

SAFETY AND PROPER USAGE

To ensure safe and enduring performance of this product, you must comply strictly with the instructions enclosed herein. Non-compliance with instructions or improper handling of the product will void your warranty! Usage of this product in conditions not specified in this manual or in contrary to the instructions hereby provided is considered IMPROPER. The manufacturer will not be held liable for any damages resulting from improper use of the product.

SAFETY & WARNING INSTRUCTIONS

- Observe valid and generally accepted safety rules when planning, installing and using this product.
- Take proper measures to prevent unintentional operation of the product or damage to it.
- Do not attempt to disassemble this product or lines in the system while they are under pressure.
- Always depressurize the compressed air system before working on the system.

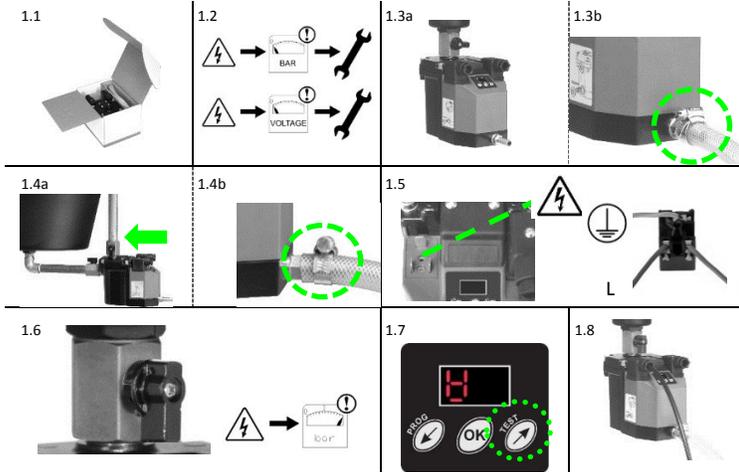
It is important that personnel use safe working practices and observe all regulations and legal requirements for safety when operating this product. When handling, operating or carrying out maintenance on this product, personnel must employ safe engineering practices and observe all local health & safety requirements & regulations. International users refer to regulations that prevail within the country of installation. Most accidents, which occur during the operation and maintenance of machinery, are the result of failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a situation that is potentially dangerous. Improper operation or maintenance of this product could be dangerous and result in an accident causing injury or death. The manufacturer cannot anticipate every possible circumstance, which may represent a potential hazard. The WARNINGS in this manual cover the most common potential hazards and are therefore not all-inclusive. If the user employs an operating procedure, an item of equipment or a method of working which is not specifically recommended by the manufacturer he must ensure that the product will not be damaged or made unsafe and that there is no risk to persons or property.

NEVER CHANGE ORIGINAL COMPONENTS WITH ALTERNATIVES

⚠ WARNING This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and/or birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov



3623 D-LUX



INSTALLATION INSTRUCTIONS

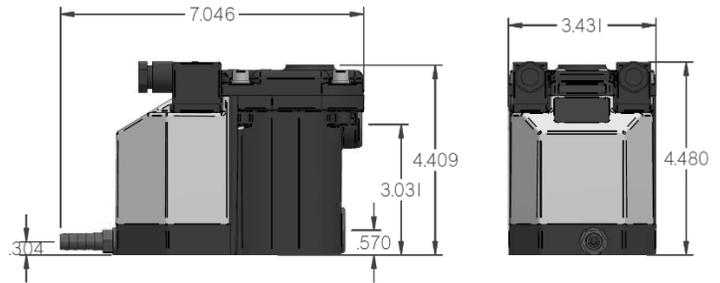
Before installing this product, make sure it complies with your request and that it suits your application!

- 1.1 Unpack the unit and visually inspect for any transport damage incurred after leaving our factory.
 - 1.2 Depressurise the system before installation or maintenance is carried out!
 - 1.3a **Top inlet connection:** If you choose to use the top inlet, locate a suitable condensate draining point in your compressed air system and connect your drain as illustrated. *The use of a ball valve is advisable.*
 - 1.3b **Top inlet connection:** Connect the outlet to an Oil/Water-Separator. We advise to use the nipple supplied with your drain. If it is necessary to use an alternative nipple, make sure it is of the correct thread (1/4" BSP). Do not over tighten!
 - 1.4a **Side inlet connection:** If you choose to use the side inlet, locate a suitable condensate draining point in your compressed air system and connect your drain as illustrated. *The use of a ball valve is advisable. The use of a venting line may be required.*
 - 1.4b **Side inlet connection:** Connect the outlet to an Oil/Water separator. We advise to use the nipple supplied with your drain. If it is necessary to use an alternative nipple, make sure it is of the correct thread (1/4" BSP). Do not over tighten!
 - 1.5 **Power cable connection:** Unscrew the connector screw and remove the cap from the connector to connect your power cable as illustrated. Replace the power connector, tighten the connector screw (Max. torque 1Nm) and turn on the power supply. *Make sure the gasket is secured properly to ensure IP65 rating.*
 - 1.6 Slowly open the ball valve to restore normal system pressure.
 - 1.7 Press and hold down the TEST button to check the valve function. A purging sound must be heard.
 - 1.8 Your drain is ready for operation!
- Note: We advise to check this product **at least once a year** and replace serviceable parts when necessary.
Note: Clean the strainer periodically to avoid possible blocking causes by rust and/or debris.
Note: Check the valve function periodically. A purging sound must be heard.

