



# FILTRATION

## FOR INDUSTRIAL APPLICATIONS

- ✓ FILTRATION AND OIL REMOVAL OF PRETREATMENT BATHS, DEGREASING BATHS, CLEANING BATHS
- ✓ FILTRATION OF INDUSTRIAL PROCESS LIQUIDS
- ✓ FILTRATION OF ELECTROPLATING BATHS, AUTO-CATALYTIC CHEMISTRY AND SURFACE CONVERSION
- ✓ PRECIOUS METAL RECOVERY
- ✓ OIL REMOVAL
- ✓ ORGANIC REMOVAL



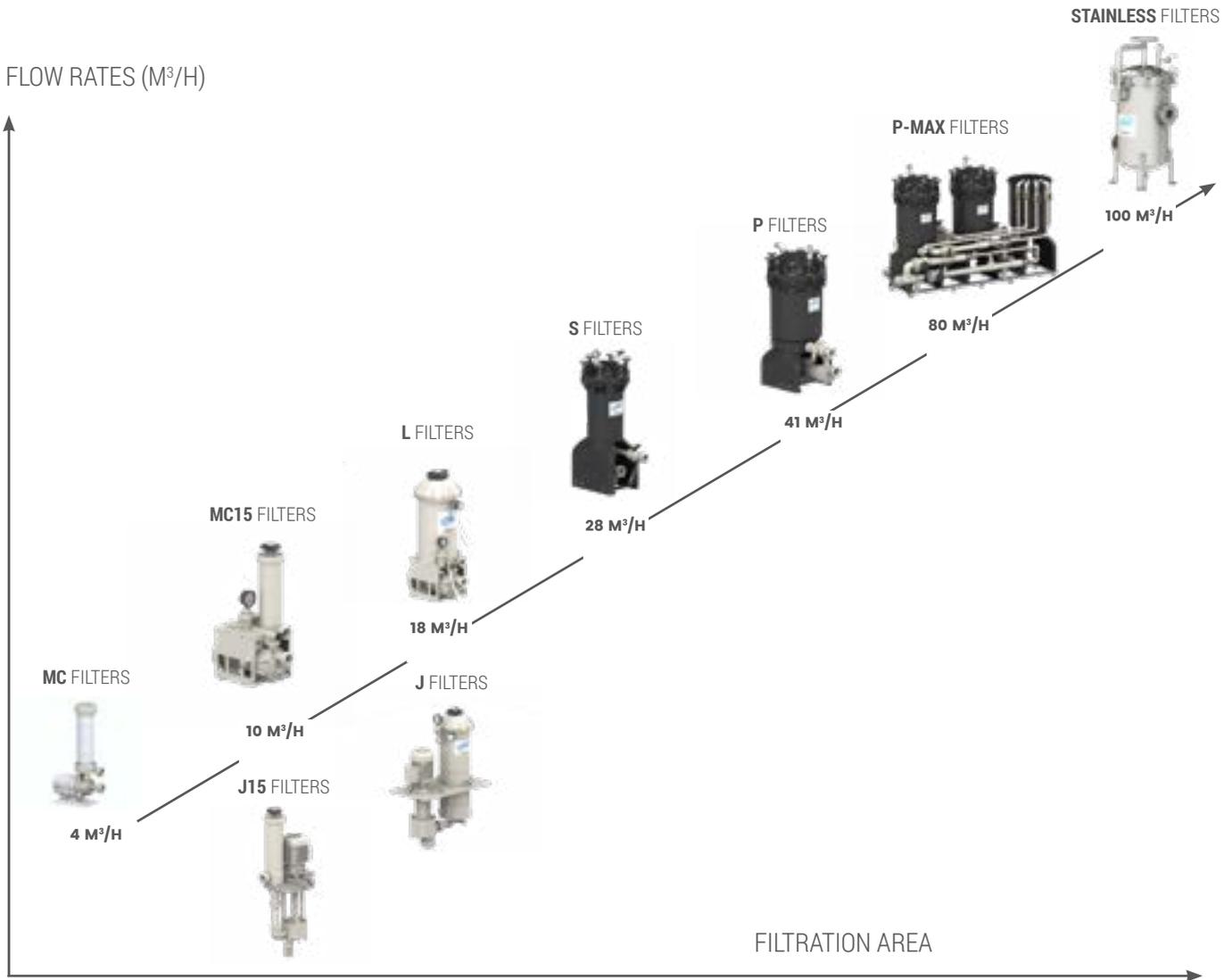
# EXPERTISE

## SELECTION



Filtration specialist for 60 years, Siebec designs and manufactures a wide range of industrial filters, pumps and industrial liquid treatment solutions. The group is composed of 6 subsidiaries in Germany, Spain and the UK and is present worldwide with over 45 distributors.

Siebec offers a wide range of product for the filtration of electro plating baths, Oil removal, organic removal and the recovery of precious metal.



Quality & Innovation



60 years expertise



2 years warranty



Consistency & balance of your baths



Treated pieces cost reduction



# FILTERS & MEDIA

## SELECTION CHART

FILTRES - OIL REMOVAL - RECOVERY	FILTERS FLOW RATES		FILTERING MEDIA							
			Pleated cartridges L-TECH / S-TECH		PP threaded cartridges		Filtration discs		CARBO-TECH	Dissolution tank
	Pumps model	Max flow rate (m³/h)	Nb	Filtration area (m²)	Nb	Height	Nb x diam (mm)	Filtration area (m²)	Volume (L)	Volume (L)
