

AQUA-PHI



AQUA-PHI

CONDENSATE SEPARATORS

*Sustainable
Condensate
Management*



A typical compressed air system will produce thousands of gallons of oily, contaminated condensate every year. Environmental regulations strictly prohibit disposing of this condensate without proper treatment to remove the oil.

Traditional solutions for condensate disposal have been to:

- Collect the condensate and have it trucked away periodically by a waste disposal company. This not only requires storage of the hazardous condensate on site, posing a health and safety risk, it is very costly as disposal charges can be up to several dollars per gallon.
- Use a settling tank to separate the oil and water by gravity, then using carbon to filter the remaining water. Advances in compressor lubricants have made this technology obsolete. Modern compressor lubricants have a specific gravity similar to water, and because of this, they form an emulsified oil/water mixture that cannot be separated by gravity.

DE SALES has developed a new condensate separator that works anywhere, anytime, on virtually any condensate, and with any type of condensate drain. Free yourself from outdated condensate separators that are health hazards, provide limited performance and are costly to operate. Experience the difference of advanced technology. Experience the *AQUA-PHI*.

Introducing...

the

AQUA-PHI

CONDENSATE SEPARATOR



DE welcomes you to the future of condensate treatment technology with the advanced design of the Aqua-Phi Clear Condensate Separator.

Using a specially treated, adsorbent, polypropylene media, the AQUA-PHI Condensate Separators efficiently and effectively separate all compressor lubricants without the need for condensate storage tanks, settling chambers, or costly disposal. DE has once again set the standard for modern condensate management.

Don't let your condensate harm the environment. AQUA-PHI Separators are the most cost effective and reliable solution to meet environmental regulations for condensate treatment, and ensure your compliance with ISO 14000.

- Specialized polypropylene media
- Activated carbon polishing filter
- No need for a settling chamber
- Cost effective, reliable performance
- Works on virtually any condensate
- Works with any condensate drain

AC70



Condensate Separator

SIMPLE EFFECTIVE CONDENSATE TREATMENT

Specifically designed for smaller compressed air applications (up to 70 scfm) with a low condensate flow, the AQUA-PHI 70 Condensate Separator is a simple and cost effective way to meet environmental regulations for condensate disposal.

With an advanced polypropylene adsorbent media, the Sepremium 70 can separate virtually any condensate containing any compressor lubricant* discharged from any type of condensate drain, and it does so without the need for a condensate settling tank or storage chamber.

Simply mount it to the wall, connect the inlet and outlet and enjoy the benefits of clean condensate. When it's full of oil - just replace it.



FEATURES	BENEFITS
Wall mounting kit included	Easy to install. No floor space required.
Brass inlet & outlet ports	For secure threaded or tubing connections.
Foam depressurization layer	Separates condensate & compressed air.
Polypropylene media	Adsorbs compressor oil.
Carbon polishing media	Filters out any remaining hydrocarbons.
Simple replaceable design	Just remove and replace it when it's full.
Rugged ABS housing	Lightweight, yet strong and durable.
No settling chamber	Perfect for portable applications.

THE CONDENSATE MANAGEMENT SPECIALIST

SPECIFICATIONS



Wall mounting kit included

Maximum Compressor Capacity		70 scfm
Maximum Oil Adsorption Capacity		0.5 gal
Inlet Connections	Quantity	1
	Size	1/2 in
	Material	Brass
	Type	Threaded (NPT) or Hose
Outlet Connections	Quantity	1
	Size	1/2 in
	Material	Brass
	Type	Threaded (NPT) or Hose
Weight		8 lbs
Housing Material		ABS

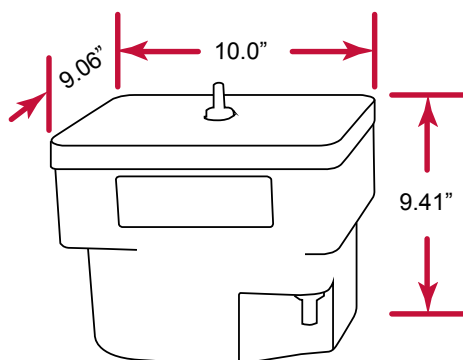
* Contact JORC for sizing assistance with PAG lubricant applications.



