifications.

In the example configuration of the dehydrator in Multicast mode, the "multicast receive IP" is set to "230.0.54.1" and the "multicast receive port" is set to "50004". On the other hand, the "multicast send IP" is configured as "230.0.50.1" and the "multicast send port" is set to "50000".



KAIDA°	-	GeneralMar	nagement						
NetworkConfig 1	• Hor	me • Netwo	orkConfig ×	Sock	ketConfig ×				
SocketConfig	Socket	Config	2						
SnmpConfig	Socket	Config		F	Edit socket configuration	n	×	ł	
🍄 SystemManage		SocketType	udp		SocketType *	multicast	~		3
CompanyProfile		LocalPort	8000		MulticastReceiveIP *	230.0.54.1		ſ	
		TargetHostIP	192.168.8.100		MulticastReceivingPb	50004			
		TargetHostPort	9000		MulticastSendingelP	230.0.50.1			
					MulticastSendingPolt	50000			
						Save 4			

6.3.6 SNMP

If the network management system uses SNMP (Simple Network Management Protocol), the dehydrator needs to be setup according to these steps:

- 1) Go to the left menu and click on "SnmpConfig".
- 2) In the main window, click on the "SnmpConfig" tab.
- 3) Enter the SNMP server's IP address at "IP1". Enter other server's IP addresses at "IP2", "IP3" and "IP4" if multiple servers exist in the network.
- 4) Click on the "Save" button.

The following figure shows an example configuration of the dehydrator in SNMP mode with one SNMP server's IP of 192.168.8.101.

KAIDA	😇 GeneralManagement	t	
NetworkConfig	✓ ● Home ● NetworkConfig	× • SocketConfig × • SnmpConfig ×	
SocketConfig	SnmpConfig 72		
SnmpConfig	SnmpConfig	SnmpConfig	×
SystemManage	IP1 192.168.8	8.101 IP1 * 192.168.8.101	
CompanyProfile	IP2 0.0.0.0	IP2* 0.0.0.0	1 3
	IP3 0.0.0.0	IP3 * 0.0.0.0	
	IP4 0.0.0.0	IP4 * 0.0.0.0	
		Save 4	

6.3.7 Software Information and System Reset

Select "SystemManagement" from the left menu to access the "SystemMessage" screen in the main window. Here, you can view the software information. If needed, you can reset the dehydrator by clicking on the "SystemReset" button. Please note that the saved parameters of the dehydrator will not be impacted by this reset.

7. MANAGE DEHYDRATOR BY SNMP (for models with network management only)

7.1 SNMP Management Overview

SNMP is a widely used network management protocol that is supported by KD20/70 dehydrators. These dehydrators can be integrated into an existing SNMP management system or managed using any SNMP-compatible management software. To ensure proper communication with the device, SNMP



software requires a SNMP definition and configuration file (MIB file). The MIB file for KD dehydrators can be found on the provided USB drive.

With SNMP management, you can monitor various aspects of the dehydrator such as current pressure, operation status, operation count, and alarm codes. You also can check and adjust settings for high-pressure limit and low-pressure limit. Furthermore, you can control the unit by starting or stopping the inflation process.

7.2 Setting the Unit for SNMP

To establish a connection between the SNMP server and the Ethernet interface of the dehydrator, please consult Section 6.3.1. Additionally, for configuring the SNMP parameters in the dehydrator, refer to Section 6.3.6.

7.3 SNMP Parameters

Device Configuration Information			
Software Version	Vx.x.x		
MEMO	Software releases vx.x.x build at xx: xx: xx. Month-day-		
	year		
IP Address	Numeric(xxx.xxx.xxx) (Default: 192.168.8.10)		
Subnet Mask	Numeric(xxx.xxx.xx) (Default: 255.255.255.0)		
Gateway Address	Numeric(xxx.xxx.x.x) (Default: 192.168.8.1)		
MAC	xx:xx:xx:xx:xx(Factory Preset inalterable)		
SNMP Write Community			
Status Readings (Read-Only)			
Outlet Pressure Reading	Numeric (psi)		
Inflating times in 24-hour	Numeric (0~255)		
Dehydrator State	Numeric (01 Inflating /02 Idling-Inflating /00 Pressure		
	holding)		
Alarm	Numeric (144/128 /112/96/80/64/48/32/16/00)		
Alarm Readings (Read-only)			
High-pressure & Dew point alarm	Numeric 144		
High-pressure alarm	Numeric 128		
Dew point & Low-pressure & Excess	Numeric 112		
run alarm			
Low-pressure & Excess run alarm	Numeric 96		
Dew point & Excess run alarm	Numeric 80		
Excess run alarm	Numeric 64		
Dew point & Low-pressure alarm	Numeric 48		
Low-pressure alarm	Numeric 32		
Dew point alarm	Numeric 16		
No Alarm	Numeric 00		
Configuration Settings (Read-Write)			
High-pressure alarm	Numeric (0.4~7.0) (psi)		
Low-pressure alarm	Numeric (0.2~6.8) (psi)		
Start to inflate	Read (0 false/1 true) Write (1)		
End inflate	Read (0 false/1 true) Write (2)		
Alarm Traps Sent to SNMP Server			
High-pressure & Dew point alarm	Numeric 144		
High-pressure alarm	Numeric 128		



