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Surface treatment

Pumps Bath agitation Draining vacuum corrosive liquids Standard filters Metals recovery Acid recycling Nickel-satin bath treatment Filtration supplies



For over 60 years, it is at the heart of the French Alps that we have been developing solutions for the filtration, transfer and treatment of industrial fluids.

6 reasons to choose SIEBEC



Advice & expertise Our experts guide you through the technical evaluation and improvement of your current setup.



Competitive pricing

Our management of the entire production cycle allows us to offer our products at highly attractive prices.



Quality control

Our filtration media are developed and tested in our laboratory to ensure optimal performances.



Media analysis

SIEBEC LTS analyze your media and establish a filtration efficiency report thanks to a normalized bench test.



On-demand

Our design office is specialized in the creation of installations with the highest requirements.



Express delivery

Many of our products are in stock and shipped within 48 hours. Spare parts shipped in 24 hours.

O1. Transfer & suction



Among the best efficiency on the market !

SIEBEC pumps are equipped with closed-blade turbines whose design has been optimized by numerous hydraulic simulations.

This enables them to reduce their electrical consumption and increase the efficiency by 50%.

Special attention has been paid to the balancing of the internal pressures, thus reducing the wear of the stops.

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M SERIES Magnetic drive pump

Guaranteed leak-proof thanks to the magnetic drive, these



*US norm couplings available on demand.

		Flow rate (m ³ /h)	Dynamic head (m)	Motor power (W)	Max fluid density
1 SERIES	M7	0.7	4	10	1.2
	M15	2	6	45	1.2
	M25	3	7	120	1.1
low rate (m³/h)	M35	3.5	10	180	1.4
).7 - 43	M50	5	10	180	1.2 - 1.4
	M70	7	9.5	250	1.4
)ynamic head (m)	M100	10	18	750 - 1100 ¹	1.6 - 2 ¹
í - 22	M140	16	19	1100 - 1500 ¹	1.6 - 2 ¹
	M200	21	20	1100 - 2200 ¹	1.6 - 2 ¹
?ower(W)	M250	26	19	1500 - 2200 ¹	1.7 - 2 ¹
n = 3000	M290	32.5	21.5	2200	1.5 - 1.7 ¹
0-3000	M390	43	22	3000 - 4000 ¹	1.3 - 2 ¹

¹ High density version (PVDF)

Ν

pumps are ideal for transferring the most corrosive fluids.

A SERIES Mechanical seals pump

Ideal for the transfer of fluids charged with particles, the plastic design ensures an excellent chemical compatibility.





Easy integration

The mechanical seal design has a small footprint

Excellent wear resistance Ultra-durable carbide/carbide seal

Excellent efficiency Closed centrifugal turbine coupled to a blade diffuser

Automatic self-priming

Volute with eccentric suction

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Improved protection
Built-in strainer
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A SERIES

Flow rate (m³/h) 4.8 - 57

Dynamic head (m) 9 - 50

Power (W) 180 - 7500

	Flow rate (m³/h)	Dynamic head (m)	Motor power (W)	Max fluid density*
A15	4.8	9	180	1.2
A18	10	18	750	1.8
A19	14	19	1100	1.7
A27	31.5	21.5	2200	1.4
A30	43	22	4000	1.5
A31P	52	32	5500	1
A32P	57	41	7500	1
A33P	48	36	4000	1
A32	57	50	7500	1

**High density version available on demand

T/ST/STS SERIES Vertical pumps

Without wearing parts (stops, mechanical seals...) they are guaranteed leak-free. Some versions allow important variations of the bath level.

Submerged or outboard

Ultra-compact vertical design

At the heart of innovation ST pumps 20% more efficient than the market average

Excellent efficiency Closed centrifugal turbine coupled to a blade diffuser

Very good life cycle No mechanical seal or wear parts

Bath level variation Some pumps allow very high bath level variations



Cantilevered shaft without bearings No mechanical seals : dry running possible No wear parts : leak-proof.

TXX1 versions Long shaft with ceramic bearings Leak-proof Enables high bath level variation (>700 mm)

STX2 and TXX2 versions Cantilevered shaft and counter-turbine Outboard setup possible Dry running without problems







IE3 Motor Excellent efficiency

tolerance.

150°C.

Available materials

(PP:80°C/PVDF:110°C)

Flange

Very high resistance to acids

& alkalis and high temperature

Stainless steel STS versions for high temperature applications >

$\left(\right)$	PP)
$\left(\right)$	PVDF)
$\left(\right)$	INOX)

Available couplings*

Nut





Threaded

*US norm couplings available on demand.