Brass inlet connection

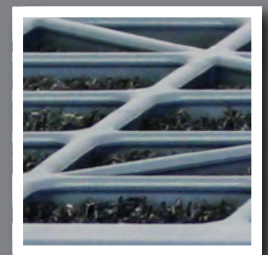


Brass outlet connection



Perfect for installations with:

- Low compressed air flows
- Low condensate flows
- Portable applications
- Any type of compressor oil*
- Emulsified mixtures
- Any type of condensate drain
- EPA discharge regulations
- Operating cost concerns



Depressurization layer

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, the manufacture reserves the right to revise information without notice and without incurring any obligation.

AC125

Condensate Separator

SMALL IN SIZE - BIG IN PERFORMANCE

Specifically designed for compressed air applications from 75 to 125 scfm the AQUA-PHI Condensate Separator is a simple and cost effective way to meet environmental regulations for condensate disposal.

With an advanced polypropylene adsorbent media and a carbon polisher, the AQUA-PHI 125 can separate virtually any condensate containing any compressor lubricant* discharged from any type of condensate drain, and it does so without the need for a condensate settling tank or storage chamber.

AQUA-PHI Separators are the most cost effective and reliable solution to meet environmental regulations for condensate treatment.

125
CFM
↑

FEATURES	BENEFITS
No settling chamber or storage tank required	Eliminates health & safety concerns. Performance is not affected by movement.
Can separate any type of lubricant	Including modern synthetic lubricants* or even emulsified mixtures.
Can be used with any type of drain	Including all DE SALES condensate drains.
Brass threaded inserts & adapters	For secure inlet and outlet piping or tubing connections.
Foam mesh depressurization chamber with foam exhaust filter	Slows incoming condensate and cleanly discharges compressed air.
Three stages of treatment	Two polypropylene elements and a carbon polisher for optimum performance.
Multiple lightweight media bags	Comply with OSHA lifting requirements.
Rugged polyethylene housing	Strong and corrosion proof construction.
Wall mounting kit optional	Easy to install. No floor space required.

THE CONDENSATE MANAGEMENT SPECIALIST

SPECIFICATIONS



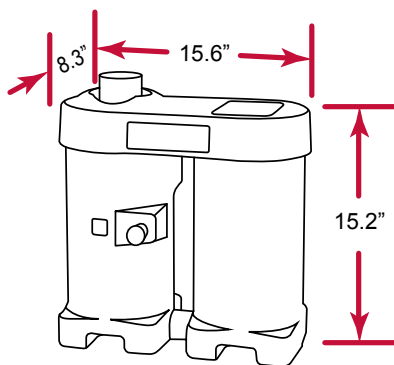
Depressurization chamber



Test port and kit included

Maximum Compressor Capacity		125 scfm
Maximum Oil Adsorption Capacity		0.8 gal
Inlet Connections	Quantity	1
	Size	1/2 in
	Material	Brass
	Type	Threaded (NPT) or Hose
Outlet Connections	Quantity	1
	Size	1/2 in
	Material	Brass
	Type	Threaded (NPT) or Hose
Weight		18 lbs
Housing Material		Polyethylene

* Contact JORC for sizing assistance with PAG lubricant applications.



Perfect for installations with:

