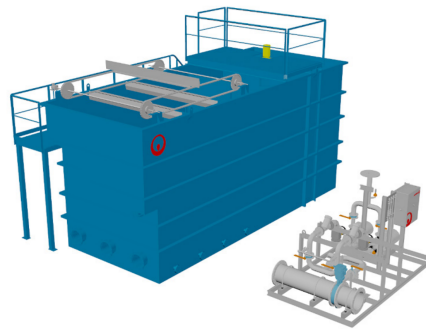
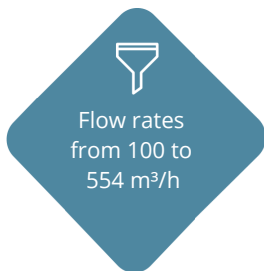


SPIDFLOW™ Pack

Rapid Dissolved Air Flotation

SPIDFLOW® PACK is the new generation of standardized rapid flotation packaged plant. This product range is based on the Spidflow™ process developed by Veolia that uses « white water » special nozzles for unequalled water clarification efficiency. This package plant is integrating the continuous innovation carried out by Veolia in order to always stay on the cutting edge to meet customer needs and performance excellence. It comprises a flocculation step and a clarification phase. The fast flocculation stage use a Turbomix®, especially effective when dealing with cold water.



FEATURES & BENEFITS

- Very compact unit
- High removal efficiency : up to 99% of algae removed, 90% of dissolved oils and hydrocarbons and 95% of TSS
- A significant reduction of the water clogging ability, thanks to excellent clarified water SDI.
- A direct concentration of floating sludge of 25 g/l on average, which does not require an additional thickening stage.
- Extremely quick start-up time: reaches treatment efficiency within few minutes
- Efficient in cold water application
- Flotation velocity up to 35 m/h
- Highly reactive to water quality variation
- Use of multiphasic pump to produce white water: no need for pressurized vessel



APPLICATIONS

- Pretreatment of seawater desalination before a granular or membrane filtration
- Clarification of surface or ground water containing up to 200 mg/l of suspended solids during episodic peak
- Colorful and rich in algae water, organic matter and humic substances
- Process water clarification step



OPTIONS

- Materials of construction suitable for seawater treatment in coastal area
- Access Platform
- Ladder or stairs

HYDREX™ CHEMICALS

Hydrex™ 6000 water treatment chemicals from Veolia Water Technologies should be used for optimized operation.

ASSOCIATED SERVICES

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.





System Operating Parameters

Model	Unit	SFP500-F	SFP600-F	SFP700-F	SFP800-F
Min Feed Flowrate	m³/h	100.00	145.00	200.00	300.00
Max Feed Flowrate	m³/h	186.00	271.00	372.00	554.00
Flocculation Zone Volume	m³	19.00	28.50	38.30	58.50
Injection Zone Surface	m²	1.80	2.50	3.60	5.25
Injection Zone Volume	m³	4.60	6.10	8.60	11.50
Number of White Water Nozzles	-	24	36	48	64
Flotation Surface	m²	6.00	8.75	12.00	17.50
Min White Water Flowrate	m³/h	20.94	30.95	45.62	56.65
Max White Water Flowrate	m³/h	23.09	34.63	47.40	58.29
White water skid model	-	C	D	E	E
Installed Power	kW	11.60	15.78	19.83	19.83
Absorbed Power	kW	10.48	13.71	17.10	19.02

Dimensions (unit in operation)

Model	Unit	SFP500-F	SFP600-F	SFP700-F	SFP800-F
Total Installed Length	m	7.60	8.70	9.70	12.00
Total Installed Width	m	2.70	3.20	3.70	4.20
Total Installed Height	m	4.70	4.70	4.70	4.70
Empty Weight	kg	9 000	10 000	12 000	14 000
Operating Weight	kg	54 000	76 000	102 000	147 000
White water skid Length	m	3.90	3.90	3.90	3.90
White water skid Width	m	2.00	2.00	2.00	2.00
White water skid Height	m	1.90	1.90	1.90	1.90
White water skid Empty Weight	kg	1 100	1 200	1 300	1 400
White water skid Operating Weight	kg	1 700	1 800	1 900	2 000

Pipes Connections

Model	Unit	SFP500-F	SFP600-F	SFP700-F	SFP800-F
Feed	DN	250	300	350	400
Drain ⁽¹⁾	DN	Fc - 50	Fc - 50	Fc - 50	Fc - 65
		In - 25	In - 50	In - 50	In - 50
		Ft - 50	Ft - 50	Ft - 65	Ft - 65
Number of Outlet Pipes	-	2	2	2	3
Outlet	DN	250	300	350	350
White Water Skid Outlet	DN	50	65	80	100

(1) Fc - Flocculation In - Injection Ft - Flotation

Feed water requirements

Parameter	Unit	Value
Minimum water temperature ⁽²⁾	°C	+10
Maximum water temperature	°C	+35
Maximum Inlet particle size	mm	2
Maximum Inlet TSS ⁽³⁾	mg/l	50
Maximum Inlet Turbidity ⁽³⁾	NTU	30

(2) Please consult SOLYS for lower temperatures.

(3) 200 mg TSS/l and 100 NTU acceptable for up to 1h maximum, 3 times per year maximum.

Power requirements⁽⁴⁾

Parameter	Unit	Value
Voltage	V	400
Frequency	Hz	50
Phases	-	3

(4) Other voltage or frequency available on request.