



OIL/WATER SEPARATION

CONDENSATE CLEANERS

PURO MINI

PURO

PURO MIDI

PURO GRAND

PURO XTENDER

PURO DISTRIBUTOR

PURO



PURO GRAND



COMPRESSED AIR CONDENSATE MANAGEMENT SPECIALIST

RELIABLE

INDEX

Useful information

PURO MINI

PURO

PURO MIDI

PURO GRAND

XTENDER

FEATURES

ACCESSORIES

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Why install an oil/water separator?

Local environmental laws and regulations stipulate that most of the oil contaminant must be removed from the condensate before discharging in to the sewage system.

The PURO's separation ability

The PURO is designed to separate mineral oil, semi –and fully synthetic lubricants from condensate. A stable emulsion formed from mineral oil or synthetic lubricants is typically no problem for the PURO.

Special elements are available for poly-glycol applications, consult the factory.

Why choose the PURO?

Minimal stocking costs.

No de-rating or over-sizing (no complicated sizing charts required) because the standard PURO models handle virtually all types of compressor lubricants. In addition the PURO does not incorporate/require a condensate settling tank. Any type of condensate drain can be applied.

The PURO stocking advantages

The PURO outer dimensions are much smaller than other condensate cleaners in the marketplace, because the PURO does not incorporate large condensate settling reservoirs.

The PURO MIDI & GRAND can be retrofitted with an XTENDER, meaning as your customer grows his compressed air system to a larger capacity, you can simply add the XTENDER to the GRAND. Four models and an Xtender cover all capacities up to 70m³/min (compressor capacity).

Health & safety

Large condensate settling reservoirs (used by our competitors) can stimulate the growth of harmful bacteria and the cause of unpleasant smells. The PURO does not incorporate a settling reservoir, nevertheless, we recommend that you apply the protective clothing and mask that is supplied as standard with all PURO models and elements.

PURO MINI

Oil/water separator for compressors capacities up to 3.5m³/min



PRODUCT FEATURES

The PURO MINI is designed to separate oil from condensate that is extracted from compressed air systems. The PURO MINI condensate separator covers compressor capacities up to 3.5 m³/min.

The separation method of the PURO MINI is the same as its larger family members and therefore offers true condensate separation values for the smaller compressor applications.

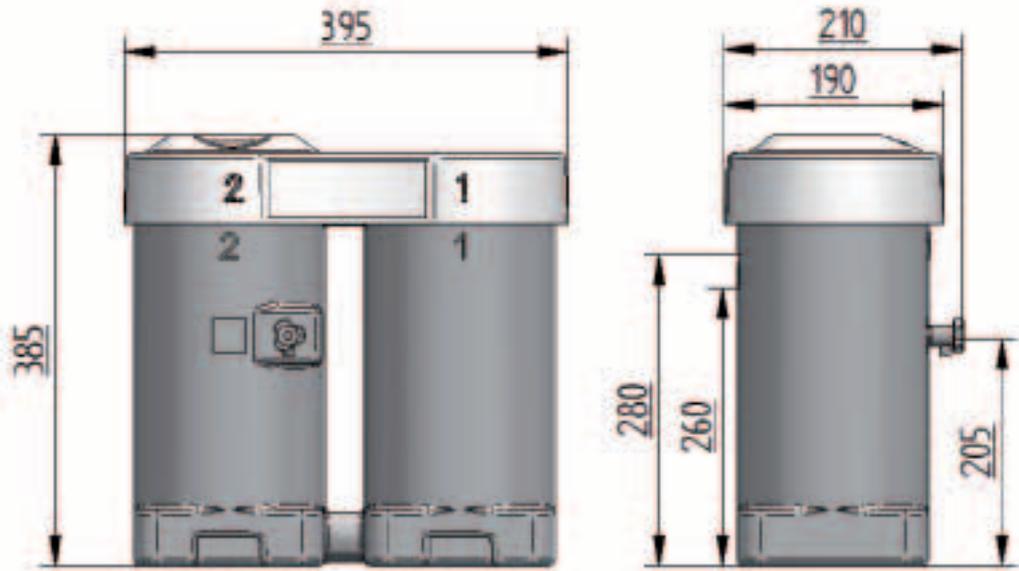
COMMERCIAL BENEFITS

- Separation of all types of compressor lubricants
- Compact design (wall mounting bracket optionally available)
- TEST valve and kit feature to test oil ppm residue
- The PURO MINI does not incorporate a settling reservoir (no bacteria growth)
- Clothing kit included.

