



SEPURA 3500 ST & 7000 ST

High capacity compressed air condensate cleaners

Offering unique user benefits, SEPURA 3500 ST & 7000 ST are reliable and uncompromising allies in the fight against pollution and the battle for legislative compliance. And they

- Environmentally clean and patented re-cycled 'filter' medium
- No moving parts
- No power consumption
- No maintenance required until service exchange is due
- Economical—built from standard parts
- Up to 2 years between services at capacities of 3500 or 7000 cfm (100 or 200 m³/min)
- 5000 or 10000 cfm (140 or 285 m³/min) possible depending upon site conditions



For too long, the user of large air compressors has had a difficult choice between two condensate cleaning technologies; emulsion splitters or multiple 'carbon bag' separators.

If an emulsion splitter is chosen only for its large capacity, the penalty is a high initial cost, complexity and high maintenance.

The other option, multiple small separators, are tricky to balance on

installation, which results in poor performance, unreliability and very expensive waste.

SEPURA 3500 ST & 7000 ST offer the best solution. Massive capacity, simple installation, low running costs and pure performance.

These separators even handle partly emulsified condensates, although SEPURA needs to evaluate a sample of condensate to determine the performance and capacity.



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General description

These large SEPURA 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.

Condensate discharged from the air system (together with any compressed air also released) is fed into the substantial pressure relief chamber. Here the energy of discharge is dissipated, allowing calm entry of the condensate into the filter chamber.

The chamber is built from a standard and inexpensive IBC (intermediate bulk container) with a total volume of approx 600 or 1000 litres (model dependent). 80% of this volume is filled with **SEPURA STERLING**, a patented oil adsorbing material with extremely high oil capacity and the capability to clean condensate down to <5 mg/ml

(5ppm) oil content. The end-of-life outlet quality should remain below 10ppm in normal circumstances

In operation, the condensate passes slowly through the filter bed, giving time for oil to be adsorbed onto the STERLING filaments.

A drainage channel collects cleaned condensate at the base of the filter bed, feeding it out through push-fit pipe-work, where the outlet position sets the water level in the filter chamber. A vertical extension pipe prevents siphoning in the discharge pipe.

A 'tee' piece and tap provide an outlet condition monitoring point.

At the end of its service life, the complete IBC with oil residues should be taken for disposal at a registered site. The pressure relief chamber and outlet pipes are retained to be connected to a new container with clean STERLING material.

Specifications: **SEP 3500 ST** and **SEP 7000 ST**

Filter volume	Filter medium	Condensate flow (max) (litre/hr)	Oil retention capacity (litres)	Max life at standard Capacity (hrs)	Max life at 5000 or 1000 cfm (hrs)
400 or 800 litres (appx)	SEPURA STERLING	175 350	150/200 300/400	16,000 16,000	8,000 8,000
Size—mm (LxWxH)	disposal weight (kg) (approx)	Connections Inlet Outlet		Sampling method	Outlet oil ppm at end of life
1200*800*1450 1200*1100*1450	480/860 full 200/360 drained	2 * 3/4" BSP		Visual comparator	<10ppm

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