Nozzle

	F	

Flow rate (m³/h) 1.3 - 31

Dynamic head (m) 4 - 22

Power(W) 90 - 4400

	Flow rate (m³/h)	Dynamic head (m)	Motor power (W)	Max fluid density*
ST10 / 30 / 50	1.3 / 3.5 / 5	4/4/7	90 / 120 / 180	< 1.4 / <1.4 / <1.3
T70	7.2	9	550	1.3
T100/101	10	13 / 16	750	1.3
T140/141	14	14.5 / 17	1100	1.3
T200/201	18.5	15.5 / 18.5	1100	1.3
ST22 / 42	2.9/4.4	4/5.2	120 / 180	< 1.6 / <1.9
STS52	5.2	8	550	2
T72	7	10.5	750	1.4
T102	11	13	1100	1.4
T / STS 142	14 / 16	15 / 12	1100	1.2 / 1.1
T /STS 202	18 / 20	17 / 14	1500 / 1400	1.25 / 1.2
T / STS 242	23 / 25	17 / 18.5	1500 / 2200	1.3 / 1.2
T / STS 262	27/29	19.5 / 22	2200 / 3000	1.4 / 1.2
STS 282	31	24.5	4000	1



6 / Transfer & suction

Flow rate curves



Note : curves for STS pumps are being re-evaluated.



Programmable dosing pump

Compact and easy to integrate, the SPP[™] STEP peristaltic dosing pump is ideal for intermittent dosing, ensuring maximum precision and superior reliability thanks to its advanced programming features and modularity.



SPP SERIES	Design your o solution! A wide choice of inputs/ou your needs. Conditions can interface.	wnideal htputs to suit all n be set via the	FEATUR Volumetric dosin Scheduled progr Proportional inje pH or redox cont	RES ng with constant amming action with flown rol	flow rate neter
Flow rate (I/h) 1 – 28 Rotation speed (rpm) 65	INPUTS 3 x DI 1 x Analog OUTPUTS 3 x DI	g 4-20mA	Automated cont End-of-product Fault reporting Custom functior	rol detection Is via I/O	
Power (W) 20	Available materials	Flexible hoses Ø6mm, Ø8mm Connectors	Tecknoprene® Polypropylene	Silicone PVDF	Viton® Nylon

SPP SERIES OEM dosing pumps







		SPP 4	SPP 50	SPP 90
$\frac{1}{100} = \frac{1}{100}$	Flow rate (I/h)	0.08 - 3.6	0.94 - 15	20.4 - 126
0.00 - 120	Max pressure (bar)	2	2	2
Rotation speed (rpm)	Rotation speed (rpm)	10 - 60	65 - 125	65 - 240
10 - 240	Power (W)	5 - 12	12 - 45	12 - 45
	Frequency (Hz)	50	50	50
Power(W)	Power supply	24V DC / 230V AC	24V DC / 230V AC	24V DC / 230V AC
5 - 45	Weight (kg)	0.4	1	1 - 1.5

VENTURI NOZZLES Bath agitation

The Venturi technology guarantees energy savings and significant improvement of depot quality, while offering a safer environment.





Limitation of evaporation

Significant reduction of bath evaporation (-90%).

Costs linked to the treatment and removal of effluents greatly reduced.



Energy savings Assists in maintaining

the temperature of the treatment bath. Reduced bath heating and

cooling costs.

(Contraction)

Healthier working conditions

Evaporation reduction greatly improves the air quality within the treatment factory.

3 additional reasons to choose the Venturi agitation:

Avoids bath stagnation and mixes active agents, increases deposition factor.

Improved deposition quality with homogenous layers. Optimal deposition : porosity, hardness, abrasion resistance...

Heat dissipation at the cathode/electrolyte interface. Venturi principle multiplies by 5 the volume of pumped liquid.



Nozzle support Increase the rigidity and durability of the setup. Available in PP, PE, PVDF, and PVC.



Optimization of your bath agitation system.

SIEBEC helps you to get optimal bath agitation to ensure its homogeneity and the proper agitation around the parts, even complex.

Our simulation software determines the number, size and orientation of the nozzles anywhere in the bath.

Each study is unique to answer the specific need of the client.

VENTURI NOZZLES

Materials

Polypropylene (PP) Polyvinylidene fluoride (PVDF) Stainless Steel Applications Electroplating Deoiling Stripping Pre-treatment Anodizing

ACIDVAC

Pneumatic draining vacuum for corrosive fluids

Allows the cleaning and suction of corrosive liquids and sludge. Its robust design is perfectly fit for the most demanding industrial sites.



Option : parts recovery tank Connected in front of the ACIDVAC, it enables the recovery of parts at the bottom of the process tank.

Compatible with BAGTECH[™] bags, it has the possibility to act as a prefilter to filter sludge and other fine residues.





Compressed air powered

Sucks both sludge and liquids up to a height of 3.5 m (d=1).

Automatic stop of the suction once the tank is full.



Easy tank draining

Draining at the bottom, through a wide section hole.