TECHNICAL ADVANTAGES

- Any type of condensate drain can be applied.
- No de-rating required.
- Easy serviceable/maintenance.

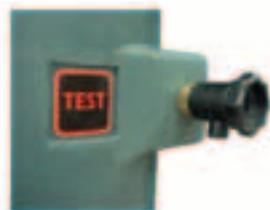
PRODUCT DIMENSIONS



PRODUCT SPECIFICATIONS

Compressor capacity	3.5m ³ /min (125 CFM)
Max. oil adsorption white element	3 liters
High performance white element	1
Activated carbon element	1
Inlet connection	1/2"
Outlet connection	1/2"
TEST valve	Yes
Housing material	PE
Total recyclable	Yes
Housing colour	Ral 7026
Lid colour	Ral 7021

PRODUCT FEATURES



TEST feature



TEST kit included



All threads are brass inserts and the hose pipe connectors are included.



Compact design allows for cost effective shipping.

PURO

Oil/water separator for compressors capacities up to 8m³/min



PRODUCT FEATURES

The PURO is designed to separate oil from condensate that is extracted from compressed air systems. The PURO MINI condensate separator covers compressor capacities up to 8m³/min.

Polypropylene has the perfect effect on oil. It attracts oil and captures it, almost as if it draws oil like a magnet. That simplicity and our technology are at the root of the PURO's efficiency to clean virtually all types of condensate, emulsified or not.

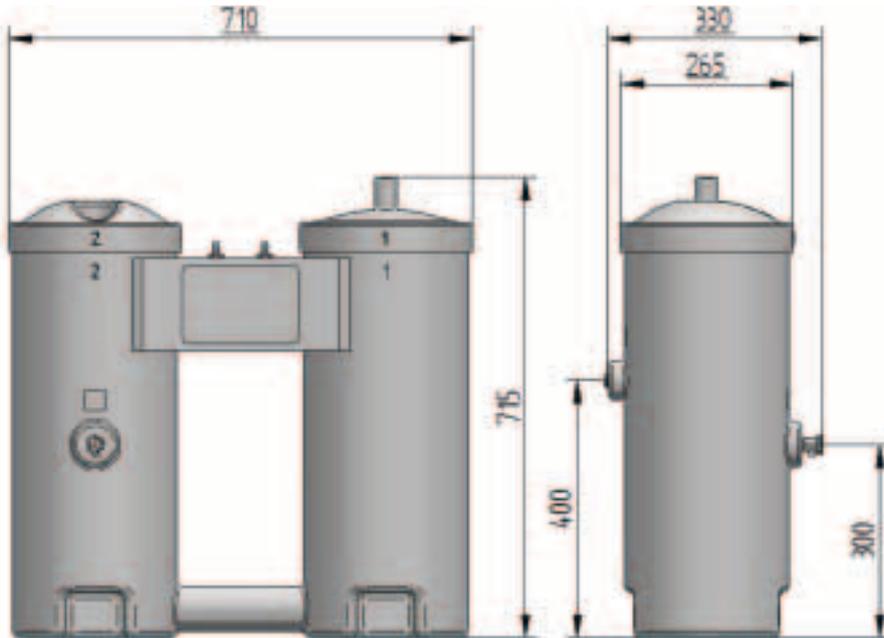
COMMERCIAL BENEFITS

- Separation of all types of compressor lubricants
- Compact design
- TEST valve and kit feature to test oil ppm residue
- The PURO does not incorporate a settling reservoir (no bacteria growth)
- Clothing kit included.

TECHNICAL ADVANTAGES

- Any type of condensate drain can be applied.
- No de-rating required.
- Easy serviceable/maintenance.

PRODUCT DIMENSIONS



PRODUCT SPECIFICATIONS

Compressor capacity	8m ³ /min (300 CFM)
Max. oil adsorption white element	10 liters
High performance white element	1
Activated carbon element	1
Inlet connection	1/2" (2 off)
Outlet connection	1/2"
TEST valve	Yes
Housing material	PE
Total recyclable	Yes
Housing colour	Ral 7026
Lid colour	Ral 7021

PRODUCT FEATURES



TEST feature



TEST kit included



All threads are brass inserts and the hose pipe connectors are included.



