

SP SEPARATORS

60 - 7000 SCFM (100 - 12,000 NM³/HR) \ OIL WATER SEPARATORS



Sullivan-Palatek 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? Sullivan-Palatek oil water separators remove the oil from the water in your condensate which allows you to dispose of it cleanly and safely. This process will drastically reduce your condensate disposal costs.

This is not your typical oil water separator. Its advanced design and unique environmentally friendly 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.

Sullivan-Palatek Dependability:

- » 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
- » single piece molded body 100% tested for zero leaks

Advanced Sullivan-Palatek Filter Media

Traditional oil water separators use activated carbon which is messy and requires pre-soaking, a long contact time and frequent replacement. The SP 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.

Performance

Traditional separators rely on settling tanks and the ability for the oil to separate from the condensate mixture, but many synthetic oils won't settle due to having a similar state to water. The heat of compression and timed solenoid drain valves compound the problem as they emulsify the condensate prior to reaching the separator. Sullivan-Palatek water separators don't rely on a settling tank.

Sizing

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. Sullivan-Palatek oil water separators are easily sized based on air or gas flow, up to 10,000 scfm with a single unit.

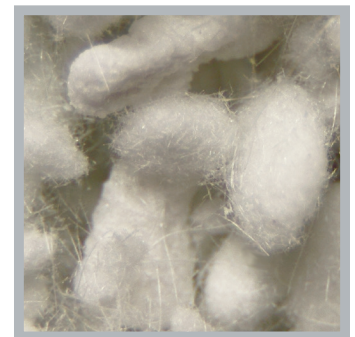
Installation

The settling tank on a traditional separator makes the unit big and heavy and requires valuable floor space. Sullivan-Palatek oil water separators don't need a settling tank which makes them more compact. In addition, unlike carbon, the Sullivan-Palatek media bags do not require pre-soaking, so your separator is ready to use right out of the box. Wall mounting kits are also available for many models.

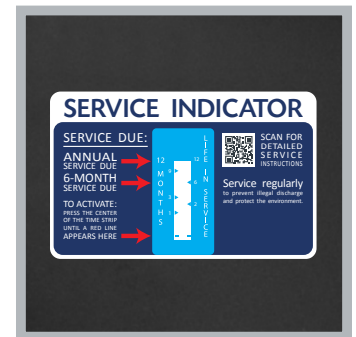
Maintenance

Unlike the traditional heavy, dusty bags of activated carbon that need to be presoaked, the technologically advanced Sullivan-Palatek 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. Instead, the easily disposable filters trap and hold the oil.

Maintenance is now even easier with the addition of our new Service Indicator. The easy to read time strip lets you know exactly when it's time to install a new media kit so you're sure to comply with local discharge standards.



advanced filter media



never miss a media replacement



optional wall mounting brackets

System Performance

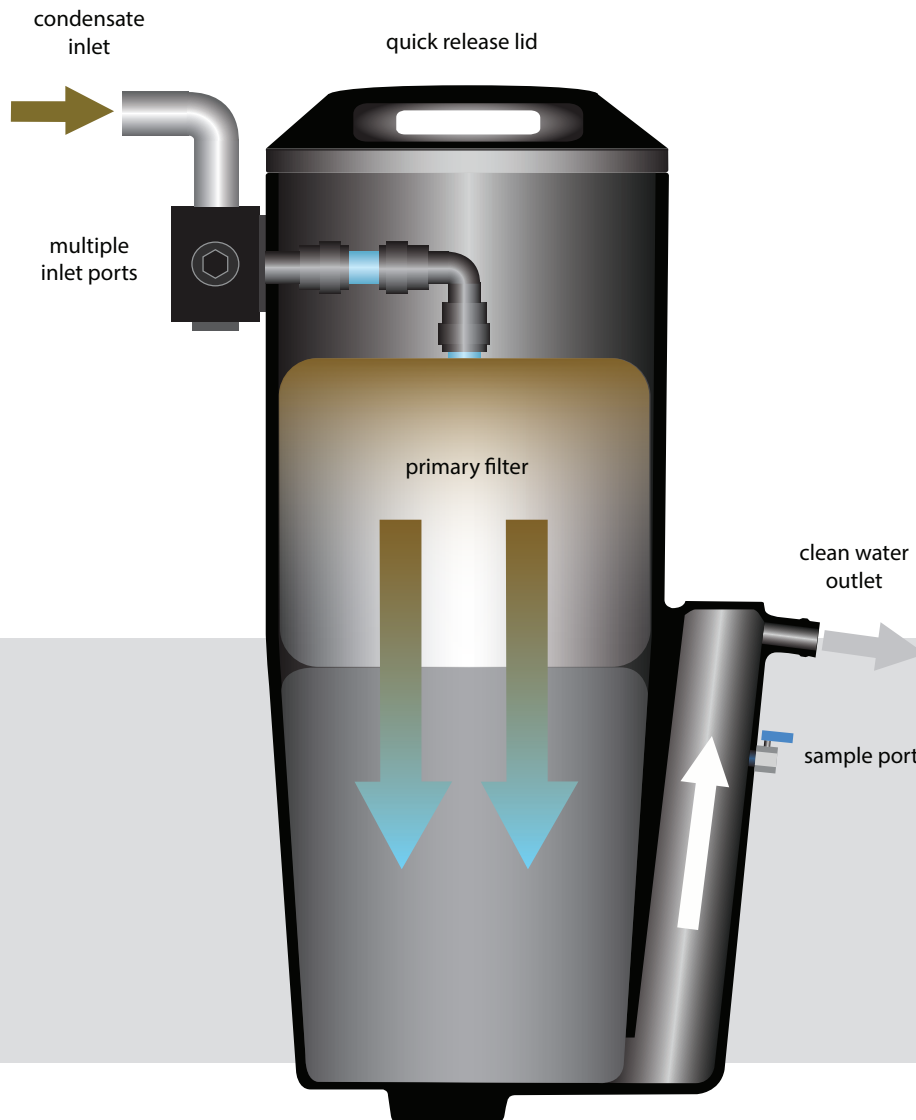
Sullivan-Palatek's oil water separators use a technologically advanced proprietary filtration media to separate oil from water in the condensate discharged from compressed air systems. This non-carbon based and 100% recycled media actively absorbs oil while repelling water resulting in clean condensate 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 Sullivan-Palatek 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
- it catches bulk hydrocarbons within a high capacity oil absorbent

