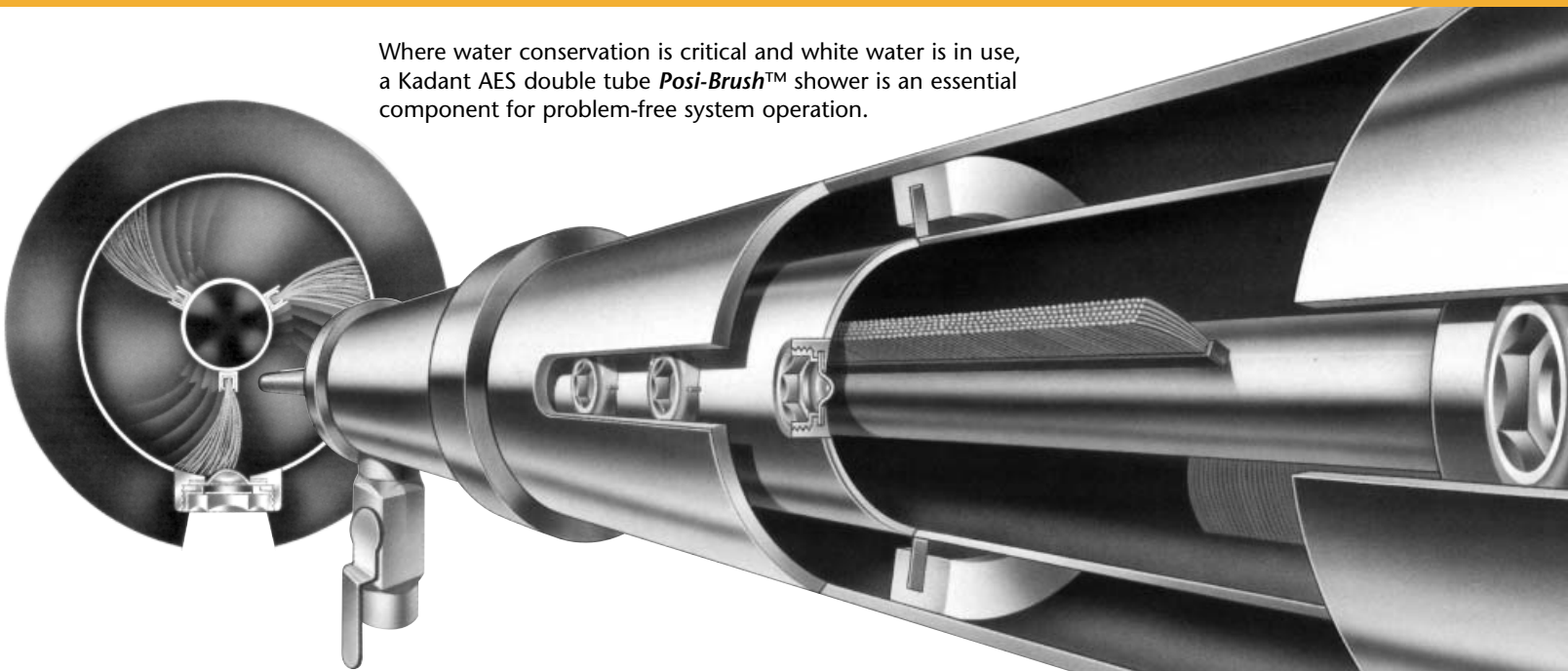


2050-2051 Posi-Brush™ Double Tube White Water Shower System

Where water conservation is critical and white water is in use, a Kadant AES double tube *Posi-Brush™* shower is an essential component for problem-free system operation.



Efficient system design

Kadant AES double tube Posi-Brush™ showers are designed and built for applications using filtered fresh or recycled process water. Full length, internal stainless steel brushes clean the full internal pipe circumference and the nozzle orifices which protrude inside the pipe. This comprehensive sweep prevents solids build-up, eliminates contamination problems and directs loosened debris to the integral flush valve.

