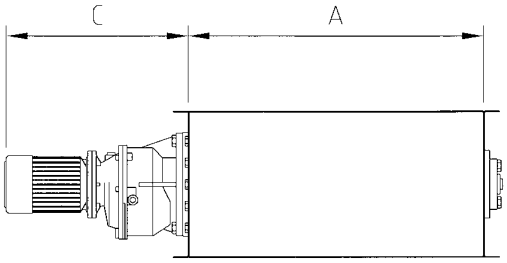
Bulk Handling Rotary Valves

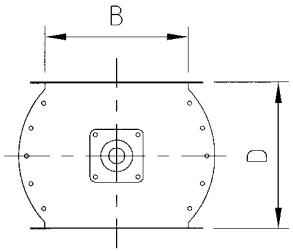
The rotary valve type S has 6 rotor blades with hard-wearing rubber vanes, which are bolted to the rotor.

The rotor is separated from the rotor housing by rubber packings and the shaft is suspended by a bearing and directly coupled to the geared motor.

Only the 200S is supplied with a safety coupling between the rotor and the geared motor.

The rotor is manufactured from 3mm sheet steel and treated with a primer finish.





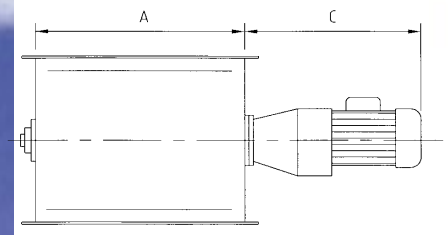
Specification								
Model	A mm	B mm	C mm	D mm	Weight Kg	Motor Output kW	RPM	Output @ 50% Degree of Filling (m^3/h)
25S	250	220	350	300	45	0.37	20	10
50S	500	220	415	300	65	0.37	20	20
75S	750	220	415	300	80	0.37	20	32
100S	1000	220	415	300	90	0.55	20	42
150S	1500	220	415	300	120	0.55	20	63
200S	2000	220	580	300	150	0.55	20	83

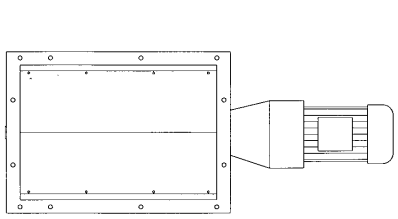
Rotary Valves, Type BS

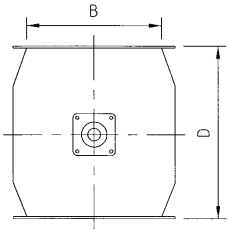
The rotary valve type BS has 8 rotor blades with hard-wearing rubber vanes, which are bolted to the rotor.

The rotor is separated from the rotor housing by rubber packings, and the shaft is suspended by a bearing and directly coupled to the geared motor.

The rotor is manufactured from 3mm sheet steel and treated with a primer finish.







Specification								
Model	A mm	B mm	C mm	D mm	Weight Kg	Motor Output kW	RPM	Output @ 50% Degree of Filling (m^3/h)
B 500S	500	500	525	600	140	0.75	16	60
B 750S	750	500	525	600	185	0.75	16	90
B 1000S	1000	500	610	600	260	1	16	120

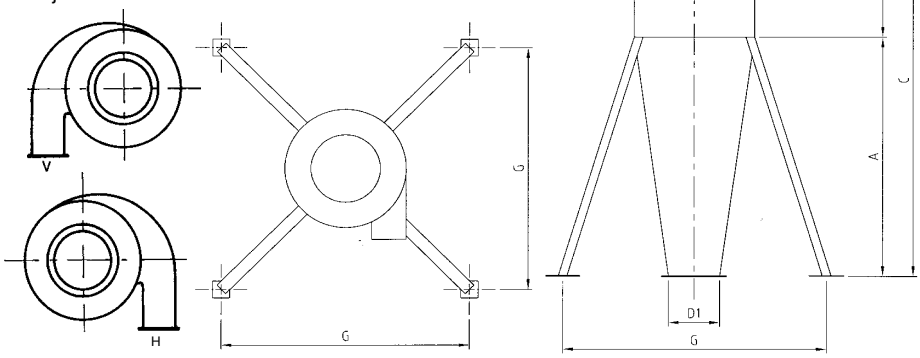
Due to the continued improvement of our products, specifications may vary from those provided in this leaflet. We reserve the right to alter specifications and dimensions without prior notice. Any non standard sizes manufactured to specific requirements. All dimensions quoted are approximate.

FE/C Range of Cyclones

Fercell high efficiency cyclones are used for handling small grained particles in transportation and extraction systems.

The cyclones are constructed in such a way that they achieve an efficiency considerably greater than normal cyclones.

