



## OIL/WATER SEPARATION

### *CONDENSATE CLEANERS*

ENVIRO

PURO MINI

PURO

PURO MIDI

PURO GRAND

PURO XTENDER

PURO DISTRIBUTOR

**PURO**



**PURO GRAND**



COMPRESSED AIR CONDENSATE MANAGEMENT SPECIALIST

RELIABLE

## Standard Terms of Sale and Delivery of Jorc Industrial LLC

### Art. 1 General.

- 1.1 All of our offers, contracts and the execution thereof are governed exclusively by the present terms. Any derogation must be agreed with us explicitly in writing.
- 1.2 In the present terms, "the customer" is defined as each natural or legal person who has entered into or wishes to enter into a contract with our company, as well as the representative(s), attorney(s), legal successor(s) and heirs thereof.
- 1.3 The applicability of the Standard Terms maintained by the customer is explicitly excluded.
- 1.4 Simply by placing an order and/or taking receipt of the delivered goods, the customer accepts these standard terms and is deemed to have given tacit consent for their exclusive applicability in regard of any further orders placed orally, by telephone, telegraph, fax or in any other manner, irrespective of any written confirmation on our part.

### Art. 2 Offers.

- 2.1 All offers remain valid during the period to be indicated by us. In the absence of such a period, our offers are made without commitment and subject to contract.
- 2.2 All price lists, brochures and other data provided with an offer, are formulated with the utmost accuracy. They are binding for us only if such is explicitly confirmed in writing. We retain the property and intellectual property rights of all data/information provided with an offer, which must be returned to us upon our first such request.
- 2.3 The sending of offers and/or other documentation does not oblige us to deliver and/or accept the order.
- 2.4 We retain the right to refuse orders without stating reasons, and/or to supply on a cash-on-delivery basis or following payment in advance.
- 2.5 The customary tolerances apply to the measurements stated in offers.

### Art. 3 Contract.

- 3.1 Notwithstanding the following, a contract with us is established only once we have accepted or confirmed an order explicitly, i.e. in writing or otherwise, for instance by the actual delivery or handing-over of the goods.
- 3.2 The order confirmation is deemed to provide a complete and accurate representation of the contract.
- 3.3 Any additional terms or changes subsequently agreed and any terms agreed orally and/or undertakings given by our employees or on our behalf by our salespeople, agents, representatives or other intermediaries, will be binding for us only if confirmed by us in writing.
- 3.4 Each contract will be entered into on our part under the suspensive condition that the customer proves to be sufficiently creditworthy to comply financially with the contract, to be assessed exclusively by us.
- 3.5 Upon or after entering into the contract, we are entitled, before rendering performance or further performance thereof, to require security from the customer to ensure that the customer's payment and other obligations will be fulfilled.

### Art. 4 Warranty

**Jorc products are warranted to be free from defects in material and workmanship, under proper use, installation, application and maintenance in accordance with Jorc's written recommendations and specification for a period of one year from the date of shipment from Jorc's facility.**

**Jorc's obligation under this warranty is limited to, and the sole remedy for any such defect shall be, the repair or replacement (at Jorc's option) of unaltered products returned to Jorc and proven to have such defect, provided such defect is promptly reported to Jorc within said warranty period.**

**Warranty claims must be submitted and shall be processed in accordance with Jorc's established warranty claim procedure. In no event will Jorc be liable for business interruptions, loss of profits, personal injury, costs of delay or for any other special, indirect, incident or consequential losses, cost or damages.**

**This is the only authorized Jorc warranty and is in lieu of all other express or implied warranties or representation, including any implied warranties of merchantability or fitness, or any other obligations on the part of Jorc.**

**Jorc maintains a policy of ongoing product development and improvement. We therefore reserve the right to change dimensions specifications and design without notice.**

