

safe, simple, reliable, economical on-site treatment of compressed air condensate designed to help you meet your environmental obligations



CS75 - 75scfm oil/water separator



"The industry-leading experience of the STERLING Separation design team is clear to see in every detail. It's exactly right"



The STERLING® CS75 is a completely unique concept incorporating a host of features and customer benefits into a single package for the treatment of condensate from any oil lubricated air compressor package or system delivering up to 75cfm (2.1 m³/min) at <16barg

Key features

- Quick and secure installation with wall and floor mount options supplied in the box
- Serviceable product filter cartridge is quickly replaced without need for tools
- **Simply** rotate the lid and lift off to remove the moulded cartridge and clip in a new one
- 10-year warranty on CS75. see the website for full details
- 'No-overspray' CS75 has five levels of protection to ensure untreated condensate doesn't exit the de-pressurising vents
- Visual time-in-service indicator is fully incorporated into the design
- Service kit cartridge type, supplied with replacement coalescing media, new 'time-in-service" indicator and disposal bag

Even small compressed air systems are subject to the environmental laws regarding pollution caused by the discharge of untreated compressor condensate.

In a full year (8000 hrs) of operation, even a modest, well maintained 11 kW compressor could generate up to 7,500 litres of condensate containing several litres of oil. That's enough oil to cover and de-oxygenate several

hectares of water, causing loss of plant and animal life.

Such a concentration also inhibits the operation of waste water processing plants, which is why the discharge of condensate is subject to legal controls.

You could have your condensate removed from site by a licensed contractor, but it's easier and less expensive to treat it on site. Ask your air compressor service company to install a **STERLING®** separator and be sure you meet your legal and environmental obligations



CS75 - 75scfm oil/water separator



Installation summary

CS75 can be either wall or floor-mounted, using one or other of the supplied fixings.

Due to its very compact size, **CS75** must always be used in conjunction with one of the supplied fixings.

Always use auto-drains; set any timed drains to open frequently and for the shortest period Order **STERLING®** part no. **CS75SK** from your service company for replacement cartridges

General specification

weights and dimensions are approximate

Dims (mm)	Height	Width	Depth	Weight		
CS75	290	180	190	1.4kg		
CS75 Boxed	300	200	200	1.6kg		
Inlet: 6mm push fit		Outlet : 8mm push fit (8mm-10mm adaptor included)				

MATERIAL:

All moulded parts PE
Filter medium - processed polypropylene with
carbon added

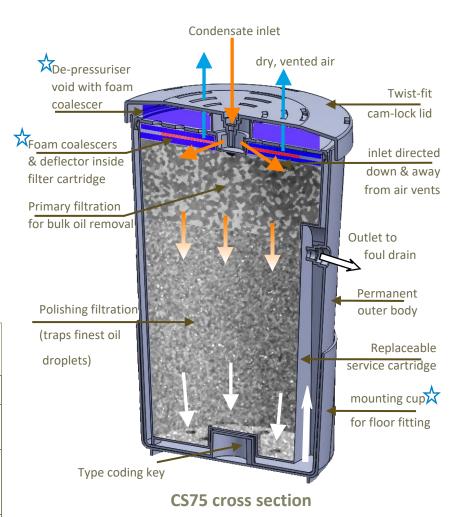
Max capacity of air system - 75cfm @ 16barg

Never use cartridge longer than 24 months

Guide to maximum cartridge life

in a normal well-maintained compressor system using mineral or mineral-based lubricants

Annual	System air delivery - cfm (m³/min)						
Run	40 (1.13)	60 (1.7)	75 (2.1)				
2000	24 months	21 months	18 months				
4000	18 months	15 months	12 months				
8000	12 months	9 months	6 months				



Time In Service (TIS) indicator

Clipped into the lid, it gives guidance regarding the need to observe and/or service the unit.

A new TIS is supplied with every replacement service kit



Outer body and lid with service cartridge & foam disc fully assembled.

Wall-mount plate and floor standing cup (option)



CSR 150, 450 & 1000

oil/water separators





The STERLING® CSR takes the concept of a classic oil/water separator design and brings it up-to-date with a host of improvements. Three models are

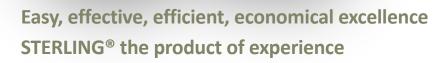
available, having capacities of 150, 450, & 1000 cfm. Multiple installation of CSR1000s is easy using the new custom built

1 x 3 ported manifold - available late 2017

As with all STERLING® separators, there's no weir to set or adjust, and there's no stagnant water to act as a breeding ground for bacteria. Gravity keeps things moving so that condensate passes constantly through the generous lightweight filters and out to drain.

The flared bases offer stability, while their careful internal design ensures that the filter bags cannot deform to block the deep outlet channels.

