

ultrasep superplus® UFS-SP

Oil/water separator for air compressor condensate



Function

A pressure relief chamber separates condensate and expanding air. The condensate then passes a sedimentation compartment – easy to remove and therefore easy to clean. The next step is the coalescing filter with its additional oil separation effect. Free floating oil is siphoned off into an oil can. The water is purified in the activated carbon adsorber from the last oil droplets. Pure water leaves the unit ready to be drained.

Safety

The activated carbon is protected by a pre-adsorber.

A bright yellow floater warns about the beginning of a blockade of the carbon by oil sludge.

The water quality is checked visibly with a simple turbidity comparison.

The incorporated oil canister can only be changed if the oil flow is interrupted.

Construction

The range of UFS-SP are in total 7 sizes: 5 single units plus two combined/modular units.

Application:

- UFS-SP are oil/water separators for the purification of air compressor condensate to legal discharge limits.

Technical alterations reserved (Date 10/00)

ultrasep superplus® UFS-SP

Features:	Benefits:
Coalescing filter	Improves oil separation for longer compliance with legal discharge limits.
Sizing	Long residence time ensures excellent gravity separation. Extreme generous filling with activated carbon ensures long service intervals.
Service label on the lid	This service guideline for checking filtrate quality and carbon change procedure can't get lost.
Modular design for UFS-SP 120 and 240	Quick availability ex stock with standard units

Sizing:

UFS-SP	Nom. compressor performance		
	m³/h	kW	HP
5	120	11	15
10	250	22	30
15	450	45	60
30	900	90	121
60	1800	200	268
120	3600	315	423
240	7200	710	953

UFS-SP	Screw- and rotation compressor with oil injection cooling		Piston compressor 1- or 2-stage	
	Mineral oil	Synthetic oil	Mineral oil	Synthetic oil
5	1,5	1	0.5	1
10	3	2.5	1	2
15	3-6	2,5-4.5	1-1,5	2-3,5
30	6-12	4,5-9	1,5-3	3,5-7
60	12-24	9-18	3-6	7-14
120	24-48	18-36	6-12	14-28
240	48-96	36-72	12-24	28-56

Dimension: Nm³/min

Example:

Screw compressors, mineral oil, total 25 Nm³/min : Select UFS-SP 60

Technical data:

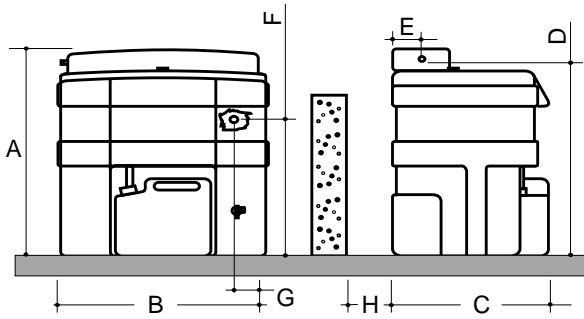
Materials:	
Body and lid	PE-LLD
Filter/Demister	PUR-foam
Adsorber	PP Activated carbon

Temperature range:	
Standard	+1 °C to +60 °C
With heater	-25 °C to +60 °C

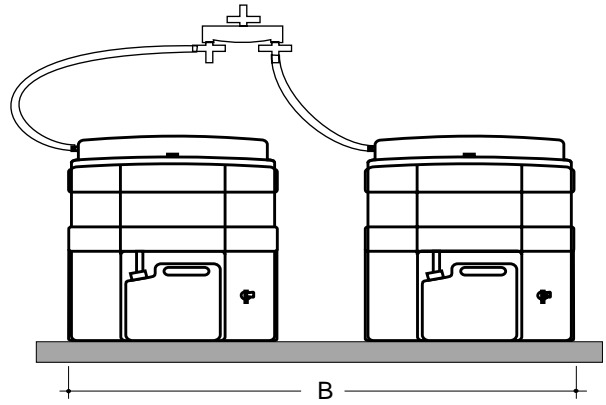
Options:	
Heater	230 V/50 Hz or 110 V/60 Hz

Spare parts:	
	Exchange adsorber

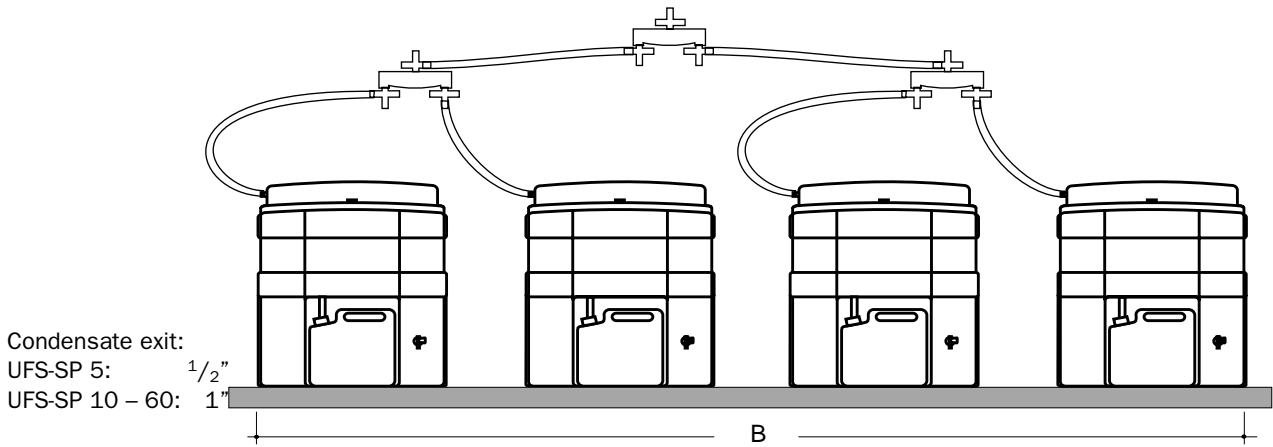
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UFS-SP 5-60



UFS-SP 120



UFS-SP 240

Technical data:

Type	Dimensions								Volumes				Freight weight
	A	B	C	D	E	F	G	H	Vessel	Activated carbon	Pre-adsorber	Oil can	
	mm	mm	mm	mm	mm	mm	mm	mm	litre	litre	litre	litre	
5	555	345	320	505	100	380	145	100	25	4	1,5	3	8,5
10	655	440	430	588	107	400	126	100	50	8	3	5	19,5
15	725	477	460	658	107	465	136	100	75	12	3	10	23,5
30	840	665	510	773	120	555	145	100	150	22	5	17,5	35,0
60	961	775	650	894	145	605	167	100	300	30	5	17,5	67,0
120	961	1750	650	894	145	605	167	100	600	60	10	2x17,5	136,0
240	961	3700	650	894	145	605	167	100	1200	120	20	4x17,5	272,0