MC4 - MC10	M7	0,37	-		1	4"-10"				
MC15	M15 - M50	1,5 - 4	-		1 - 2	10"-20"				
J15	T50	2,3	-		1	10"-20"				
L20	M15 - M50	1,5 - 4	-				20 x 195	0,45		
L30	M50	4	1	2,5	7	10"	32 x 195	0,72	5,8	
L50	M50 - M70	4 - 5	1	5	7	20"	64 x 195	1,44	11,6	
L51 - L59	M100 - M250	9 - 18	1	5	7	20"	64 x 195	1,44	11,6	16
L52 - L58	M140-M250	11 - 18	2	10	14	20"	128 x 195	2,88	11,6 x 2	16
L81 - L89	M140 - M250	11 - 18			7	30"	96 x 195	2,16	17,3	16
L82 - L88	M200 - M250	15 - 18			14	30"	192 x 195	4,32	17,3 x 2	16
J30	T50 - T140	3,5 - 9,2	1	2,5	7	10"	32 x 195	0,72	5,8	
J50	T70 - T200	5 - 10,2	1	5	7	20"	64 x 195	1,44	11,6	
S50 - S50E	M100 - M290	10 - 28	2	10	12	20"	60 x 258	2,9	11	30
P50 - P50E	M140 - M250	16 - 25	4	20	36	20"	54 x 456	7,8	11,6 x 4	100
P51 - P51E	M290-M390 A27-A30	30 - 41	4	20	36	10"-20"	54 x 456	7,8	11,6 x 4	100
P52 - P52E	M290 - M390 A27 - A30	30 - 41	8	40	72	10"-20"	108 x 456	15,6	11,6 x 8	100
P Max	M290 - M390 A27 - A30	60 - 80	8	40	72	10"-20"	108 x 456	15,6	11,6 x 8	100
H50	M50 / A15 / M70	4 - 5	OIL-TECH capacity = 11,6 L / 700 g							
H51	M100 / A18	9	OIL-TECH capacity = 11,6 L / 700 g							
R3	M7	0,7	Resin capacity = 3 L							
R12	M35 / M50	3 - 5	Resin capacity = 11,6 L							

