



AQUA AURA
Leading Technologies



FCP/V

**VERTICAL SCREW SCREEN WITH
COMPACTOR**

FCP/V – VERTICAL SCREW SCREEN WITH COMPACTOR

The screw screen, vertical screw screen or screw screen with compactor is a multi-functional machine for fine screening wastewater, for installing in a channel or steel trough, with integrated screening, washing and compaction operations.

The screw screen allows the separation of solids present in wastewater of municipal and industrial plants; This machine is an essential tool for filtering and conveying liquids and loose materials.

Our product is also available in the vertical version (vertical screw screen) and rotary (rotary screw screen), with or without compactor and tank; the screw screens built by SEFT S.r.l. are rugged, stable and can manage water flow containing a high percentage of solids. Besides, all our versions require low maintenance as well as low initial investment.

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Vertical machine for combined screening, lifting and compaction of the solids present in wastewater. The screw screen intercepts directly the channel or the piping of arrival of water to treat; it is composed by:

- A loading zone with cylindrical or semi cylindrical screen connected to the inlet pipe
- A tubular transport section
- A discharging section with or without compactor

The liquid filtered exits from the basket kept clean by the brushes in nylon bolted on the surface of the screw, while the solids are extracted and discharged. The length of the transport section is variable according to the needs and is available a wide range of holes of filtration.

Advantages

- Low speed of rotation and no intermediate supports
- Self-cleaning with brushes fit on the screw
- Low maintenance and low initial investment
- Considerable reduction of volume and weight at the end of processing (up to 35-40%)
- High percentage of solid removed

Accessories

- Loading basket washing system
- Transport section washing system
- Insulation for transport section / compactor
- Speed variation manual device
- Screening bag-filling system ongoing
- Transport section extension / shortening

MANUFACTURING FEATURES

<i>Inlet flow rate</i>	<i>Up to 1066 m³/h</i>
<i>Loading basket cleaning</i>	<i>With bolted brushes</i>
<i>Conveying length</i>	<i>Variable</i>
<i>Filtering options holes</i>	<i>∅ 3 ÷ ∅ 7 mm 0,25 ÷ 3 wedge wire</i>

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Technical details

Model		FCP/V 20	FCP/V 30	FCP/V 40	FCP/V 50	FCP/V 60	FCP/V 70
ØG	Screw conveyor diameter	mm	219	219	219	219	323
ØH	Inlet basket diameter	mm	219	300	400	500	600
L max	Transport section length	mm	500÷6000				
F	Inlet	DN	150/200	250	250	300	300
	Screen size perforated holes	mm	2-3-4-5-6-7-10				
	Self-cleaning wedge wire	mm	0,25-0,50-1-2-3				
	Motor protection		IP55-IP65				
	Installed power	kW	1,1	1,1	1,1	1,1	1,5
	Speed	rpm	11	11	11	11	8

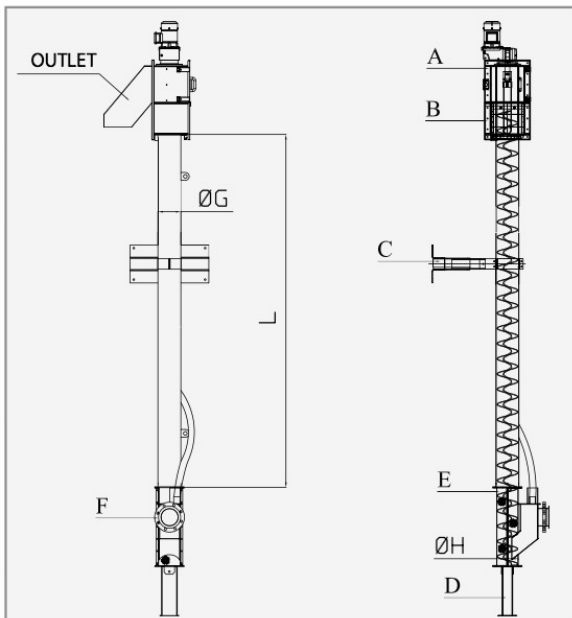
Based on machine configuration, motor power could be different

Theoretical flow rate table

ww = WEDGE WIRE SCREEN
 Ø = PERFORATED SCREEN

data here listed are calculated
 using clear water

FCP/V mm	20	30	40	50	60	70
	m ³ /h					
ww 0,25	17	34	75	115	180	220
ww 0,5	45	64	95	170	300	340
ww 1	50	81	135	252	350	430
ww 2	85	100	145	303	430	580
ww 3	112	125	187	340	505	730
Ø 3	80	122	158	320	502	690
Ø 4	93	137	218	360	528	756
Ø 5	108	158	259	390	612	830
Ø 6	126	164	288	430	630	850
Ø 7	137	183	310	468	730	905



Position	Description
A	discharging zone
B	compacting zone
C	supporting for pipe
D	lower supporting foot
E	draining basket

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