

Multiflo™ Pack

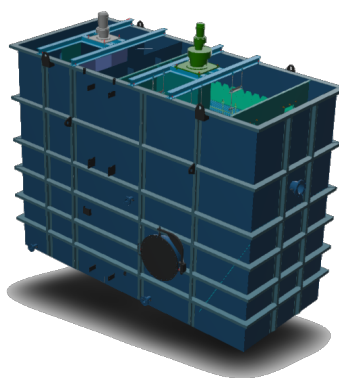


Compact Lamella Settler

Veolia's MULTIFLO™ technology is a universal and multipurpose clarification process. It can meet various needs of municipal and industrial clients. The Multiflo pack is a modular design of packaged plant offering all the advantages of the technology in a standardized product range. It can contain 1 to 3 steel tanks in order to cover 2 to 4 treatment steps.

- 5 Models of flocculation/settling tank
- 3 Models of coagulation tank
- 4 Models of contact tank

Flow rates
from 11 to
289 m³/h



Pharma



Cosmetics



Food



Beverage



Power



Laboratory



Electronics



Hydrogen

General
IndustryDrinking
WaterMunicipal
WW

FEATURES & BENEFITS

- High flocculation efficiency thanks to patented Turbomix technology
- Higher settling velocity than conventional settlers
- Possibility to combine tanks to fit to specific treatment requirements



OPTIONS

- Two different types of lamellas according to the application (STP/Sm: 15 or 9)
- Two different sets of materials of construction: according to water corrosiveness, installation location, environment aggressiveness
- Tank only or equipped with access and security platform (for more details, refer to the scope of supply)
- Scraper upgrade including picket fence & anti-bypass baffle for the sludge central pit

HYDREX® CHEMICALS

Hydrex® 3000 and 6000 water treatment chemicals from Veolia Water Technologies are recommended for optimized plant operation.



APPLICATIONS

For DRINKING & PROCESS water:

- Turbidity and colour removal
- Pesticides & organic matter
- Softening
- Lime water production
- Seawater clarification

For MUNICIPAL WASTE & INDUSTRIAL water:

- Primary
- Primary + Backwash or Biodisks or trickling filters
- Secondary (Post MBBR)
- Tertiary (SS, Phosphorus removal, Carb)

Sludge thickening:

- Actiflo Sludge or Backwash (filters, bio filters)

Other applications:

- Heavy metals removal

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

Flocculation/Settling Tank	Unit	C15351D	C20351D	C25351D	C30351D	C35351D
Min Feed Flowrate ⁽¹⁾	m ³ /h	11	19	30	43	58
Max Feed Flowrate ⁽¹⁾	m ³ /h	45 / 56	78 / 97	120 / 150	171 / 214	231 / 289
Flocculation Zone Volume	m ³	7.61	13.48	20.56	29.14	39.2
Mirror Surface	m ²	2.1	3.8	5.9	8.4	11.3
Total Settling Area	m ²	3.5	5.7	8.4	11.6	15.3

⁽¹⁾ Selection of models must be done according to inlet water characteristics and treatment requirements. For min. flow rate, the value is @5m/h. For max. flow rate, the first value is @20m/h, and the second one is @25m/h for Primary applications only.

Contact Tank	Unit	BC1935	BC2435	BC3035	BC3535
Contact Volume	m ³	9.92	15.83	24.74	33.67

Coagulation Tank	Unit	A1020	A1428	A1935
Coagulation Volume	m ³	1.57	4.31	9.92

System Dimensions⁽²⁾

Flocculation/Settling Tank	Unit	C15351D	C20351D	C25351D	C30351D	C35351D
Total Installed Length	m	4.2	5.2	6.1	7.1	8
Total Installed Width	m	1.95	2.45	2.95	3.45	3.95
Total Installed Height	m	4.55	4.55	4.55	4.55	4.55
Empty Weight	kg	7000	8500	10500	13000	15000
Operating Weight	kg	26000	44000	63000	85000	107000

Contact Tank	Unit	BC1935	BC2435	BC3035	BC3535
Total Installed Length	m	2.2	2.7	3.3	3.8
Total Installed Width	m	2.1	2.6	3.3	3.8
Total Installed Height	m	4.4	4.4	4.4	4.4
Empty Weight	kg	2500	3000	4000	4500
Operating Weight	kg	13000	20000	31000	41000

Coagulation Tank	Unit	A1020	A1428	A1935
Total Installed Length	m	1.3	1.8	2.2
Total Installed Width	m	1.2	1.6	2.1
Total Installed Height	m	4.4	4.4	4.4
Empty Weight	kg	1500	2000	2500
Operating Weight	kg	3000	7000	13000

⁽²⁾ External Dimension and weight of the unit are defined without access or platform. Height of tank includes gear motor.

Pipes Connections

Flocculation/Settling Tank	Unit	C15351D	C20351D	C25351D	C30351D	C35351D
Feed / Outlet	DN	125	150	200	250	300
Sludge	DN	40	50	65	80	100
Drain / Settler Partial Drain	DN	125	150	200	250	300
Flocculation Drain	DN	40	40	50	65	65

Contact Tank	Unit	BC1935	BC2435	BC3035	BC3535
Feed / Outlet	DN	150	200	250	300
Drain	DN	50	50	65	80

Coagulation Tank	Unit	A1020	A1428	A1935
Feed / Outlet	DN	200	300	300
Drain	DN	50	50	50





Feed water Requirements

Parameter	Unit	Value
Minimum water temperature	°C	1
Maximum water temperature	°C	40
Maximum Inlet TSS ⁽³⁾	mg/l	500
Maximum Inlet particle size	mm	6

⁽³⁾ For some Actydin applications, Max inlet TSS can be up to 15 g/l.

Environmental Conditions

Parameter	Unit	Value
Minimum ambient temperature	°C	5
Maximum ambient temperature	°C	35
Maximum humidity	%	90 (100 if option 2)

Materials of Constuction

Tank	Coated carbon steel
Internal Components	Depending on the required options, please see the "scope of supply"

Power Requirements

Version	Value
Voltage	400 VAC
Frequency	50 Hz
Phases	3

Model	Unit	A1020	A1428	A1935
Installed Power	kW	1.10	1.50	1.50

Model	Unit	BC1935	BC2435	BC3035	BC3535
Installed Power	kW	1.50	1.50	1.50	4.00

Model	Unit	C15351D	C20351D	C25351D	C30351D	C35351D
Installed Power	kW	1.00	1.75	1.87	1.87	2.57

Typical Treated Water Quality

Parameter	Unit	Value
TSS Removal Efficiency ⁽⁴⁾	%	80-90
Typical Sludge Concentration ⁽⁵⁾	g/l	10-30

⁽⁴⁾ Except for Actydin applications

⁽⁵⁾ SS concentration factor > 4 for Actydin applications