For more information  
consult the L-TECH brochure

Plates of paper	63mm dia cartridges	L-TECH / S-TECH	BAG-TECH	OIL-TECH	CARBO-TECH
					
<p>Filtration discs :</p> <ul style="list-style-type: none"> <li>paper, PP, polyester, PVDF, PTFE discs.</li> </ul>	<p>PP cartridges :</p> <ul style="list-style-type: none"> <li>depth filtration</li> <li>pleated available</li> <li>from 1 to 100 µm.</li> </ul>	<p>Pleated cartridges :</p> <ul style="list-style-type: none"> <li>Many Siebec patents (handle, comb)</li> <li>washable</li> <li>huge actual filtration area</li> <li>from 0,2 to 100 µm</li> </ul>	<p>Bag filtration :</p> <ul style="list-style-type: none"> <li>Filtration grade from 150 to 600 microns.</li> <li>Washable and reusable.</li> </ul>	<p>Oil removal canister, 100% PP microfibers</p>	<p>Organic removal Active granulated carbon treatment</p>
 <p>Flow rate / water sediment load</p>					

# P FILTERS

GREAT CAPACITY FILTERS  
FROM 16 TO 41 M<sup>3</sup>/H



Monoblock injected tank without welding



P51



P51-E



## FILTRATION

### 4 L-TECH © pleated cartridges

20m<sup>2</sup> filtration area  
From 0,2 to 100 µm  
Washable and reusable

### Paper or fabric discs filtration

27 or 54 trays 456mm diameter

### Cartridge filtration

36 wound/extruded cartridges



## OPTIONS

**CARBO-TECH cannister** : active carbon treatment

**OIL-TECH cannister** : PP microfibers load



## MATERIALS

### Polypropylene loaded with glass fiber

Great resistance to acids and alkalines  
Max temperature 70°C



## CONNECTION

Threaded, union nut, grooved nozzle, flanges



## PUMP

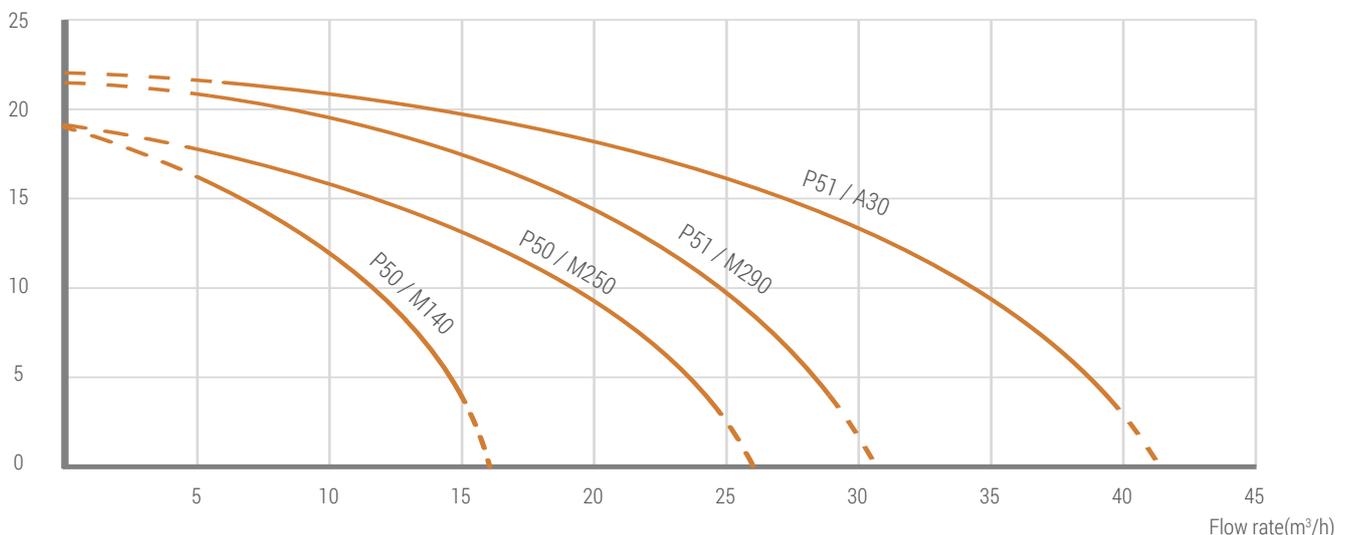
### Mechanical seals or magnetic drive

Self repriming  
Flow rate from 16 to 43 m<sup>3</sup>/h



P50

H.M.T. (mWC)



\*Flow rates measured with 4 L-TECH cartridges with 20°C water. Flow rate varies depending on the filtration media.



