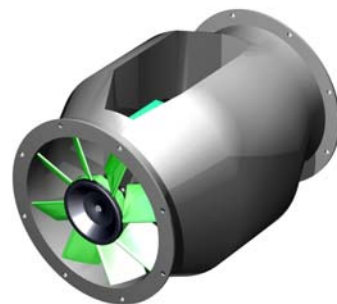
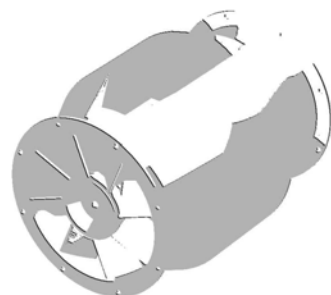
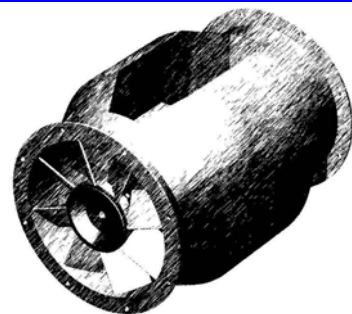
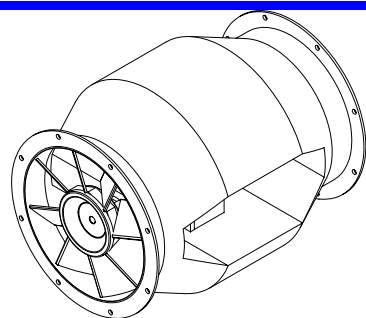


# Bifurcated fan range



Typical performance data and  
Dimensions.

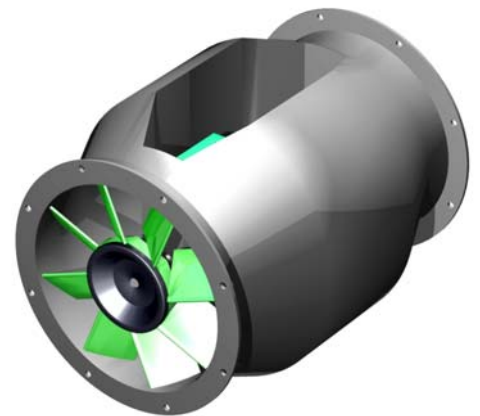
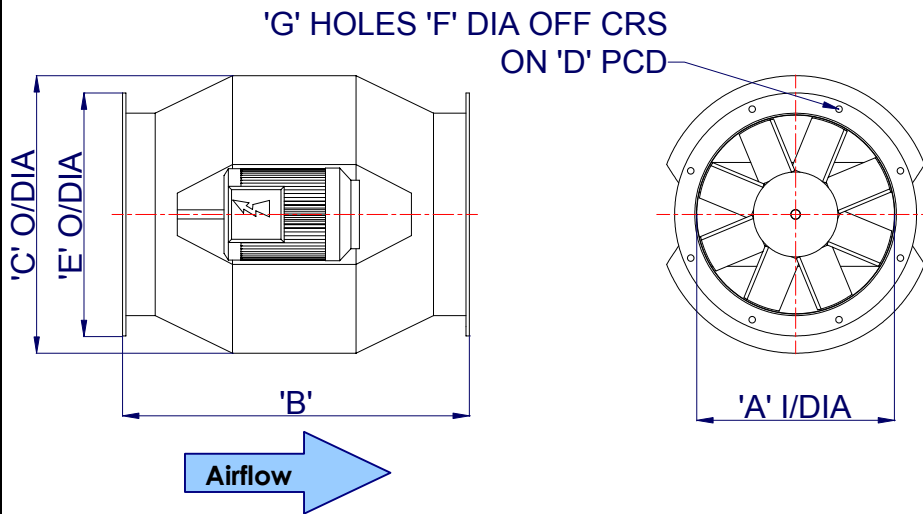
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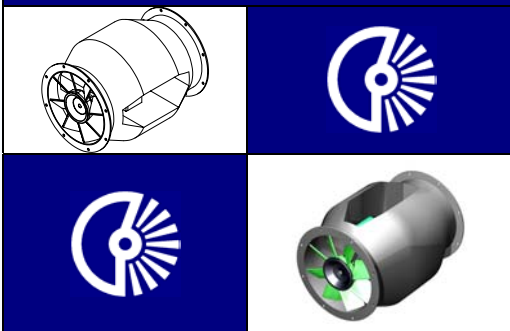


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SIZE	A	B	C	D	E	F	G
10	254	444	370	298	318	10	8
12	305	528	425	349	372	10	8
15	381	655	570	425	465	13	8
18	457	772	670	502	541	13	12
21	530	900	720	588	636	13	12

### The Bifurcated fan range



The Halifax small Bifurcated fan is basically a direct driven axial flow fan, with the motor remote from the air stream. The object of this design is to enable the fan to handle steam, fumes or gases which would normally be harmful to the motor.