### Art. 5 Delivery and delivery periods.

- 5.1 Unless agreed otherwise, the delivery will take place from our company premises/warehouse. As soon as the goods leave our company premises/warehouse, the risk as regards the goods will transfer to the customer. We will provide carriage-paid delivery only if and insofar as stated by us in the order confirmation, invoice or otherwise. For orders below a certain minimum size, separate administrative costs and/or carriage surcharges may be applied.
- 5.2 The customer is obliged to check the delivered goods and/or the packaging immediately upon hand-over for any defects or visible damage, or to carry out such checks after being notified by us that the goods are at the customer's disposal.
- 5.3 The customer must note or order to be noted on the delivery receipt, the invoice and/or the carriage documents, any defects or damage to the delivered goods and/or packaging present upon delivery or hand-over. Failure to do so will lead to the associated complaints not being taken into consideration. Our records are decisive in relation to such matters.
- 5.4 We are entitled to make delivery in parts, i.e. partial deliveries, for which we may submit separate invoices. In such cases, the customer is obliged to make payment in accordance with the relevant provisions below on "Payment".
- 5.5 Delivery periods are given in good faith and are therefore not to be regarded as binding. On this basis, failure to deliver within the delivery period will not make us liable to pay any compensation. Following a failure to deliver within the delivery period, the customer may issue us with a written notice of default, specifying a final, reasonable period for delivery, following the expiry of which the customer will be entitled to annul the contract in writing, unless we find ourselves hindered by circumstances constituting force majeure.
- 5.6 If by the expiry of the delivery period the customer has not taken possession of the goods, they will be stored at the customer's disposal, for the customer's account and risk. Following a period of four weeks, we are entitled to sell these goods (privately).
- 5.7 Any shortfall in the proceeds of sale, as well as the costs, will be for the account of the customer, without prejudice to our other rights in the matter.

### Art. 6 Transportation/Risk.

- 6.1 In the absence of any further instructions to us by the customer, we will determine the mode of transportation, dispatch, packaging etc. with due care, without bearing any liability for it. Any specific wishes of the customer in relation to transportation/dispatch will be honoured only if the customer has declared that it will bear the additional costs involved.
- 6.2 The transportation of the goods will in principle in all cases take place at the risk and account of the customer, even if the carrier requires a clause to appear on the carriage documents, road waybills etc. stating that all damage incurred during carriage will be for the account and risk of the sender.
- 6.3 In the event of carriage-paid delivery, the transportation costs will not be charged separately.

### Art. 7 Force majeure

- 7.1 For these purposes, force majeure is defined as follows: any circumstance that is unforeseeable and/or independent of the will of the parties, due to which performance of the contract can no longer reasonably be required of us by the customer. Force majeure includes in any case the following: strikes, excessive absence through illness in our workforce, transportation problems, fire, government measures including in any case import and export bans, quota systems and interruptions to operations, as well as breaches of contract by our suppliers, as a result of which we are not or no longer able to fulfil our obligations to the customer.
- 7.2 If circumstances of force majeure arise, we are entitled to suspend the performance of the contract or to dissolve the contract permanently. The customer will be consulted.
- 7.3 We are entitled to claim payment for the performance already carried out pursuant to the contract in question before the circumstances constituting force majeure became evident.
- 7.4 We are also entitled to invoke force majeure if the circumstance giving rise to force majeure arises only after our performance should have been rendered.

### Art. 8 Liability.

- 8.1 Notwithstanding statutory provisions on liability and product liability from which no derogation is permitted and in accordance with legal rules of public order and good faith, we are not obliged to pay any compensation at all for damage, of any nature whatsoever, be it direct or indirect, including loss of profits, to items of moveable or immovable property and/or to persons, both as regards the customer and third parties. In accordance with the rest of this article, we are not under any circumstances liable for damage caused by improper use of the goods supplied or by use thereof for a purpose other than that for which they are suited, to be determined according to objective standards. Technical advice and information on the processing and application possibilities of products is provided to the customer on the basis of our best knowledge and the current state of the art, without giving rise to any obligation and without any liability on our part.
- 8.2 Our liability will be partially assessed in view of any product/commercial insurance we have. Notwithstanding the coverage thereof, our liability is always limited to the net invoice value of the goods supplied.
- 8.3 Compliance with the applicable obligations regarding warranties/complaints and/or payment by us or our insurer(s) of the assessed damage, will be deemed as complete compensation covering all that is due. The customer indemnifies us explicitly and fully from any further liability.

### Art. 9 Complaints.

- 9.1 Notwithstanding the provisions elsewhere in these standard terms, all complaints relating to the quality of the goods supplied, must be submitted to us in writing within eight days after hand-over, stating precisely the nature and basis of the complaints. Complaints regarding invoices must be submitted within eight days after the invoice date.
- 9.2 Complaints regarding hidden defects (i.e. defects not visible upon hand-over) must be submitted within no less than twelve months after delivery and within eight days after their discovery.
- 9.3 Following the expiry of these periods, the customer will be deemed to have given approval for the goods supplied and/or the invoice. In such cases, we will no longer be required to take complaints into consideration.
- 9.4 If we have found a complaint to be well-founded, we are obliged only to deliver the defective goods anew, without the customer being entitled to any additional compensation of any nature whatsoever.
- 9.5 The submission of a complaint will not under any circumstances free the customer from its payment obligations towards us.
- 9.6 Delivered goods can be returned only once our prior written approval has been granted, under conditions to be determined by us.

