nano

PURIFICATION SOLUTIONS

S-Series[1]

Sepura STERLING oil water separators

flow capacity: 60 - 7000 scfm (100 - 12,000 Nm^3/hr)

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Leading edge technology and more than 100 years of **experience**...nano-purification solutions, your world-class provider of state-of-the-art compressed air and gas solutions to industry.

Our commitment at n-psi is to work alongside our **customers** and provide unique solutions with the highest quality products to solve your specific challenges.

A wealth of experience and leading edge products are only part of the equation. n-psi realize that world-class customer **service** is the most important component to any successful business.

Experience.Customer.Service...**n-psi**

Clean and Clear

A typical compressed air or gas system produces thousands of gallons of oil contaminated condensate every year. Collecting, storing and disposing of this oily condensate is messy and expensive.

n-psi understands your needs and has created the range of high-performance Sepura oil water separators to remove oil and other contaminants from your condensate allowing you to dispose of it safely and inexpensively. Sepura lets you stop paying for condensate disposal with this simple and cost effective approach to condensate treatment.

Design

Our experienced team of design engineers are always looking for new and unique technologies and products to bring you the highest level of performance and lowest overall operating cost.

Research & Development

Our R&D team endeavor to provide solutions that go beyond developing an existing product. They are continually researching new technologies which can provide unique advantages over competitive offerings.

Manufacture

The reliable and cost effective Sepura oil water separators are manufactured in a state of the art facility to the highest standards of build quality to ensure reliability and high levels of performance.

nano S-Series[1] oil water separators

A typical compressed air and gas system can produce thousands of gallons of condensate per year. This condensate may be as much as 99.9% pure water - so why pay thousands of dollars per year to dispose of water when you can clean it simply and effectively and pour it down the drain? The nano Sepura range of oil water separators remove the oil from the water in your condensate so you can dispose of it cleanly and safely, drastically reducing your condensate disposal costs.

The S-Series[1] is not your typical oil water separator. It's advanced design and unique environmentally friendly STERLING oil absorbing filtration media takes separation technology to a whole new level. No messy carbon bags. No settling tanks full of untreated condensate. No external oil collection containers. Just simple and effective condensate treatment.

nano Sepura oil water separators reliably give you:

- 100% performance - even on newer synthetic compressor lubricants*
- Lower life cycle costs - long media life and simplified maintenance
- Lower outlet concentrations - down to 5 ppmv or less
- Space saving - smaller footprint for easier installation
- Environmentally friendly recycled materials
- Treatment for systems up to 10,000 scfm with a single unit
- Peace of mind - the most reliable product of its kind

The Sepura range of oil water separators are a reliable and cost effective solution to the problems of contaminated condensate.

Benefits - Get more for your money

Guaranteed Performance

- The advanced STERLING filtration media provides long media life and outlet concentrations as low as 5 ppmv even with synthetic compressor lubricants*, and all without the size, weight and mess of a settling tank, bags of carbon, or oil collection container.

Easy to Size

- No complex sizing tables and charts
- Size your unit on just your air or gas flow
- Fit applications up 10,000 scfm with a single unit

Easy to Install

- Package includes everything you need for installation
- Ready for use - no pre-soaking!
- Small footprint for tight installations
- Multiple inlet connections for multiple drain points

Easy to Maintain

- Service intervals up to two years
- Quick release lids for easy access
- No special tools required
- No settling tank to empty and clean
- No funnels to adjust
- No pre-soaking of media bags
- Replace the media in less than 15 minutes
- No oil collection container to dump & clean

Environmentally Friendly Design

- 100% recycled (and recyclable) filtration media
- Environmentally sustainable manufacturing practices

High Quality Construction

- Single piece molded body 100% tested for zero leaks

Warranty

- Peace of mind - The SEP 120 through SEP 1800 come standard with a 10 year warranty! Conditions apply.

** For use with PAG compressor lubricants, contact support@n-psi.com.*

nano S-Series[1] oil water separators

Advanced STERLING filter media

Traditional oil water separators use activated carbon which is messy and requires pre-soaking, a long contact time, and frequent replacement. The nano Sepura range is a new approach to oil water separation using a new, advanced, proprietary, non-carbon based media that attracts oil and repels water - it's as simple as that. Scan this tag with your mobile device to watch a video demonstrating the incredible oil separation capabilities of the STERLING media.

Unrivaled performance - even on synthetic oils

Traditional separators rely on settling tanks - waiting for the oil to float on top of the water. Many synthetic oils won't settle out due to having a specific gravity very similar to water. Pressurized timed solenoid drains compound the problem as they emulsify the oil water condensate prior to reaching the separator. The Sepura oil water separators don't rely on a settling tank.

Easy to size

Sizing a traditional separator often requires that you consider condensate flow while accounting for ambient conditions, compressor type, oil type, pressures, temperatures, and other equipment. The Sepura oil water separators can be sized quickly and easily based on just the air or gas flow. Nothing else!