Helpful lifting handles on the elements

PURO MIDI

Oil/water separator for compressors capacities up to 20m³/min



PRODUCT FEATURES

The PURO is designed to separate oil from condensate that is extracted from compressed air systems. The PURO MINI condensate separator covers compressor capacities up to 20m³/min. The PURO MIDI's capacity can be increased by adding the XTENDER. By doing this, the PURO MIDI's compressor capacity is brought up to 30m³/min.

Like in all PURO models, the high performance white element offers true separation benefits which are unrivalled.

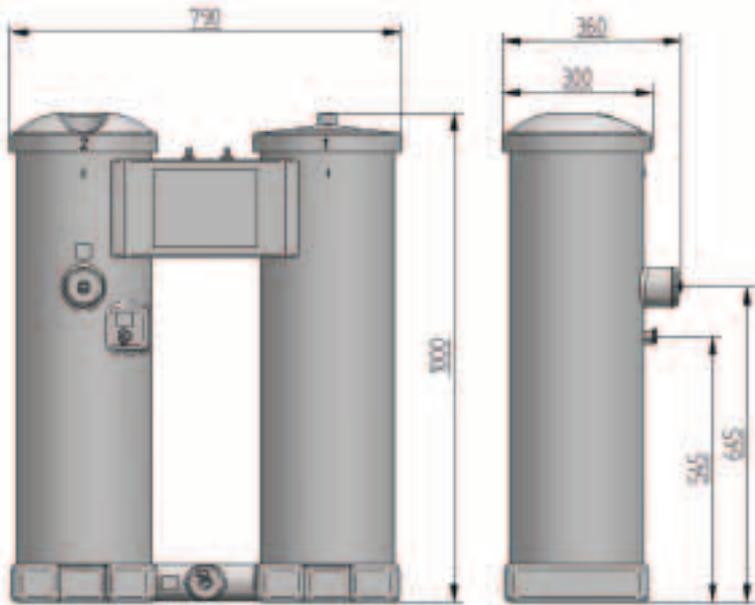
COMMERCIAL BENEFITS

- Separation of all types of compressor lubricants
- Compact design
- TEST valve and kit feature to test oil ppm residue
- The PURO does not incorporate a settling reservoir (no bacteria growth)
- Clothing kit included.

TECHNICAL ADVANTAGES

- Any type of condensate drain can be applied.
- No de-rating required.
- Modular add-on possibilities.
- Easy serviceable/maintenance.

PRODUCT DIMENSIONS



PRODUCT SPECIFICATIONS

Compressor capacity	20m ³ /min (750 CFM)
Max. oil adsorption white element	15 liters
High performance white element	1
Activated carbon element	1
Inlet connection	1/2" (2 off)
Outlet connection	1/2"
TEST valve	Yes
Housing material	PE
Total recyclable	Yes
Housing colour	Ral 7026
Lid colour	Ral 7021

PRODUCT FEATURES



TEST feature
TEST kit
included



Overflow indicator



All threads are brass
inserts and the hose
pipe connectors are
included.



Helpful lifting
handles on
the elements

PURO GRAND

Oil/water separator for compressors capacities up to 35m³/min



PRODUCT FEATURES

The PURO GRAND is designed to separate oil from condensate that is extracted from compressed air systems. The PURO GRAND condensate separator covers compressor capacities up to 35m³/min. The PURO GRAND's capacity can be increased by adding the XTENDER. By doing this, the compressor capacity is brought up to 70m³/min.