### Art. 10 Retention of property.

- 10.1 All goods delivered by us and remaining in the control or possession of the customer, remain our property, until full payment has been made of all that the customer owes us on any account whatsoever, also including future claims against the customer, inclusive of interest and costs (and in cases of delivery on account, until settlement of any balance payable by the customer).
- 10.2 With respect to these goods, we also acquire the (joint) right of property, as security for all of our outstanding claims against the customer, as well as in respect of the goods regarding which our property right is lost as a consequence of treatment/processing, accession, specification or otherwise. The transfer will be deemed to constitute a non-possessory pledge on the goods, for which the customer now grants advance, irrevocable consent, for the value of the remaining outstanding claims.
- 10.3 The goods may be resold or used by the customer in the normal course of its business, but may not be given as collateral or serve as security for any claim of a third party.

### Art. 11 Payment.

- 11.1 Payment must be made on a net basis, in cash, upon delivery or hand-over, without any deduction or set-off being applied, or by means of payment into a bank or Postbank account specified by us, within thirty days after the invoice date, unless agreed otherwise. The value day specified on these bank/Postbank statements is decisive and will therefore be deemed as the date of payment.
- 11.2 Each payment by the customer will in the first place go towards paying the interest due, as well as any collection costs incurred by us and/or administrative costs. The remainder will then be deducted from the longest outstanding claim.
- 11.3 In the event that the customer:
  - a. is declared bankrupt, assigns its estate, requests a moratorium on payments and/or all or part of its property is placed under attachment;
  - b. dies or is placed under curatorship;
  - c. fails to fulfil any obligations by virtue of statute or these standard terms;
  - d. fails to pay an invoice sum or part thereof within the set period;
  - e. ceases or transfers its business or an important part thereof, including incorporating the business in a company, and/or changes the objectives of the business;
 we are entitled, simply by virtue of one of the listed circumstances arising, either to deem the contract to have been dissolved without any judicial intervention being required, or to demand full payment of any sum payable by the customer in relation to work carried out by us and/or goods delivered by us, immediately and without any warning and/or notice of default being required, and to vindicate goods supplied but not or not yet paid for, as our own property, in all cases without prejudice to our entitlement to payment of costs, damages and interest.
- 11.4 Once the payment period has expired without the sum payable having been paid, we are entitled to declare the contract dissolved, without notice of default or judicial intervention being required and we are also entitled to repossess or order the repossession of the goods supplied, in accordance with the provisions on "Retention of Property".

### Art. 12 Interest and costs.

- 12.1 If payment has not been made within the period referred to in the previous article, the customer enters default by operation of law and, as of the due date, is liable to pay interest of 1.5% per month or part thereof, on the amount remaining outstanding.
- 12.2 All judicial and extra-judicial costs to be incurred, will be for the expense of the customer. The extra-judicial collection costs will be at least 15% of the sum payable by the customer.

**INDEX**

**MEANINGFUL INFORMATION**

**ENVIRO**

**PURO MINI**

**PURO**

**PURO MIDI**

**PURO GRAND**

**XTENDER**

**FEATURES**

**ACCESSORIES**

Information provided herewith is believed to be accurate and reliable. However, no responsibility is assumed for its use or for any infringement of patents or rights of others, which may result from its use. In addition, JORC reserves the right to revise information without notice and without incurring any obligation.

### Why install an oil/water separator?

Local environmental laws and regulations combined with the power of the individual, mean 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.

### Principle workings of the PURO

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.

The PURO uses various filtration stages to achieve the lowest possible oil residue. The first stage is an adsorption filter that utilizes a material that is treated and designed to adsorb oil, not water.

The condensate flows through the filter and the oil is adsorbed.

Subsequent separation stages are completed with specially selected activated carbon to polish out the remaining contaminants.

### 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 2500 SCFM (compressor capacity). Consult Factory For Larger Applications.

### 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.

# ENVIRO

Oil/water separator for compressors capacities up to 65 SCFM



## PRODUCT FEATURES

The ENVIRO is designed to separate oil from condensate, which has been extracted from compressed air systems up to 65 cfm.

Small or low cost compressed air systems require low cost separation solutions. The ENVIRO has been designed specifically for such economy applications.

