

Double Tube Showers

Applications

The Model 2000 Shower is used for all high pressure cleaning applications. The design is especially effective where space is limited, such as suction rolls and twin wire formers. Additional applications include drum washers and drum save-alls, lime mud filters, and non-woven machine fabric cleaning.

Features

- ▶ Internal shower can be safely removed without removing the outer pipe or brackets
- ▶ Oscillator totally enclosed for safety
- ▶ Oscillator fail-safe system

Benefits

- ▶ Improved fabric and roll performance
- ▶ Improved product quality by reducing defects
- ▶ Minimal maintenance—reduces downtime
- ▶ Strong, simple design—less prone to damage



Advanced efficient design

The Kadant AES 2000 Oscillating Shower System is a superior choice for all papermaking oscillating shower applications with needle jet or fan nozzles.

A number of design features incorporated in its construction have been developed to ensure operator safety. The oscillator drive is completely enclosed with no pinch points. For nozzle and bearing maintenance the shower's internal pipe can be removed safely and easily, even from confined spaces, while the paper machine is still in operation.

The shower can be hydraulically or electrically driven and incorporates an oscillator fail-safe device. The advanced design of this shower will help maintain optimum machine performance while conserving energy and ensuring minimal water usage.

Dryer Section 2000 Showers

Application	Function	Shower Type	Nozzle Spacing	Operating Pressure	Flow GPM/in. (Lpm/cm)
Dryer Fabric Cleaning	Sheet Side Cleaning/Maintain Fabric Permeability	Alternating Fans/Needles	3" (75 mm)	200 - 450 PSI (1.4 - 3.1 Mpa)	.198 - .238 (.294 - .353)