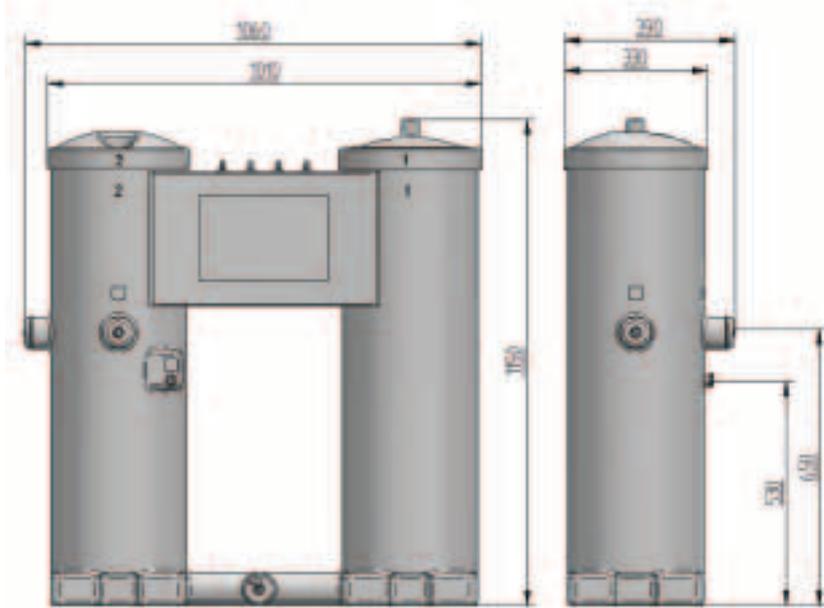
COMMERCIAL BENEFITS

- Separation of all types of compressor lubricants
- Compact design
- TEST valve and kit feature to test oil ppm residue
- The PURO does not incorporate a settling reservoir (no bacteria growth)
- Clothing kit included.

TECHNICAL ADVANTAGES

- Any type of condensate drain can be applied.
- No de-rating required.
- Easy serviceable/maintenance.

PRODUCT DIMENSIONS



PRODUCT SPECIFICATIONS

Compressor capacity	35m ³ /min (1250 CFM)
Max. oil adsorption white element	25 liters
High performance white element	1
Activated carbon element	1
Inlet connection	1/2" (4 off)
Outlet connection	1/2"
TEST valve	Yes
Housing material	PE
Total recyclable	Yes
Housing colour	Ral 7026
Lid colour	Ral 7021

PRODUCT FEATURES



TEST feature
TEST kit
included



Service drain



All threads are brass
inserts and the hose
pipe connectors are
included.



Helpful lifting
handles on
the elements

PURO XTENDER

Oil/water separator for compressors capacities up to 70m³/min



PRODUCT FEATURES

The XTENDER is designed to be bolted to the PURO MIDI and the PURO GRAND. By coupling the XTENDER to either of the models, the compressor capacity is doubled. This is useful when the end-user has increased his compressor capacity or if the oil output ppm values require to be even lower.

