KĀDANT

FIBER PROCESSING

Radiclone™ AM80 Hydrocycloning Systems

For high-efficiency removal of heavy-weight contaminants and fractionation

Perfect for applications with a high demand for pulp and paper cleanliness

Specifically designed for Kadant AM80 hydrocyclones

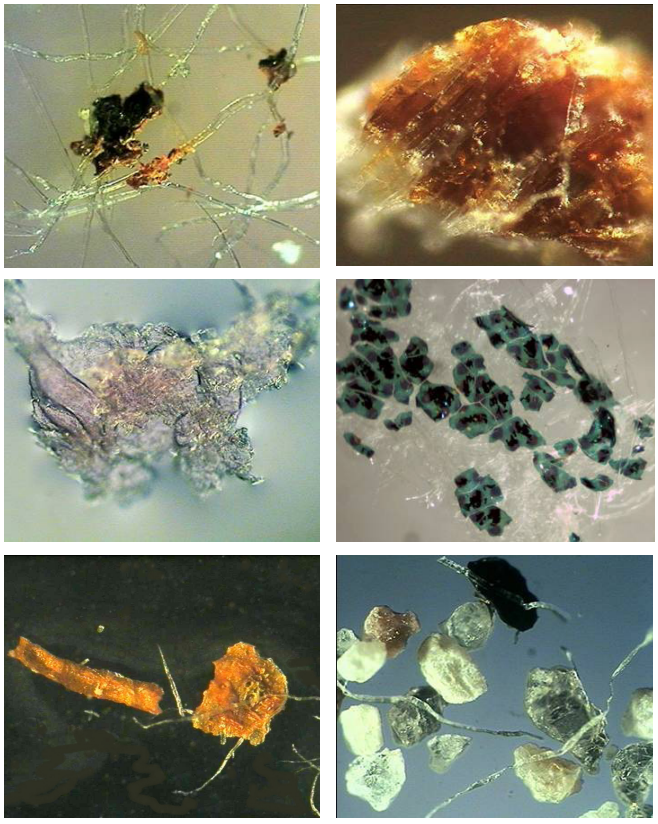
Radiclone AM80
Hydrocycloning Systems

High-performance cleaning

Radiclone AM80 systems are used in all applications with a high demand for pulp and paper cleanliness. The low operating and maintenance costs in conjunction with the high-performance cleaning capability offer efficient fiber processing for heavy-weight contaminant removal and fractionation.

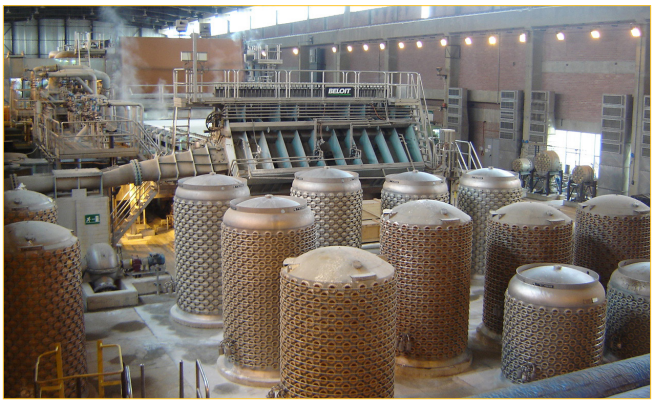
Efficient Contaminant Removal

Radiclone AM80 systems feature one of the highest removal efficiencies available for heavyweight contaminants, such as sand, rust, pitch, coal, ink, bark, and shives.



Benefits

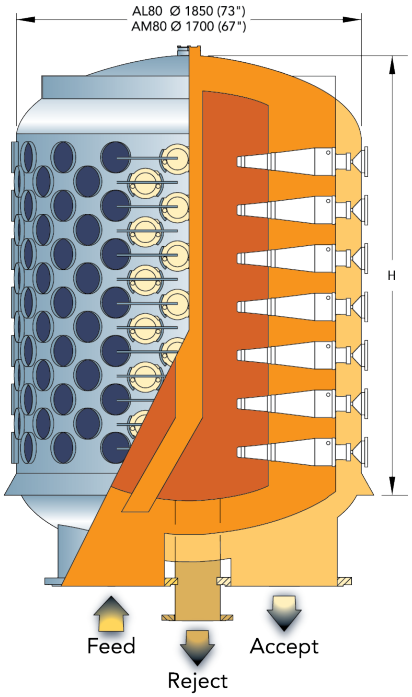
- **Low power consumption -** Optimized and functional design ensures low energy consumption at high operational reliability.
- **High separation efficiency -** Leads to improved sheet quality with excellent visual appearance.
- **Compact design -** Minimized cost and required floor space.
- **Reliable operation -** Practically plug-free design offers smooth performance and continuous operation.
- **Hydrocyclone fractionation -** Tailor-made solutions for specific quality requirements.



