

# ACTIFLO® PACK ACP2

The Ultimate Microsand enhanced clarifier

The Actiflo Pack is a very compact and fully standardized clarifier package plant. It can be used for various applications such as drinking water, waste water treatment, re-use or process water.

This product range is based on the Actiflo process developed by Veolia that uses microsand and polymer in the flocculation tank to increase settling velocity. Veolia has more than 20 years of design, commissioning and operational experience. Over 1,800 Actiflo units have been installed worldwide by Veolia, including more than 900 package plants.

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



## Features & Benefits

- High treatment efficiency: turbidity and TSS removal up to > 99%; treats all water and wastewater sources
- Extremely quick start-up time: reaches treatment efficiency within few minutes
- Process stability: the microsand buffers the effect of raw water flow or load variations, making the process very user friendly and easy to operate
- Efficient in cold water applications: suitable for use also in Nordic regions
- Fully standardized design: complete documentation readily available
- Numerous standard options and alternatives to enhance performances and monitoring

## Related Services

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

## Applications

- Surface and ground water treatment
- Very high or very low turbidity water and wastewater
- Primary, secondary and tertiary clarification of wastewater
- Treatment of biofilter backwash water and trickling filter effluents
- Stormwater and combined sewer overflow treatment, reverting to effluent polishing during dry weather
- Industrial process water treatment
- Pre-treatment to membrane and ion exchange systems
- Industrial wastewater treatment in all market segments, including leachate and run-off water
- Recycling/Reuse of municipal and industrial effluents

## Hydrex™ Chemicals

Hydrex™ 3000, 6000 & 9000 water treatment chemicals from Veolia Water Technologies are recommended for optimized plant operation.

## System Performances

Model	Unit	ACP2-15	ACP2-30	ACP2-40	ACP2-45	ACP2-55	ACP2-60	ACP2-70	ACP2-75
Min flowrate <sup>(1)</sup>	m <sup>3</sup> /h	13	25	38	50	75	100	156	178
	US gpm	55	110	165	220	330	440	688	784
Max flow rate <sup>(1)</sup>	m <sup>3</sup> /h	125	250	375	500	750	1000	1563	1781
	US gpm	550	1 101	1 651	2 201	3 302	4 403	6 879	7 842

(1) Selection of models must be done according to inlet water characteristics and treatment requirements.

## Dimension

Model	Unit	ACP2-15	ACP2-30	ACP2-40	ACP2-45	ACP2-55	ACP2-60	ACP2-70	ACP2-75
Length <sup>(2)</sup>	m	4,2	5,8	6,9	8,6	10,1	11,4	13,5	14,4
	ft	13,8	19,0	22,6	28,2	33,1	37,4	44,3	47,2
Width <sup>(2)</sup>	m	3,1	3,3	3,7	3,8	4,4	5,1	5,6	5,8
	ft	10,2	10,8	12,1	12,5	14,4	16,7	18,4	19,0
Height <sup>(2)</sup>	m	4,9	5,1	5,4	5,5	5,6	5,9	6,4	6,4
	ft	16,1	16,7	17,7	18,0	18,4	19,4	21,0	21,0
Clearance Height	m	5,9	6,1	6,4	6,5	6,6	6,9	7,4	7,4
	ft	19,4	20,0	21,0	21,3	21,6	22,6	24,3	24,3
Empty Tank weight	kg	4 000	7 000	8 100	9 100	11 500	15 500	18 200	21 700
	lb	8 800	15 400	17 820	20 020	25 300	34 100	40 040	47 740
Operating Weight	kg	26 000	37 500	53 000	64 000	90 000	122 000	180 000	200 000
	lb	57 200	82 500	116 600	140 800	198 000	268 400	396 000	440 000

(2) Including recirculation line(s), ladder and embedded control panel.

## Feed water requirements

Parameter	Unit	Value
Minimum water temperature	°C	2
	°F	35
Maximum water temperature	°C	40
	°F	104
Max inlet TSS <sup>(3)</sup>	ppm	5000
Max inlet Turbidity <sup>(3)</sup>	NTU	2 000
Max inlet particle size	mm	2

(3) For some applications, max acceptable inlet TSS.

## Materials

Tank <sup>(5)</sup>	Coated Carbon steel
Internal components <sup>(5)</sup>	SS304L
Recirculation pipework <sup>(5)</sup>	HDPE

(5) Other materials available on request.

## Environmental conditions

Parameter	Unit	Value
Minimum ambient temperature <sup>(4)</sup>	°C	5
	°F	41
Maximum ambient temperature <sup>(4)</sup>	°C	35
	°F	95
Max humidity <sup>(4)</sup>	%	90

(4) Standard design can be modified on request to be suitable for other environmental conditions.

## Power requirements

Version	ISO (Spain)	ISO (China)	ASME (US)	ASME (Canada)
Voltage <sup>(6)</sup>	400 V	400 V	460 V	575 V
Frequency	50 Hz	50 Hz	60 Hz	60 Hz
Phases	3	3	3	3

(6) Other voltages available on request.

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