

## Cyclons and ventilators data sheet

### HZ and SZV series



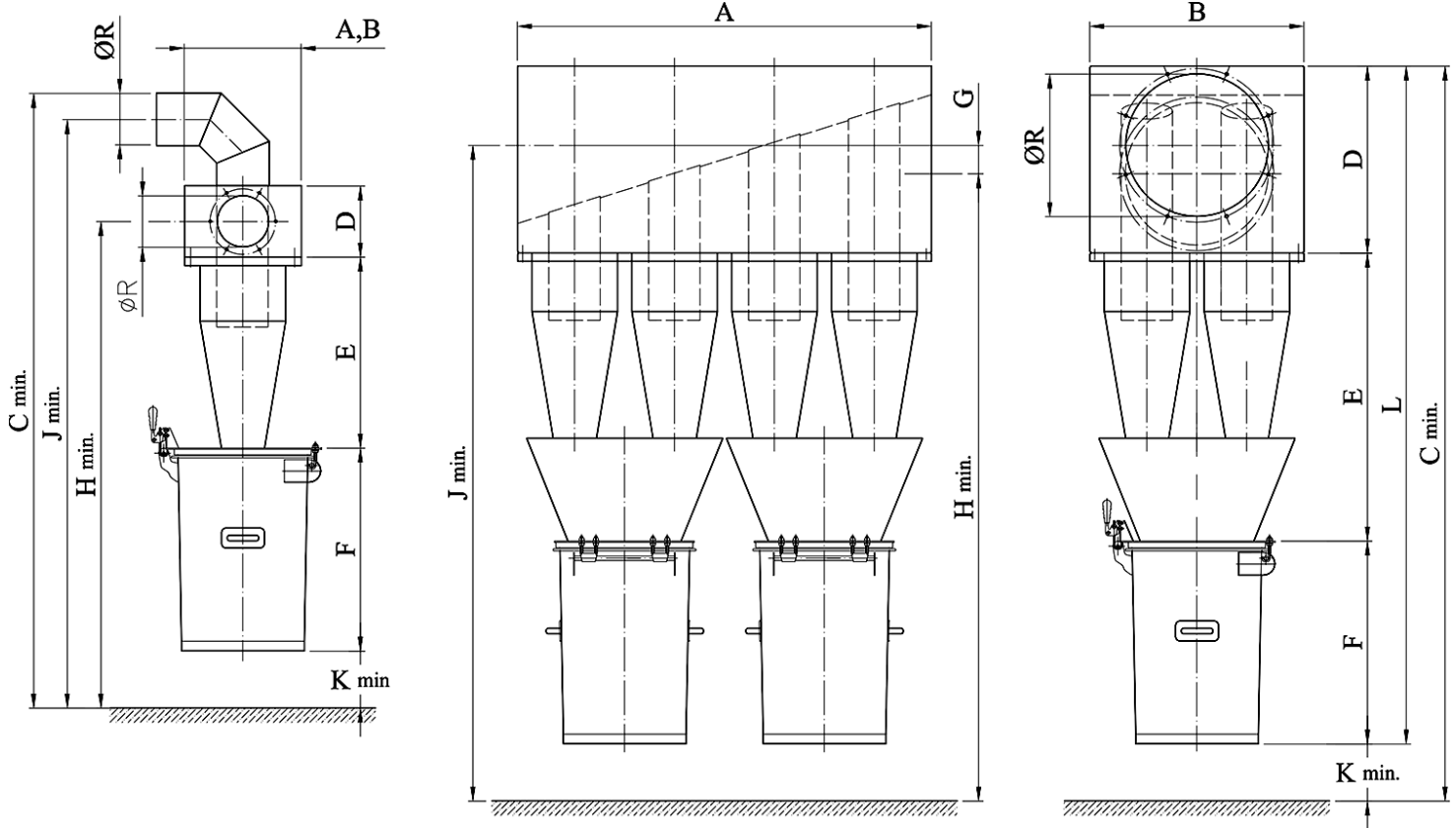
**MSW GmbH · Mechatronics and Welding Workshops**