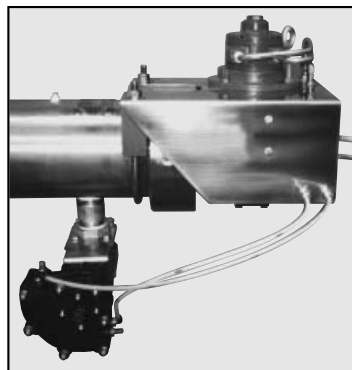
Safe operation and maintenance

Kadant AES double tube Posi-Brush™ showers are available for either stationary (type 2050) or oscillating (type 2051) applications. They incorporate design features to ensure operator safety. The drive component for the oscillating 2051 is completely enclosed with all moving parts protected and guarded, eliminating hazardous pinch points.

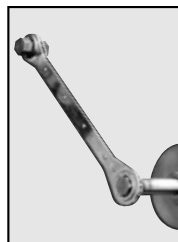
Effective manual or automatic cleaning

Removing contaminants from the nozzles and flow pipe is a simple process. The showers are supplied with standard manual cleaning or optional automated cleaning using the Kadant AES Auto Brush Actuator™.

Manual cleaning, with the standard ratchet wrench or optional handwheel, involves opening the flush valve and rotating the brushes 360° in both directions. The loosened contaminant flows through the flush valve and is disposed off process without contaminating the paper machine or product. The brushes are returned to 'park' position, the flush valve is closed and the shower is ready to continue operating.



The optional Auto Brush Actuator™ performs the entire nozzle and flow pipe cleaning process through a user selected and programmed time cycle. The assembly consists of a control panel, air motor, gear reducer and blow down valve actuator. It can be retrofitted to existing Kadant AES brush showers.



A ratchet wrench with an integral nozzle removal head is standard supply. A handwheel is optional.

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2050-2051 Posi-Brush™

Double Tube White Water Shower System

Applications

- Forming, Pressing and Dryer fabric cleaning
- Extractor belt cleaning
- Paper machine roll cleaning and lubricating
- Filter press belt cleaning
- Replace existing fresh water showers

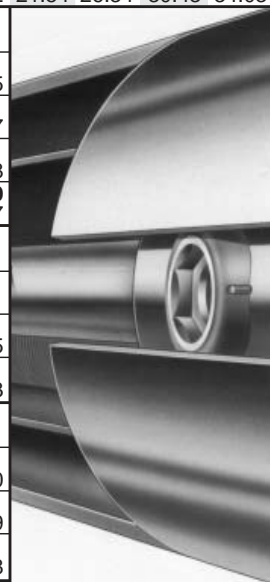
Benefits

- Permits reuse of process water
- Reduces energy requirements to heat fresh water
- Reduces pH control problems
- Minimal maintenance and reduced downtime
- Reduces mill effluent
- Improved fabric, felt, roll and dryer fabric performance
- Improved product quality

Features

- Provides positive cleaning of nozzle orifices and full pipe I.D.
- Off process purging with flush valve
- Superior full width, self-supporting brush design
- Flow pipe can be safely removed when machine is running without removing the outer tube or brackets
- Loose nozzles cannot fall into machine
- Oscillator totally enclosed for safety
- High and low pressure designs with jet nozzles and fan nozzles to 60°
- Easily replaceable brush segments
- Hydraulic or EMO III electro-mechanical oscillation available
- Positive brush "park" position assures brushes do not interrupt flow
- Oscillator fail-safe system
- Wear resistant polymer internal bearings—easily replaced if required
- Strong design is damage resistant