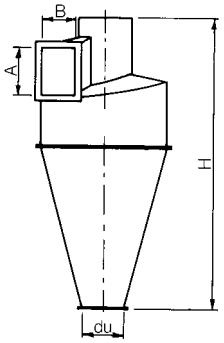
The cyclones are constructed by fully welding all joints and finished in blue enamel



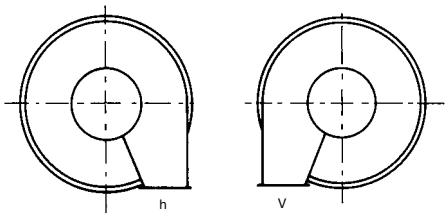
Dimensional specifications are given in the table below. V = left, H = right

Specification											
Model	Volume Capacity cu/mtr/hr	A mm	B mm	C mm	D mm	D1 mm	D2 mm	E mm	F mm	G mm	Weight Kg
CA	2700/3600	1100	850	1950	700	200	350	147	210	2000	100
CB	3600/6000	1400	950	2350	800	250	400	180	235	2200	120
CD	6100/8300	1800	1250	3050	1000	320	500	210	310	2500	165
CE	8300/12000	2200	1450	3650	1200	400	600	300	430	2700	220
CF	12000/21000	2700	1850	4550	1600	450	800	300	520	3000	330

FE/GS Range of Cyclones



Dimensional specifications are given in the table below
V = left
h = right



The **Fercell FE/GS Range** of cyclones are manufactured in prime galvanised sheet steel.

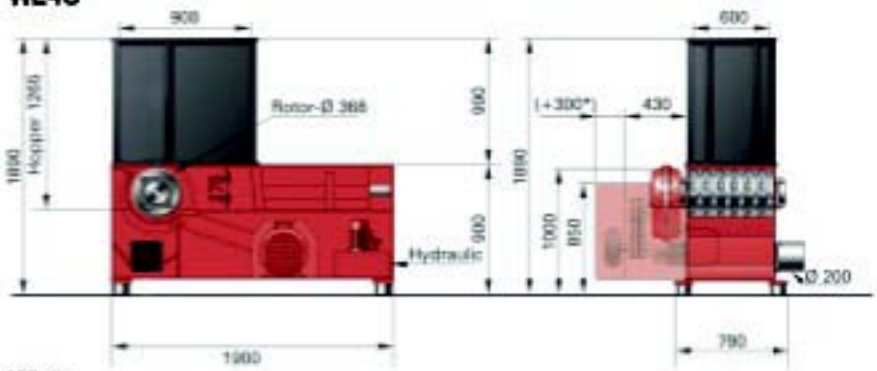
Sizes range from 1 metre diameter to 4.6 metre diameter with air handling capacities up to 47,000 cu/mtr/hr.

Standard Specification				
Diameter mm	Overall Height H mm	Inlet Size A mm x B mm	Waste Discharge Dia.(du)	Maximum Air Volume Capacity cu/mtr/hr
1000	1950	320 x 230	180	2400
1200	2180	370 x 255	200	4600
1380	2400	400 x 295	200	5200
1500	2800	460 x 320	250	6000
1680	3000	510 x 355	275	6900
1800	3250	545 x 410	300	7600
2000	3400	595 x 420	300	9000
2300	4100	685 x 480	350	12000
2450	4300	725 x 510	375	13700
2600	4500	775 x 550	375	15000
2900	5000	860 x 610	425	19000
3200	5550	950 x 675	450	23000
3500	6000	1050 x 740	500	28000
3800	6600	1140 x 800	550	34000
4100	7150	1230 x 860	600	38000
4600	7900	1370 x 965	650	47000

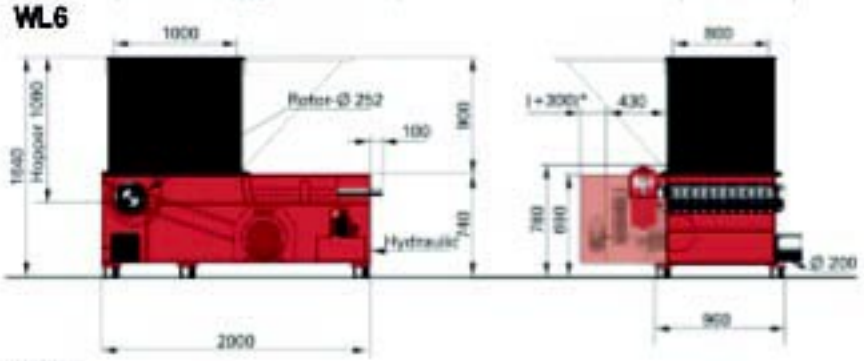
Due to the continued improvement of our products, specifications may vary from those provided in this leaflet. We reserve the right to alter specifications and dimensions without prior notice. Any non standard sizes manufactured to specific requirements. All dimensions quoted are approximate.

