

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](http://www.P65Warnings.ca.gov)



INSTALLATION INSTRUCTIONS

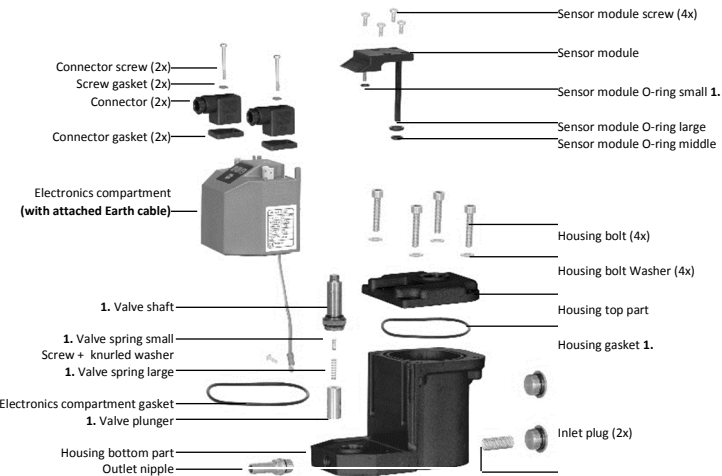
Before installing this product, make sure it complies with your request and that it suits your application!

- 1.1 Unpack the unit and visually inspect for any transport damage incurred after leaving our factory.
- 1.2 Depressurize 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.*
- If your drain is pre-wired, please go to step 1.6.
- 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: 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.*

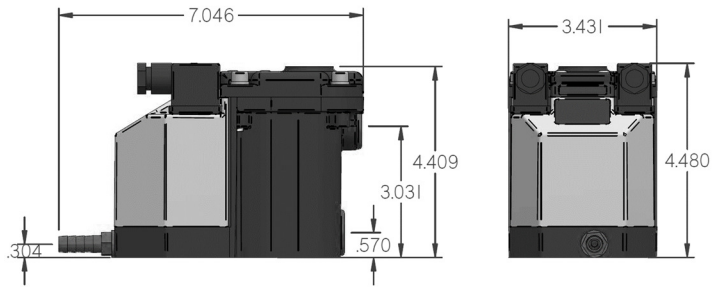
TECHNICAL SPECIFICATIONS

|                                      |                                                                                                                                                                                                                                                                |             |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Maximum filter capacity              | 3500 CFM                                                                                                                                                                                                                                                       |             |
| Voltage                              | See side of unit                                                                                                                                                                                                                                               |             |
| Maximum drainage capacity            | 29 gallons per hour at 230 psi (16 bar)<br>110 litres per hour at 230 psi (16 bar)                                                                                                                                                                             |             |
| 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                   | U1 = Normally open contacts, closed when in alarm phase. LED on the drain is OFF when in operation and ON when in alarm mode.<br>U2 = Normally closed contacts, open when in alarm phase. LED on the drain is OFF when in operation and ON when in alarm mode. |             |
| Contact output switch (voltage free) |                                                                                                                                                                                                                                                                |             |
| Alarm feature specification          | Max. 230VAC, max 4A, 1000VA or 200VDC, 100W and min 5VDC, 100mA                                                                                                                                                                                                |             |

EXPLODED VIEW



DIMENSIONS (inches)

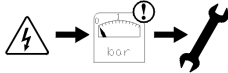


REPLACEMENT PARTS

| Description    | Part No. |
|----------------|----------|
| 1. Service kit | 34000    |