# P-MAX FILTERS

GREAT CAPACITY FILTERS  
UP TO 80 M<sup>3</sup>/H

**P-MAX N1**



**P-MAX N4**



**Instant modulation**



*Individual operation, double, parallel, series and Bypass instantly*

**Entirely customizable**



**Monoblock injected tank without welding**



**FILTRATION**

**Great capacity double tank version**  
Up to 40m<sup>2</sup> filtration area

**Dissolution and draining tank version**  
Enables the addition of additives, the dissolution of salts, the use of filter aid or activ carbon powder as well as the draining of filtration tanks

**PUMP**



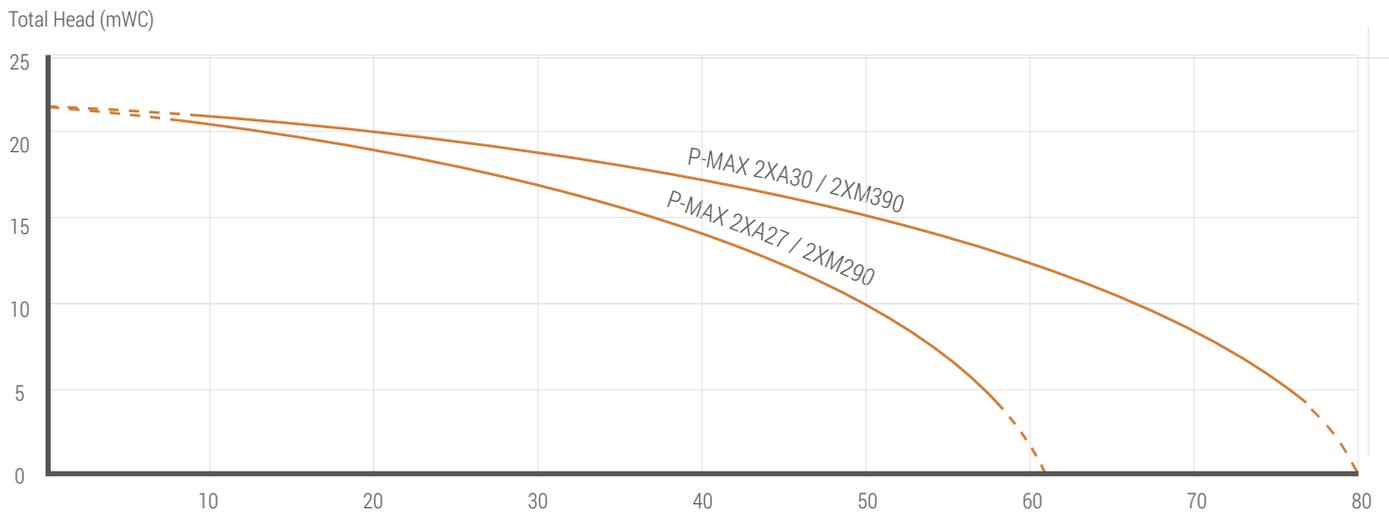
**Mechanical seals or magnetic drive**  
Self repriming  
Flow rate up to 80 m<sup>3</sup>/h

**OPTIONS**

**SAFETECH:** dry run protection kit



**P-MAX N2**



\*Flow rates measured with 8 L-TECH cartridges with 20°C water. Flow rate varies depending on the filtration media.