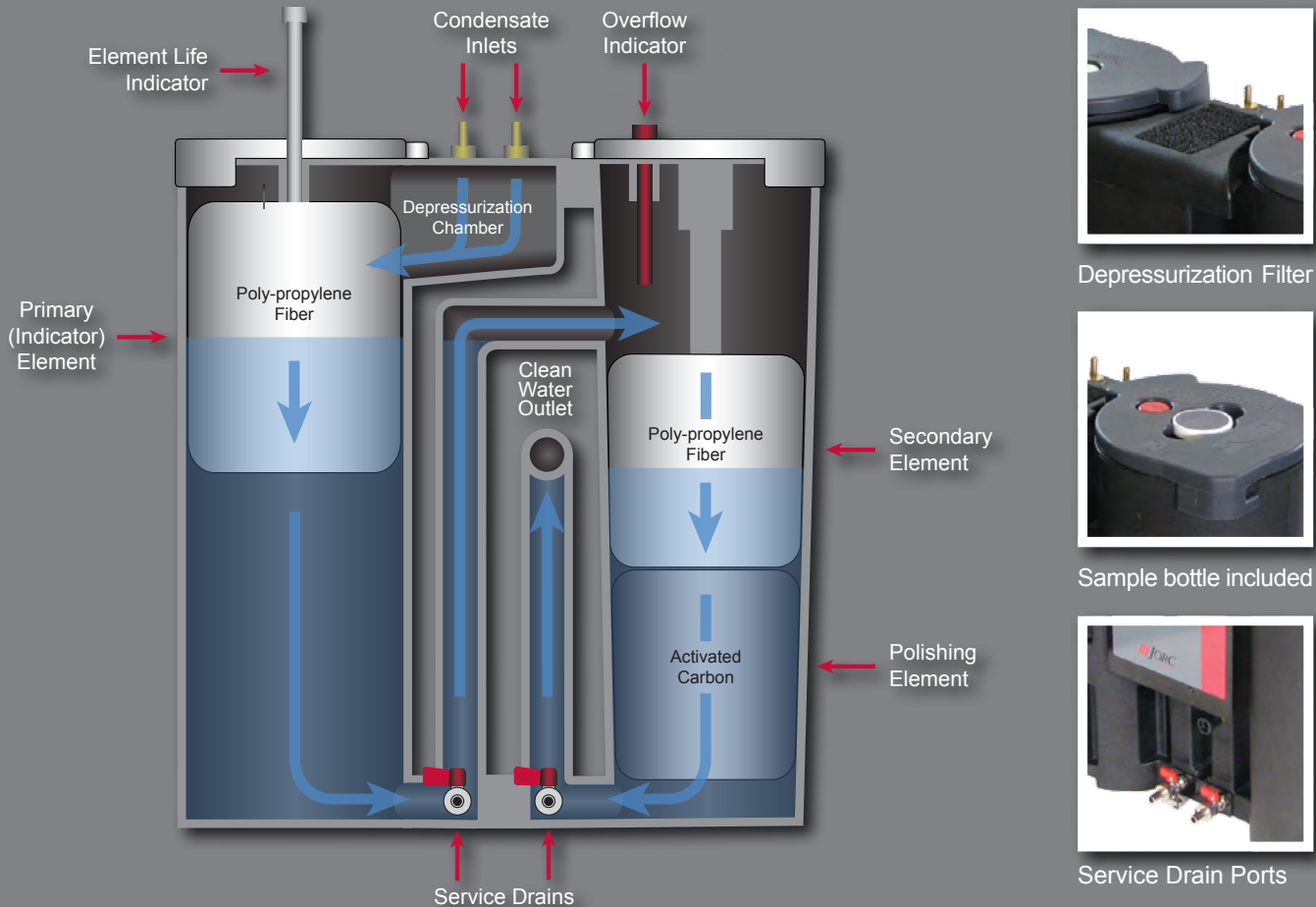
- Portable applications
- Any type of compressor oil*
- Emulsified mixtures
- Any type of condensate drain
- Portable applications
- Floor space restrictions
- EPA discharge regulations
- Operating cost concerns

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, the manufacture reserves the right to revise information without notice and without incurring any obligation.