With a quality finish that includes brass threaded inserts, well positioned twin test points, sample jar holder and 'time-inservice' indicator the STERLING® separators will enhance the appearance of any compressor installation.



- Quality build with brass fittings and excellent finish
- **10-year warranty** on CSR range. See the website for full details
- No tools required for servicing. Simply lift off the lid, detach the internal push fit connector, lift, drain and replace filters
- 3-part filters fitted in CSR1000 for ease of lifting during servicing
- Visual time-in-service indicator is fully incorporated into the design

- There are no plastic screw threads in CSR range, just quality brass inserts
- Twin test points draw samples direct from the filter bed, not the outlet feed



- Wide base improves stability of the installation minimising the possibility of spills
- Up to 4000 hours service life allowing best possible fit with system service schedules
- Active Filter option available. Some condensates can't be cleaned in a passive filter even with STERLING's excellent filter media. For stable emulsions or other hard-to-treat condensates (usually caused by environmental factors), STERLING® active filters can be a practical alternative to costly emulsion splitters.

CSR 150, 450 & 1000 oil/water separators



Are you treating 'normal' condensate?

The STERLING® CSR separator is designed to clean 'normal' dispersed condensates from almost all compressor systems that run on mineral or mineral-based lubricants - giving outlet quality of better than 20ppm from installation through to end-of-life. That's up to 4000 running hours

Typical 'normal' condensate with dispersed oil before treatment

or is it emulsified?

The CSR 'AF' option handles this task.

For a variety of reasons including high compression temperatures or pressures; solvents or chemicals in the atmosphere; or the lubricant in use, the oil and water in the condensate emulsify.

Stable emulsions present a challenge to any oil/water separator, but STERLING® Active Filter units are up to the job. With an active biological component that actually digests oil, the CSR 'AF' range is the answer to problem condensates

two



optional accessories

Pedestal base for CSR150 or CSR450. Raises the outlet by approx 300mm. Useful where there is a long distance to the foul drain or insufficient slope.



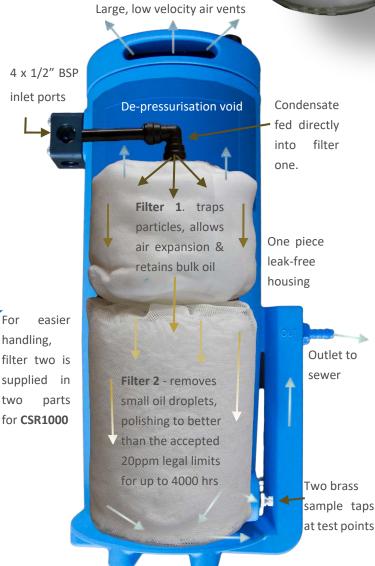
Condensate splitter used divide incoming condensate feed into 2 or 3 streams for multiple separators

Levelling device ensures equal flow to each unit.

Two details that make a difference

The sampling jar housing and 'Time In Service' strip are built into the lid as standard

How it works - standard and 'AF'



Wide, stable base with deep free-flow drainage

CS100IBC & CS200IBC oil/water separators



Same process - bigger solution

Offering unique user benefits, CS100IBC & CS200IBC are reliable and uncompromising allies in the fight against pollution and the battle for legislative compliance for users of large compressed air systems.

These large STERLING® cleaners are designed to remove oil from compressed air condensate down to levels that are sufficiently low that discharge of treated condensate to the foul sewer is allowed.

Key features

- Environmentally clean, lightweight filter medium
- No moving parts no floats, weirs or oil containers or sensors
- No pre-soaking of filtration medium
- No power consumption, small footprint
- No maintenance required (except weekly quality check) for up to 16,000 hours
- Cartridge-type replacement filter ensures quick & clean service routine.
- Economically engineered—Lowest 'cost of ownership' of all possible solutions
 - Works on mineral oils and mineral-based synthetics





Up to 2 years between services at capacities of (100 or 200 m³/min) 3500 or 7000 cfm

Functional description

compressed air also released) is fed into the substantial the filter bed, feeding it out through push-fit pipe-work, . pressure relief chamber, allowing calm entry of condensate A 'tee' piece and tap provide an outlet condition monitoring into the filter chamber.

The chamber comprises a standard container (IBC) of either 20ppm in normal operation. 600 or 1000 litres (model dependent).

oil in the discharge to a sewer (limit typically 20ppm)

through the filter bed.

Condensate discharged from the air system (together with any A drainage channel collects cleaned condensate at the base of

point. The end-of-life outlet quality should be well below

At the end of its 2-year service life, the complete IBC with filter The IBC contains balanced proportions of coarse polypropylene material and oil residues inside should be taken for disposal at shred to remove bulk oil, and STERLING's oil-adsorbing PP wool. a registered site, as a one-off operation. The pressure relief The result is a discharge quality that betters the legal limit for chamber and outlet pipes are retained to be connected to a new container filled with clean STERLING® material.