- **Motor remote from the air stream**
- **Good operating efficiency.**
- **Low noise emissions.**

### Construction details



#### CASING

The standard stock casings are fabricated from mild steel plate and hot dipped galvanised after manufacture. Stainless steel casings for more specialised applications are also available from stock. The inlet and outlet are fitted with circular drilled flanges.

#### IMPELLER

The Bifurcated fan impeller is made up of a number of die cast aluminium alloy blades attached to a die cast centre boss or from a single casting whilst often impellers for more specialised applications are fabricated from other materials, suitable for specific environments.

#### MOTOR

The Bifurcated fan motor is to BS4999 Part 101:1987 specification often with an extended shaft. The motor is wound for 3 phase or single phase 50 cycle electrical supply. Motors suitable for all major European electrical supplies are available from our stocks as are flameproof motors for most fan sizes.

**Cubic feet of air per minute (C.F.M.)**

FAN SIZE	FAN SPEED	MOTOR RATING Kw	FREE AIR	FAN STATIC PRESSURE (inches water gauge)											
				0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60
10	1425	0.37	570	552	517	479	429	359	239	-	-	-	-	-	-
12	1425	0.37	986	959	931	888	838	786	724	638	465	-	-	-	-
15	1425	0.37	1903	1884	1865	1818	1769	1718	1655	1592	1529	1449	1354	1238	960
18	1425	0.37	4441	4224	4190	4030	3890	3750	3605	3460	3300	3100	2930	2770	2550
21	1425	1.1	5368	5305	5242	5179	5116	5053	4990	4910	4835	4750	4695	4596	4510

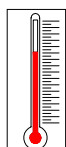
FAN SIZE	FAN SPEED	MOTOR RATING Kw	FREE AIR	FAN STATIC PRESSURE (inches water gauge)											
				0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	-
10	2850	0.55	1130	1081	994	882	703	434	-	-	-	-	-	-	-
12	2850	0.55	1954	1890	1815	1703	1574	1409	1104	828	-	-	-	-	-
15	2850	1.1	3816	3748	3690	3559	3425	3281	3120	2931	2699	2365	1802	1588	-
18	2850	2.2	8930	8550	8200	7850	7500	7080	6740	6250	5882	5400	4920	4333	-

**Cubic meters of air per hour (m³/hr)**

FAN SIZE	FAN SPEED	MOTOR RATING Kw	FREE AIR	FAN STATIC PRESSURE (millimetres water gauge)											
				1.50	3.00	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00	16.50	18.00
10	1425	0.37	951	924	850	765	640	421	-	-	-	-	-	-	-
12	1425	0.37	1644	1598	1551	1463	1363	1241	1056	-	-	-	-	-	-
15	1425	0.37	3210	3178	3145	3043	2935	2821	2697	2557	2389	2165	1761	1459	-
18	1425	0.37	7560	7125	6866	6600	6395	6100	5825	5500	5120	4800	4465	4000	3444
21	1425	1.1	9137	9029	8922	8815	8625	8483	8326	8169	8020	7855	7705	7541	7370

FAN SIZE	FAN SPEED	MOTOR RATING Kw	FREE AIR	FAN STATIC PRESSURE (millimetres water gauge)											
				5	10	15	20	25	30	35	40	45	50	55	60
10	2850	0.55	1925	1871	1756	1628	1466	1223	-	-	-	-	-	-	-
12	2850	0.55	3326	3242	3160	3017	2864	2690	2481	-	-	-	-	-	-
15	2850	1.1	6496	6398	6300	6194	6016	5836	5642	5439	5212	4925	4639	4245	3450
18	2850	2.2	15200	14760	14240	13795	13252	12820	12360	11770	11320	10660	10120	9420	8860

**Temperature range**


Standard Halifax Bifurcated fans operate up to 70°C, for temperatures up to 205°C the motor compartment is lined with heat resistant material. Fans operating outside these conditions are considered on an individual basis.

- Standard Fan operating temperatures up to 70°C.
- Fans operating between 70°C and 205°C require high temperature motor heat shield.
- For fans operating above 205°C contact Halifax Fan Ltd.

**Performance rating**


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All Halifax Fan performance ratings are a result of performance tests to BS848 Part 1: 1980 type D ducted inlet and outlet tests. They are also regularly audit tested in accordance with our quality assurance system, which conforms to ISO 9001.