# S FILTERS

LARGE CAPACITY FILTERS  
FROM 11 TO 28 M<sup>3</sup>/H



Monoblock injected tank without welding



S50



S50-E



## FILTRATION

### S-TECH © pleated cartridges

10m<sup>2</sup> filtration area  
From 1 to 50 µm  
Washable and reusable

### Paper or fabric discs filtration

58 trays 258 mm diameter

### Cartridge filtration

12 wound/extruded cartridges



## OPTIONS

**CARBO-TECH cannister** : active carbon treatment

**Dissolution tank** : S50 - E



## MATERIALS

**Polypropylene loaded with glass fiber**

Great resistance to acids and alkalines  
Max temperature 70°C



## CONNECTION

**Threaded, union nut, grooved nozzle, flanges**



## PUMP

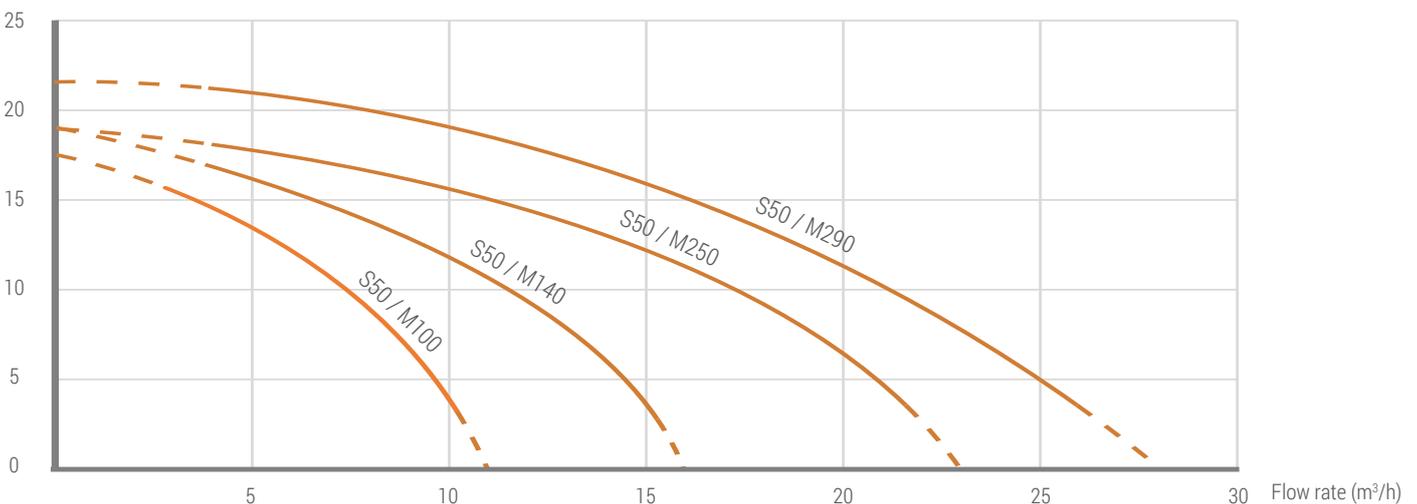
**Mechanical seals or magnetic drive**

Self repriming  
Flow rate from 10 to 30 m<sup>3</sup>/h



S51

Total Head (mWC)



\*Flow rates measured with S-TECH cartridges with 20°C water. Flow rate varies depending on the filtration media.

# L FILTERS

AVERAGE CAPACITY COMPACT FILTERS  
FROM 5 TO 21M<sup>3</sup>/H

L51 - PVDF



L52



L59



Modular construction



Easy pump disassembly



Compact design



Quick opening lid



## FILTRATION

### L-TECH © pleated cartridges

5m<sup>2</sup>- 20" filtration area  
From 0,2 to 100 µm  
Washable and reusable

### Paper or fabric discs filtration

20 to 96 trays 195 mm diameter

### Cartridge filtration

7 wound/extruded cartridges 10"/20"/30"



## OPTIONS

**CARBO-TECH cannister** : active carbon treatment

**OIL-TECH cannister** : PP microfibers load

**Double housing** : L52

**Dissolution tank** : L58 & L59



## MATERIALS

### Polypropylene or PVDF

Great resistance to acids and alkalines  
Max temperature : 110°C (PVDF) - 80°C (PP)



