



## **Product range**

### **Suction filters**

#### **In line filters spin-on**

#### **Tank mounted return line filters**

#### **Tank mounted return and suction line filters**

#### **In line medium and high pressure filters**

#### **Accessories**



IKRON "Fluid Filtration", real specialist in designing and manufacturing of hydraulic filters. More than fifty years of experience taught Casappa just how important filtering is to optimise hydraulic control system efficiency and to extend component service life.

Since its foundation, IKRON has followed the ISO 9001 procedures, guaranteeing the care and professionalism for which its production has always been distinguished, from design to delivery. This is why our customers rely on IKRON every day.

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IKRON uses virtual simulation tools during the design phase to analyse and predict how its products will behave when installed in the hydraulic circuit.

Ikron offers a wide range of filters and accessories. Suction filters, return filters, in line spin-on filters, medium and high pressure filters. Clogging indicators, level and temperature gauges, filler breathers.





**Suction filters**

The tank submerged suction filters are designed to be fitted directly on pump intake and provide versatility to safeguard the hydraulic components from contaminating particles.



**HF 410 series**

- ◆ Flow up to 300 lpm ▪ 79.3 US gpm
- ◆ By-pass valve
- ◆ Oversized filtering surface

**HF 431-434-437 series**

- ◆ External tank connection
- ◆ Aluminium head
- ◆ Special version on request
- ◆ Washable filtering media



**Main characteristics**

Type	Nominal flow up to		Degree of filtration*	
	l/min	US gpm	MS (µm)	MI (µm)
<b>HF 410</b>	300	79.3	90	25-60-125-250
<b>HF 431</b>	220	58.1		60-125-250
<b>HF 434</b>	160	42.3		60-125-250
<b>HF 437</b>	160	42.3		60-125-250

NOTES

(\*): MS = zinc plated steel wire mesh / MI = stainless steel wire mesh

**In line filters spin-on**

These filters are specifically designed to be connected on the suction or in the return line of the hydraulic circuit and provide versatility to safeguard the circuit components from contaminating particles.



**HF 620-625 series**

- ◆ Easy filtering elements replacement
- ◆ Differential visual indicator
- ◆ Interchangeable with major manufacturers

**HF 650 series**

- ◆ Easy filtering elements replacement
- ◆ High filtration performances
- ◆ Operating pressure 35 bar ▪ 510 psi
- ◆ Interchangeable with major manufacturers



**Main characteristics**

Type	Nominal flow up to <i>l/min ▪ US gpm</i>	Operating pressure <i>bar ▪ psi</i>	Degree of filtration*			
			FG (µm)	MS (µm)	SP (µm)	RP (µm)
<b>HF 620</b>	350 ▪ 92.5	12 ▪ 174	10-25	60-90-125	10-25	
<b>HF 625</b>	220 ▪ 58.1	25 ▪ 360	10-25	60-90-125	10-25	
<b>HF 650</b>	180 ▪ 48	35 ▪ 510	3-6-10-16-25			10-25

NOTES

(\*): FG = micro-fibre glass / MS = zinc plated steel wire mesh / SP = cellulose / RP = reinforced cellulose



### Tank mounted return line filters

These filters are specifically designed to be directly connected on the hydraulic circuits return line and provide versatility to safeguard the circuit components from contaminating particles.



#### HF 502 series

- ◆ Operating pressure 8 bar ▪ 115 psi
- ◆ Interchangeable with major manufacturers
- ◆ Filler cap



#### HF 547 series

- ◆ Air breather (available also with pressurized version)
- ◆ Antisplash system
- ◆ Anodized housing
- ◆ Flange with four holes (only HF 547-20)



#### HF 570-575-578 series

- ◆ Inside-to-outside flow direction
- ◆ Magnetic pre-filtration
- ◆ Filler cap
- ◆ Interchangeable with major manufacturers



#### HF 508 series

- ◆ Flow up to 1000 lpm ▪ 264 US gpm
- ◆ Double inlet port
- ◆ Extension on the oil way out of the pipe union
- ◆ Fluid-decelerating diffuser



#### HF 554 series

- ◆ Air breather (available also with pressurized version)
- ◆ Antisplash system
- ◆ Anodized housing

### Main characteristics

Type	Nominal flow up to	Operating pressure		Degree of filtration*			
	l/min ▪ US gpm	bar ▪ psi	FG (µm)	MS (µm)	MI (µm)	SP (µm)	RP (µm)
<b>HF 502</b>	630 ▪ 166.5	8 ▪ 115	3-6-10-25	90	25-60-125	10-25	10-25
<b>HF 508</b>	1000 ▪ 264	8 ▪ 115	3-6-10-25	90	25-60-125	10-25	10-25
<b>HF 547</b>	200 ▪ 53	8 ▪ 115	3-6-10-25	90	25-60-125	10-25	10-25
<b>HF 554</b>	630 ▪ 166.5	8 ▪ 115	3-6-10-25	90	25-60-125	10-25	10-25
<b>HF 570</b>	600 ▪ 158	8 ▪ 115	10-25			10-25	
<b>HF 575</b>	1200 ▪ 317	8 ▪ 115	10-25			10-25	
<b>HF 578</b>	1200 ▪ 317	8 ▪ 115	10-25		60-125	10-25	