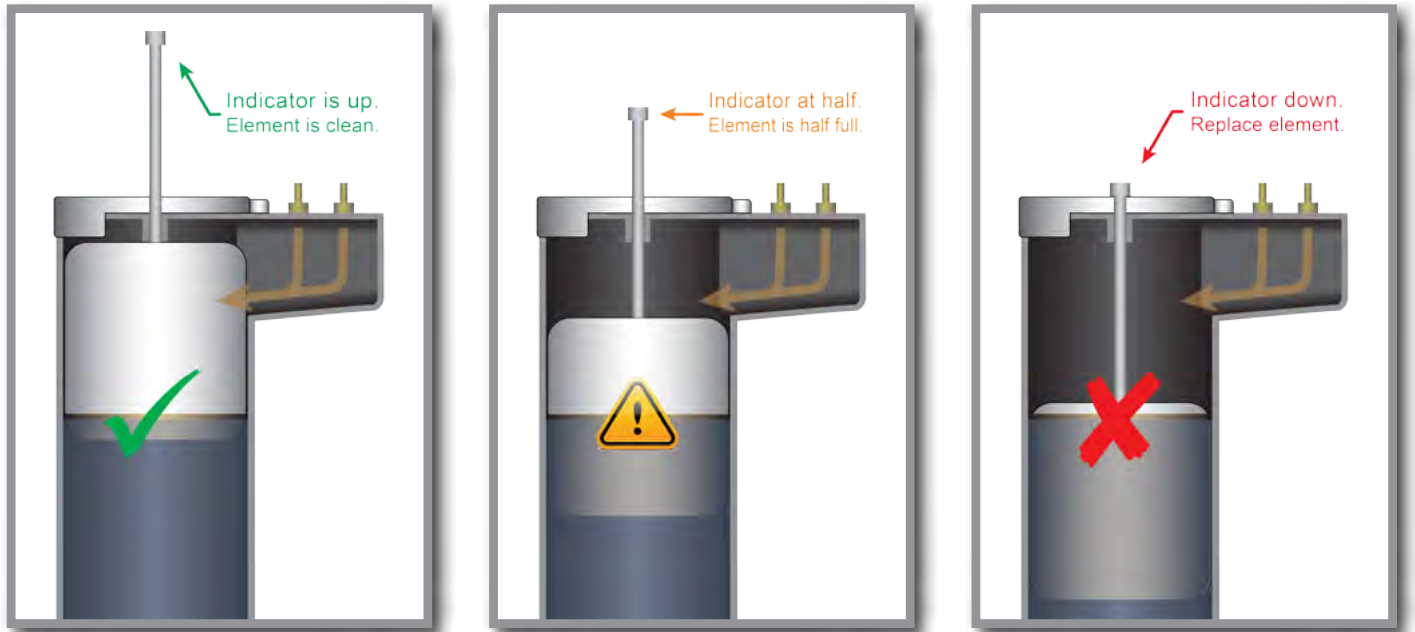
Two stages of treatment

The AQUA-PHI 175 to 1250: How it works



1. Condensate enters the brass inlet ports. Unlike traditional separators which require the use of zero air loss drains to reduce emulsification, the AQUA-PHI can accept, and effectively separate, virtually any condensate from any source using any type of drain.
2. In the depressurization chamber, a foam mesh separates the condensate from the compressed air and slows its velocity. The compressed air is discharged cleanly to the atmosphere through a second foam filter. The condensate drains into the first tower.
3. Here the condensate passes through the primary element where the majority of the oil is adsorbed by the specialized polypropylene media. This element floats. As it becomes saturated with oil over time, it will slowly sink, lowering the element life indicator. This unique feature allows you to maximize element life, replacing it only when it is fully utilized.
4. The condensate then passes into the second tower. Here, additional oil is adsorbed by a second stage of polypropylene media. Should any blockage occur during this process, the overflow indicator will rise alerting you to the issue.
5. Finally the condensate, now almost entirely water, passes through an activated carbon filter polishing out any remaining hydrocarbons. A sample port allows you to easily confirm compliance with local environmental regulations.

Element life indication



One unique feature of the AQUA-PHI Separators is the Element Life indicator. This indicator gives instant visual confirmation of the condition of the elements in the separator and when they need to be replaced.

When the primary indicator element is new, it floats on top of the condensate in the first tower. As condensate enters the separator over time, the oil becomes trapped within the fibers of the polypropylene media. This additional weight will cause the element to sink. As it sinks the Element Life indicator begins to lower.

When the element is fully saturated with oil, the indicator will be all the way down. This indicates that it is time to replace all three elements. Contact DE for a comprehensive service kit.

Features and benefits

- Foam mesh filled depressurization chamber and foam exhaust filter for clean compressed air separation and exhaust.
- Three stages of treatment, two polypropylene adsorbers and a carbon polisher for optimum outlet water quality.
- Strong, corrosion proof cast poly-ethylene construction and brass thread inserts for secure piping connections.
- Element life indicator for confident media replacement.
- Overflow indicator to prevent a spill in the event of a blockage.
- Multiple lightweight media bags comply with OSHA lifting regulations.



AC175 - AC1250

Condensate Separators

ADVANCED CONDENSATE TREATMENT TECHNOLOGY

The AQUA PHI CLEAR 175 through 1250 use three stages of treatment to separate difficult condensate. With two specially treated polypropylene elements and a carbon polisher, you can count on reliable and cost effective condensate separation performance regardless of the type of lubricant or drains you use.