Easy to install

The settling tank on a traditional separator makes the unit big and heavy requiring valuable floor space that must be level for the unit to perform correctly. The Sepura oil water separators don't need a settling tank and use less floor space, so they can fit where you need them to. In addition, unlike carbon, the STERLING media bags require no pre-soaking - your separator is ready to use, right out of the box.

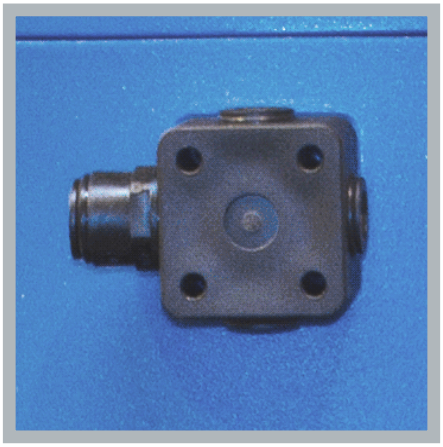
Easy to maintain

Unlike the traditional heavy, dusty bags of activated carbon that need to be pre-soaked, the technologically advanced STERLING filter media comes in clean, lightweight, easy to handle bags, that require no pre-soaking for quick and simple media replacement. Additionally, there is no settling tank to clean, and no oil collection container to empty. The oil is trapped in the filters for easy disposal.

Environmentally friendly materials & manufacturing

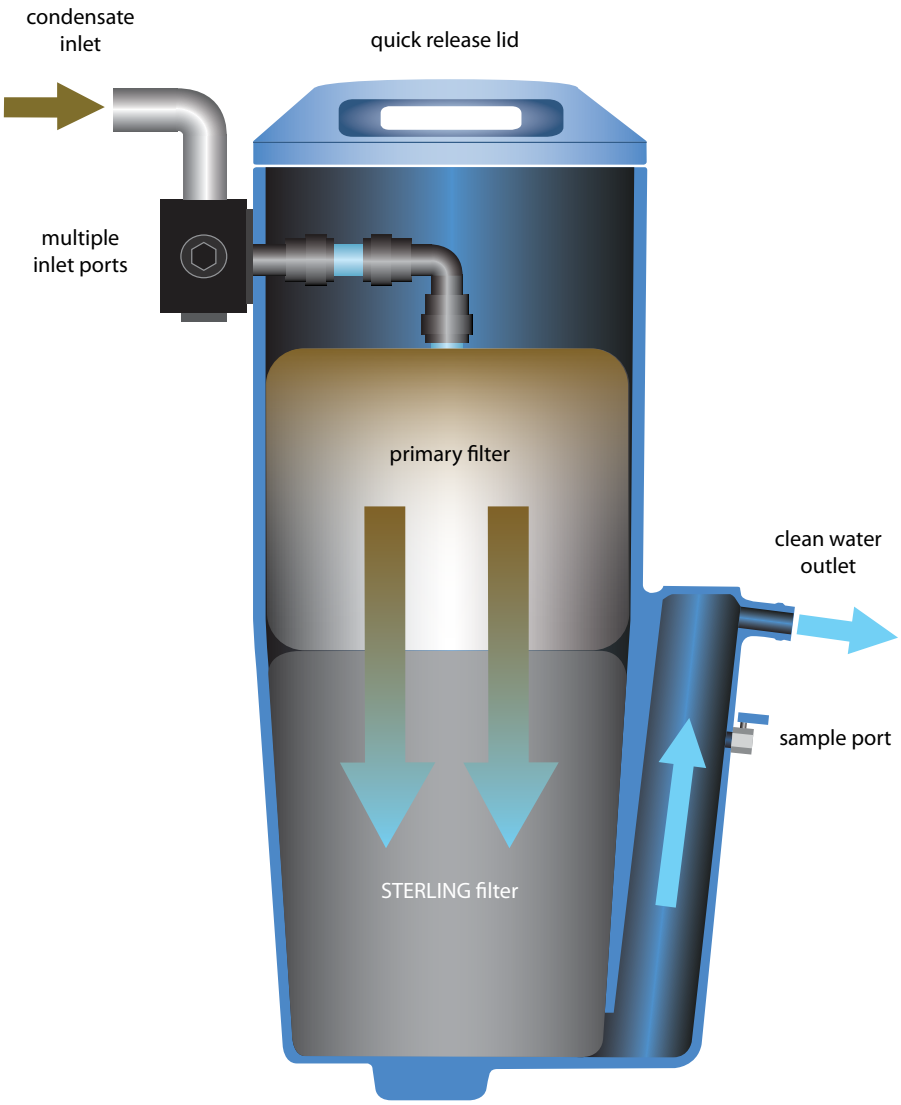
The Sepura range is not only technologically advanced, it is also environmentally friendly. Unlike carbon used in traditional separators, STERLING filter media is made from 100% recycled materials using environmentally sustainable manufacturing techniques. Separating your condensate is good for the environment. Using recycled materials to do it... even better.