#### NOTES

(\*): FG = micro-fibre glass / MS = zinc plated steel wire mesh / MI = stainless steel wire mesh / SP = cellulose / RP = reinforced cellulose

**Tank mounted return and suction line filters**

These filters are normally installed onto the tank and are used as the only solution to filter the oil flow coming from the open circuit return line and to supply with filtered oil, pressurized at 0,5 bar (7.25 psi), the closed circuit of the suction line.



**HF 525 series**

- ◆ Maximum operating pressure 12 bar ▪ 174 psi
- ◆ Internal by-pass set at 2,5 bar ▪ 36 psi
- ◆ Anti-cavitation valve with filter element

**Main characteristics**

Type	Return flow up to	Suction flow up to	Operating pressure bar ▪ psi	Degree of filtration*
	l/min ▪ US gpm	l/min ▪ US gpm		FG (µm)
<b>HF 525</b>	270 ▪ 71	42 ▪ 160	12 ▪ 174	10-25

NOTES (\*): FG = micro-fibre glass

**In line medium and high pressure filters**

The in-line medium and high pressure filters are specifically designed to be connected on the pressure line of the hydraulic circuit and provide versatility to safeguard the circuit components from contaminating particles.



**HF 710 series**

- ◆ Aluminium housing
- ◆ Operating pressure 250 bar ▪ 3600 psi
- ◆ Compact design and lightness
- ◆ By-pass valve
- ◆ Filtration ratio  $\beta_x \geq 200$

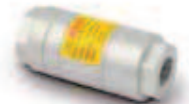
**Main characteristics**

Type	Nominal flow up to l/min ▪ US gpm	Operating pressure bar ▪ psi	Degree of filtration*	
			FG (µm)	SB (µm)
<b>HF 705</b>	115 ▪ 30.4	350 ▪ 5100		10-25-40-60
<b>HF 710</b>	47 ▪ 12.4	250 ▪ 3600	3-6-10-25	

NOTES (\*): FG = micro-fibre glass / SB = sintered bronze

**HF 705 series**

- ◆ Sintered bronze filter element
- ◆ Bidirectional flow
- ◆ Aluminium housing




**In line medium and high pressure filters**

**HF 725 series**

- ◆ CETOP 3 connections with reference to ISO4401
- ◆ Operating pressure 350 bar ▪ 5100 psi
- ◆ Modular assembly
- ◆ Compact design
- ◆ Filtration ratio  $\beta_x \geq 200$

**HF 733 - HF 735 series**

- Multilayer system ◆
- Flanged directly on valve blocks and hydraulic Power-Pack ◆
- Filtration ratio  $\beta_x \geq 200$  ◆


**HF 743 - HF 745 - HF 748 series**

- ◆ Interchangeable with major manufacturers
- ◆ Multilayer system
- ◆ Filtration ratio  $\beta_x \geq 200$

**HF 760-761 series**

- Multilayer system ◆
- Wide range 20 - 30 - 40 ◆
- Interchangeable with major manufacturers ◆
- Filtration ratio  $\beta_x \geq 200$  ◆


**Main characteristics**

Type	Nominal flow up to l/min ▪ US gpm	Operating pressure bar ▪ psi	Degree of filtration*	
			FG (µm)	MI (µm)
<b>HF 725</b>	20 ▪ 5.3	350 ▪ 5100	3-6-10-25	10-25
<b>HF 733</b>	80 ▪ 21.1	250 ▪ 3600	3-6-10-25	
<b>HF 735</b>	150 ▪ 39.7	320 ▪ 4650	3-6-10-25	
<b>HF 743</b>	95 ▪ 25.1	250 ▪ 3600	3-6-10-25	
<b>HF 745</b>	170 ▪ 45	310 ▪ 4495	3-6-10-25	
<b>HF 748</b>	145 ▪ 38	280 ▪ 4050	3-6-10-25	
<b>HF 760</b>	450 ▪ 120	420 ▪ 6100	3-6-10-25	
<b>HF 761</b>	420 ▪ 111	420 ▪ 6100	3-6-10-25	

NOTES (\*): FG = micro-fibre glass / MI = stainless steel wire mesh



### Accessories

Filler breathers - Air filters - Level and temperature gauges - Pressure gauges - Pressure/Vacuum gauges - Clogging indicators: visual, electrical, visual differential and electrical visual differential.

