

4000 Series **Gravity Strainer**

ISO 9001 Registered

KĀDANT

Proven reliability

AES Engineered Systems' Gravity Strainers have been the industry standard in pulp and paper mills for over 25 years. Over 1,000 of these highly reliable and efficient units are installed worldwide. Ideally suited for a wide range of applications, it is non-pressurized, easy and economical to operate, has few moving parts, and is capable of handling flow rates in excess of 2,800 gallons per minute.

Process advantages

The AES 4000 can effectively remove long and short fibers, felt hair, and granular solids from process water. It can also handle system upsets and slugs, without sacrificing the filtered water quality. In many applications, upsets to equipment or process upstream of the gravity unit will result in a large increase in fibrous contaminants. The 4000 Strainer continues to deliver strained water downstream, with a possible temporary rise in reject flow.

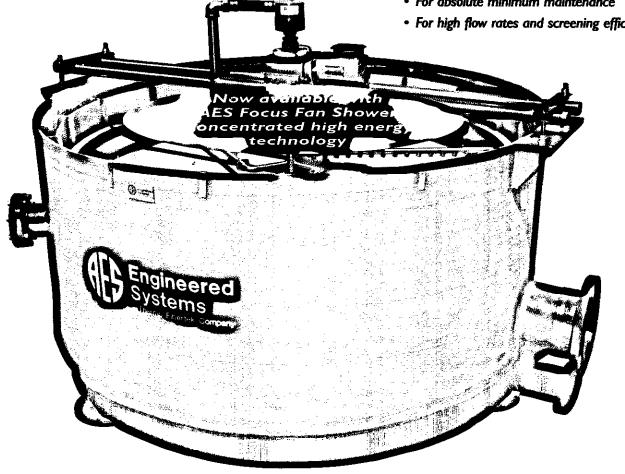
Designed for efficiency

The very high efficiency of the AES 4000 is due to the controlled flow over the media surface and the gentle separation forces. Filtered solids are continuously washed inward to the center of the screen by the strainer's rotating showers and discharged into the center reject port. The screen is returned to full effectiveness without manual attention even after an upset condition is encountered.

Easy performance monitoring

The 4000's low pressure shower and drive are easily accessible from the top of the strainer and its construction allows quick and easy monitoring of media conditions and performance. Removable flow distributors assure an even flow of the influent onto the stationary screen.

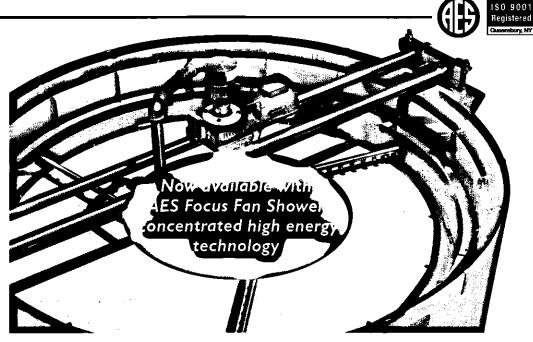
- For increased solids removal
- For energy and water conservation
- For absolute minimum maintenance
- For high flow rates and screening efficiency

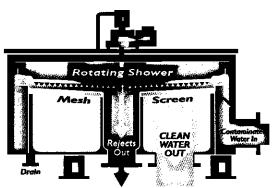


4000 Series **Gravity Strainer**

How it works

Water to be filtered is piped into and channeled around the periphery of the tank. It flows upward and through a weir assembly for even distribution over a fine screen mesh (40 to 200 mesh.) The water is filtered here leaving fibers and solids on the screen. Clean water is then collected in the strainer's bottom and flows from the unit. A continually rotating shower above the screen washes the rejects toward the center opening and the reject pipe for discharge.