Next, the condensate passes through a deep bed filtration media which absorbs the oil providing outlet oil concentrations down to 5 ppmv or less so the remaining water can be disposed of safely and in compliance with environmental regulations.

With no messy carbon, no settling tanks and no oil containers the Sullivan-Palatek oil water separators produce a clean condensate.



The disposable SP60CS:
perfect for small applications



The SP120CS through
SP1250CS:
simply clean condensate



Two tower SP1800CS & SP2500CS:
Innovative & cost effective



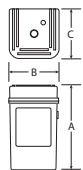
the SEP 3500 & 7000:
built for high condensate flow

SPECIFICATIONS

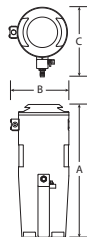
| Separator Model | Inlet | Outlet | Rated Flow ⁽²⁾ | | Dimensions (Inches) | | | Approx. Weight | Wall Mounting Bracket | Replacement Media Kit |
|-----------------|------------------------|------------------------|---------------------------|--------------------|---------------------|------|------|----------------|-----------------------|-----------------------|
| | NPT/PTC ⁽¹⁾ | NPT/PTC ⁽¹⁾ | scfm | Nm ³ /h | A | B | C | lbs | part no. | part no. |
| SP60CS | ¼" (x1) ⁽¹⁾ | ¾" (x1) ⁽¹⁾ | 60 | 102 | 9.4 | 5.5 | 5.5 | 2.9 | Included | SP60CS |
| SP120CS | ½" (x4) | ¾" (x1) | 120 | 204 | 19.7 | 8.5 | 10.1 | 6.0 | 120 WMK | SP120SK |
| SP360CS | ½" (x4) | ¾" (x1) | 360 | 612 | 25.8 | 13.6 | 11.1 | 7.9 | 360 WMK | SP360SK |
| SP900CS | ½" (x4) | ¾" (x1) | 900 | 1529 | 38.9 | 17.0 | 19.5 | 32.6 | - | SP900SK |
| SP1250CS | ½" (x4) | ¾" (x1) | 1250 | 2124 | 38.9 | 19.1 | 19.5 | 45.0 | - | SP1250SK |
| SP1800CS | ½" (x8) | ¾" (x1) | 1800 | 3058 | 38.9 | 38.9 | 20.5 | 69.0 | - | SP1800SK |
| SP2500CS | ½" (x8) | ¾" (x1) | 2500 | 4248 | 38.9 | 43.2 | 21.5 | 95.0 | - | SP2500SK |
| SP3500CS | ¾" (x2) | ¾" (x1) | 3500 | 5947 | 39.4 | 39.4 | 27.6 | 319.0 | - | SP3500SK |
| SP7000CS | ¾" (x2) | ¾" (x1) | 7000 | 11,893 | 39.4 | 43.3 | 43.3 | 467.0 | - | SP7000SK |

| Specifications | SP60CS | SP120CS to SP2500CS | SP3500CS | SP7000CS |
|------------------------------------|--|---------------------|---|---|
| expected media life ⁽⁴⁾ | 8000 hours @ 30 cfm 5000 hours @ 60 cfm | 5000 hours | 16000 hours @ 3500 cfm 8000 hours @ 5000 cfm | 16000 hours @ 7000 cfm 8000 hours @ 10,000 cfm |
| maximum oil carry over | < 20 ppm | < 20 ppm | < 20 ppm | < 20 ppm |
| warranty | 1 year | 10 years | 2 years | 2 years |
| max condensate inlet pressure | 232 psig | 232 psig | 232 psig | 232 psig |
| inlet condensate temperature range | 35 to 110°F | 35 to 110°F | 35 to 110°F | 35 to 110°F |

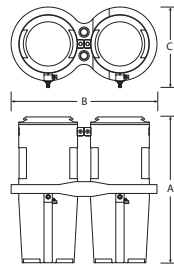
- (1) inlet and outlet connections on the SP60CS are push to connect. All other models are NPT threaded
 (2) sizing assumes an oil flooded compressor using mineral or synthetic lubricant with a maximum oil carry-over of 5 mg/m³ or less
 (3) media life decreases with increased condensate flow. For media life estimates at other flow rates contact technical support
 (4) for use with PAG compressor lubricants contact technical support



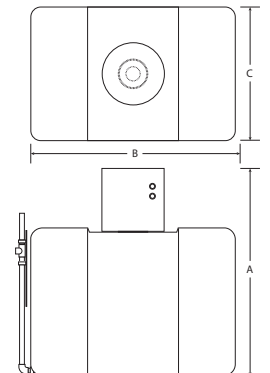
SP60CS



SP120CS to SP1250CS



SP1800CS & SP2500CS



SP3500CS & SP7000CS

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