

# SFH Fabricated Water (Liquid) Separators

DN80 ~ DN350



## Water (Liquid) Separators

Untreated compressed air contains a minimum of 10 contaminants that must be treated for the system to operate safely, efficiently & cost effectively. Liquid water (and to a lesser extent, liquid oil) exist in all compressed air systems. Often these two liquids combine to make an aggressive, oily, acidic sludge, all of which causes problems such as corrosion of piping, permanent damage to valves, cylinders, pneumatic tools, machinery and reducing the effectiveness of aftercoolers and heat exchangers. Liquids are typically the first of 10 contaminants to be treated.

Parker SFH high efficiency water (liquid) separators have been designed for use with compressor inter coolers / after coolers, or for the protection of coalescing filters from heavy liquid contamination.

Parker SFH water separators have also been designed with the perfect balance between air quality and energy efficiency to provide maximum separation efficiency with minimal operational costs.



## Advantages

- Large air flow capacities
- PED approval is as standard for all models
- Other International pressure vessel approvals available on request



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## Technical Data

Filtration Grade	Water Separator Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature	
		bar g	psi g	bar g	psi g	°C	°F	°C	°F
SFH	SFH029N ~ SFH209N	1	15	16	232	2	35	60	

## Flow Rates

Model	Pipe Size		L/S	m <sup>3</sup> /min	m <sup>3</sup> /hr	cfm
	Inlet	Outlet				
SFH029	DN80	DN80	490	29.4	1764	1038
SFH030	DN100	DN80	500	30.0	1800	1059
SFH037	DN100	DN100	610	36.6	2196	1293
SFH038	DN125	DN100	633	38.0	2280	1342
SFH066	DN125	DN125	1093	65.6	3936	2317
SFH067	DN150	DN125	1117	67.0	4020	2366
SFH088	DN150	DN150	1473	88.4	5304	3122
SFH089	DN200	DN150	1483	89.0	5340	3143
SFH097	DN200	DN200	1618	97.1	5826	3429
SFH142	DN250	DN200	2365	141.9	8514	5011
SFH180	DN300	DN200	2992	179.5	10770	6339
SFH209	DN350	DN200	3485	209.1	12546	7385

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures, apply the correction factors shown below.

## Separator coding example

Example code
SFH067N

## Product Selection & Correction Factors

To correctly select a separator model, the flow rate of the separator must be adjusted for the minimum operating (inlet) pressure at the point of installation.

1. Obtain the minimum operating (inlet) pressure and maximum compressed air flow rate at the inlet of the filter.
2. Select the correction factor for minimum inlet pressure from the CFMIP table (always round down e.g. for 5.3 bar, use 5 bar correction factor)
3. Calculate the minimum filtration capacity. Minimum Filtration Capacity = Compressed Air Flow Rate x CFMIP
4. Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity).

## CFMIP - Correction Factor Minimum Inlet Pressure

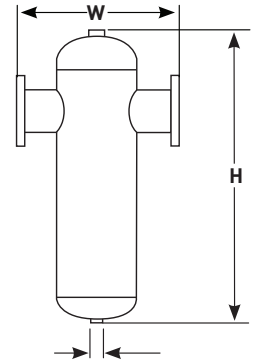
Minimum Inlet Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		4.00	2.63	2.00	1.59	1.33	1.14	1.00	0.94	0.89	0.85	0.82	0.79	0.76	0.73	0.71	0.68

## Liquid Separators Tested In Accordance With

<b>Filtration Grade</b>	<b>WS</b>
<b>Filter Type</b>	Liquid Separator
<b>Test Methods Used</b>	-
<b>ISO12500-4 Inlet Challenge Concentration</b>	-

## Weight & Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	ins	mm	ins	mm	ins	kg	lbs
SFH029	720	28.3	400	15.7	200	7.9	28	62
SFH030	720	28.3	400	15.7	200	7.9	29	64
SFH037	880	34.6	460	18.1	230	9.1	48	106
SFH038	880	34.6	460	18.1	230	9.1	49	108
SFH066	980	38.6	550	21.7	260	10.2	55	121
SFH067	980	38.6	550	21.7	260	10.2	56	123
SFH088	1060	41.7	570	22.4	290	11.4	82	180
SFH089	1060	41.7	570	22.4	290	11.4	85	187
SFH097	1160	45.7	660	26.0	320	12.6	126	277
SFH142	1255	49.4	680	26.8	351	13.8	148	326
SFH180	1455	57.3	750	29.5	390	15.4	160	352
SFH209	1655	65.2	830	32.7	430	16.9	205	451



SFH029 ~ SFH038 = 1/2" BSP  
 SFH066 ~ SFH209 = 1" BSP

## Quality Assurance / IP Rating / Pressure Vessel Approvals

<b>Development / Manufacture</b>	ISO 9001 / ISO 14001
<b>Ingress Protection Rating</b>	Not Applicable
<b>EU</b>	Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
<b>USA</b>	Approval to ASME VIII Div. 1 not required
<b>AUS</b>	Approval to AS1210 not required
<b>GUS</b>	TR (formerly GOST-R)
<b>For use with Compressed Air Only</b>	

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