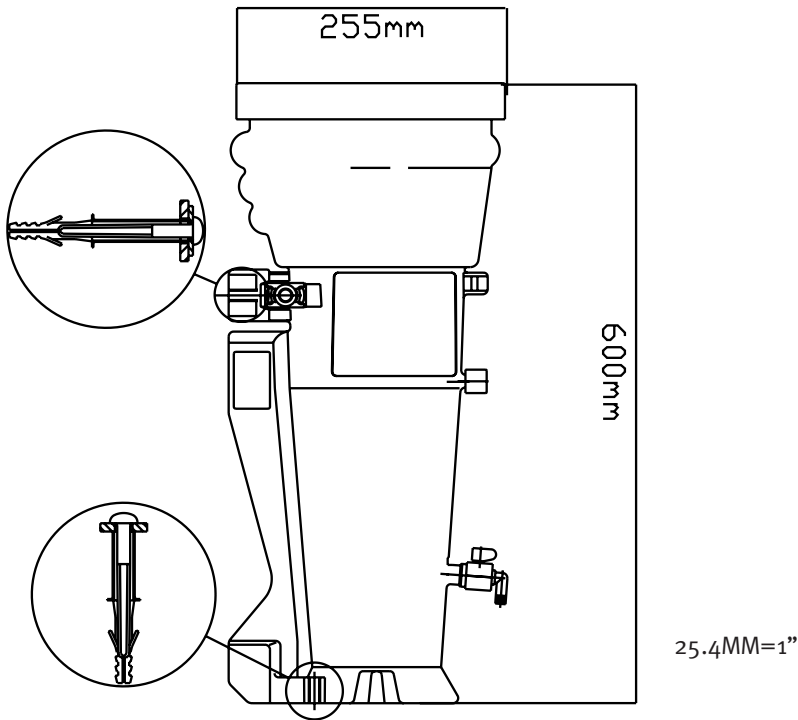
## COMMERCIAL BENEFITS

- Designed for condensate containing mineral oil
- Is applied on compressed air systems up to 65 cfm
- Easy to maintain
- Small compact design

## TECHNICAL ADVANTAGES

- Rugged PE housing
- TEST valve for sampling purposes.
- Simple to install

## PRODUCT DIMENSIONS



## PRODUCT SPECIFICATIONS

Compressor capacity	1.8m <sup>3</sup> /min (65 cfm)
Reservoir capacity	13 litre
Reservoir dimensions	261 x 600 x 270 (W x H x D)
Active coal element	3,8 litre
Pre-filter	2,0 litre
Condensate inlet	1/2", 3/8", 1/4"
Clean water outlet	1/2" hose connection (15° angle)
Emergency overflow	1/4"
Sample TEST valve	yes
Weight empty	15 LBS. can ship UPS

For applications exceeding 1.8m<sup>3</sup>/min compressor capacities or requiring separation of synthetic lubricants, please refer to the PURO range of separators.

Stable condensate emulsions and separation of polyglycol can only be achieved with the PURO range of separators, please consult factory.

## PRODUCT FEATURES



Condensate inlet connections



TEST valve



Overflow outlet

# PURO MINI

Oil/water separator for compressors capacities up to 125 SCFM



## 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 125 SCFM.

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

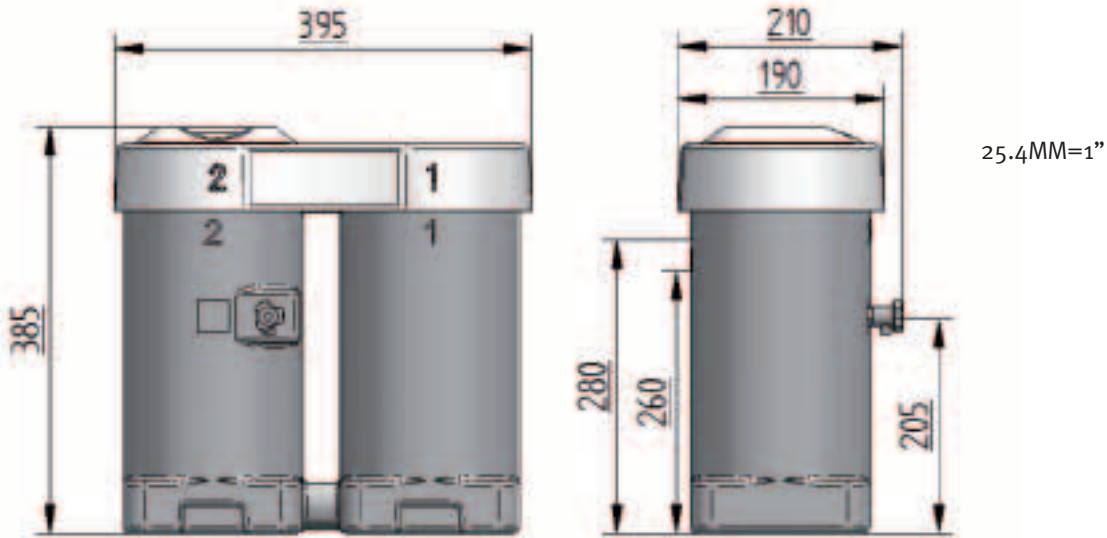
- Separation of all types of compressor lubricants
- Compact design (wall mounting bracket optionally available)
- TEST valve and kit feature to test oil ppm residue
- The PURO MINI does not incorporate a settling reservoir (no bacteria growth)
- Clothing kit included.