NOZZLE PRESSURE		PSI	20	40	60	80	100	125	150	200	250	300	400	600	800	1000
		BAR	1.5	3.0	4.0	6.0	7.0	9.0	10	14	17	21	28	41	55	69
NOZZLE	ORIFICE in./mm	FAN ANGLE	NOZZLE FLOW: Gallons Per Minute/Litres Per Minute													
2227GP 7	.028 .71	JET	.064	.090	.110	.128	.143	.160	.175	.202	.226	.247	.285	.349	.403	.451
			.242	.341	4.16	.484	.541	6.04	.662	.765	.855	.935	1.08	1.32	1.53	1.71
			.089	.125	.153	.177	.198	.222	.243	.280	.313	.343	.396	.485	.560	.626
			.337	.473	.579	.669	.749	.840	.920	1.06	1.19	1.30	1.50	1.84	2.12	2.37
			.130	.184	.225	.260	.291	.326	.356	.412	.460	.504	.582	.713	.823	.920
			.492	.696	.851	.984	1.10	1.23	1.35	1.56	1.74	1.91	2.20	2.70	3.12	3.48
			.246	.348	.426	.492	.550	.615	.674	.778	.870	.953	1.10	1.35	1.56	1.74
			.931	1.32	1.61	1.86	2.08	2.33	2.55	2.94	3.29	3.61	4.16	5.11	5.91	6.59
			.399	.564	.690	.797	.891	.999	1.09	1.26	1.41	1.54	1.78	2.18	2.52	2.82
			1.51	2.13	2.61	3.02	3.37	3.78	4.13	4.77	5.34	5.83	6.74	8.25	9.54	10.67
.070	.094	.125	.153	.177	.198	.222	.243	.280	.313	.343	.396	.485	.560	.626		
1.78	2.39	3.18	4.81	6.81	8.33	9.61	10.75	12.02	13.17	15.22	16.99	18.62	21.54	26.34	30.43	34.03
C14506 GP7	.055 1.4	30°	.27	.38	.46	.54	.60	.67	.73	.85	.95	1.04				
			1.02	1.44	1.74	2.04	2.27	2.54	2.76	3.22	3.60	3.94				
			.85	1.20	1.47	1.70	1.90	2.12	2.33	2.69	3.00	3.29				
			3.22	4.54	5.56	6.43	7.19	8.02	8.82	10.18	11.36	12.45				
			1.43	2.02	2.48	2.86	3.20	3.58	3.92	4.53	5.06	5.54				
			5.41	7.65	9.39	10.83	12.11	13.55	14.84	17.15	19.15	20.97				
GP8	.094 2.39	30°	2.31	3.27	4.00	4.62	5.17	5.78	6.33	7.31	8.17	8.95				
			8.74	12.38	15.14	17.49	19.57	21.88	23.96	27.67	30.92	33.88				
			3.35	4.74	5.81	6.71	7.50	8.39	9.19	10.61	11.86	12.99				
			12.68	17.94	21.99	25.40	28.39	31.76	34.78	40.16	44.89	49.17				
			.38	.54	.66	.76	.85	.95	1.04	1.20	1.34	1.47				
1.44	2.04	2.50	2.88	3.22	3.60	3.94	4.54	5.07	5.56							
GP3	.070 1.78	45°	.52	.74	.91	1.05	1.17	1.31	1.44	1.66	1.86	2.03				
			1.97	2.80	3.44	3.97	4.43	4.96	5.45	6.28	7.04	7.68				
			.85	1.20	1.47	1.70	1.90	2.12	2.33	2.69	3.00	3.29				
3.22	4.54	5.56	6.43	7.19	8.02	8.82	10.18	11.36	12.45							
GP13	.094 2.39	45°	1.62	2.29	2.80	3.24	3.62	4.05	4.43	5.12	5.72	6.27				
			6.13	8.67	10.60	12.26	13.70	15.33	16.77	19.38	21.65	23.73				
C14506 GP14	.055 1.4	60°	.40	.57	.70	.80	.90	1.01	1.10	1.27	1.42	1.56				
			1.51	2.16	2.65	3.03	3.41	3.82	4.16	4.81	5.37	5.90				
			.89	1.26	1.55	1.79	2.00	2.24	2.45	2.83	3.16	3.46				
			3.37	4.77	5.87	6.78	7.57	8.48	9.27	10.71	11.96	13.10				
GP15	.094 2.39	60°	1.52	2.15	2.63	3.04	3.40	3.80	4.16	4.81	5.38	5.89				
			5.75	8.14	9.95	11.51	12.87	14.38	15.75	18.21	20.36	22.29				
GP17	.125 3.18	60°	2.24	3.16	3.87	4.47	5.00	5.59	6.12	7.07	7.91	8.66				
			8.48	11.96	14.65	16.92	18.93	21.16	23.16	26.76	29.94	32.78				
GP18	.156 3.96	60°														



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