Dr. Alexander Schaerf Strasse 12 · A-2700 Wr. Neustadt · Austria

T: +43 2622 238 650 · F: +43 2622 238 653 · [office@msw.co.at](mailto:office@msw.co.at)

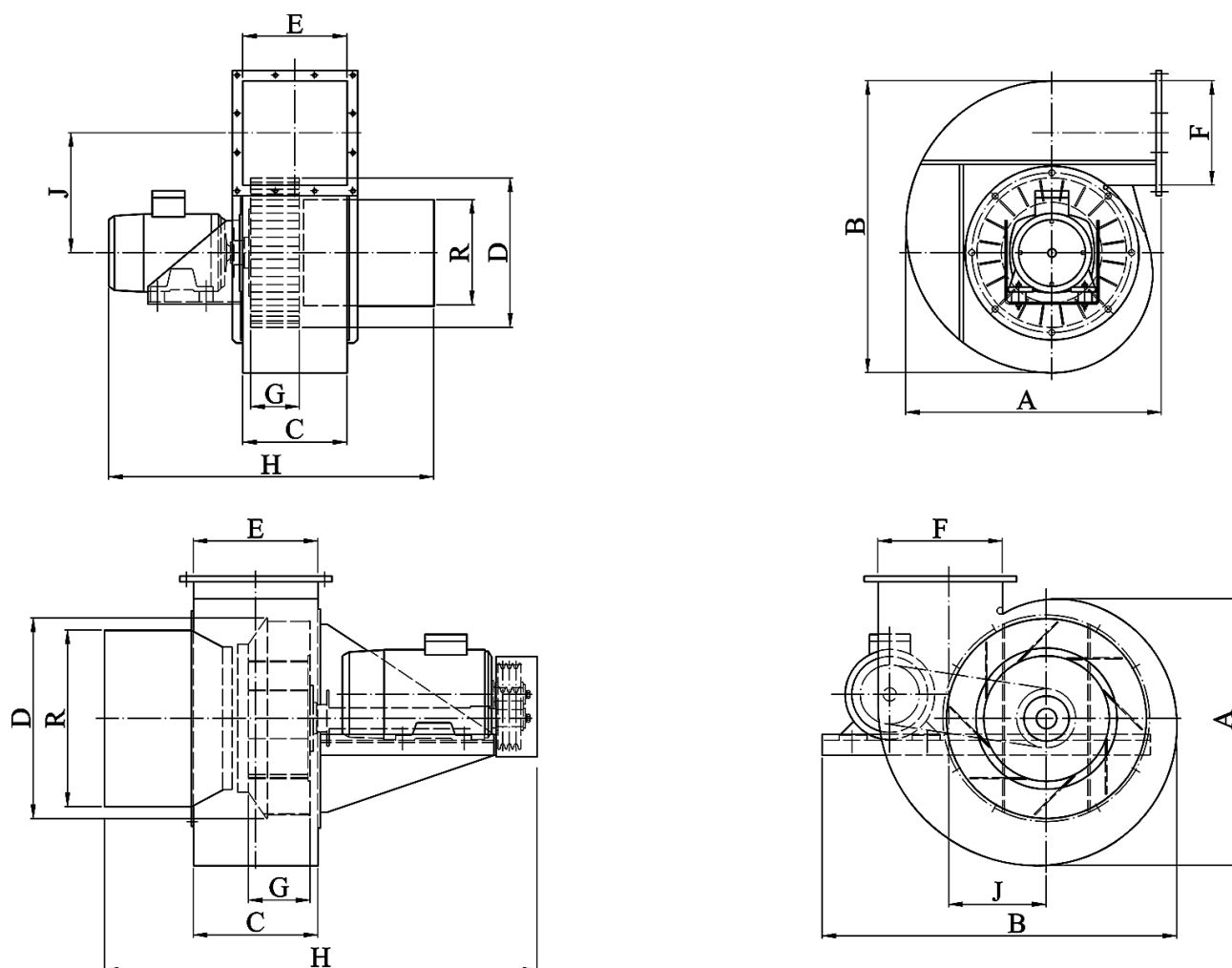
[www.kurri.com](http://www.kurri.com)