These models are loaded with useful features, like a visual element life indicator that lets you know when your elements need to be replaced, and an overflow indicator to avoid messy spills.

Take the guesswork out of condensate treatment and upgrade to the AQUA-PHI CLEAR.

FEATURES	BENEFITS
No settling chamber or storage tank required	Eliminates health & safety concerns. Performance is not affected by movement.
Can separate any type of lubricant	Including modern synthetic lubricants* or even emulsified mixtures.
Can be used with any type of drain	Including all DE SALES condensate drains.
Brass threaded inserts & adapters	For secure inlet and outlet piping or tubing connections.
Foam mesh depressurization chamber with foam exhaust filter	Slows incoming condensate and cleanly discharges compressed air.
Visual element life indicator	Provides confident indication of element condition.
Overflow warning indicator	Avoids spills in the event of a blockage.
Three stages of treatment	Two polypropylene elements and a carbon polisher for optimum performance.
Multiple lightweight media bags	Comply with OSHA lifting requirements.
Rugged polyethylene housing	Strong and corrosion proof construction.

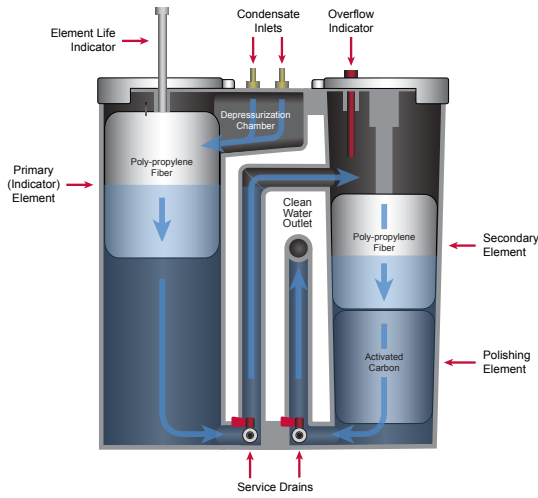
1250

750

350

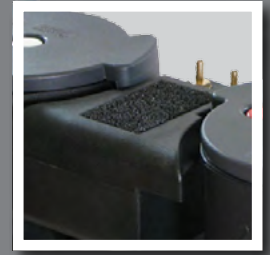
175

SPECIFICATIONS



Perfect for installations with:

- High compressed air flows
- High condensate flows
- Any type of compressor oil*
- Emulsified mixtures
- Any type of condensate drain
- Portable applications
- Floor space restrictions
- EPA discharge regulations
- Operating cost concerns



Depressurization chamber



Sample bottle included



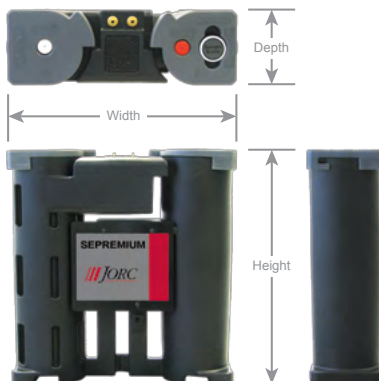
Polypropylene elements



Carbon polishing element

Sepremium Model		175	350	750	1250
Maximum Compressor Capacity (scfm)		175	350	750	1250
Maximum Oil Adsorption Capacity (gal)		1.3	2.6	4.0	6.6
Service Drains		-	2	2	2
Inlet Connections	Quantity	2			
	Size	1/2 in			
	Material	Brass			
	Type	Threaded (NPT) or Hose			
Outlet Connections	Quantity	1			
	Size	1 in			
	Material	Brass			
	Type	Threaded (NPT) or Hose			
Housing Material		Poly-ethylene			

* Contact JORC for larger, 24/7, or specialized applications, or for sizing assistance when using PAG lubricants.



Model	175	350	750	1250
Width	8"	10"	12"	15"
Depth	23"	26"	31"	39"
Height	24"	30"	36"	36"
Weight	24 lbs	39 lbs	72 lbs	107 lbs

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, the manufacture reserves the right to revise information without notice and without incurring any obligation.

