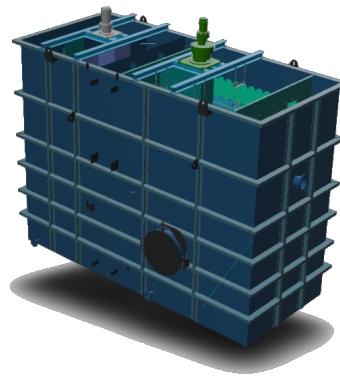
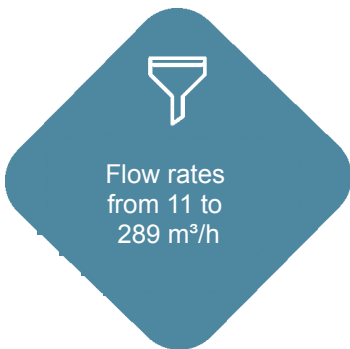


# MULTIFLO™ Pack

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



- Pharma
- Cosmetics
- Food
- Beverage
- Power
- General Industry
- Drinking Water
- Municipal 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 <sup>(1)</sup>	m <sup>3</sup> /h	11	19	30	43	58
Max Feed Flowrate <sup>(1)</sup>	m <sup>3</sup> /h	45 / 56	78 / 97	120 / 150	171 / 214	231 / 289
Flocculation Zone Volume	m <sup>3</sup>	7.61	13.48	20.56	29.14	39.2
Mirror Surface	m <sup>2</sup>	2.1	3.8	5.9	8.4	11.3
Total Settling Area	m <sup>2</sup>	3.5	5.7	8.4	11.6	15.3

<sup>(1)</sup> 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 <sup>3</sup>	9.92	15.83	24.74	33.67

Conagulation Tank	Unit	A1020	A1428	A1935
Coagulation Volume	m <sup>3</sup>	1.57	4.31	9.92

**System Dimensions<sup>(2)</sup>**

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

Conagulation 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

<sup>(2)</sup> 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

Conagulation 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 <sup>(3)</sup>	mg/l	500
Maximum Inlet particle size	mm	6

<sup>(3)</sup> 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	A1020	A1428	A1935
Installed Power	1.1	1.5	1.5

Model	BC1935	BC2435	BC3035	BC3535
Installed Power	1.5	1.5	1.5	4

Model	C15351D	C20351D	C25351D	C30351D	C35351D
Installed Power	0.87	1.62	1.68	1.891	2.629

### Typical Treated Water Quality

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

<sup>(4)</sup> Except for Actydin applications

<sup>(5)</sup> SS concentration factor > 4 for Actydin applications