

## Oil-Water Separators

DSP | DS SERIES

### BENEFITS AND FEATURES

- DSP Series: For flow rates from 90 to 720 m<sup>3</sup>/h
- DS Series: For flow rates from 300 to 3,600 m<sup>3</sup>/h
- Compact design, secure wall mounting and floor installation
- 3 resp. 4 connections for condensate inlet
- 3-stage combifilter (DSP Series)
- Document pocket for manual and service log

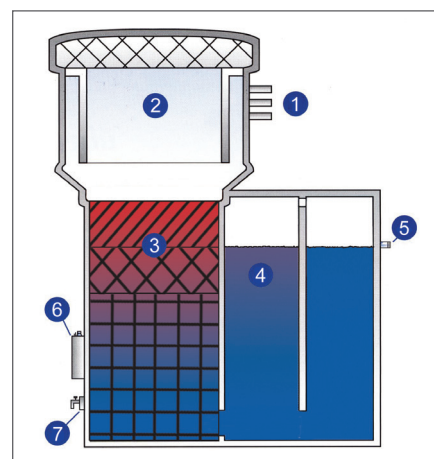
### DSP Series

During the compressed air production water condensate is produced. The quantity of condensate depends on the size and operating time of the compressors and can vary from 10 to 10,000 litres per month! The condensate of oil-lubricated compressors can contain up to 2,000 mg oil per litre. According to the environmental protection legislation, the condensate must be cleaned from oil before discharging it into the sewage system. If not treated, the condensate must be collected and disposed of with certification by a specialised and licensed company.

The DSP series removes the oil from the condensate reliably by means of a combination of different filter materials. The water so purified with Hankison Oil-Water Separators complies with the WHG requirements. Hankison Oil-Water Separators DSP/DS Series are registered and approved by the German Institute for Construction Technique, Berlin (DIBT).



- 1 Condensate feed
- 2 Chamber for expansion and deaeration
- 3 3-stage combifilter
- 4 Settling and flotation chamber
- 5 Water discharge
- 6 Test set
- 7 Test valve

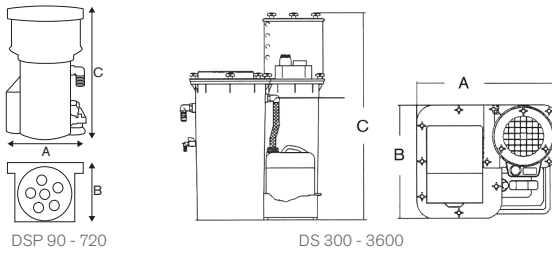


DSP 90 - 720  
Flow diagram

General Data	
Materials of Recipient	Polyethylene / polypropylene
Materials of Filter	Polypropylene and activated carbon
Colour	Anthracite / white
Location	Indoors

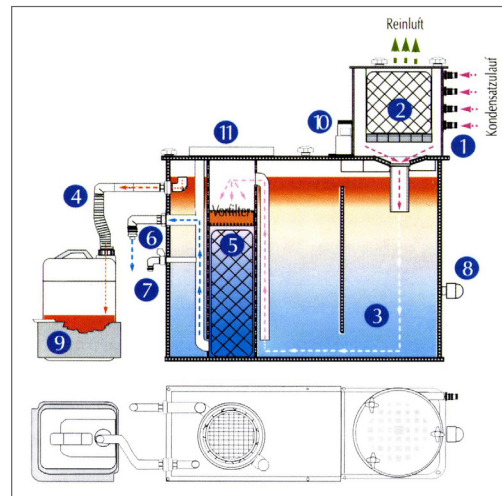
Model	Flow Rate*	Dimensions			Volume of container	Weight	Connections			Filtration			
		A	B	C			Condensate inlet	Water discharge	Oil discharge	Exhaust air	Pre-filter	Water side	
	m³/h	mm			litre	kg							
DSP 90	90	240	240	445	5	5	3 x 1/2"	1 x 1"	-	1 x 0.1	1x combination filter		
DSP 150	150			545	7,5	7							
DSP 210	210	285	285	610	14	10				1 x 1.5			
DSP 320	320	437	325	908	40	17							
DSP 720	720	620	520	965	120	25							
DS 300	300	600	380	965	74	22	4 x 1/2"	1 x 1"	1 x 1"	1 x 1.5	-	1x 0.3	1 x 3.8
DS 480	480	620	520		120	25							
DS 900	900			160	28	2 x 3.8							
DS 1800	1,800	850	1,160	230	55								
DS 3600	3,600	1,300	1,000	1,450	790						90		

\* Capacity valid for screw compressors using non-emulsifying oils. When using other oils or types of compressors, these figures have to be reduced (see maintenance book). Technical data and specification are subject to change without prior notice.

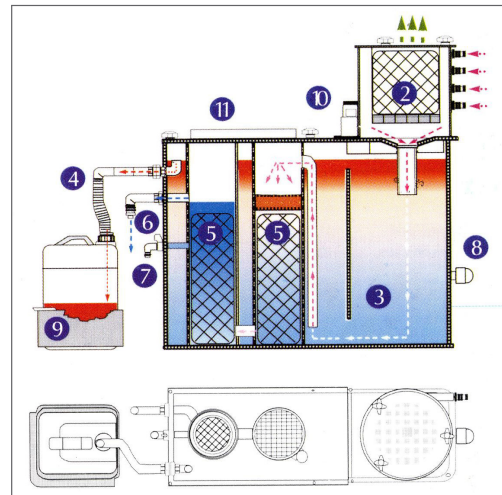


#### DS Series

- Condensate feed is possible both under pressure and without pressure**  
The condensate is fed from the compressor, the tank or the dryer into the separator, if possible under pressure (4 connections 1/2")
- Chamber for expansion and deaeration with activated carbon filter to filter the exhaust air**  
An expansion and deaeration chamber assures a calm surface in the separator, even if the condensate is fed under pressure. The activated carbon filter eliminates the oil from the exhaust air.
- Settling and flotation chamber**  
This is where the mechanical separation of oil from water takes place.
- Oil discharge**  
The angle of draining/ discharging the oil is adjustable.
- Filtering**  
Pre-filter: Filter of knitted plastic fibres (PP) filters out the larger oil droplets, thus relieving the activated carbon filter.  
Activated carbon filter: Filters out all the remaining oil droplets and guarantees the high overall efficiency.
- Water discharge**  
The remaining oil content of the water discharged is less than 10 mg/l if the equipment is correctly dimensioned. This water can be discharged directly into the sewers.
- Test valve**  
The test valve permits very simply to take discharge water samples.
- Heating (auxiliary equipment)**  
Thermostatically controlled heaters are available for outdoor installation.
- Oil-collect tank with overflow protection**
- TEST SET ... check-glass and oil test paper**  
See check- and maintenance book
- Document compartment**  
Operating instructions as well as the check- and maintenance book are at your fingertips at all times.



DS 300 - 900  
Flow diagram



DS 1800 - 3600  
Flow diagram

# SPXFLOW



SPX Flow Technology Germany GmbH  
Konrad-Zuse-Straße 25 | D-47445 Moers  
Tel.: +49 (0) 28 41 / 8 19-0 | Fax: +49 (0) 28 41 / 8 19 83  
E-Mail: info@spx-deltech.de  
www.spx-deltech.de | www.spxflow.com

SPX FLOW, Inc. reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.

Please contact your local sales representative for product availability in your region. For more information visit [www.spxflow.com](http://www.spxflow.com).

The green 'S' and 'X' are trademarks of SPX FLOW, Inc.