WL4

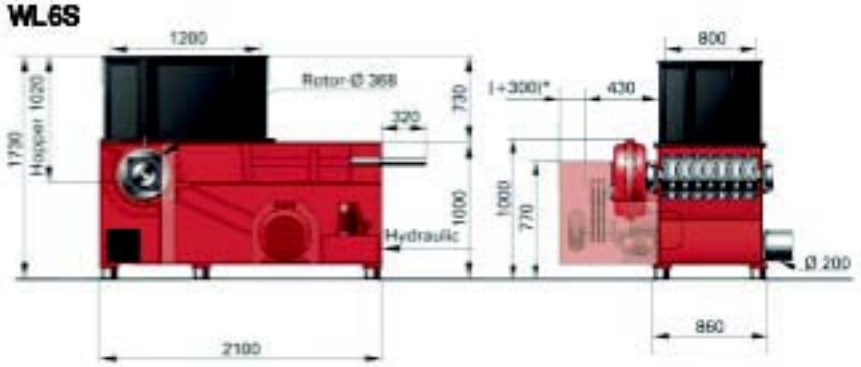
WL4S



WL6



WL6S



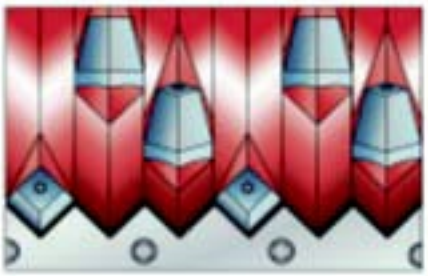
Specification				
	WL4	WL4S	WL6	WL6S
Hopper Opening	600mm x 800mm	600mm x 900mm	800mm x 1,000mm	800mm x 1,200mm
Hopper Volume	0.6 m³	0.7 m³	0.9 m³	1.0 m³
Throughput	depending on material and screen size			
Rotor Diameter	252mm	368mm	252mm	368mm
Rotor Length	600mm	600mm	800mm	800mm
Rotor Speed	60 - 100 rpm	60 - 100 rpm	60 - 100 rpm	60 - 100 rpm
Power	11/15/18.5 kW	11/18.5/22* kW	15/18.5/22* kW	18.5/22*/30/37 kW
Tools	14 knives	17/30 knives	21 knives	23/42 knives
Screen Size	10 to 40mm	10 to 40mm	10 to 40mm	10 to 40mm
Connection Diameter	160mm	200mm	200mm	200mm
Air Speed	28 m/sec.	28 m/sec.	28 m/sec.	28 m/sec.
Weight (approx.)	1,300 Kg	1,700 Kg	1,500 Kg	2,000 Kg

*22 kW with hydro-centrifugal clutch SPC control for fully automatic controlled operation (optional extra), special designs on request.

Larger models available

WL4, WL4S and WL6, WL6S series technology

Patented V-rotor



- Optimum material intake
- Minimum cutting knife wear
- Low power consumption yet high output
- Narrow cutting gap between rotor and counter-knife
- Defined knife projection

The profiled V-rotor is machined in one piece and mounted in sturdy rotor bearings. Special knife holders are welded into milled knife pockets around its circumference.

The cutting knives are inserted into these and screwed in place from behind. As a result, high speed knife changing is possible because the design prevents the screw heads from being damaged during shredding. The concave cutting knives can be turned four times and guarantee a precision cut at high throughput rates. Two rotor diameters are used:

252mm WL4, WL6

386mm WL4S, WL6S

Other rotor versions

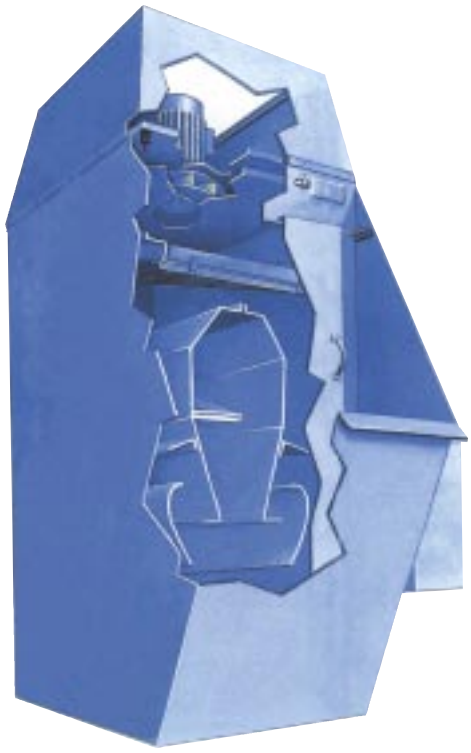
Profiled rotor with cutting knives inserted in the recesses

Flat rotor with round or pot knives

Flat rotor with rectangular or square turnable knives

Due to the continued improvement of our products, specifications may vary from those provided in this leaflet. We reserve the right to alter specifications and dimensions without prior notice. Any non standard sizes manufactured to specific requirements. All dimensions quoted are approximate.