## 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 <sup>3</sup> /min (125 CFM)
Max. oil adsorption white element	.8 Gallons
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 color	Ral 7026
Lid color	Ral 7021
Weight Empty	18 LBS. Can Ship UPS

**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 300SCFM



## PRODUCT FEATURES

The PURO is designed to separate oil from condensate that is extracted from compressed air systems. The PURO condensate separator covers compressor capacities up to 300 SCFM.

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.

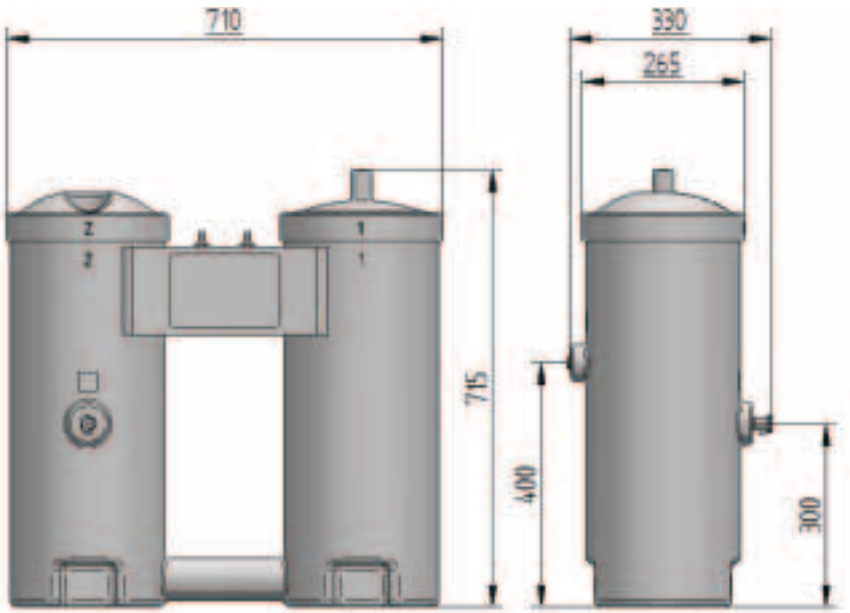
## COMMERCIAL BENEFITS

- 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**



25.4MM=1"

**PRODUCT SPECIFICATIONS**

Compressor capacity	8m <sup>3</sup> /min (300 CFM)
Max. oil adsorption white element	2 3/4 Gallons
High performance white element	1
Activated carbon element	1
Inlet connection	1/2" (2 Each)
Outlet connection	1/2"
TEST valve	Yes
Housing material	PE
Total recyclable	Yes
Housing color	Ral 7026
Lid color	Ral 7021
Weight	Approximate 50 LBS. Can ship UPS

**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 750 SCFM



## PRODUCT FEATURES

The PURO is designed to separate oil from condensate that is extracted from compressed air systems. The PURO MIDI condensate separator covers compressor capacities up to 750 SCFM. 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 1400 SCFM.