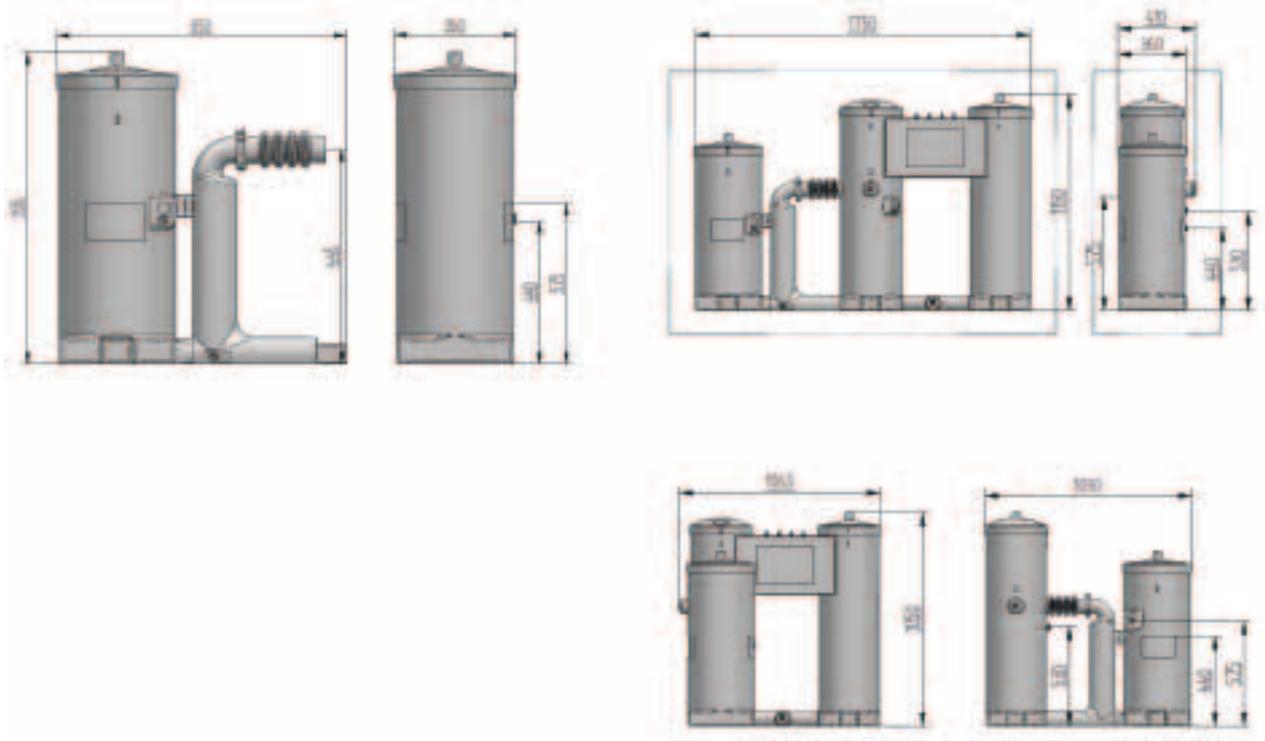
COMMERCIAL BENEFITS

- Separation of all types of compressor lubricants
- Modular add-on Compact design
- In-line and corner installation options

TECHNICAL ADVANTAGES

- Increase the capacities of the PURO MIDI and the PURO GRAND
- No de-rating required.
- Easy serviceable/maintenance.

PRODUCT DIMENSIONS



PRODUCT SPECIFICATIONS

Compressor capacity	70m ³ /min (2500 CFM) bolted to a GRAND.
Activated carbon element	1
Inlet connection	Bolted to the MIDI or GRAND
Outlet connection	1/2"
Housing material	PE
Total recyclable	Yes
Housing colour	Ral 7026
Lid colour	Ral 7021

PRODUCT FEATURES



In-Line installation



Corner installation



Service drain



All threads are brass inserts and the hose pipe connectors are included.

DISTRIBUTOR

Compressed air condensate distributor



PRODUCT FEATURES

Although the PURO GRAND XTENDER has a compressor capacity of 70m³/min, it is possible that certain large applications require two or more units to be installed. In these cases it is recommended that the condensate is equally distributed into the separators so that the elements are saturated evenly.

The DISTRIBUTOR has two 1" condensate inlets and eight 1/2" outlets.

The depressurising pad ensures compressed air condensate depressurisation and the subsequent distribution into the PURO separators.

COMMERCIAL BENEFITS

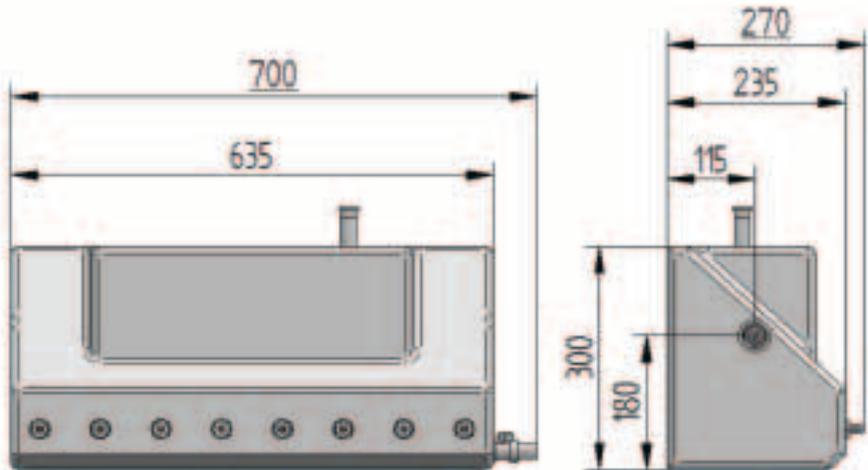
The DISTRIBUTOR is supplied complete with the following items to simplify the installation:

- DISTRIBUTOR
- Wall fixing brackets
- Wall fixing bolts and plugs
- Spirit level

TECHNICAL ADVANTAGES

- A service valve is incorporated for cleaning and servicing.
- 8 condensate distribution outlets.
- Easy serviceable/maintenance.