## CONNECTION

Threaded, union nut, grooved nozzle, flanges



## PUMP

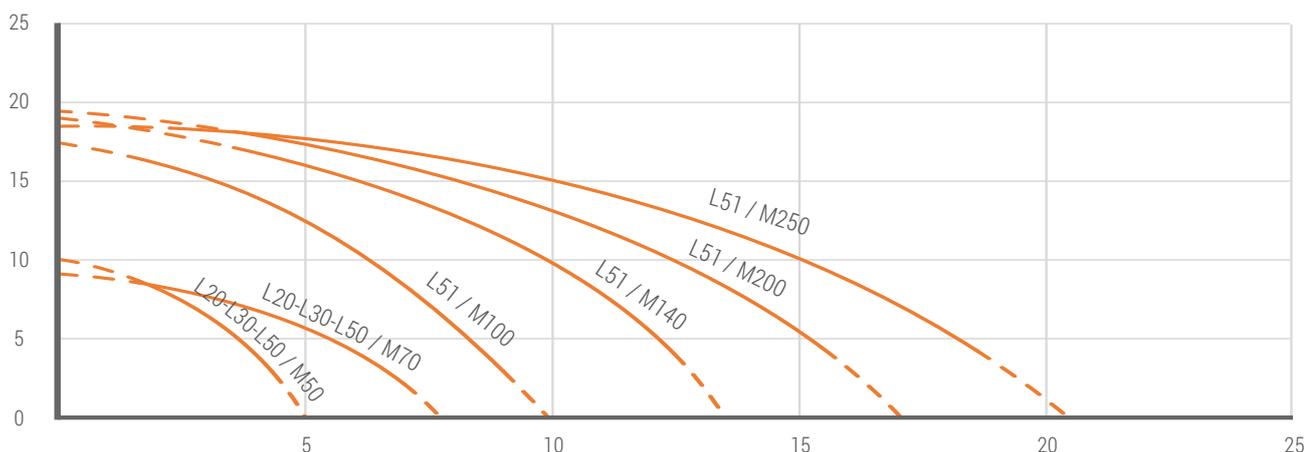
### Mechanical seals or magnetic drive

Self repriming  
Flow rate from 5 to 25 m<sup>3</sup>/h



L51

Total Head (mWC)



\*Flow rates measured with 1 L-TECH cartridge with 20°C water. Flow rate varies depending on the filtration media.

Flow rate (m<sup>3</sup>/h)

# J FILTERS

VERTICAL FILTERS  
FROM 1,5 TO 17.5 M<sup>3</sup>/H



**Quick opening lid**



**Assembly immersed or out of tank**



**J15 - 20"**



**J50 - 20"**



## FILTRATION

### L-TECH © pleated cartridges

5m<sup>2</sup>- 20" filtration area  
From 0,2 to 100 µm  
Washable and reusable

### Paper or fabric discs filtration

32 to 64 trays 195 mm diameter

### Cartridge filtration

7 wound/extruded cartridges 10"/20"



## OPTIONS

**CARBO-TECH cannister** : active carbon treatment

**OIL-TECH cannister** : PP microfibers load

**In tank assembly** : no risks of leakage outside the bath

**Out of tank assembly** : compact and local to the bath



## MATERIALS

### Polypropylene or PVDF

Great resistance to acids and alkalines  
Max temperature : 110°C (PVDF) - 80°C (PP)