Dew point & Low-pressure & Excess	Numeric 112
run alarm	
Low-pressure & Excess run alarm	Numeric 96
Dew point & Excess run alarm	Numeric 80
Excess run alarm	Numeric 64
Dew point & Low-pressure alarm	Numeric 48
Low-pressure alarm	Numeric 32
Dew point alarm	Numeric 16
No Alarm	Numeric 00

7.4 SNMP Browser

The KD20/70 dehydrators come with a USB drive that includes a freeware MIB browser. This MIB browser allows users to test the SNMP functions of the dehydrator before connecting it to the network management systems.

7.4.1 Computer Configuration

Follow the steps in the picture to configure the IP and Gateway of the computer. The IP address should be in the same network segment as the DTU (the dehydrator).





🖗 Ethernet Properties X	Internet Protocol Version 4 (TCP/IPv4) Properties X
Networking Sharing	General
Connect using:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Configure This connection uses the following items:	Obtain an IP address automatically
Client for Microsoft Networks	IP address: 192 . 168 . 8 . 100
General Context Scheduler General Context Scheduler General Context Scheduler	Subnet mask: 255 . 255 . 0
Internet Protocol Version 4 (TCP/IPv4)	Default gateway: 192 . 168 . 8 . 1
Select Internet Protocol Version 4	The IP address should be in the same network segment as DTU
< >	• Use the following DNS server addresses:
Install Uninstall 6 Properties	Preferred DNS server:
Description Transmission Control Protocol/Internet Protocol. The default	Alternate DNS server:
wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit Advanced
OK Cancel	8 OK Cancel

7.4.2 Network Connectivity Test

Use the "ping" command to test the network. The steps are as follows.

- 1) Use the "Win+R" shortcut to display the "Run" command box.
- 2) Type in "cmd" in the open dialog box.
- 3) Click "OK".



4) The following screen will pop up, type in "ping 192.168.8.10".



NOTE: If the test fails, return to the previous step to check whether the settings are correct.

Administrator: C:\Windows\system32\cmd.exe				
Minimum = 1ms, Maximum = 3ms, Average = 1ms				
:\Users\Administrator>ping 192.168.8.10 Type in "ping 192.168.8.10"				
Pinging 192.168.8.10 with 32 bytes of data: Reply from 192.168.8.10: bytes=32 time=1ms TTL=64 Reply from 192.168.8.10: bytes=32 time=2ms TTL=64				
Reply from 192.168.8.10: bytes=32 time=1ms TTL=64 Reply from 192.168.8.10: bytes=32 time=1ms TTL=64				
Ping statistics for 192.168.8.10: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 1ms, Maximum = 2ms, Average = 1ms				
C:\Users\Administrator>_				

7.4.3 Configure Network Parameters

- 1) Open the browser, type in 192.168.8.10.
- 2) Set up the IP address according to steps 1 to 4 below.

KAIDA	這 GeneralManagement		
NetworkConfig	✓ ● Home ● SnmpConfig ×		
SocketConfig	SnmpConfig	SnmpConfig	
SnmpConfig	SnmpConfig	IP1 *	192.168.8.101
🏟 SystemManage	IP1 192.168.8.101	IP2 *	0.0.0.0
🌣 CompanyProfile	IP2 0.0.0.0	IP3 *	0.0.0.0
	IP3 0.0.0.0	IP4 *	0.0.0.0
	IP4 0.0.0.0		O Save

7.4.4 Instruction of the MIB Browser.

7.4.4.1 MIB Loading and MIB Browser Configuration

1) Run the setup.exe file in the USB drive to install the MIB Browser application.