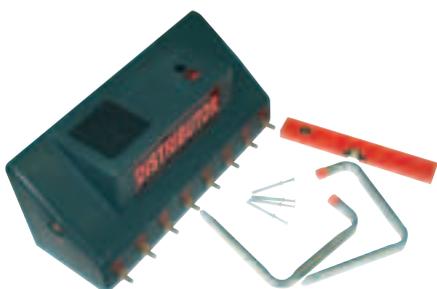
PRODUCT DIMENSIONS



PRODUCT SPECIFICATIONS

Number of separators that can be hooked up	8
Inlet connection	1" (2 off)
Outlet connection	1/2" (8 off)
Service/draining valve	Yes
Housing material	PE
Total recyclable	Yes
Housing colour	Ral 7026

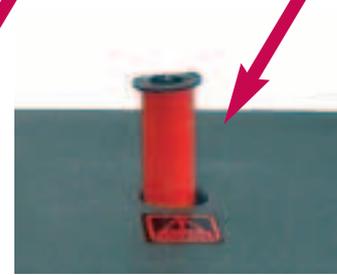
PRODUCT FEATURES



Complete installation set is included



Service valve



Overflow indicator

TEST

The PURO is designed to separate oil from condensate. To check the PURO's activated carbon element(s) and the output residue of oil, a TEST valve is incorporated.



TEST KIT

In the head of tower 2 there is a TEST bottle kit that is applied to carry out the testing procedure. The test bottle has a label giving an indicative comparison to 20 ppm



SERVICING DRAIN VALVE

Once a year we recommend a thorough cleaning/servicing of the PURO. For health and safety reasons the whole unit can be drained from its water content by opening the servicing drain valve.



CLOTHING KIT

For health and safety reasons the PURO units and replacement elements are supplied complete with a protective clothing kit. The content of the kit is: face mask, gloves and overall.



HOOK UP FEATURE GRAND – XTENDER

Although the overall sizes of the PURO models are compact in design, the larger models have an additional hook-up feature. The PURO GRAND XTENDER can be positioned in a 90 degree (corner position) or a 180 degree (flat against the wall position).



OVERFLOW INDICATOR

It is virtually impossible to overflow the PURO, yet as a precaution the larger models have an incorporated overflow feature. The overflow indicator also gives a visual indication of the condensate inlet flow rate.

DEPRESSURISING FEATURE

The PURO depressurises the condensate immediately at the inlet stage. This feature allows for every type of condensate drain. (timer controlled, intelligent type or float type).



Frequently Asked Questions

Why does my old style condensate cleaner overflow?

You almost certainly have a weir type machine which cannot handle condensate from modern systems. The indicator provided gives a very short warning but in practice, overflowing is the first indication that the machine is blocked.

How can I stop my weir type machine from overflowing?

The only way to prevent weir type machines from overflowing is to change the carbon elements frequently. For example, if the carbon elements were replaced every day, overflowing would be prevented but costs would be very high. In practice, elements changed every three months or so ensure 'acceptable' costs and minimise customer complaints.

Will the PURO condensate cleaners overflow?

Provided that normal maintenance is carried out it is almost impossible for the PURO condensate cleaners to overflow.

How do I know that my old style condensate cleaner is working properly?

All weir type condensate cleaners have a bottle or container to catch any separated oil. If the machine is working properly, after a week or two, depending on the system, this bottle should contain some liquid oil i.e. some oil that looks like oil. Should it contain nothing at all or some solution of oil and water, the machine is not working properly.

Will the PURO condensate cleaners work with modern systems and solutions?

The PURO condensate cleaners are designed to handle any solutions and even thick emulsions and are working very successfully on all types of system.

Why can I not use solenoid type drains with my old style weir type machine?

This type of machine depends upon the oil settling out and rising to the surface of the solution. Solenoid type drain valves mix up the solution and reduce the settling time.

Can I use any type of drain valves with the PURO condensate cleaner?

The PURO condensate cleaners work with any drain valves or any combination of drain valves.

Why do I need to test the output of my old style weir type machine?

This type of machine is very un-reliable and likely to fail at any time. Until it actually overflows, regular and frequent testing is the only way to discover if failure is imminent.

Why do the carbon elements on my old style separator only last a short time?

The design of the weir type machine means that, in most cases, oil is not actually separated but is collected inside the machine. After some time, this oil gets through onto the carbon elements and quickly blocks them. Replacing the elements doesn't help as the new elements also get blocked by the oil.

Why do the carbon elements in the PURO condensate cleaners last longer?

The design of the PURO condensate cleaners prevents most of the oil from passing to the carbon elements which only have to do a very minimum of work.

How long will the PURO elements last?