## Cyclone HZ technical data & dimensions



	HZ 1	HZ 2	HZ 3	HZ 4	HZ 5	HZ 6	HZ 7	HZ 8
Boiler out-put (kW)	150	300	500	600	800	1000	1250	1500
Cyclones	1	2	3	4	4	6	8	8
A	410	750	750	750	750	1370	1450	1450
B	410	450	705	750	750	750	750	750
C	1602	2303	2563	2603	2703	2390	2530	2530
D	245	591	679	679	779	506	656	656
E	590	799	971	1011	1011	971	1011	1011
F	567	713	713	713	713	713	713	713
G	-	294	340	340	390	100	100	100
H	1480	1857,5	2054	2094	2119	2087	2152	2152
J	-	2151,5	2394	2434	2509	2187	2252	2252
K	200	200	200	200	200	200	200	200
L	1402	2103	2363	2403	2503	2190	2380	2380
R	165	200	250	300	350	350	450	500

## Suction draft fan SZV technical data and dimensions



Typ	SZV 1 FQ	SZV 2 FQ	SZV 3 FQ	SZV 4 FQ	SZV 8 FQ	SZV 12 FQ
Boiler output (kW)	100, 150	200, 250	300/400	500, 600/800	1000/1250/1500	2000/2500
Max. operational temperature	350 °C	350 °C	350 °C	350 °C	350 °C	350 °C
Max. bulk current	900 Bm <sup>3</sup> /h	1.800 Bm <sup>3</sup> /h	2.700 Bm <sup>3</sup> /h	3.600 Bm <sup>3</sup> /h	7.200 Bm <sup>3</sup> /h	12.000 Bm <sup>3</sup> /h
Electrical connected load	1,1 kW	1,5 kW	3 kW	4 kW	5,5 kW	7,5 kW
A	533	573	655	725	882	952
B	600	640	760	840	1023	1085
C	175	200	250	300	358	408
D	320	320	360	430	500	630
E	169	194	244	294	350	400
F	164	194	244	294	400	500
G	60	80	100	140	165	197
H	656	681	750	936	1245	1282
I	308	308	327	386	631	631
J	255	270	320	345	310	378
K	260	270	315	345	437	513
R	180	200	200/250	300/350	350/450/500	550/630

## Technical description of cyclone series HZ:

The HZ series of high performance cyclones is a welded construction made from 3 mm thick steel sheets (material St 360R). They are designed as flue ash dust separators of wood combustion boilers.

The flue ash in the flue gas can be reduced by 80% considering a throughput of about 900 operational m<sup>3</sup> flue gas per cyclone chamber. The separation efficiency can be increased by another 30% per cyclone chamber by connecting a second cyclone in series.

### General technical data:

Power range:	900 operational m <sup>3</sup> flue gas flow per cyclone
Operational pressure:	in the negative pressure range in front of the suction draft fan
Max. operational temperature:	350°C
Dimensions and weight:	see tables on page 2

## Technical description of the SZV series suction draft fans:

The ventilators in the SZV series are designed as suction draft fans used in the hot gas section of the flue gas duct of biomass boilers.

The welded parts of the casing as well as the connection pieces are made from 3 (6) mm steel sheets (material ST 360R). The CrNi steel used to construct the fan wheel ensures an efficient self-cleaning. All moving parts of the fan and the driving motor are mounted using silentblocks to keep vibrations as low as possible.

### General technical data:

Power range:	900 – 12.000 operational m <sup>3</sup> flue gas
Max. operational temperature:	244°C
Max. short term temperature:	350°C
Dimensions and weight:	see tables on page 3

### MSW GmbH · Mechatronics and Welding Workshops

Dr. Alexander Schaerf Strasse 12 · A-2700 Wr. Neustadt · Austria

T: +43 2622 238 650 · F: +43 2622 238 653 · office@msw.co.at

[www.kurri.com](http://www.kurri.com)