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

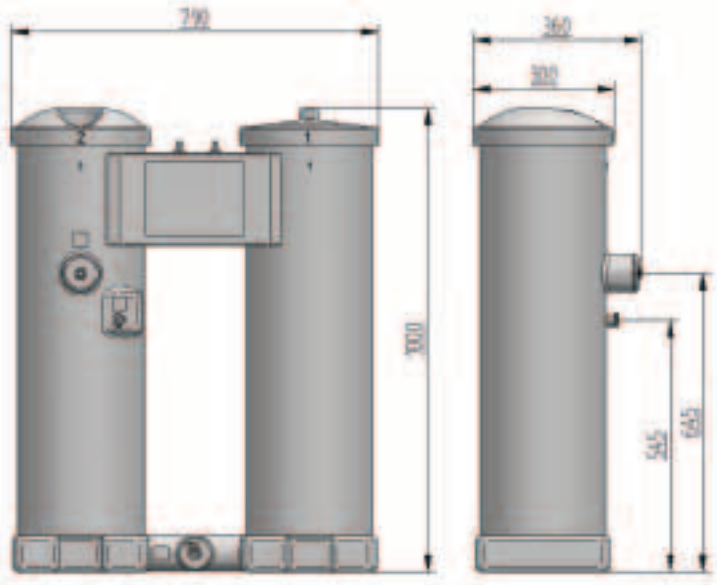
## COMMERCIAL BENEFITS

- 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**



25.4MM=1"

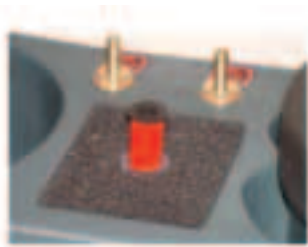
**PRODUCT SPECIFICATIONS**

Compressor capacity	20m <sup>3</sup> /min (750 CFM)
Max. oil adsorption white element	4 Gallons
High performance white element	1
Activated carbon element	1
Inlet connection	1/2" (2 Each)
Outlet connection	1/2"
TEST valve	Yes
Housing material	PE
Total recyclable	Yes
Housing color	Ral 7026
Lid color	Ral 7021
Weight	110 Lbs. Can Ship UPS

**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 1250 SCFM



## 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 1250 SCFM. The PURO GRAND's capacity can be increased by adding the XTENDER. By doing this, the compressor capacity is brought up to 2500 SCFM.

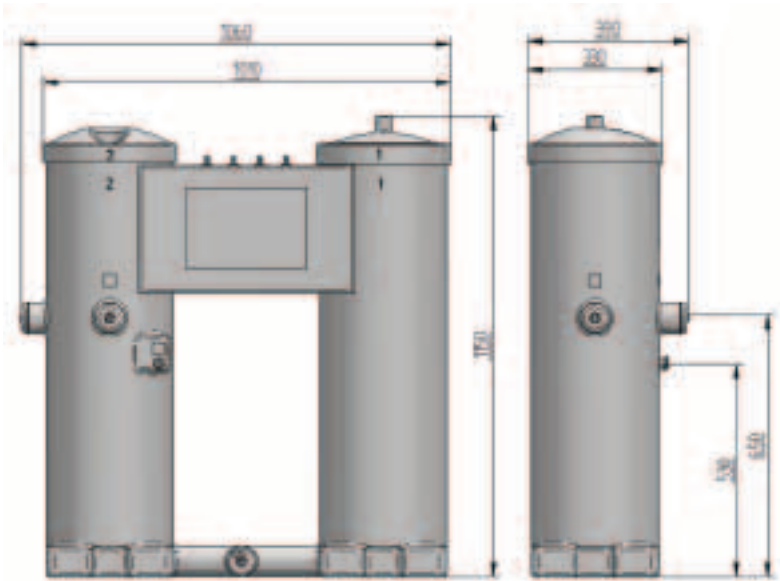
## COMMERCIAL BENEFITS

- Separation of all types of compressor lubricants
- 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



25.4MM=1"

## PRODUCT SPECIFICATIONS

Compressor capacity	35m <sup>3</sup> /min (1250 CFM)
Max. oil adsorption white element	7 Gallons
High performance white element	1
Activated carbon element	1
Inlet connection	1/2" (4 Each)
Outlet connection	1/2"
TEST valve	Yes
Housing material	PE
Total recyclable	Yes
Housing color	Ral 7026
Lid color	Ral 7021
Weight	130 LBS. Can Ship UPS

## 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 70m<sup>3</sup>/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