## CONNECTION

Threaded, union nut, grooved nozzle, flanges



## PUMP

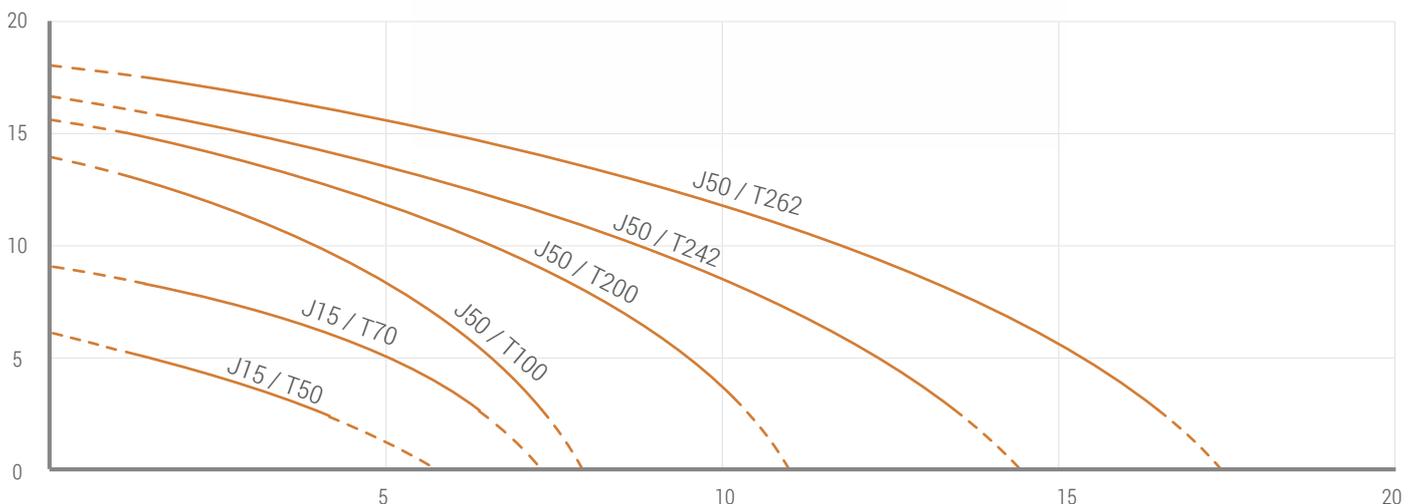
### Vertical sealless

Possible dry run  
Flow rate from 1,5 to 25 m<sup>3</sup>/h



**J50-20"**

Total Head (mWC)



\*Flow rates measured with 1 L-TECH cartridge with 20°C water. Flow rate varies depending on the filtration media.

Flow rate (m<sup>3</sup>/h)



# MC FILTERS

SMALL CAPACITY FILTERS  
FROM 0,3 TO 4 M<sup>3</sup>/H

MC 10

MC15 1X10"

MC15 2X20"

Quick opening lid

Easy pump disassembly



Automatic venting

Integrated fastening leg



**FILTRATION**

Wound or threaded cartridges  
From 1 to 100 µm

**CONNECTION**

Threaded, union nut, grooved nozzle, flanges

**OPTIONS**

Double housing 10" and 20"  
Series filtration  
Parallel filtration

**MATERIALS**

**Polypropylene or PVDF**  
Great resistance to acids and alkalines  
Max temperature : 110°C (PVDF) - 80°C (PP)

**PUMP**

**Mechanical seals or magnetic drive**  
Self repriming (M35/M50)  
Flow rate from 0,3 to 4 m<sup>3</sup>/h



MC15 1X10"

## STAINLESS FILTERS - UP TO 100 M<sup>3</sup>/H



LINOX

PINOX

**MATERIALS**

**Stainless steel 304 or 316L**  
Great resistance to alkalines, great mechanical strength

**FILTRATION**

**1 to 4 pleated cartridges L-TECH ©**  
20m<sup>2</sup> filtration area  
From 0,2 to 100 microns  
Washable and reusable

# OIL REMOVAL H

## OIL REMOVAL MODULES



<b>Integrated fastening leg</b> 	<b>Easy pump disassembly</b> 
<b>Compact conception</b> 	<b>Quick opening lid</b> 

### H51

### SURFACE SKIMMER

### FLOATING SKIMMER



### FILTRATION

**100% PP microfibers load : OIL-TECH**  
 Collects free floating and suspension oil in degreasing solutions.  
 One load of 11,5L of microfibers (about 0,7 kg) retains in average 6L of oil.  
 Mobile cannister  
 Microfibres to be incinerated or compacted