Oil is adsorbed onto the filter material as condensate passes Simple, inexpensive, and made in Britain by STERLING®



The need for oil/water separation Environment - legislation - conscience



All compressed air systems form condensate in the air flow, downstream of the compressor. The source is atmospheric humidity that's converted to water after compression and cooling.

Oil-lubricated compressors produce oil-contaminated condensate. For the protection of tools, machines and product, this condensate must be removed from the system, but disposal options are controlled - by law.

One option is have it removed from site by a licensed contractor, but given that an 18kW compressor can produce 10,000 litres in a year, that's the expensive choice!

However, treatment on site can be both simple and cost effective if you install a **STERLING®** separator.

With no moving parts and nothing to adjust, **STERLING**® separators use gravity to feed the condensate through

an adsorbent filter bed that can remove oil down to well below the legal limit. The cleaned condensate can be discharged to a convenient foul drain or sewer.

Oily water in, cleaned water out.
That's the **STERLING**® way

Catering for compressed air systems from the smallest workshop to the

largest capital installations **STERLING**® offers a range of solutions developed from testing in the laboratory and in real world environments so that you can meet your relevant quality targets.

Easy to install and maintain, STERLING® separators offer an economical, effective solution to the condensate problem; protecting the environment, your legal compliance and your conscience.

Years of experience

and new ideas

STERLING® has decades of condensate management experience; great credentials for present and future products.

- The company has invested in many new ideas founded on practical expertise.
- We've developed the smallest, lowest cost, serviceable oil/water separator
- Our new mid-range separators are elegantly designed and functional
- We're using environmentally sound and highly-adsorbent specialised media and developing new and exciting solutions for the future.
- STERLING® 'Active Filter' media kits introduced to handle stable emulsions



Filter media on test in the STERLING® laboratory

Customer service

partnership

No two condensates are alike - and no two condensate management suppliers are alike either

- STERLING® specialises in condensate management and shares its knowledge in support of its partners
- The team understands that you need great product and outstanding service to win and keep customers
- We offer FREE condensate management training to our customers and their people
- We will tailor our stock holding to our customers' individual needs where appropriate

About the company

STERLING separation

because you deal with people

STERLING Separation Ltd is a privately owned British manufacturing and distribution company.

Established in 2008 to focus exclusively on one basic oil/water separator, the business has developed to encompass significant research, design, development and manufacturing activities, with of course an emphasis on sales & marketing.

Throughout this time the two active directors who now own the business have worked hard to support and develop a broad base of regular re-seller customers.

It's a cliché, but it remains true that people buy from people. So it's important to us that as we grow, new members of the team share the **STERLING®** ethic. We know that no matter how good the product is, customers won't buy unless they like and trust the supplier.

STERLING® will always offer a great product, excellent value and support from a knowledgeable and ethical team.

STERLING® "the product of experience"

STERLING® oil/water separator specifications									
Model	Capacity Cfm - (m³/min)	Max service life (hrs)	Height (mm)	Width (mm)	Depth (mm)	Height to outlet c/l (mm)	Weight (kg)	Service kit	
CS75	75 - (2.1)	4000	270	185	195	185	2	CS75SK	
CSR150	150 - (4.2)	4000	560	220	255	240	3.4	CSR150SK	
CSR450	450 - (12.7)	4000	750	310	335	352	4.5	CSR450SK	
CSR1000	1000 - (28.3)	4000	980	400	430	433	16	CSR1000SK	
CSR150-AF	150 - (4.2)	2000-4000	560	220	255	240	3.4	CSR150SKAF	
CSR450-AF	450 - (12.7)	2000-4000	750	310	335	352	4.5	CSR450SKAF	
CSR1000-AF	1000 - (28.3)	2000-4000	980	400	430	433	16	CSR1000SKAF	
CS100IBC	3500 - (100)	16000	1350	800	1270	650 аррх	650	CS100IBCK	
CS200IBC	7000 - (200)	16000	1520	1000	1270	750appx	1060	CS200IBCK	
Accessories									
CSR150STD & CSR450STD Stand raises CSR150 or 450 by ~300mm where access to drain requ					ain requires	extra slope			
CSEQ3	*Splits condensate flow into 2 or 3 equal streams for successful multiple installations.								
Designed to meet or exceed current environmental legislation when correctly selected and installed; all sizes are based on well maintained									

Designed to meet or exceed current environmental legislation when correctly selected and installed; all sizes are based on well maintained compressor plant using mineral or mineral-based lubricants. For PAG lubricants, reduce stated capacity by 50%

STERLING's other products include 3rd party service kits for oil/water separators, all types of condensate drains, compressed air filters and 3rd party cartridges



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