



# IHP SERIES

## STAINLESS STEEL HIGH PRESSURE FILTERS

**100, 250, 420 bar**  
operating pressure

**40 to 715 Nm<sup>3</sup>/h**  
volume flow rate

**1/4" to 2"**  
connections

**1,5°C to 65°C**  
operating temperature range

**stainless steel 1.4301**-standard  
**stainless steel 1.4404**-option  
material

### DESCRIPTION

IHP stainless steel high pressure filters are designed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons and other vapours from compressed air systems up to 420 bar.

Required compressed air quality according to standard ISO 8571-1 can be achieved with 5 different grades of filter elements (N5, N25, M, S and A).

For any other technical gas please contact producer or your local distributor.

Optional external condensate drain should be used for efficient condensate draining from filter housing.

### APPLICATIONS

- General industrial applications
- Automotive
- Electronics
- Food and beverage
- Chemical
- Petrochemical
- PET
- Paint

**MDH 420**  
  
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**WB**  
  
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**N5**    5 µm

**N25**    25 µm

**M**    0,1 µm

**S**    0,01 µm

**A**    activated carbon

**Drain valve**  


**TD 420M**  
  
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TECHNICAL DATA										FILTER ELEMENTS						
Filter housing size	Pipe size	Max. oper. pressure	Flow rate at 7 bar(g), 20 °C		Dimensions [mm]				Mass	N5 5 µm	N25 25 µm	M microfilter 0,1 µm	S microfilter 0,01 µm	A activated carbon	CKL-IHP	
	inch		bar	Nm³/h	scfm	A	B	C								D
IHP 003	1/4"	100/250/420	40	23,5	182	98	104	30	7,9	IHP 0305 N5	IHP 0305 N25	IHP 0305 M	IHP 0305 S	IHP 0305 A	CKL-IHP 0305	
IHP 005	3/8"	100/250/420	70	41,2	182	98	104	30	7,9	IHP 0310 N5	IHP 0310 N25	IHP 0310 M	IHP 0310 S	IHP 0310 A	CKL-IHP 0310	
IHP 007	1/2"	100/250/420	130	76,5	230	118	129	36	15,7	IHP 0420 N5	IHP 0420 N25	IHP 0420 M	IHP 0420 S	IHP 0420 A	CKL-IHP 0420	
IHP 010	3/4"	100/250/420	195	115	254	118	129	36	16,6	IHP 0520 N5	IHP 0520 N25	IHP 0520 M	IHP 0520 S	IHP 0520 A	CKL-IHP 0520	
IHP 018	1"	100/250/420	275	162	276	145	158	46	27,3	IHP 0525 N5	IHP 0525 N25	IHP 0525 M	IHP 0525 S	IHP 0525 A	CKL-IHP 0525	
IHP 030	1 1/4"	100/250/420	380	223	328	145	158	46	29,6	IHP 0725 N5	IHP 0725 N25	IHP 0725 M	IHP 0725 S	IHP 0725 A	CKL-IHP 0725	
IHP 047	1 1/2"	100/250/420	495	291	385	195	216	65	67,8	IHP 0730 N5	IHP 0730 N25	IHP 0730 M	IHP 0730 S	IHP 0730 A	CKL-IHP 0730	
IHP 094	2"	100/250/420	715	421	460	195	216	65	73,5	IHP 1030 N5	IHP 1030 N25	IHP 1030 M	IHP 1030 S	IHP 1030 A	CKL-IHP 1030	
										quality class - solids (ISO 8573-1)	-	-	2	1	1 <sup>2)</sup>	-
										residual oil content [mg/m³]	-	-	<0,1	<0,01	<0,005	-
										quality class - oils (ISO 8573-1)	-	-	2	1	1	-
										pressure drop - new element [mbar / psi]	10 / 0,15	10 / 0,15	50 / 0,725	80 / 1,16	60 / 0,87	-
										change filter cartridge at pressure drop [mbar / psi]	-	-	350 / 5,07	350 / 5,07	6 months <sup>1)</sup>	-
										filter media	stainless steel mesh 1.4301	stainless steel mesh 1.4301	borosilicate micro fibres		activated carbon	-
										pleated version	-	-	✓	✓	-	-
										wrapped version	✓	✓	-	-	✓	-
										sintered version	-	-	-	-	-	-
										min. operating temperature (°C / °F)	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35
max. operating temperature (°C / °F)	65 / 149	65 / 149	65 / 149	65 / 149	45 / 113	65 / 149										

CORRECTION FACTORS							
Operating pressure [bar]	7	25	40	64	100	250	420
Operating pressure [psi]	100	362	580	928	1450	3625	6091
Correction factor	1	3	5	8	12	12	12

<sup>1)</sup> Filter elements "A", must be changed periodically to suit application, but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.

<sup>2)</sup> Valid if "S" filter cartridge is installed upstream.