Gravity	Flow Capacity	Nominal	Nominal	Inlet/Reject	Accept	Dry	Weight
Strainer	Range **	Diameter	Height *	Connection	Connection		— Wet
Model	GPM / Ipm	In. / cm	In. / cm	In. / cm	In. / cm		. / kg
4005	96 - 610	6i	59	6	10	800	4500
	365 - 2310	155	150	15	25	363	2040
4015	163 - 1037	73	69	8	12	975	7150
	615 - 3925	185	176	20	30	442	3243
4025	24i - 1537	85	72	1 0	14	1 300	9000
	910 - 5820	215	183	25	35	590	4082
4035	338 - 2153	97	75	12	16	1425	11050
	1280 - 8150	245	190	30	40	646	5011
4045	511 - 3257	115	78	14 ***.	!8	1760	1 6500
	1935 - 12330	290	198	35	45	798	7483

^{**} Capacity can vary depending on inlet loading and screen mest

Features

Benefits

High flow rates	Lower cost per gallon processed
Relatively high solids loading	Careful sizing, less equipment minimizes "installed cost"
Gravity feed	Eliminates pumping costcan be gravity fed
Shower rotation by small, fractional 1/2 HP 3-phase motor	Minimal power cost
Continuous media cleaning with rotating multiple showers	Maximum throughput, minimal downtime, high efficiency
Shower utilizes strainer accepts	No fresh water requirements
Completely assembled—can be placed above existing tanks	Inexpensive installation
Wide range of media—easily changed	Adaptable for many applications
Cleaning shower assembly is the only moving part	Minimal maintenance and downtime
Corrosion-free fiberglass standard: stainless steel optional	Optimal cost/life ratio for your particular conditions

Kādant AES Canada Pointe Claire, Quebec, Canada Tel: 514-695-7110 - Fax: 514-695-4836

Kådant UK Ltd. Bury, Lancashire, England Tel: 161 7649111 - Fax: 161 7971496

Licensee: C.B.T.I. Valinhos S.P. Brazil Tel: 1938 710100 - Fax 1938 710093 Kādant AES Mexico Guadalajara, Jalisco, Mexico Tel: 33-38 12 43 55 - Fax: 33-38 12 43 03

Kādant Lamort Vitry-le-Francois, France Tel: 32 67 48 080 - Fax: 32 67 20 833

Licensee: Kobayashi Engineering Works Fuji-Shi, Shizuoka-ken, Japan Tel: 545 61 2405 - Fax 545 63 4570



AN ACCENT ON INNOVATION

Kādant AES

Queensbury, New York 12804 USA Phone: 518-793-8801 Fax: 518-793-9392

^{*} Height of support legs can vary to suit application

Gravity Strainers

Simple, efficient. designed for economical results.

Mills worldwide value AES Engineered Systems strainers for their outstanding economical and reliable performance in many papermaking applications.

- AES Gravity Strainers are in use polishing white water for showers, removing felt hairs from recycled press water, on pulp mill applications, on deckers, stock washers and on savealls-even on mill influent systems.
- Benefits include substantial energy and water savings, highly effective fiber and solids removal and reliable operation even when upsets and slugs occur.

M 300-499 PP	M 500-798 PPM	800-1000
45 316 119	5 250 945	158
40 191 72	5 152 575	96
10. 697 2640	0 553 2095	248 13
25 537 2030	CONTRACTOR ACTIONS	348 13 268 10
20, 60, 200,	420 1010	200 10
95 325 1230	258 975	163 (
55 1033 3910	319 3100	516 19
95 795 3010	631 2390	398 15
50 482 1825	383 1550	241 9
30 1447 5475	1148 4345	724 27
55 1114 4215	884 3345	557 21
10 676 2560		338 12
		1094 41
		843 31
		772 29
	0 1686 6380 5 1543 5840	0 1686 6380 1337 5060 5 1543 5840 1224 4635

Gravity Strainer

	REJECT OUT	SCREEM CLEAM WATER OUT	
			7
•			

ROTATING

	Flow Capacity	Nominal	Nominal	inlet/Reject	Accept	Gross Weight	
	Range"" GPM	Diameter In	Height*	Connection In	Connection In	Dry LBS	Flooded LBS
Model	ipm	cm	cm	cm	cm	Kg	Kg
4005	96 - 610	61	59	6	10	725	287
	365 - 2310	155	150	15	25	330	130
4015	163 - 1037	73	66	8	12	825	515
	615 - 3925	185	170	20	30	375	233
4025	241 - 1537	85	72	10	14	1108	778
	910 - 5820	215	185	25	35	500	349
4035	338 - 2153	97	73	12	16	1225	10756
	1280 - 8150	245	185	30	40	555	487
4045	511 - 3257	115	87	14	18	1560	15000
	1935 - 12330	290	220	35	45	710	680

Capacity can vary depending on inlet loading and screen mesh.