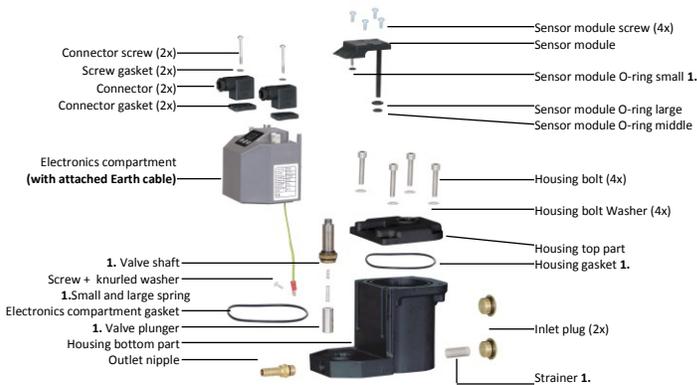
TECHNICAL SPECIFICATIONS

Maximum filter capacity	3500 CFM	
Voltage options	230VAC / 115VAC / 24VAC / 24VDC	
Pressure range	0 – 16 bar	0 – 230 psi
Medium temperature	1 – 50 °C	34 – 122 °F
Ambient temperature	1 – 50 °C	34 – 122 °F
Valve type	2/2 way, direct acting	
Valve orifice	4 mm	
Valve seals	FPM	
Inlet connection	1/2" (BSP or NPT), 3 inlet options	
Outlet connection	1/4" with hose connector	
Power connector	DIN 43650-B	
Inlet height	4.5" (top) and 2.9" & 0.6" (side)	
Test feature	Yes	
Serviceable valve	Yes	
Integrated mesh strainer	Yes	
Housing material	Corrosion resistant aluminium, EP coating	
Environmental protection	IP65 (NEMA4)	
Alarm feature type (programmable)	U1 = Normally open contacts, closed when in alarm phase. LED on the drain is OFF when in operation and ON when in alarm mode.	
Contact output switch (voltage free)	U2 = Normally closed contacts, open when in alarm phase. LED on the drain is OFF when in operation and ON when in alarm mode.	
Alarm feature specification	Max. 230VAC, max 4A, 1000VA or 200VDC, 100W and min 5VDC, 100mA	

DIMENSIONS (inches)



