



SE PURA condensate cleaners

Installation and use

Models covered:

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SEP 60 ST



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SEP 120 ST

SEP 360 ST

SEP 900 ST

SEP 1800 ST



page 3)

SEP 3500 ST

SEP 7000 ST



Thank you for choosing **SE PURA**.

Always read the instructions before installation and use

Our unique range of condensate cleaners employs technologically advanced design and patented filter materials to ensure that your company's discharge of compressor condensate meets or improves upon the local legal permissible limits. Please remember, it is the responsibility of the user to check local regulations.

Only genuine **SE PURA** service kits using **STERLING** material can replicate original performance. Carbon bags are **NOT** suitable for any of these condensate separators.



SEP 60 ST

Condensate Cleaner Installation and operation

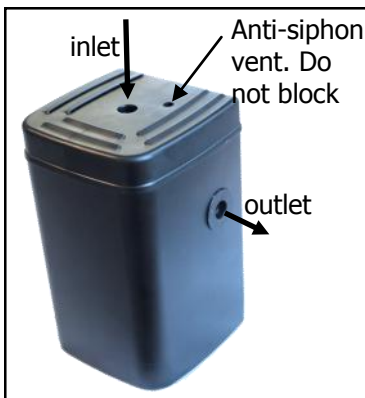
Just like the 'spin-on' filters you will be familiar with, **SEP 60 ST** is a disposable product. At the end of its design life it must be replaced to ensure its vital environmental and legally protective functions are performed correctly. **SEP 60 ST** has been carefully designed to clean condensate from a compressor system of up to 60cfm (1.7m³/min) to as low as 5 p.p.m. oil in water—suitable for discharge to a sewer. *Note: Acceptable levels vary, but it is the user's responsibility to ensure compliance with local regulations*

Installation

- Fix the wall plate vertically on a suitable wall or the compressor cabinet. Isolate the compressor and look out for cables and pipes when drilling.
- Slide the **SEP 60 ST** on to the plate, with the venting flutes at the top.
- Connect drain points using 6 mm tube; insert tube into push fitting in the inlet.
- Connect 10mm tube into outlet fitting and feed to drain. Ensure a steady fall from outlet point to drain with no kinks or tight bends.
- **Important** Always use automatic drains. Set timed drains to a very short 'open' time. Never use manual drains, which can flood any condensate separator forcing partially treated or untreated condensate to be discharged.

Replacement

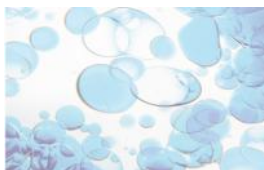
- Ensure the condensate drain(s) cannot operate.
- Disconnect inlet and outlet tubes from their quick fittings
- Lift **SEP 60 ST** from the wall plate.
- Clip on the transit lid and insert transit plug into outlet (both items are supplied with the replacement **SEP 60 ST**)
- Unit is now sealed for transport to a licensed waste disposal site
- Refit the new **SEP 60 ST** to the existing wall plate and connect as before



Performance data—SEP 60 ST (mineral or blended synthetic oils)

Based on compressor oil carry-over of no more than 5mg/m³ (consistent with most manufacturers' claims)

60 cfm 1.7m ³ /min 11kW	5000 hours running or 1 year (whichever comes first)
30 cfm 0.85m ³ /min 5.5kW	8,000 hours running or 2 years (whichever comes first)



Condensate cleaners — installation guide for SEP 120 ST SEP 360 ST SEP 900 ST SEP 1800 ST

Step 1



Check you have all the parts needed to complete the condensate cleaner. SEP 1800 has 2 towers, a moulded joining collar, 2 pairs of filters and additional manifolds, screws and connecting pieces. **SEP 900 ST** and **SEP 1800 ST** have two metal retainer strips for each filter set.

Step 2



Fit the inlet block to your chosen side using the screws supplied. Extra blocks can be purchased if required

Step 3



Fit the circular blanking plug into the opposite side of unit

Step 4



Insert the **STERLING** filter, which is the white netting bag with the tied top, pushing it gently but firmly down base of the housing.

Step 5



Insert the metal retainer with its bent ends facing upwards.

Slide it down until it makes contact with the top of the **STERLING** filter. Do not compress the filter.

For the **SEP 900 ST** and the **SEP 1800 ST**, two retainers are used at 90 degrees to each other for each filter set

Step 6



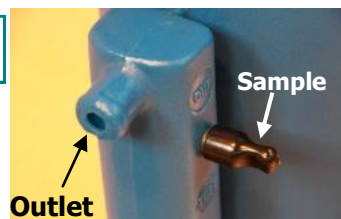
Insert the needle-felt filter with its inlet tube as shown

Step 7



Connect the inlet block to the filter tube using fittings supplied.

Step 8



Check cap is fitted to sample point (spares are provided) and connect outlet hose to metal or moulded nipple (model dependent) Fill with water and check for any leaks

NOTES: Ensure a steady down slope from the outlet point to foul drain. Never discharge to storm drain or surface water. Test outlet quality weekly using kit provided. Replace filters before outlet cloudiness exceeds the limit for your region. Further information and warranty details can be found on our website — www.oil-water.com

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SEP 3500 ST / SEP 7000 ST

Condensate cleaner installation and operation

SEP 3500 ST and **SEP 7000 ST** are semi-disposable condensate cleaners for larger systems up to 10,000 cfm (285 m³/min).

The condensate cleaner uses an IBC (International Bulk Container) of either 600 or 1000 litres capacity, part-filled with **STERLING** filter medium. A stainless steel pressure relief chamber with ¾" BSP ports is attached to the top inlet. The outlet is configured so that the IBC fills with condensate to approximately 80% of capacity.

The unique feature of this design is that the entire filter body, filter medium and the retained oily waste are simply removed from site at the end of the filter's life. Pressure relief chamber and outlet pipe-work are retained for use after replacement. Installation and servicing are therefore, by default, very quick and simple.

Installation

- Install the **SE PURA** cleaner by fork lift, on to a reasonably level floor.
- There is a marginal benefit from pre-filling with water. Do so if convenient.
- Connect condensate drains as preferred. There is no special recommendation for manifolds or drain types – but we recommend our ECD zero-loss drains as an energy-saving measure.
- Route outlet to foul drain / sewer, using a reinforced hose or pipe of suitable diameter with an un-restricted fall to drain.
- **SEP 3500 ST** is designed for 3,500 cfm (100 m³/min) with a 24-months filter life. It will handle the flow from 5,000 cfm (142 m³/min) with a reduced life of 12 months.
- **SEP 7000 ST** is designed for 7,000 cfm (200 m³/min) with a 24-months filter life. It will handle the flow from 10,000 cfm (285 m³/min) with a reduced life of 12 months.

Maintenance

- Check outlet every week, quality using the supplied test kit. If the cloudiness of the sample matches that of the appropriate marker on the kit, the filter should be replaced. (Wetting agent in the filter may cause initial cloudiness which is harmless and will soon clear)
- When change is required, turn off the outlet stopcock, then disconnect the condensate feeds and outlet hose. Remove pressure relief chamber and outlet pipe-work for re-use.
- Remove IBC for transit to a licensed waste contractor and replace with a **SE PURA** 're-fill' IBC

Do not attempt to re-fill with anything other than **SE PURA STERLING** medium. No other material produces equivalent results. The risks are: dramatically reduced filter life; restricted flow through compaction, causing spills; or significantly degraded outlet quality— possibly all three!

**All performance data is based on compressor oil carry-over of no more than 5mg/m³
(consistent with most manufacturers' claims)**