FLAME-FREE Water Scrubber Dust Extraction



FAN AVAILABILITY

Unit size	0.75 kW	1.1 kW	2.2 kW	3.0 kW	4.0 kW	5.5 kW	7.5 kW	11.0 kW	15.0 kW
FF30	●								
FF60		●							
FF80			●	●					
FF120					●	●			
FF185						●	●	●	
FF220									●

Reliable in operation and easy to maintain. Ideal for aluminium and other flammable dusts.

Flame-Free is a self-induced spray wet scrubber designed to cope with difficult fibrous dusts. It is a unique design that has evolved over many years. The Flame-Free has been developed to control dusts and keep the environment clean and safe from the pollution, produced by a wide range of modern industrial processes. The design and construction of the Flame-Free unit reduces the risk of blockages and allows quick and easy maintenance. The design also conforms to many countries' mandatory requirements for handling explosion generating dusts.

Simple eliminator change

Spray eliminators are removable for easy cleaning and reduced downtime during preventative maintenance.

Manual, hopper or mechanical discharge

316L Stainless steel option

Water level indication

A simple sight tube is fitted to allow a quick and easy check that the system operating level is correct.

Automatic level control

A simple trouble-free ball valve water control can be fitted to allow for continuous water replacement for effective air cleaning. This is standard on some of the larger models.

Acoustic treatment

Keeping the atmosphere free of pollution from industrial dusts is essential. Limiting the noise emitted by industrial equipment is another facet of keeping the environment as pure as we possibly can. The Fercell Flame-Free offers an acoustic device to keep noise levels down to acceptable limits.

Dust collection and disposal

For the disposal of sludge and collected dust particles Fercell offer two alternatives for the smaller models and a third for larger models: a simple rake and bin, a hopper discharge, complete with sludge valve and on larger models a mechanical rake-out mechanism.

Fan

Fercell dust collectors have backward curved free vortex fans. They are directly driven at 2880 rpm (50 Hz). Experience and development has produced a series of fans with steep performance curves, which means that a large variation in system resistances causes only a small change in air volume being handled, in contrast to fans fitted in competitive units. The motor, fan back-plate and impeller assembly are mounted on anti-vibration mounts, which together with electronic balancing result in very smooth running fans.

Self-induced scrubbing

Unique to Fercell Flame-Free is the generous space between the inducer baffles, reducing the risk of blockage. The simple design evolved over many years of testing and development has produced a reliable and effective spray inducer, which generates an impressive scrubbing action. Another advantage of the generous space between the baffles is the easy access for regular maintenance checks and inspections.

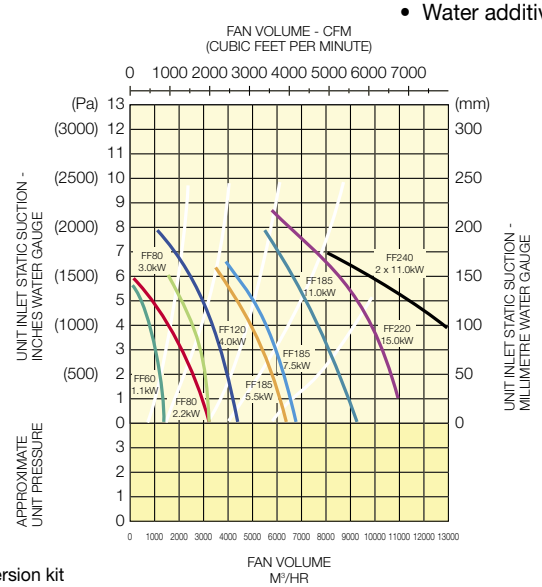
Hazardous dusts

The Flame-Free is ideal for materials that are likely to generate sparks or become unstable when being worked. Flame-Free conforms to the requirements of the aluminium regulations in the UK and USA. With the addition of special controls the magnesium and titanium requirements are also catered for.

Optional extras

- Anti-spark precautions
- Acoustic ducts
- Special water level controls
- Weather protection
- Frost protection
- Total system application and design
- Stainless steel 316L construction
- One size available in Glass Reinforced Plastic
- After-sales service and LEV/COSHH testing
- Water additives

Model **FF220** 15 kW with magnesium conversion kit



Due to the continued improvement of our products, specifications may vary from those provided in this leaflet. We reserve the right to alter specifications and dimensions without prior notice. Any non standard sizes manufactured to specific requirements. All dimensions quoted are approximate.