Radiclone installation

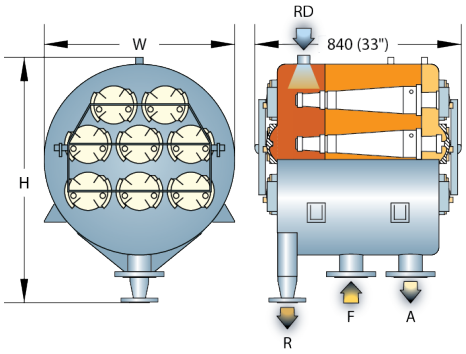
For high quality pulp, paper, and board

Specifications



Quality and Flexibility

The Radiclone AM80 is a pressurized canister manufactured of stainless steel EN 1.4404 (316L) in which 80 mm (3") diameter hydrocyclones are installed. A wide range of sizes and system configurations are available.



Models AL80-600 to AM80-50

Model Size	Capacity w/ AM80-C hydrocyclones l/min	Capacity w/ AM80-D hydrocyclones l/min	Height (H)		Feed		Accept		Reject		RD
			mm	in	mm	in	mm	in	mm	in	in
AL80-600	60,000	78,000	3,550	140	600	24	600	24	250	10	-
AL80-550	55,000	71,500	3,320	131	600	24	600	24	250	10	-
AL80-500	50,000	65,000	3,090	122	600	24	600	24	250	10	-
AL80-450	45,000	58,500	2,860	113	600	24	600	24	250	10	-
AL80-400	40,000	52,000	2,630	104	600	24	600	24	250	10	-
AL80-350	35,000	45,500	2,400	94	600	24	600	24	250	10	-
AL80-300	30,000	39,000	2,170	85	600	24	600	24	250	10	-
AM80-250	25,000	32,500	1,840	72	400	16	400	16	150	6	3
AM80-200	20,000	26,000	1,610	63	400	16	400	16	150	6	3
AM80-175	17,500	22,750	1,495	59	400	16	400	16	150	6	3
AM80-150	15,000	19,500	1,380	54	400	16	400	16	150	6	3
AM80-125	12,500	16,250	1,265	50	400	16	400	16	150	6	3
AM80-100	10,000	13,000	1,150	45	250	10	250	10	100	4	3
AM80-75	7,500	9,750	10,35	41	250	10	250	10	100	4	3
AM80-50	5,000	6,500	920	36	250	10	250	10	100	4	3

Models AM80-34 to AM80-4

Model Size	Capacity w/ AM80-C hydrocyclones l/min	Capacity w/ AM80-D hydrocyclones l/min	Height (H)		Width (W)		Feed		Accept		Reject		RD
			mm	in	mm	in	mm	in	mm	in	mm	in	in
AM80-34	3,400	4,420	1,700	67	1,300	51	150	6	150	6	80	3	2
AM80-20	2,000	2,600	1,267	50	950	37	150	6	150	6	50	2	2
AM80-12	1,200	1,560	1,023	40	750	30	100	4	100	4	50	2	1 1/2 *
AM80-8	800	1,040	905	36	650	26	80	3	80	3	50	2	1 1/2 *
AM80-4	400	520	678	27	450	18	80	3	80	3	50	2	1 1/4 *

Specifications and information subject to change without notice.
General dimensions and not certified for construction or installation.

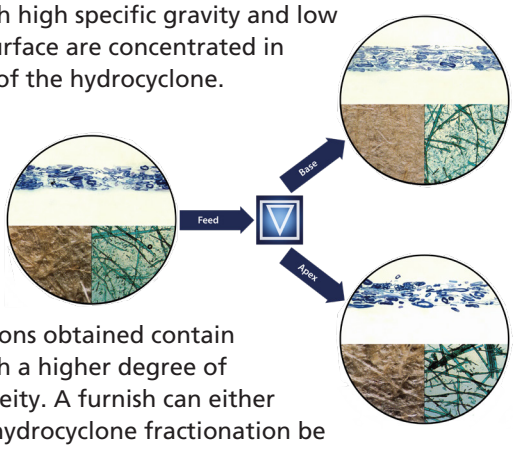
*Pipe thread

Fractionation

Tailor-made solutions

The hydrocyclones used for fiber fractionation are specially developed to separate fibers according to specific gravity and specific surface.