Quick draining of both liquids and sludge, without retention.



Improved work environment

Safer emptying of acid and alkali process tanks

Very low sound level 72 dB(A) only.

Option : external exhaust of toxic fumes.



Industrial versatility

Highly mobile and perfectly suited for industrial sites.

Cleaning of tanks, retention area, floor...

ACIDVAC

Flow rate (liters/min) 140

Dynamic head (m) 3500

Tank capacity (liters)

Materials (body / seals) Polypropylene / EPDM

Sound level (dB(A))

Dimensions (cm) $65 \times 48 \times 150$

02. Filtration & treatment

F

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MC SERIES	Low flow rate filters	12
L SERIES	Medium flow rate filters	12
S SERIES	High flow rate filters	12
P SERIES	Very high flow rate filters	13
J SERIES	Vertical filters	13
H SERIES	De-oiler	13
ELECTRUM	Electrolytic metal recovery	16
R SERIES	Metal recovery on resin	16
ACIDPURE	Acid bath recycling	17
PBNA	Nickel-satin bath treatment	17
MEDIA	Filtration consumables	18



Flow rate $0.7 - 4 \text{ m}^3/\text{h}$

 $\frac{Max\,filtration\,area}{N/A}$

Materials: PP or PVDF Filter height: 4" / 10" / 20" Filtration tank: 1 or 2 Dissolution tank: N/A Parallel or serial filters









Flow rate 1.5 - 18 m³/h

Max filtration area

Materials: PP or PVDF Filter height: 10" / 20" / 30" Filtration tank: 1 or 2 Dissolution tank: 16 liters Parallel filters



Flow rate 10 - 28 m³/h

Max filtration area

Materials: PP GF Filter height: 20" Filtration tank: 1 Dissolution tank: 30 liters











Compatible filtration media

		L-TECH™	STANDARD Cartridges	FILTRATION DISCS	CARBOTECH™	OILTECH™
MC SERIES	Quantity per tank	-	1-2	-	-	1
4" / 10" / 20"	Total filtration area		N/A		N/A	N/A
L SERIES	Quantity per tank	1	7	32 / 64 / 96 (Ø195 mm)	1	1
10" / 20" / 30"	Total filtration area	2.5 - 15 m ²	N/A	0.54 - 5.2 m²	N/A	N/A
S SERIES	Quantity per tank	2	12	60 (Ø258 mm)	2	2
20"	Total filtration area	10 m ²	N/A	3.1 m ²	N/A	N/A

Note : "total filtration area" refers to the maximal filtration area of the range.



Flow rate 16 - 80 m³/h

 $\frac{Max\,filtration\,area}{40\,m^2}$

Materials: PP GF Filter height: 20" Filtration tank: 1 or 2 (20") Dissolution tank: 100 liters Parallel or serial filters



Flow rate 1 - 17 m³/h

Max filtration area $5 \, m^2$

Materials: PP or PVDF Filter height: 10" or 20" Filtration tank: 1(10" or 20") Dissolution tank: not available







H SERIES / OILMAX

Flow rate $4 - 9 \text{ m}^3/\text{h}$

Max filtration area

Materials: PP Filter height: 20" Filtration tank: 1(20") Dissolution tank: not available



skimmer

Compatible filtration media

		L-TECH™	STANDARD CARTRIDGES	FILTRATION DISCS	CARBOTECH™	OILTECH™
P SERIES	Quantity per tank	4	36	54 (Ø456 mm)	46.4 liters	4
20"	Total filtration area	40 m ²	N/A	8.4 - 16.8 m ²	N/A	N/A
J SERIES	Quantity per tank	1/1	1-7	32 / 64 (Ø195 mm)	5.8 / 11.6 liters	1
10" / 20"	Total filtration area	2.5 - 5 m ²	N/A	8.4 - 16.8 m ²	N/A	N/A
H SERIES	Quantity per tank					1
20"	Total filtration area		N/A		N/A	N/A

Note : "total filtration area" refers to the maximal filtration area of the range.

MC/L/S/P/J/H SERIES Standard filters line

SIEBEC plastic filters offer an excellent chemical and mechanical resistance. Able to cover a wide range of flow rates, they enable many treatments and filtrations.

> Consult us for the design of custom made filtration skids

FEATURES & BENEFITS



Quick opening The ergonomic handle enables the one-handed opening of the filter in a few seconds only. [MC, L, J & H SERIES]



Easy integration Fixation legs molded onto the chassis allow for quick and durable installation of SIEBEC filters.



Filtration modularity SIEBEC filters are compatible with a wide range of filtration methods and their media are switchable among them. [SIEBEC Ecosystem]



Draining & dissolution Allows the addition of additives, dissolution of salts, use of filter aid or active carbon as well as draining of the tanks.