Distributor

Condensate Separator Manifold



CONDENSATE MANAGEMENT FOR MULTIPLE SEPARATORS

For large compressed air applications with high condensate flow, the distributor provides the seamless integration of multiple condensate separators. Combining and distributing condensate to as many as eight individual separators, the Distributor ensures each separator is evenly loaded for maximum performance and efficiency.

When one separator isn't enough, it is important to distribute your condensate evenly to ensure each separator is utilized equally. Ensuring that each separator handles the same amount and mix of condensate maximizes your media life and allows you to better anticipate and schedule media replacement.

FEATURES

BENEFITS

Wall mounting kit & level included

Easy to install. No floor space required.

Two large 1" inlet ports

Connect to multiple collection points.

Depressurization chamber

Separates condensate & compressed air.

Foam depressurization filter

Cleanly discharges compressed air.

Eight 1/2" outlet ports

Connects up to eight separators in parallel.

Overflow warning indicator

Avoids spills in the event of a blockage.

Rugged polyethylene housing

Lightweight, yet strong and durable.

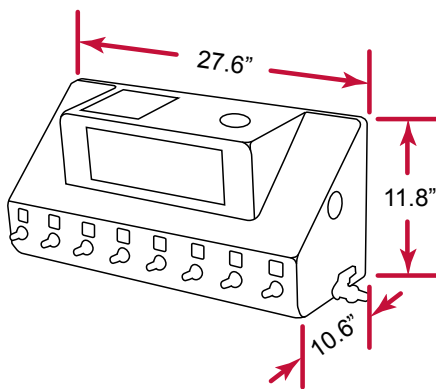
Service drain valve

Simplifies maintenance & testing.

SPECIFICATIONS



Inlet Connections	Quantity	2
	Size	1 in
	Material	Brass
	Type	Threaded (NPT)
Outlet Connections	Quantity	8
	Size	1/2 in
	Material	Brass
	Type	Threaded (NPT) or Hose
Weight		18 lbs
Housing Material		Poly-ethylene



Perfect for installations with:

- High compressed air flow
- High condensate flow
- Multiple condensate separators
- Multiple compressor lubricants
- Uneven condensate loads

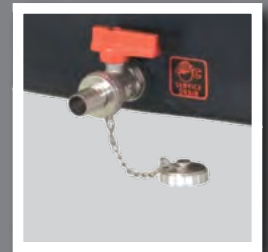
Information provided herewith is believed to be accurate and reliable. However, no responsibility is assumed for its use or for any infringement of patents or rights of others, which may result from its use. In addition, the manufacture reserves the right to revise information without notice and without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