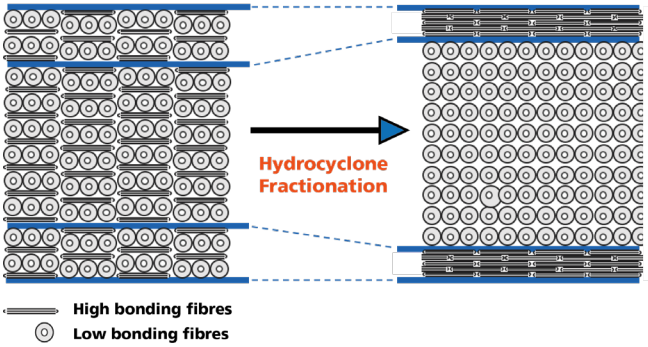
Low specific gravity, high specific surface fibers with good bonding and surface properties are concentrated in the base of the hydrocyclone while thick-walled fibers with high specific gravity and low specific surface are concentrated in the apex of the hydrocyclone.



The fractions obtained contain fibers with a higher degree of homogeneity. A furnish can either through hydrocyclone fractionation be divided into two or more pulps suitable for specific and improved end-products, or it can be developed into a more homogeneous pulp with improved quality.

Smart Mulit-layer Products

Hydrocyclone fractionation is also used in multi-layer products where bulky fibers are separated for the middle layer and the thin-walled, easily collapsible fibers for the outer layers, which in total improves the surface smoothness and the board stiffness.



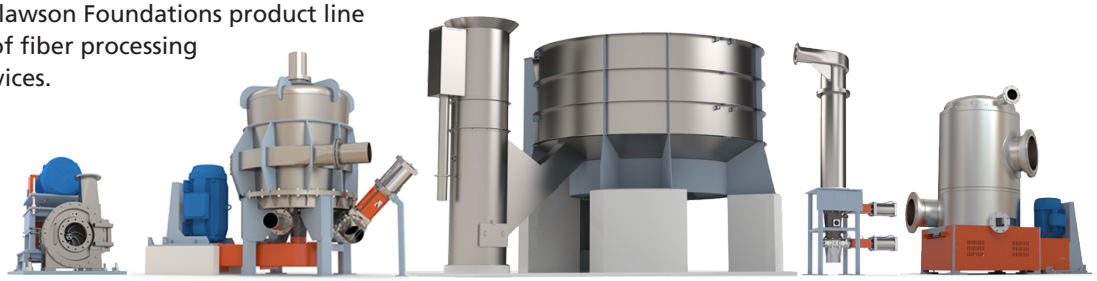
Efficient hydrocyclones

Kadant AM80 hydrocyclones are manufactured in different elastic plastic materials to resist heat, chemicals, and wear depending on the application. Each hydrocyclone type is optimized based on pressure drop and flow to obtain the best system efficiency.

Certified Parts and Service 24 Hour Hotline for North America: 1-800-448-5422

Hydrocyclones designed for practically plug-free operation.

The Kadant Black Clawson Foundations product line offers a full range of fiber processing equipment and services.



For patent information about this and other Kadant products visit https://kadant.com/en/patents

KADANT

fiberprocessing.kadant.com Kadant is a global supplier of high-value, critical components and engineered systems used in process industries worldwide.

North America, Central America, and Japan:

Kadant Black Clawson LLC
1425 Kingsview Drive
Lebanon, OH 45036 USA
Tel: +1-513-229-8100
Email: info@kadant.com

China, Taiwan, and South Korea:

Kadant Fiberline (China) Co. Ltd.
STE 1960, Beijing Sunflower Tower
37 Maizidian Street, Chaoyang District, Beijing 100125 China
Phone: +86-10-65813011/12/13
Email: Marketing.KFC@kadant.com

EMEA, APAC, and South America:

Kadant Lamort SAS
39, rue de la Fontaine Ludot,
B. P. 30046
Vitry-le-Francois cedex 51302
Phone: +33-26-74-80-80
Email: kadant.lamort@kadant.com

Kadant Noss AB
Malmgatan 25
602 23 Norrkoping, Sweden
Phone: +46-(0)-11-23-15-00
Email: info.kadantnoss@kadant.com

Radiclone AM80

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