Provided that the PURO poly-element is changed properly, the carbon elements should last for about 12 months. The life of the PURO white-element is determined by the amount of oil that needs to be separated which means that well maintained systems will use fewer elements. Should compressor servicing be poor, neat oil may pass into the PURO condensate cleaner and will seriously shorten the life of the PURO white-element and, if not noticed, carbon elements as well. However, the PURO condensate cleaner will prevent all or nearly all of the neat oil from flooding onto the floor or down the drain. Problems will be averted if both compressor and the PURO supervision and servicing is carried out properly.

Why do I not need an oil bottle with the PURO machine?

The PURO condensate cleaners collect all the separated oil in a special disposable filter which means that when the filter is changed, all the separated oil is removed from the machine.

Will my condensate be clean enough to put down the drain?

The efficiency of the PURO condensate cleaners means that it is not uncommon for the condensate to be clean enough to discharge before it reaches the activated carbon elements for final cleansing.

Why are the PURO condensate cleaners cheaper to install?

The low size and weight of the PURO condensate cleaners mean that they will fit almost anywhere and will take less time and manpower to position. The PURO does not need a smooth or a very level floor or adjusting and it is not necessary to purchase and fit special, expensive drain valves.

Old style separators – the problem explained!

The figures represent a cross-section of a conventional oil/water separator.

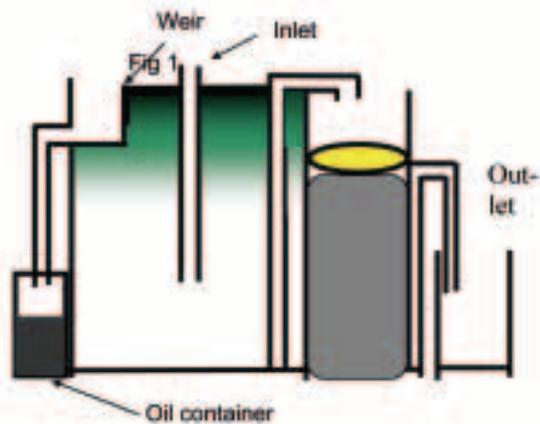


Fig 1 shows ‘What is supposed to happen’ with the darker oil settling above the condensate (green) before flowing over the weir into the oil container leaving fairly clean condensate to pass from the bottom of the settling tank onto the pre-filter (yellow), through the carbon filter (grey) and out of the machine.

When working properly, the oil container will contain neat, liquid oil with no contaminants.

The oil quantity removed should equate to the amount used to ‘top up’ the compressors over a similar period of time.

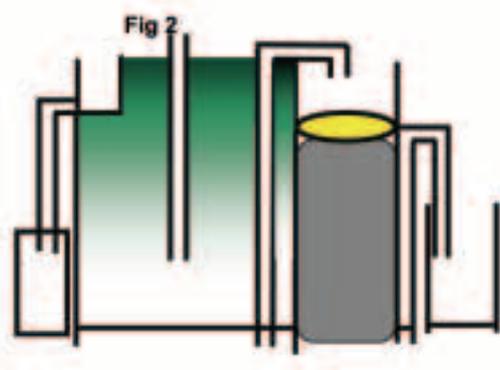


Fig 2 shows no oil passing over the weir as most modern oils form thick emulsions that will not flow over a weir and so ‘build up’ inside the machine,

Initially, the machine seems to be working well, with fairly clear solution being produced but the primary separation device, the weir, is doing no work and leaving the carbon to remove all of the oil.

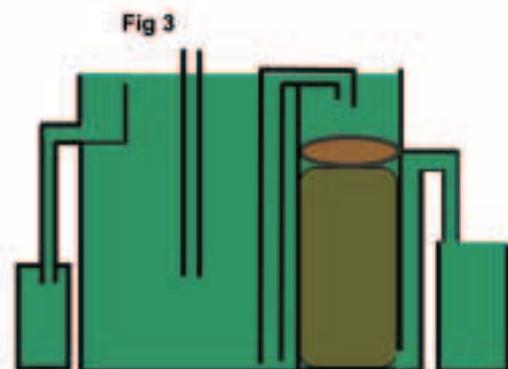


Fig 3 shows that the emulsion has filled the settling tank and reached the transfer pipe. As more condensate is introduced, emulsion must pass into the carbon chamber, quickly blocking the carbon and causing the machine to overflow.

Any oil that may be in the oil container will be washed out by the lighter emulsion that now passes over the weir due to the increased surface height inside the tank due to the blockage. A change of carbon elements will simply defer the problem for a few more days and the whole machine will need to be drained and pressure washed to allow the whole process to restart.



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