EXPLODED VIEW

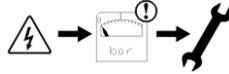


REPLACEMENT PARTS

Description	Part No.
1. Service kit	34000

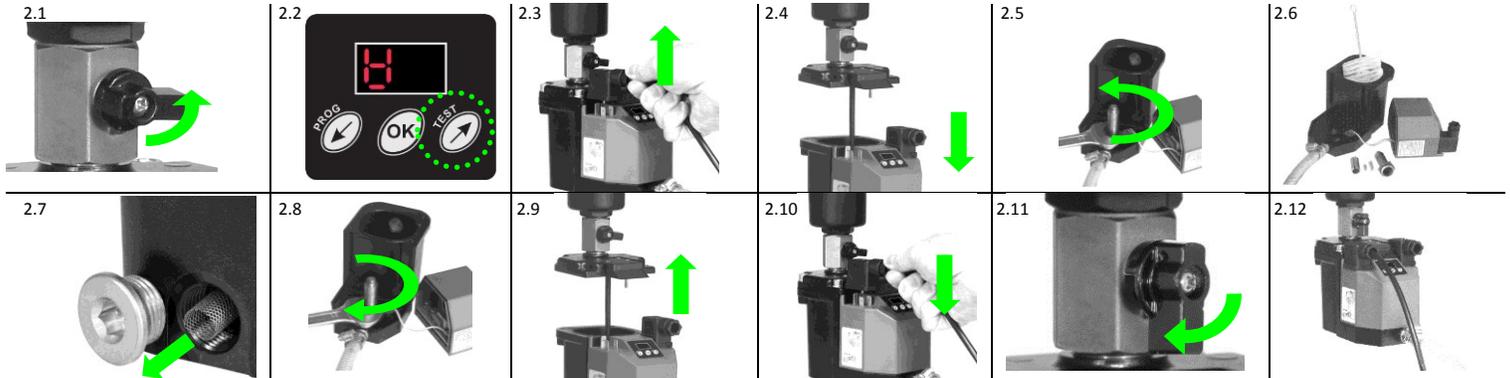
MAINTENANCE INSTRUCTIONS

These instructions are for cleaning the drain. If your drain requires servicing, i.e. replacement of wearing components, please refer to our dedicated service instructions (supplied with the service kit).



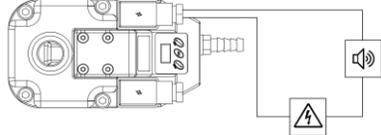
Depressurise the system before installation or maintenance is carried out!

- 2.1 Stop the condensate supply, i.e. close the ball valve which is installed in front of the drain.
- 2.2 Press the TEST button to empty the drain of any residual condensate and to depressurise the drain.
- 2.3 Switch off the power supply and remove the power connector by unscrewing the connector screw. Make sure the display is off to check if the power supply is successfully disconnected.
- 2.4 Open the housing by unscrewing the four housing bolts using a 5mm Allen key and remove the top part from the reservoir.
- 2.5 Slide the electronics compartment up and unscrew the valve from the bottom part of the housing using a 23mm wrench.
- WARNING: make sure the electronics compartment does not get wet, this will damage the unit!**
- 2.6 Clean all valve parts thoroughly. Make sure there's no debris left in the other parts of the drain.
- 2.7 Use a 10mm Allen key to remove the plug and strainer. Clean the strainer thoroughly. *Replace the strainer and plug, using a 10mm Allen key.*
- 2.8 Reassemble the valve inner parts and screw the valve back in to the bottom part of the housing, using a 23mm wrench (max. torque 10 Nm).
- 2.9 Close the housing by replacing the electronics compartment and top part on the reservoir and fixing the 4 housing bolts (max. torque 10 Nm). Make sure the gaskets are secured properly to ensure IP65(NEMA4) rating and make sure the electronics have not been in contact with water.
- WARNING: make sure the cable connected to the electronics compartment does not get damaged while re-assembling the components!**
- 2.10 Replace the power connector, tighten the connector screw (max. torque 0,3 Nm) and turn on the power supply. *Make sure the gasket is secured properly to ensure IP65(NEMA4) rating. Make sure the display lights up to check if the power supply is successfully connected.*
- 2.11 Slowly open the ball valve to restore the condensate supply.
- 2.12 Press and hold down the TEST button to check the valve function. *Your drain is ready for operation! Check the drain periodically by pressing the TEST knob. A purging sound must be heard.*

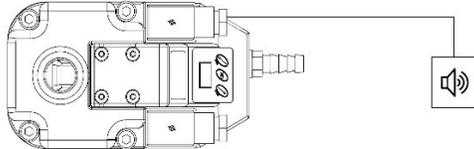


ALARM INSTALLATION INSTRUCTIONS

The drain is equipped with an alarm feature. The alarm feature can be connected to an external alarm device with its own power supply.



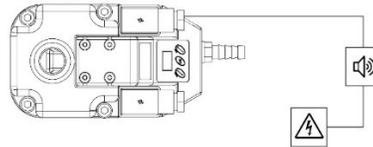
2. Connect the cable to your alarm device, any device of your choice can be applied i.e. a (flashing) light or alarm panel.



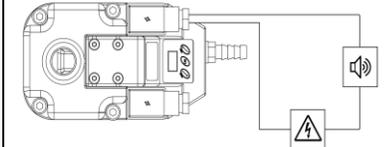
1. Unscrew the connector screw and remove the cap from the alarm connector to connect the alarm cables to the connector as shown below. Caution is required as you may be working with hazardous voltages!