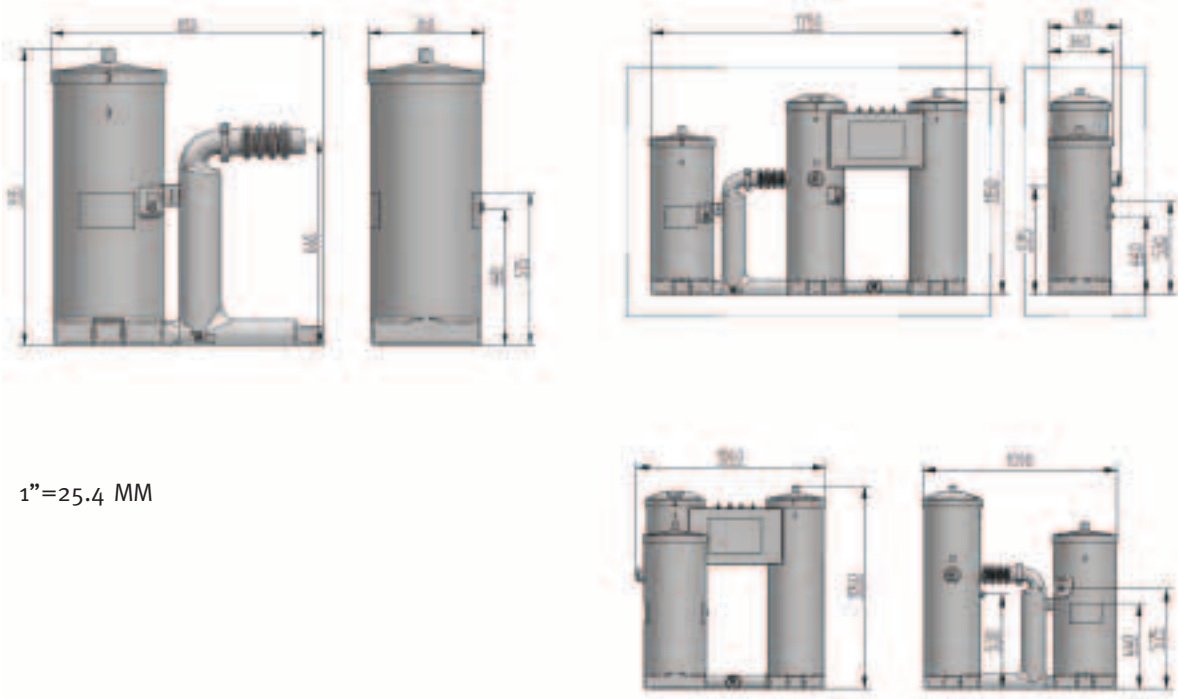
- Separation of all types of compressor lubricants
- Modular add-on Compact design
- In-line and corner installation option

## TECHNICAL ADVANTAGES

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



## PRODUCT DIMENSIONS



1"=25.4 MM

## PRODUCT SPECIFICATIONS

Compressor capacity	70m <sup>3</sup> /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 color	Ral 7026
Lid color	Ral 7021
Weight empty	83 LBS. Can Ship UPS

## 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 70m<sup>3</sup>/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 depressurizing pad ensures compressed air condensate depressurization and the subsequent distribution into the PURO separators.

## COMMERCIAL BENEFITS

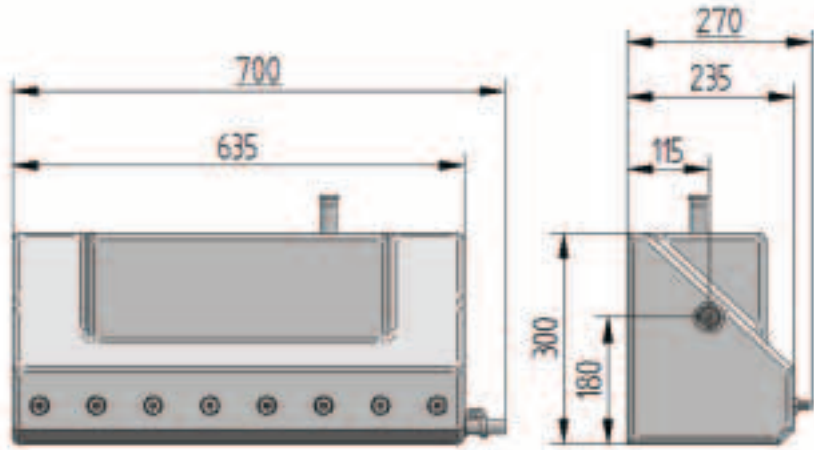
The DISTRIBUTOR is supplied complete with the following items to simplify the installation:

- 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**



1"=25.4 MM

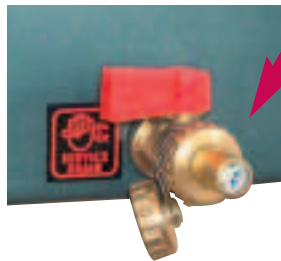
**PRODUCT SPECIFICATIONS**

Number of separators that can be hooked up	8
Inlet connection	1" (2 each)
Outlet connection	1/2" (8 each)
Service/draining valve	Yes
Housing material	PE
Total recyclable	Yes
Housing color	Ral 7026
Lid color	black
Lid color	Ral 7021
Dimensions HxWxD	35" x 16" x 36"
Weight empty	18 LBS. Can Ship UPS

**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 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 depressurizes 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 are changed every three months or so to ensure 'acceptable' costs and minimize 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 clear 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.