Wall mounting kit included



Overflow warning indicator

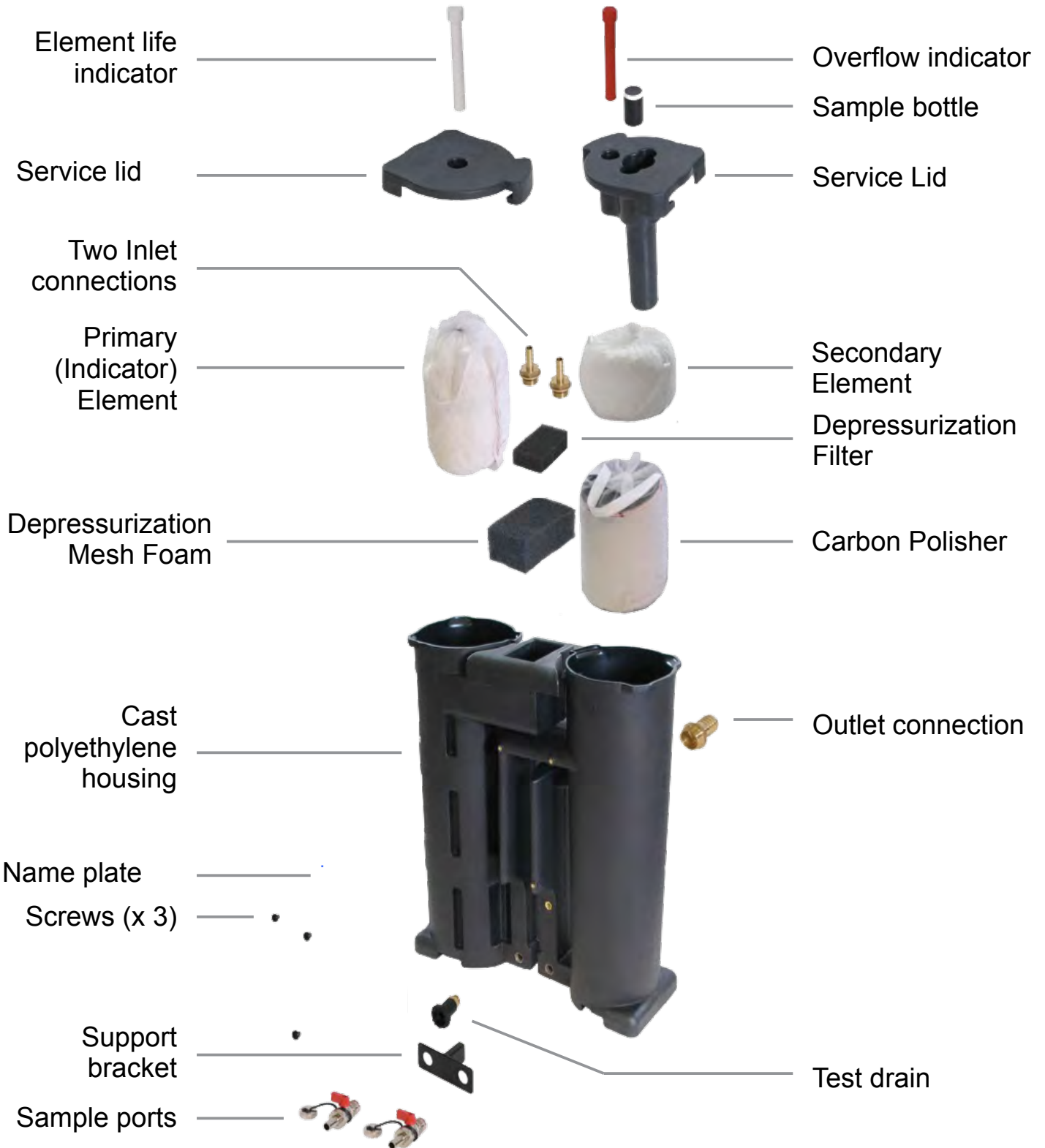


Service drain valve



Depressurization chamber

Quality components

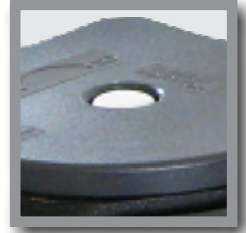


Each AQUA-PHI CLEAR Includes

- the primary, secondary and carbon polisher media bags,
- a sample bottle and sample port for water quality testing to ensure compliance with local environmental regulations,
- a step by step instruction manual for confident installation and operation.

Service Kits

When your Element Indicator drops, it is time to replace your primary, secondary and carbon polisher media bags. Only Genuine AQUA-PHI CLEAR Service Kits contain our specially treated polypropylene and carbon media bags. Don't settle for imitations.



Available Accessories

- a brass Multiple Inlet Adapter to increase inlet connections from two to four,
- replacement Sample Bottles, to collect and analyze outlet water samples, and
- replacement Inlet and Outlet Adapters.



Condensate Test Kit

A condensate test kit is available from DE SALES on request. This is a useful tool to demonstrate the incredible oil adsorbing capabilities of the Sepremium media and prove its effectiveness on the condensate at a given application prior to installation. The test can be carried out on site, and the kit includes a detailed step-by-step instruction manual to walk you through the simple test procedure.



Custom Media

In the rare event that the condensate test kit indicates that you have a specialized mix of lubricants that require additional contact time for separation, or a specialized media blend, DE SALES offers media bags customized for your application. Contact us for further information.



Already have a condensate separator?

Even if replacing your outdated condensate separator with a Sepremium isn't in the budget this year - you don't have to wait to experience our advanced adsorption technology. We make media bags, using Sepremium's specialized polypropylene fibers, to fit virtually all other brands of condensate separators. Write down the make and model of your existing separator and contact us for more information.



DE SALES & SERVICE
1211 OLD COOCHS BRIDGE ROAD
NEWARK, DE 19713
PH:302-456-1660
Email:de,sales@comcast.net
www.desales-service.com