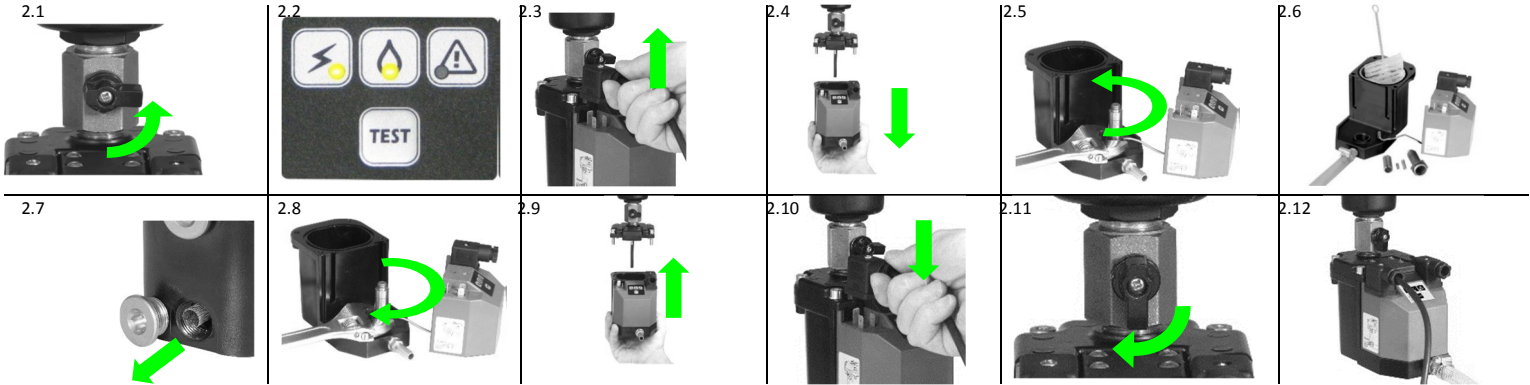
MAINTENANCE INSTRUCTIONS

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).



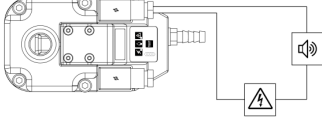
Depressurise the system before installation or maintenance is carried out!

- 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.
- 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.
- 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.

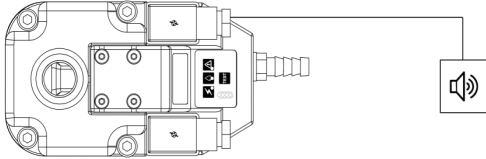


ALARM INSTALLATION INSTRUCTIONS

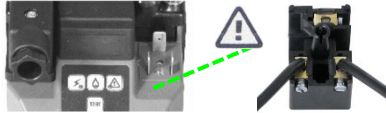
The drain is equipped with an alarm feature. The alarm feature can be connected to an external alarm device with its own power supply.



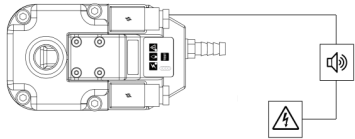
2. Connect the cable to your alarm device, any device of your choice can be applied i.e. a (flashing) light or alarm panel.



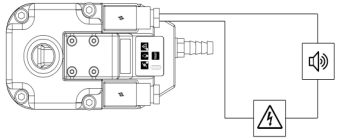
1. Unscrew the connector screw and remove the cap from the alarm connector to connect the alarm cables to the connector as shown below. Caution is required as you may be working with hazardous voltages!



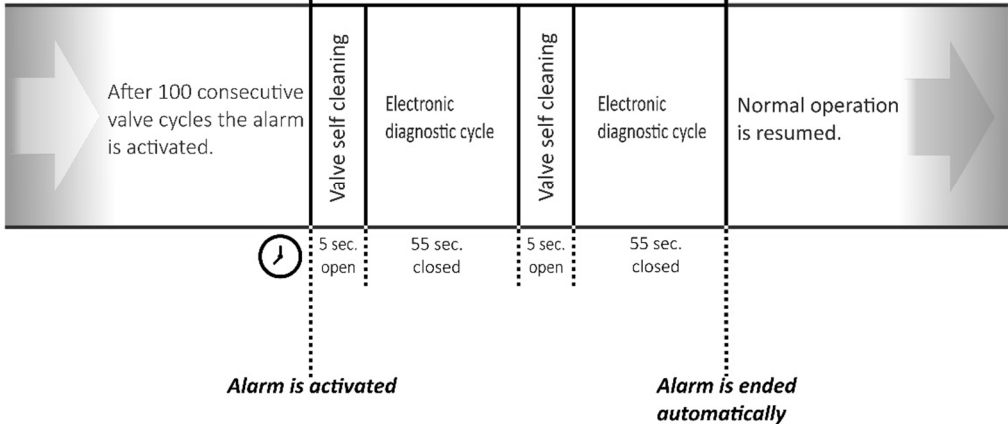
3. Connect your alarm device to a power supply. The alarm switch type is a 'contact output switch'. An external power supply is required as the alarm connection point on the drain works like a relay switch only.