2) Double click on the MIB Browser's icon from the program.

3) Load the dehydrator's MIB file by clicking the menu "File"→ "Load MIBs", then selecting the MIB file as shown below. The file is included in the provided USB drive, and it has a file extension .txt.



= ♥ ■ ₹	Manage USB Drive (D:)
$\leftarrow \rightarrow \checkmark \uparrow \blacksquare \rightarrow USB Drive (D;)$	Search USB Drive (D:)
 Documents Music Pictures Saved Pictures Wideos 	 Name Setup.exe JDKD-INFLATOR-DTU-MIB.txt
USB Drive (D:) V Provide the second	v <

4) Set the proxy IP address (Dehydrator's IP address) according steps 1 to 5 shown below.

iReasoning MIB Browser	Synthesis SNMP Agent ×
File Edit Operations Tools Bookmarks Help	Address 192.168.8.10
ddress: 192.168.8.10	Port 161
Advanced OID: .:	Port 161
SNMP MIBs	Read Community 1-1
MIB Tree	Write Community 1-1
iso. org. dod.internet	SNMP Version 2 3 Select 2



7.4.4.2 Two Types of OIDs (Object Identifier)

1) Read-only OID (GET OID)

Read-only OID has a green leaf icon as shown below.



2) Read-write ODI (GET SET OID) The icon for this kind of OID is a pen, as shown below.





7.4.4.3 MIB Tree Menu

The MIB tree menu is presented in the figure below. To expand lower levels, simply click on the "+" next to the folder's name. All management tasks related to dehydrators are performed within the "DTUGeneral" folder.



1) Visit the parameters of the dehydrator

①Click "+" as shown in the figure.

②Select "Get Next".

③Click "Go". A line of parameters appears at each click, and the first 8 parameters are related to the dehydrator, as depicted in the figure."

💿 iReasoning MIB Browser	💿 iReasoning MIB Browser		- 0
THE DI TINI	File Edit Operations Tools Bookmarks Help	(2) s	elect "Get Next".
File Edit Operations Tools Bookmarks Help	Address: 192.168.8.10 × Advanced OID: 1.3.6.1.4.1.4	9763.1.1.1.4.1.3.1 V Operatio	ons: Get Next 🖂 🌈 G
Address: 192.168.8.10 × Advanced., OID: 1.3.6.1.4.1.49763.1.1.1.4	SNMP MIBs	Result Table	Get Next
SNMP MIBs MIB Tree iso.org.dod.internet.private.enterprises.JDKD JDKD-INFLATOR-DTU-MIB INFLATOR DTU DTU DTUGeneral MUSystemInfoTable	MB Tree Drop dod internet private enterprises.JDKD Drop JDKD-INFLATOR-DTU-MB DRELATOR DTU DTU DTU DTU DTUCenral dm_cmaAtmbTable dm_cmaAtmbTable dm_cmaAtmbTable dm_dmidnatorTable dmindnatorTable dmindnatorT	Name-OID Value	Get Bulk Get Subtree Walk Set Table View
dtuComAttribTable	dtuinflator Count		
dtuSvrTable	dtulnflatorCode		
	endinflation		
Click "+" IIII dtuTrapAttribTable	🗄 🔟 dtuTrapAttribTable		





- 2) Configuration of the high-pressure limit as shown below:
 - ① Select the pressure parameters, then right-click and select "Set".
 - ②Fill in the pressure value from 0.4-14, Click "OK".

Attention: KD20 series input from 0.4 to 3 and KD70 from 0.4 to 7.

A success page is displayed if the range is exceeded, but no command is executed. ③Click "OK" on the pop-up window.

Kesun Table				(Ż)
Name/OID	Ve	hie	Type	IP:Port
ItuInflatorCurrentPressure.	Click this line,	right-click an	d select "Set"	192.168.8.10:161
tuInflatorPressureUpperLimit.1	5.0		O-statState	102 169 9 10-161
tulnflatorPressureLowerLimit.1	0.2		Get	Ctrl+
tuInflatorCount.1	0		Get Next	Ctrl+
tuInflatorStatus.1	0		Get Bulk	Ctrl+
tuInflatorCode.1	0		8-4	Chill
ndInflation.1	0	eL	Set	Curt
tartInflation 1	1		Walk	Ctrl+
			Delete	
Result Table		Result Table		
Name/OID	12	_	N	ame/OID
tulnflatorPressureUpperLimit 1		dtuInflatorCurr	entPressure.1	
tuInflatorPressureLowerLimit 1		dtuInflatorPress	areUpperLimit.1	
tuInflatorCount.1		dtuInflatorPressureLowerLimit.1		
tuInflatorStatus.1		dtuInflatorCount.1		
tuInflatorCode 1		dtuInflatorStatu	s.1	
		dtulnflatorCode	2.1	
-		endinitation. I		
OID .1.3.6.1.4.1.49763.1.1.1.4.1.	3.1	startiniadon. i		
Data Type OctetString				
3 Value (0.4.14)		- 1		
Vance (0.4×14)				
			SET succ	eeded
				ET succeeded
			6	OK
				hammin
	10 C			
4 Ok	Cancel			



