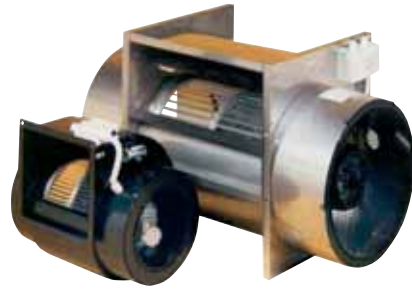


GBDF / SSDF Flue dilution fans

by Airflow

A new range of dilution fans including stainless steel versions for enhanced corrosion resistance, which allow flexible siting of gas boilers rated between 30 kW and 650 kW input upgraded to include a pressure switch fail safe system and an easy to connect mains flying lead with snap-in plug and socket, the airflow range of flue dilution fans is available in 5 sizes to satisfy the dilution needs of industrial and commercial boilers. Each size is available in standard form (GBDF series) for atmospheric boilers and water heaters of circa 75% efficiency. Enhanced corrosion resistance versions (SSDF series) with stainless steel fan cases are also available for installation where regulations or the specification calls for stainless steel ducting, and, when higher efficiency boilers such as modular designs are likely to produce condensation. Condensation should not be allowed to collect in the fan casing.

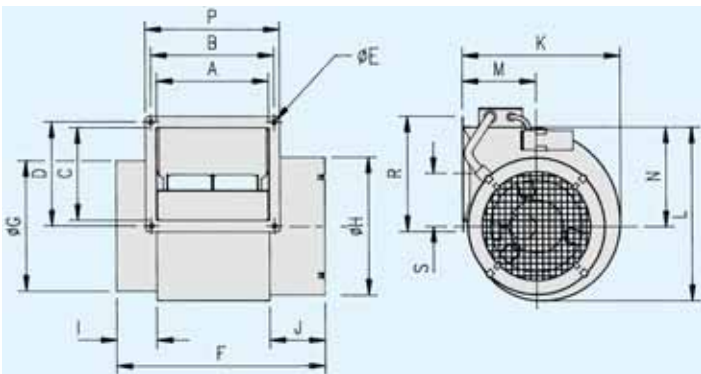


Performance table at 20°C

Fan Size	Airflow Litres / Sec @ Pascals Pa												Volt	FLC amps	Mptor W	RPM	
	0	30	60	100	120	160	200	250	275	300	350	375					
GBDF2 / SSDF 2	300	260	230	80	0									230	0,64	75	900
GBDF3 / SSDF3	600	550	510	440	380	120	0							230	1,45	120	880
GBDF4 / SSDF4	1000	950	900	815	760	640	340	80	0					230	2,8	335	930
GBDF5 / SSDF5	Not suitable below 90Pa			1370	1324	1200	1075	850	450	200	0			415	2,6	900	940
GBDF6 / SSDF6	Not suitable below 180Pa						1675	1420	1280	1085	625	460		415	2,9	900	900

Typical performance table at 20°C

Fan Size	Units	GBDF2	GBDF3	GBDF4	GBDF5	GBDF6
		SSDF2	SSDF3	SSDF4	SSDF5	SSDF6
Maximum boiler input rating	kW	80	160	270	425	650
Minimum inlet duct diameter	mm	254	305	305	457	457
Minimum inlet louvre size	mm	300x300	400x400	400x400	600x600	600x600
Minimum discharge duct diameter	mm	225	275	345	370	457
Minimum discharge grille size	mm	300x300	400x400	450x450	500x500	600x600
Diluted flue gas volume	l/s	215	430	730	1145	1750
Total static pressure loss in system	pa	70	93	130	160	180
Maximum flue velocity	m/s	5,5	7,3	7,9	10,7	10,7



Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	R	S
2	218	238	179	200	9,5	402	251	265	78	106	304	335	140	191	260	222	101
3	250	270	236	257	9,5	440	302	302	78	109	359	394	175	222	294	281	109
4	352	384	263	295	9,5	578	302	340	78	141	408	445	194	256	409	321	121