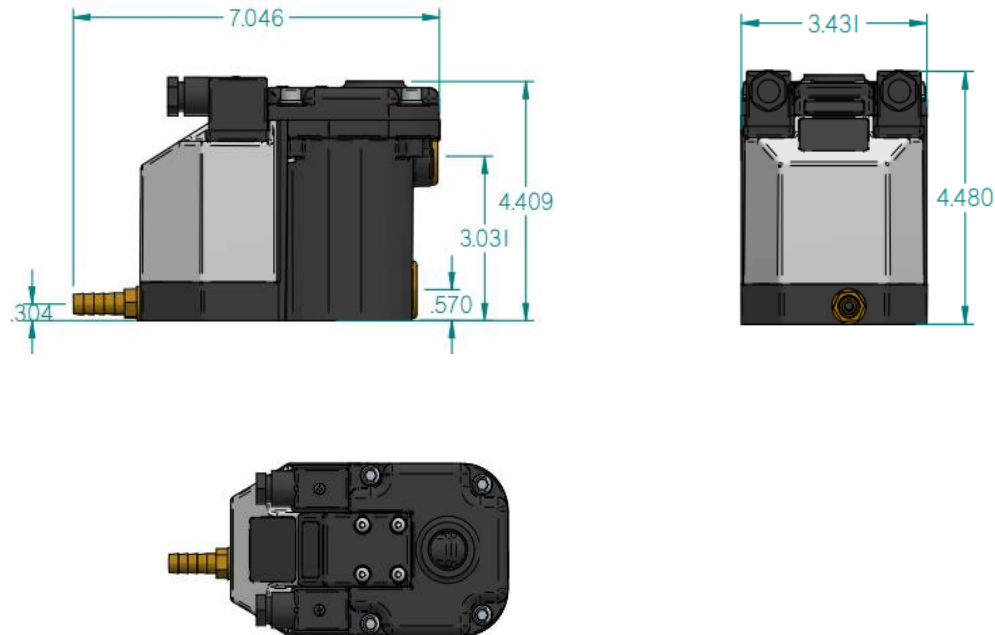
4. Connect the power supply to the drain alarm connector to close the circle. Replace the connector and tighten the connector screw (max. torque 0,3 Nm). Make sure the gasket is secured properly to ensure IP65 (NEMA4) rating.



ALARM CYCLE



**SG35000U3 Zero Air Loss Drain**



Ideal for Use On Refrigerated Dryers and Air Filters

UL Recognized, CE and CRN Approved  
Capacity 176 Gallon/3500 SCFM at 230 PSI  
Working Pressure: 230 PSI  
Working Temperature: 34 F - 122 F  
Large 4mm Orifice  
Connections: 1/2" FPT Inlet (Top or Side)  
and 1/4" Outlet/Hose Pipe Discharge  
Environmental Protection: NEMA 4 (IP65)

State of the Art Software Monitors Condensation Continuously  
with Digital LED Sight Port Level Indicators and  
Includes N.O. or N.C. Alarm Contact to Electronically Interface  
with a Compressor Control System  
Power and Alarm Connectors DIN43650-B  
Test Button  
Integral Mesh Strainer  
6 Ft. Power Cord  
Corrosion Resistant Aluminum Housing  
1 Year Warranty



WARNING: This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer and reproductive harm. For more information go to [www.P65Warnings.CA.gov](http://www.P65Warnings.CA.gov)

Drawing Date: 11/2021  
Rev Level-Date: