

# Megacell H

Super efficient horizontal Dissolved Air Flotation (DAF) clarifier



Sophisticated, patented technology and use of “U” shaped elements provide maximum flowrate per surface area and flowrate per unit of capital investment.

The heart of the MEGACELL H is a horizontal range of special “U” shaped elements that allows the use of both co-current and counter-current lamella clarification. The result is a very high hydraulic and solids capacity with excellent clarification efficiency.

MEGACELL H is typically designed with a conical bottom.

The device is designed for maximum efficiency with practically no maintenance.

## Advantages

- Extremely compact and efficient clarifier - with surface hydraulic loading rate up to 30 m/h
- Lower capital cost versus traditional rectangular units for equal flows
- Highly energy efficient - very high level of clarification with significantly lower pressurisation rate compared to traditional DAF clarifiers
- Minimises polymer consumption by optimising flocculation with extended mixing time in presence of air bubbles and polymer

## Product Applications

- White water clarification and fibre recovery in the paper industry
- Clarification of de-inking effluents
- Clarification of food and industrial effluents in combination with physical-chemical treatment
- Biological tertiary treatment

The MEGACELL H is equipped with a high performance and mechanically strong floated sludge removal device. The scraping and the sludge extraction are separated in order to provide optimal fulfilment of these functions.

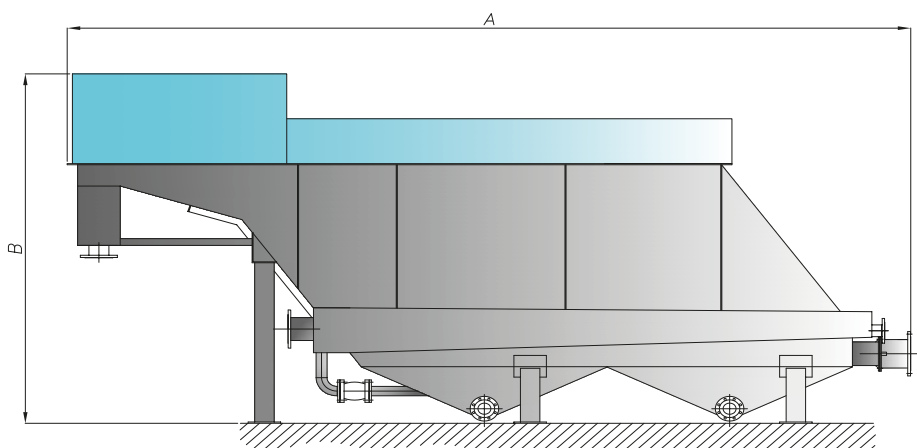
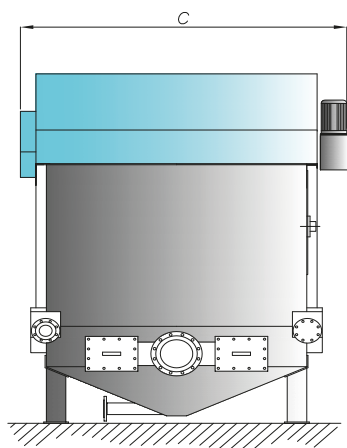
This combination avoids the use of rubber gaskets commonly used in conventional scrapers pushing and extracting the floated sludge.

**Check out the video!**

**Megacell H is available in 16 sizes for flows from 25 to 1250 m<sup>3</sup>/h.**



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Type	Max. flow (m <sup>3</sup> /h)*	Motor scraper (kW)	Motor paddle wheel (kW)	A (mm)	B (mm)	C (mm)	Weight full of water (tons)
MCH 2	25	-	0,18	3000	2800	1700	2,5
MCH 4	50	0,18	-	3800	2900	1700	4,5
MCH 6	75	0,18	-	3900	2900	2000	8
MCH 8	100	0,18	-	4000	3000	2500	11,5
MCH 12	150	0,25	-	4600	3000	2500	14,5
MCH 16	200	0,25	-	5600	3000	2500	18
MCH 20	250	0,37	-	6200	3000	2500	22
MCH 25	312	0,37	-	7600	3000	2500	28
MCH 30	375	0,37	-	8600	3000	2500	35
MCH 40	500	0,37	-	10600	3000	2500	44
MCH 50	625	0,55	-	10800	3000	2500	52
MCH 50 double	625	1,5	0,75	8300	3300	4600	55
MCH 60 flat bottom	750	0,55	-	11400	3250	3300	66
MCH 60 double	750	1,5	0,75	10100	3300	4600	67
MCH 80 double	1000	1,5	0,75	12100	3800	4600	116
MCH 100 double	1250	1,5	0,75	13700	3800	4950	165

\* The maximum flow includes recycle flow and is dependent on suspended solids loading and the application.

KWI specialists have vast expertise and experience ranging from engineering to building and commissioning, and from investment to operation.

**Let's work together to make your project a success!**

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