8. TRANSMISSION LINE VOLUMES

The tables below contain estimated volume per linear unit for the most common transmission lines.

RFS and RFS Technologies Elliptical Waveguide volumes:

Waveguide	Liters per	Cubic foot per
Type	meter (l/m)	foot (ft ³ /ft)
E38/EP38	2.34	0.0252
E46/EP46	1.68	0.0181
ES46/ESP46	1.58	0.0170
E60/EP60	1.02	0.0110
E65/EP65	0.83	0.00894
EP70	0.72	0.00775
E78/EP78	0.60	0.00646
EP100	0.38	0.00409
E105/EP105	0.31	0.00334
E130/EP130	0.24	0.00258
E150/EP150	0.18	0.00194
E185/EP185	0.11	0.00118
E220	0.08	0.000861
E250	0.06	0.000646
E300	0.037	0.000398
EO38	0.07	0.000754
E380	0.03	0.000323

RFS and RFS Technologies Air Dielectric Coaxial cable volumes:

Cable	Liters per	Cubic foot per
Type	meter (l/m)	foot (ft^3/ft)
HCA38	0.107	0.00115
HCA12	0.134	0.00144
ICA12	0.131	0.00141
HCA58	0.252	0.00271
HCA78	0.34	0.00366
HCA118	0.6	0.00646
HCA158	1.4	0.0151
HCA214	2.11	0.0227
HCA295	2.91	0.0313
HCA300	3.0	0.0323
HCA400	5.0	0.0538
HCA495	8.3	0.0894
HCA550	14.0	0.151
HCA618	19.0	0.205
HCA800	30.15	0.325
HCA900	40.16	0.432

Commscope/Andrew Elliptical Waveguide volumes:

Waveguide	Liters per	Cubic foot per
Туре	meter (l/m)	foot (ft^3/ft)
EW17	6.60	0.0710
EW20	5.62	0.0605
EW37	1.96	0.0211
EW43	1.69	0.0182
EW52	1.045	0.0112
EW63	0.855	0.0092
EW64	0.725	0.0078
EW77	0.585	0.0063
EW85	0.39	0.0042
EW90	0.334	0.0036
EW127A	0.25	0.0027
EW132-137	0.167	0.0018
EW132-140	0.167	0.0018
EW132-144	0.167	0.0018

EIA Rectangular Waveguide (TE10 mode) Volumes:

Waveguide	Liters per	Cubic foot per
Туре	meter (l/m)	foot (ft^3/ft)
WR340 / WG9A	3.73	0.0401
WR284 / WG10	2.46	0.0264
WR229 / WG11A	1.70	0.0183
WR187 / WG12	1.05	0.0113
WR159 / WG13	0.816	0.00878
WR137 / WG14	0.551	0.00593
WR112 / WG15	0.360	0.00387
WR90 / WG16	0.232	0.00250
WR75 / WG17	0.181	0.00195
WR62 / WG18	0.125	0.00134
WR51 / WG19	0.0839	0.000903
WR42 / WG20	0.0461	0.000496
WR28 / WG22	0.0253	0.000272
WR22 / WG23	0.0162	0.000174
WR19 / WG24	0.0114	0.000123
WR15 / WG25	0.00707	0.0000761
WR12 / WG26	0.00480	0.0000517

Rigid Coaxial Transmission Line (50-ohm) volumes:

Line	Liters per	Cubic foot per
Size	meter (l/m)	foot (ft ³ /ft)
7/8"	0.255	0.0027
1-5/8"	0.958	0.0103
3-1/8"	3.77	0.0405
4-1/16"	6.36	0.0685
6-1/8"	14.70	0.158
7-3/16"	22.80	0.245
8-3/16"	29.77	0.320
9-3/16"	33.30	0.358