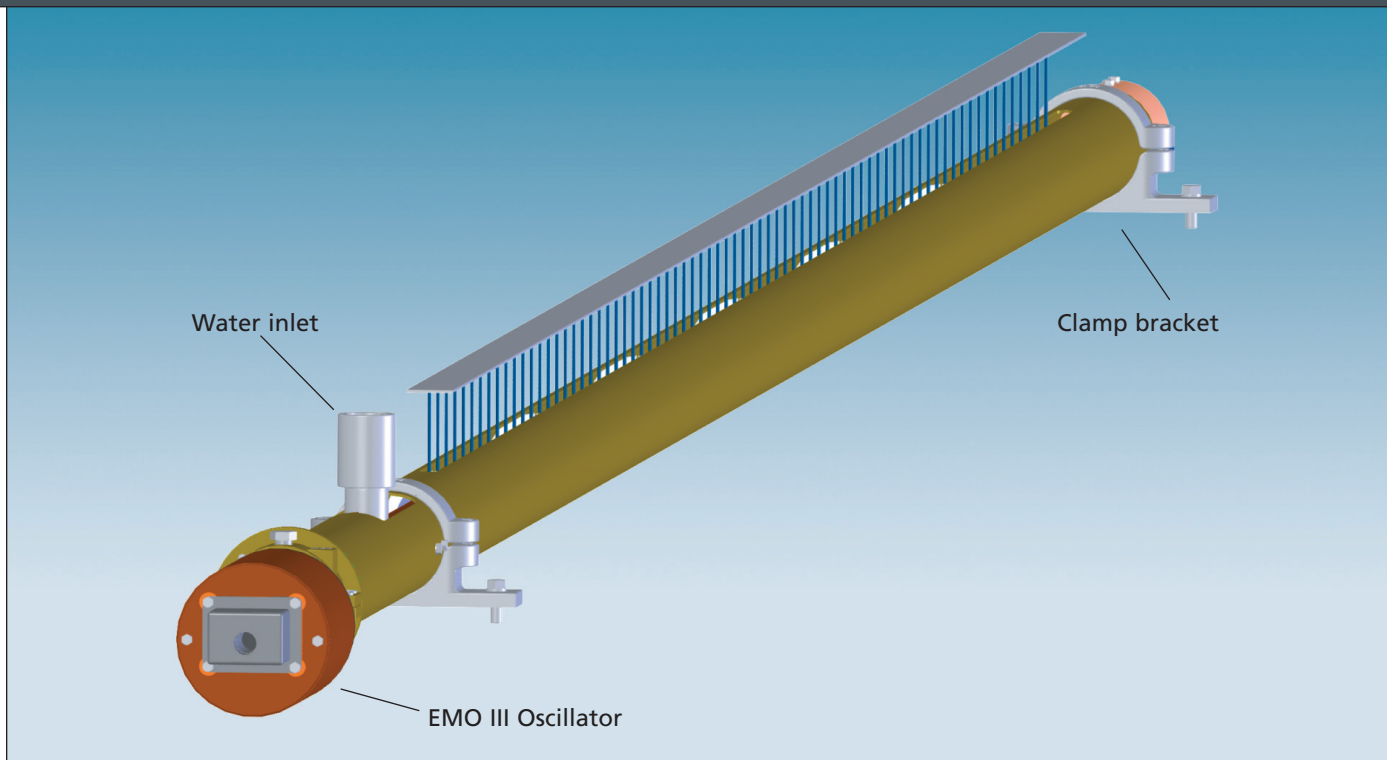
Forming Section 2000 Showers

Application	Function	Shower Type	Nozzle Spacing	Operating Pressure	Flow GPM/in. (Lpm/cm)
Dandy Roll	Cleaning	Oscillating Needle Jet	1 1/2" (37.5 mm)	100 - 150 PSI (.7 - 1.0 Mpa)	.239 - .29 (.355 - .431)
Couch Roll	Cleaning	Oscillating Needle Jet	3" (75 mm)	350 - 500 PSI (2.4 - 3.5 Mpa)	.198 - .250 (.294 - .371)
High Pressure Showers	Fabric Cleaning	Oscillating (Low Frequency) Needle Jet	3" (75 mm)	200 - 450 PSI (1.4 - 3.1 Mpa)	.198 - .238 (.294 - .353)
Sheet Side	Cleaning	Oscillating Needle Jet	3" (75 mm)	200 - 450 PSI (1.4 - 3.1 Mpa)	.198 - .238 (.294 - .353)
Combining Roll (If machine is so equipped)	Cleaning	Oscillating Needle Jet	3" (75 mm)	150 - 350 PSI (1.0 - 2.4 Mpa)	.198 - .238 (.294 - .353)

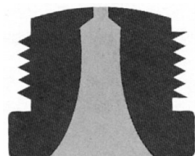
Press Section 2000 Showers

Application	Function	Shower Type	Oscillation	Nozzle Spacing	Operating Pressure	Flow GPM/in. (Lpm/cm)
Inside High Pressure	Void Volume Cleaning	Needle Jet	Yes	6" (150 mm)	200 - 350 PSI (1.4 - 2.4 Mpa)	.096 - .13 (.143 - .193)
Sheet Side High Pressure	Sheet Side Cleaning	Needle Jet	Yes	6" (150 mm)	150 - 300 PSI (1.0 - 2.0 Mpa)	.07 - .11 (.104 - .163)
Suction Roll Shower	Cleaning	Needle Jet	Yes	3" (75 mm)	350 - 500 PSI (2.4 - 3.5 Mpa)	.198 - .250 (.294 - .371)
Grooved Roll Shower Above 1400 FPM (425 MPM)	Clean Grooves	Needle/Fan	Yes	3" (75 mm)	200 - 500 PSI (1.4 - 3.5 Mpa)	.16 - .25 (.238 - .373)

MODEL 2000 SHOWER



Model 2000 high pressure shower with EMO III Oscillator.



Needle Jet Nozzle
Flow Per Nozzle

Orifice Size:		.033" (.8mm)		.040" (1mm)		.055" (1.4mm)	
PSI	MPA	GPM	LPM	GPM	LPM	GPM	LPM
20	.138	.120	.45	.150	.57	.300	1.13
30	.207	.140	.53	.200	.76	.360	1.36
40	.276	.162	.61	.225	.85	.400	1.51
50	.345	.180	.68	.252	.95	.450	1.70
60	.414	.197	.74	.279	1.05	.480	1.81
70	.483	.215	.81	.300	1.13	.530	2.00
80	.552	.220	.83	.320	1.21	.580	2.19
90	.621	.240	.90	.339	1.28	.630	2.38
100	.690	.252	.95	.358	1.35	.670	2.53
120	.828	.280	1.06	.390	1.47	.710	2.68
140	.966	.300	1.13	.421	1.59	.740	2.80
160	1.104	.322	1.22	.450	1.70	.810	3.06
180	1.242	.340	1.29	.475	1.80	.860	3.25
200	1.38	.359	1.36	.500	1.90	.910	3.49
220	1.518	.372	1.41	.530	2.00	.960	3.63
300	2.07	.461	1.74	.594	2.25	1.15	4.34
400	2.76	.523	1.98	.680	2.57	1.30	4.91
500	3.45	.594	2.25	.750	2.84	1.40	5.29
600	4.14	.625	2.36	.875	3.31	1.50	5.67
700	4.83	.695	2.63	.938	3.55	1.67	6.31

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