Quick release lid for easy access



Four inlet connections (eight optional)

100% recycled STERLING filter media



The nano Sepura range of oil water separators use a technologically advanced proprietary filtration media to separate oil from water in the condensate discharged from compressed air and gas systems. This non-carbon based and 100% recycled media actively absorbs oil while repelling water, resulting in clean condensate that can be disposed of cleanly and inexpensively.

Condensate from compressors, refrigeration dryers, coolers, filters, or any other drain points are piped directly to the Sepura oil water separator. Here it passes directly into the primary filter which provides three critical functions:

- it depressurizes the condensate,
- it traps solid particles protecting the secondary filter, and
- it catches bulk hydrocarbons within a high capacity oil absorbent.

Next, the condensate passes through a deep bed of advanced STERLING filtration media which absorbs the oil, providing outlet oil concentrations down to 5 ppmv or less so the remaining water can go safely down the drain*.

Simple and effective - no messy carbon, no settling tanks, no oil containers. Just clean condensate.

** Before disposing of any condensate, test it to ensure you are in compliance with all local regulations regarding oil and other contaminants.*

The SEP 60 ST model is a semi disposable condensate cleaner specifically designed for small flow applications.

The SEP 3500 and 7000 models are specifically designed for the demands of large flow installations.

sizing & specifications

Model	Maximum Capacity		Expected Media Life		Maximum Oil Carry Over (at end of media life)	Media Replacement Kit	Warranty	See Note
	scfm	Nm^3/hr	hours	months				
SEP 60 ST	60	102	5000	7	< 20 ppmv	SEP 60 MRK	1 year	1
SEP 120 ST	120	204				SEP 120 MRK	10 years	-
SEP 360 ST	360	612				SEP 360 MRK		
SEP 900 ST	900	1529				SEP 900 MRK		
SEP 1800 ST	1800	3058				SEP 1800 MRK		
SEP 3500 ST	3500	5947	16000	24		SEP 3500 MRK	1 year	2
SEP 7000 ST	7000	11,893				SEP 7000 MRK		3

Model	Dimensions inches (mm)			Approximate Weight	Inlet Connections		Outlet Connections		See Note
	Height	Width	Depth	lbs (kg)	Qty	Size	Qty	Size	
SEP 60 ST	9.4 (239)	5.5 (140)	5.5 (140)	2.9 (1.3)	1	1/4"	1	3/8"	4
SEP 120 ST	19.7 (500)	8.5 (216)	10.1 (257)	6.0 (2.7)	4	1/2"		3/4"	5
SEP 360 ST	25.8 (655)	13.6 (345)	11.1 (282)	7.9 (3.6)					
SEP 900 ST	38.9 (988)	17.0 (432)	19.5 (495)	32.6 (14.8)					
SEP 1800 ST		38.9 (988)	20.5 (521)	69.0 (31.3)					
SEP 3500 ST	39.4 (1001)	39.4 (1001)	27.6 (701)	Consult Factory	2	3/4"			-
SEP 7000 ST		43.3 (1100)	43.3 (1100)						

- Sizing assumes an oil flooded compressor using mineral or synthetic lubricant with a maximum oil carry-over of 5 mg/m3 or less.
- For use with PAG compressor lubricants contact n-psi technical support or email us at support@n-psi.com.
- Condensate entering the oil water separator must not exceed 232 psig, and must be between 35 and 110°F

Notes:

- 1) At a reduced flow of 30 scfm, life expectancy for the SEP 60 ST media increases to 8000 hrs (12 months).
- 2) At an increased flow of 5000 scfm, life expectancy for the SEP 3500 ST media decreases to 8000 hours (12 months).
- 3) At an increased flow of 10,000 scfm, life expectancy for the SEP 7000 ST media decreases to 8000 hours (12 months).
- 4) Inlet and outlet connections on the SEP 60 ST are push to connect.
- 5) The number of inlet connections on the SEP 120 through 1800 can be extended to 8. Contact n-psi for further information.

nano Alternative Media Kits

Stop wasting time & money on replacement carbon bags. Carbon is messy, time consuming, provides inconsistent performance, and is bad for the environment. n-psi sells our STERLING Media Replacement Kits to fit virtually all brands of oil water separators. Get the legendary performance of the advanced STERLING filtration technology - even if you own another brand of separator.

The benefits of upgrading to STERLING Media Replacement Kits:

- Twice the oil holding capacity of carbon - longer life
- Half the contact time as carbon - higher flow capacity
- Clean, light, dust free, and easier to handle, install & remove
- No pre-soaking - save 12-24 hours during start up & replacement
- Doesn't settle, crush or fracture - consistent performance
- Made from 100% recycled & recyclable material - environmentally friendly

Contact us before your next change-out.

Scan the tag below with your mobile device to watch a video demonstrating the incredible oil separating capabilities of the STERLING media.

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