### OPTION

**Surface skimmer** : economical & easy yo use  
  
**Floating skimmer** : for variation in the tank level.

### MATERIAL

**Polypropylene loaded with glass fiber**  
 Great resistance to acids and alkalines  
 Max temperature 80°C

### CONNECTION

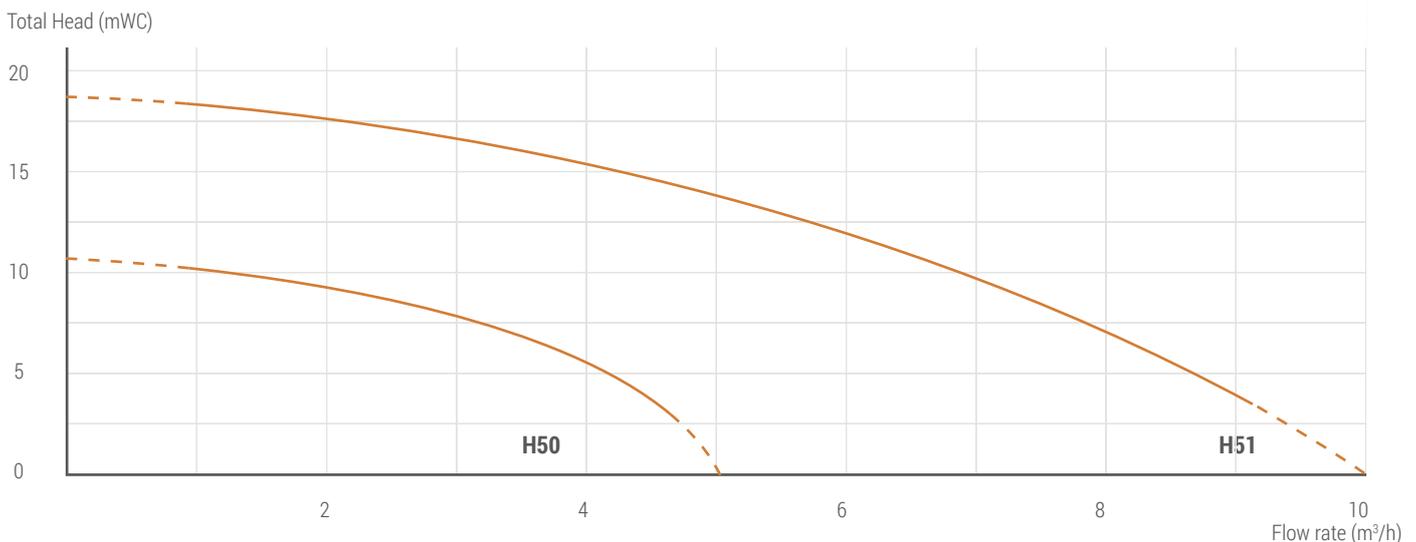
**Threaded, union nut, grooved nozzle, flanges**

### PUMP

**Magnetic drive or single mechanical seal**  
 Self repriming  
 Flow rate from 1,5 to 14 m³/h



H50





# PRECIOUS METAL RECOVERY

## ELECTRUM : RECOVERY THROUGH ELECTROLYSIS

The ELECTRUM is designed for the electrolytic recovery of metals contained in diluted or concentrated solutions. The liquid goes through the filters where the deposit is retained inside the cartridge and later recovered.

Autonomous device



Efficient on every metal



Quick ROI



Low energy consumption



### FILTRATION

#### Filtration on patented cartridges

Captive deposit inside the cartridge without any metal loss.

Calculate your metal savings simply by weighting the cartridge.

Cyanide destruction

Recovers concentrations below 2ppm



ELECTRUM



### MATERIALS

#### Polypropylene loaded with glass fiber

Great resistance to acids and alkalines

Max temperature 60°C



### CONNECTION

Threaded, union nut, grooved nozzle, flanges



### PUMP

#### Magnetic drive

Self repriming

Flow rate from 0,3 to 4 m³/h

## R3 / R12 : RECOVERY THROUGH ION EXCHANGE RESIN

For smaller volume including precious metal, Siebec designed two precious metal recovery devices working with Ion exchange resin.



### FILTRATION

**Pre-filtration 10 µm cartridge** : resin protection

**Only one passage on the resin is necessary**



R3

R12



### MATERIALS

#### Polypropylene

Great resistance to acids and bases

Max temperature 80°C



# SIEBEC GROUP

FLUID FILTRATION, PURIFICATION, TRANSFER



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