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For more information contact Halifax Fan or Visit our Web site;

TEL: +44 (0) 1484 475123

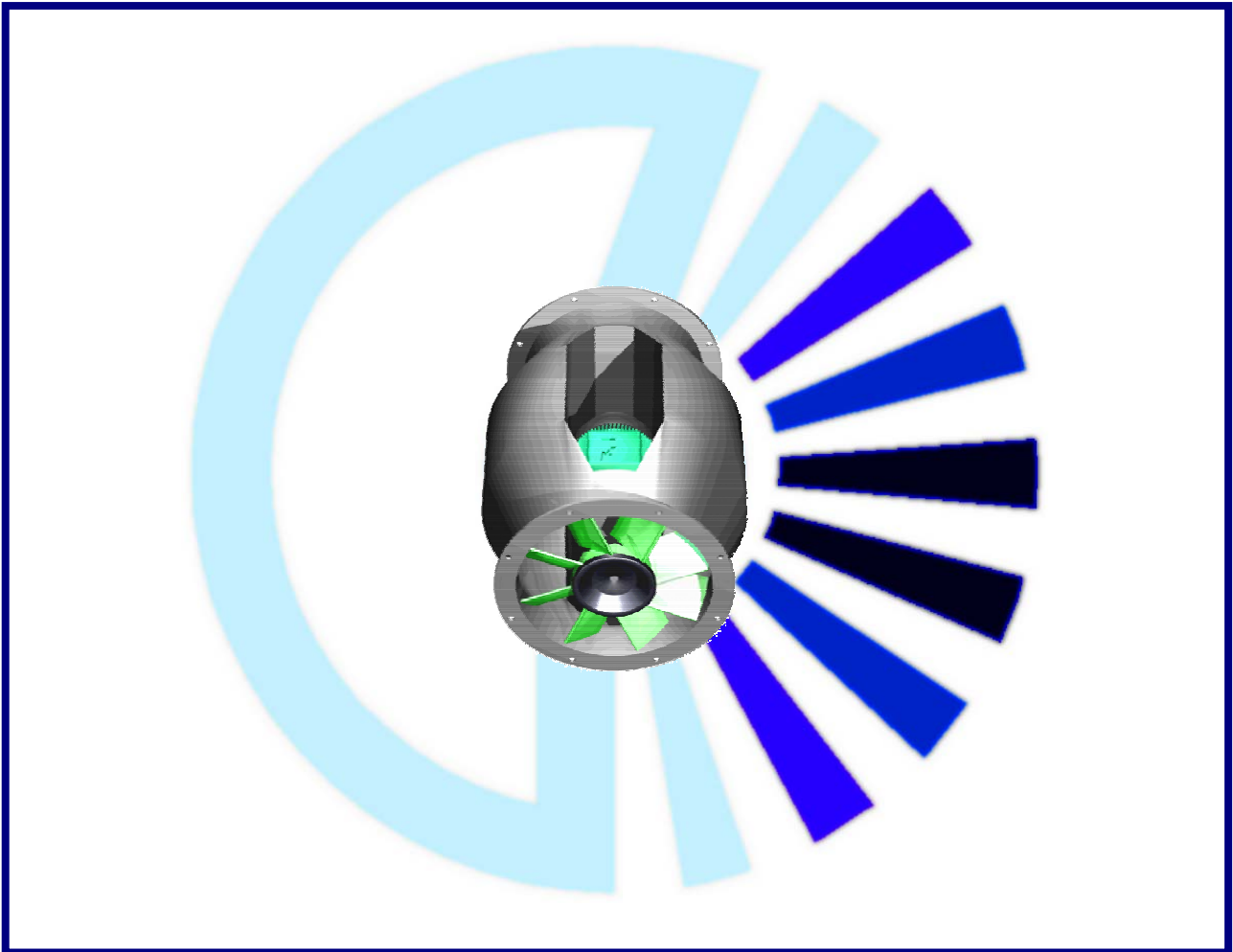
FAX: +44 (0) 1484 475122

E-mail: [sales@halifax-fan.co.uk](mailto:sales@halifax-fan.co.uk)

[www.halifax-fan.co.uk](http://www.halifax-fan.co.uk)

Halifax Fan Ltd, Unit 11, Brookfoot Business Park, Elland Rd, Brighouse, W. Yorks., HD6 2SD

**Bifurcated fan range.**



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**HALIFAX FAN LTD. Unit 11, Brookfoot Business Park, Elland Rd,  
Brighouse, W. Yorks. HD6 2SD.**

Tel: + 44 (0)1484 475123. Fax: + 44 (0)1484 475122

Email: [sales@halifax-fan.co.uk](mailto:sales@halifax-fan.co.uk)

[www.halifax-fan.co.uk](http://www.halifax-fan.co.uk)



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