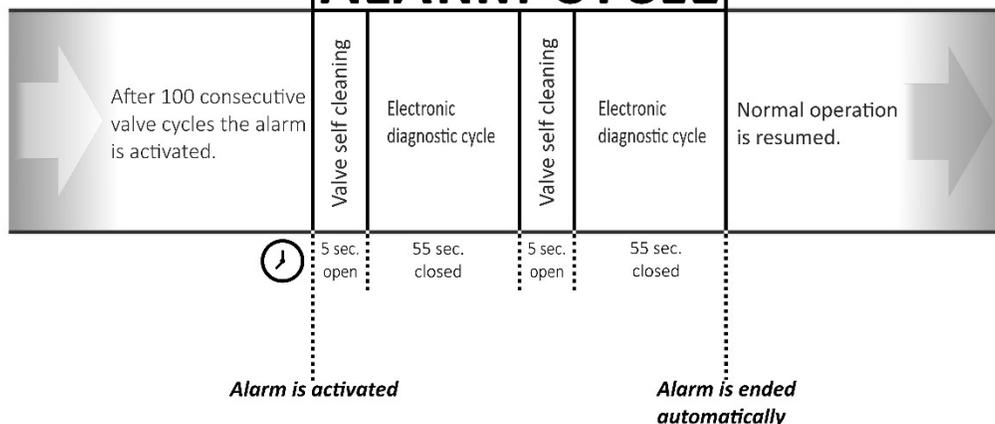
3. Connect your alarm device to a power supply. The alarm switch type is a 'contact output switch'. An external power supply is required as the alarm connection point on the drain works like a relay switch only.



4. Connect the power supply to the drain alarm connector to close the circle. Replace the connector and tighten the connector screw (max. torque 0,3 Nm). *Make sure the gasket is secured properly to ensure IP65(NEMA4) rating.*



ALARM CYCLE



DISPLAY

SYMBOL	MEANING	ACTION TO BE TAKEN
	Normal operation, condensate has not reached the discharge level.	None
	Discharge level has been reached, valve is opened to discharge the condensate.	None
 S Flashing	Service interval reached. Unit will operated normally, but it is time to clean/service the unit. The alarm output has been activated.	Clean/service the unit. After the unit has been serviced, enter the CL mode to reset the service warning.
 AC Flashing	Alarm cycle and alarm output activated. The unit has purged more than the 'AC set value' times without pause. Unit works as normal.	Check why the alarm cycle has been activated and reset by pressing the  button.
 At Flashing	Alarm cycle and alarm output activated. The unit has purged more than the 'AC set value' times in 'At set value' hours. Unit works as normal.	Check why the alarm cycle has been activated and reset by pressing the  button.
	Cleaning Mode. Press  +  for 5 seconds to enter Cleaning Mode. Sensing is disabled, press  to open the valve and to flush the unit.	Clean the unit and/or press  to restore to normal operation.

PROGRAMMING INSTRUCTIONS

Press the  button for at least 10 seconds to enter the menu. You can move through the menu by pressing the  or  buttons. When you have reached the required menu option, press the  button to enter the sub-menu. In the sub-menu you can change the default setting by pressing  or  buttons. After you have changed the default setting, simply press the  button to save the change. Wait for at least 10 seconds (without pressing any button) to exit the complete menu structure.

SYMBOL	MEANING	ACTION TO BE TAKEN
	Default Settings. Resets all settings to factory settings.	Press the  button to select.
	Anti-Air lock setting. Each X hours the unit will purge, regardless of the condensate level.	Use the  or  buttons to choose 1-99 hours. 0 = disabled, 8 = default
	Purge time setting. When the condensate level has reached a pre-defined level, the unit will purge and open the valve for X seconds.	Use the  or  buttons to choose 0.1-0.9 seconds. 0.3 = default
	Alarm Cycle setting. When the unit purges more than X consecutively times without pause, this could mean that an illogical amount of condensate is being discharged. The alarm output is activated.	Use the  or  buttons to choose 1-99 times. 0 = disabled, 0 = default

SYMBOL	MEANING	ACTION TO BE TAKEN
	Alarm time cycle setting. If the unit purges more than X (X amount set in AC) times in X hours, this could mean that an illogical amount of condensate is being discharged in a period of X hours. The alarm output is activated.	Use the  or  buttons to choose 1-99 hours. 0 = disabled, 0 = default
	Alarm Output setting. The unit can be programmed to have a NO (Normally Open) or a NC (Normally Closed) alarm relay output.	Use the  or  buttons to choose NO or NC contacts. NC = default
	<u>DO NOT CHANGE</u>	1 = default
	Sensing time setting. When the condensate has reached a pre-defined level, the unit will wait for X seconds of continuous detection before purging and opening the valve for X (set in Pt) seconds.	Use the  or  buttons to choose 0.1-9.9 seconds. 1 = default
	Service Interval setting. The unit will remind you every X weeks that it is time to clean or service the unit. <i>Note: each time the power is switched off, the unit will add 1 week to its count memory.</i>	Use the  or  buttons to choose 1-99 weeks. 0 = disabled, 0 = default