SAFETECH™



Pumps protection

- Thermic and dry-running protection.
- Filter clogging detection

AVAILABLE COUPLINGS*

Nozzle



Nut



Flange



Threaded

Materials resistance

	ACIDS	ALKALIS	MAX TEMPERATURE
Polypropylene (PP)	++	++	80°C
Polyvinylidene fluoride (PVDF)	+++	+	110°C
Glass fiber reinforced polypropylene (PP GF)	++	++	80°C
Stainless steel (INOX)	+	+++	150°C

Resistance : - not compatible / + good / ++ very good / +++ excellent

Compatible filtration media



A selection of interchangeable filtration media, compatible with all

SIEBEC filters.



L-TECH[™] Pleated cartridge

Very large filtering surface (5 m² by 20") provided by SIEBEC patented combs. Washable and reusable, this cartridge is economical and durable. Easy handling thanks to its patented folding handle.



CARTRIDGE SET

Fine depth filtration Depth filtration on thermowelded or wound cartridges (7 to 36 per set). Very economical media, quick to replace.



DISC SET

Paper or cloth discs filtration

From 20 to 54 paper filtration discs with the possibility to add actived carbon. Very affordable media but the replacement of discs one-by-one is time-consuming and requires particular care.



BAGTECH

Filtration bag

Monofilament filtration bag, washable and reusable (prefiltration/pump protection). Felt bag for fine particles filtration.



OILTECH™

Deoiling container

Microfibers container to recover oils in filtered fluid. 500 g of PP microfibers can collect 6 liters of oil.



CARBONCANTECHTM

Activated carbon container

Allows the capture of organic pollution present in copper, nickel and others baths. Very efficient for the reduction of soluble pollution in effluents.



MAGTECH™

Magnetic filtration

Collects ferromagnetic particles present in the liquid to filter. Available in 3000 and 11000 Gauss. Ideal upstream of a pleated or depth filter to enhance their performance and life cycle, MAGTECH™ can be coupled with a BAGTECH™.

Precious metals recovery

Devices intended for the recovery of metals contained in diluted or concentrated solutions.





Rapid return on investment



Efficient on all metals



Flow rate (m³/h) 0.7 - 3

Materials

Max temperature (°C)

Filtration Resin



Benefits

Prefiltration at 1 µm on thermowelded cartridge (e.g. QUALITHERM™). Only one run on ion exchange resin required. 2 models available: R3 for volumes under 300 liters, and R12 for volume above.

Acid bath recycling

Balance and concentration control of aluminum in anodizing bath in a completely automatic way in order to ensure constant quality of the treatment.

Other applications: sulfuric acid, nitric acid...



Durable and profitable

investment

((\$

Acid sulfuric consumption reduced by half.

Removal of a significant share of costs linked to maintenance.

Reduction of the environmental impact through acid recycling.

Up to 94% sulfuric acid recovered!

Nickel-satin bath treatment

This automatic treatment station allows the conservation of optimal bath properties.



Filtration media

A wide selection to answer all the needs of surface treatment.



CONSUMABLES & ACCESSORIES Special treatments

A wide range to answer all the needs of the surface treatment industry.



ACTIVATED CARBON

TS special granules

- Made from coconut, which pores structure offers optimal adsorption
- · Formulation specific for Nickel available



PP MICROFIBERS

Deoiling microfibers

- Material: polypropylene
- 500 g collects 6 liters of oil
- Unlimited storage in a dry environment
- Safe to incinerate

RESIN

lon exchange resin

- Strong cationic, strong anionic, weak anionic
- Resin specific for precious metals
- Specific resin for various applications

The essentials

FLOW METERS

Ludion or electronics



- Max temperature depending on the model: 60°C to 100°C.
- Max pressure depending on the model: 12 to 20 bar.
- Sensor/float material: Stainless steel 316L, PVDF or PTFE.
- Body material: PP, PVDF, PVC or PMMA.



SPHERICAL FLOATS

Optimal floating cover

- Available in polypropylene (PP), polyvinylidene fluoride (PVDF) and high density polyethylene (PEHD).
- Compatible with temperatures up to 160°C.
- Many benefits: energy savings, product loss reduction, ice retardant, safer environment, handling of submerged



HULL CELL



- Injection molded cell.
- Available in plexiglas and polypropylene.
- Accessories: air pump, screens for Molher cell and Hull cell agitator.
- Numerous plates available: bright steel, bright zinc-plated steel, brass-plated steel, satin-galvanized steel, stainless steel 304, polished copper and polished brass.
- Wide choice of anodes: silver, copper, copper phosphorus, brass, nickel, lead, tin, tin lead 40/40 and 90/10, stainless steel 316, titanium platinum and zinc.



A question? Need advice? Our experts answer you.

Discover all our innovations on www.siebec.com



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