Oil-Water Separators

HSP | HS SERIES

BENEFITS AND FEATURES

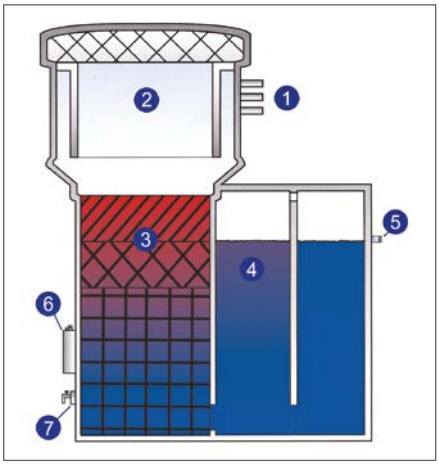
- HSP Series: For flow rates from 90 to 720 m³/h
- HS Series: For flow rates from 72 to 3,600 m³/h
- Compact design, secure wall mounting and floor installation
- 3 resp. 4 connections for condensate inlet
- 3-stage combifilter (HSP Series)
- Document pocket for manual and service log

HSP 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 sewing system. If not treated, the condensate must be collected and disposed of with certification by a specialised and licensed company.

The HSP series removes the oil from the condensate reliably by means of a combination of different filter materials. The water so purified wih Hankison Oil-Water Separators complies with the WHG requirements. Hankison Oil-Water Separators HSP/HS 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**



HSP 90 - 720
Flow diagram

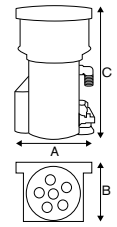
General Data	
Materials of Recipient	Polyethylene / polypropylene
Materials of Filter	Polypropylene and activated carbon
Colour	Anthracite / white
Location	Indoors

● standard ○ optional – not available

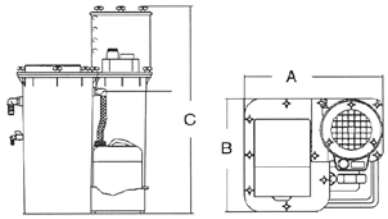
Hankison®

Model	Flow Rate*	Dimensions			Volume of container	Weight	Connections			Filtration		
		A	B	C			Conden-sate inlet	Water discharge	Oil dis-charge	Exhaust air	Pre-filter	Water side
	m³/h	mm			litre	kg						
HSP 90	90	240	240	445	5	5	3 x 1/2"	1 x 1"	–	1 x 0.1	1x combination filter	
HSP 150	150			545	7,5	7						
HSP 210	210	285	285	610	14	10				1 x 1.5		
HSP 320	320	437	325	908	40	17	4 x 1/2"					
HSP 720	720	620	520	965	120	25						
HS 70	72	285	285	610	14	9	3 x 1/2"	1 x 1"	1 x 1"	1 x 1.5	1x combination filter	
HS 120	120	430	325	650	22	10	4 x 1/2"					
HS 180	180	437		908	40	15					–	1 x 3.8
HS 300	300	600	380	965	74	22						
HS 480	480	620			120	25					1 x 0.3	2 x 3.8
HS 900	900		520	1,160	160	28						
HS 1800	1,800	850			230	55					4 x 0.3	4 x 3.8
HS 3600	3,600	1,300	1,000	1,450	790	90		1 x 2"	1 x 2"			

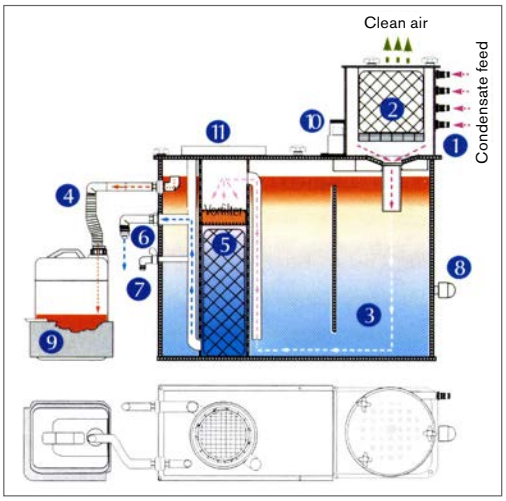
* Capacity valid for screw compressors using non-emulsifying oils. When using other oils or types of compressors, these figures have to be reduced (see maintenance book). Technical data and specification are subject to change without prior notice.



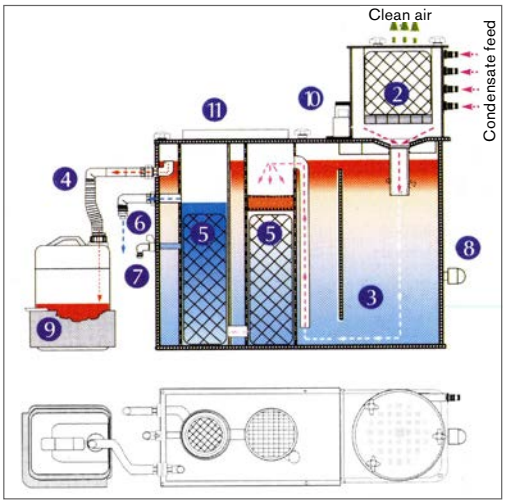
HSP 90 - 720



HS 70 - 3600



HS 70 - 900
Flow diagram



HS 1800 - 3600
Flow diagram

HS Series

1 **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 ½")

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.

3 **Settling and flotation chamber**
This is where the mechanical separation of oil from water takes place.

4 **Oil discharge**
The angle of draining/ discharging the oil is adjustable.

5 **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.

6 **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.

7 **Test valve**
The test valve permits very simply to take discharge water samples.

8 **Heating (auxiliary equipment)**
Thermostatically controlled heaters are available for outdoor installation.

9 **Oil-collect tank with overflow protection**

10 **TEST SET ... check-glass and oil test paper**
See check- and maintenance book

11 **Document compartment**
Operating instructions as well as the check- and maintenance book are at your fingertips at all times.

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