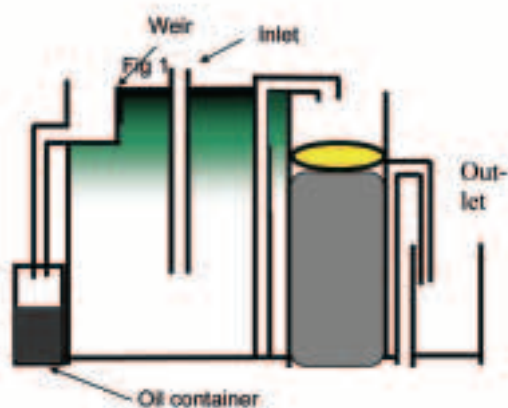


Fig 1 shows ‘What is supposed to happen’ with the darker oil settling above the condensate (green) before flowing over the weir into the oil container leaving fairly clean condensate to pass from the bottom of the settling tank onto the pre-filter (yellow), through the carbon filter (grey) and out of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

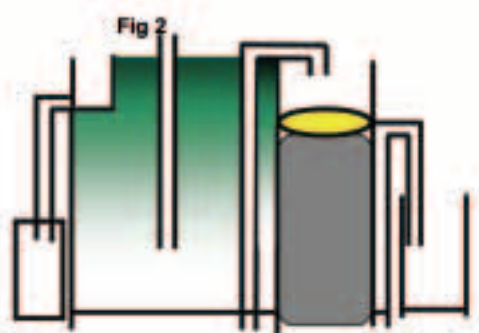


Fig 2 shows no oil passing over the weir as most modern oils form thick emulsions that will not flow over a weir and so ‘build up’ inside the machine,

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.

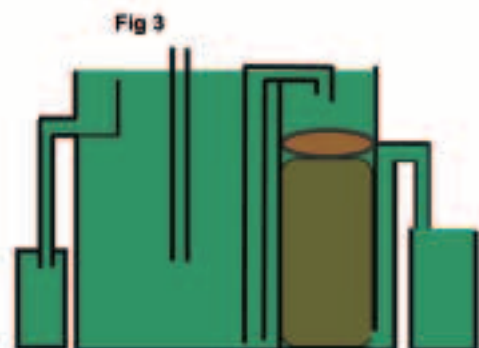


Fig 3 shows that the emulsion has filled the settling tank and reached the transfer pipe. As more condensate is introduced, emulsion must pass into the carbon chamber, quickly blocking the carbon and causing the machine to overflow.

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.

# PURO FAMILY

Compressed air condensate separation



- 9513 Mini 125 CFM
- 9513-P Mini Polyglycol\*
- 95132 Mini White Replacement Bag
- 95135 Mini Polyglycol\* Replacement Bag
- 95133 Mini Charcoal Replacement Bag
- 9509 Puro 300 CFM
- 9509-P Puro 50HP-Polyglycol\*
- 95092 Puro White Replacement Bag
- 95095 Puro Polyglycol\* Replacement Bag
- 95093 Puro Charcoal Replacement Bag
- 9512 Midi 750 CFM
- 9512-P Midi 150HP-Polyglycol\*
- 95122 Midi White Replacement Bag
- 95125 Midi Polyglycol\* Replacement Bag
- 95123 Midi Charcoal Replacement Bag
- 9510 Grand 1250 CFM
- 9510-P Grand 300HP-Polyglycol\*
- 95102 Grand White Replacement Bag
- 95105 Grand Polyglycol\* Replacement Bag
- 95103 Grand Charcoal Replacement Bag
- 9511 Xtender Attached to Midi 1500 CFM
- Xtender Attached to Grand 2500 CFM
- 95113 Xtender Charcoal Replacement Bag
- 9520 Distributor



**Bart & Associates**

**1315 Belmeade Dr. Kingsport, TN 37664**

**Toll Free: (888) 355-6004**

**Tel: (423) 343-7552**

**Fax: (423) 343-7553**

**Website: [www.bartassociates.com](http://www.bartassociates.com)**

**E-mail: [sales@bartassociates.com](mailto:sales@bartassociates.com)**