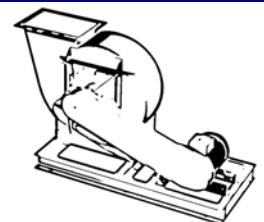
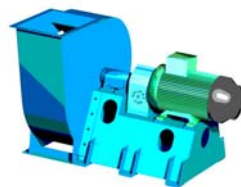
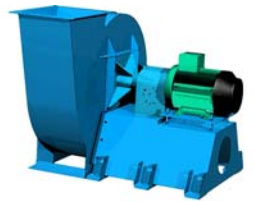
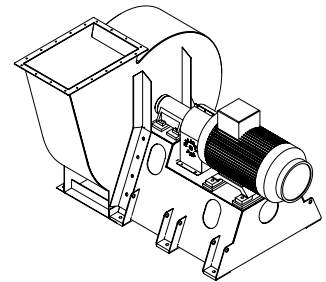
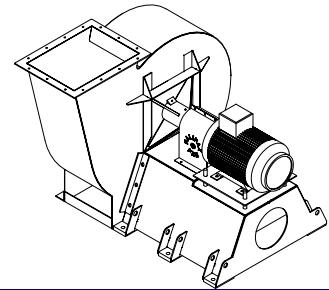
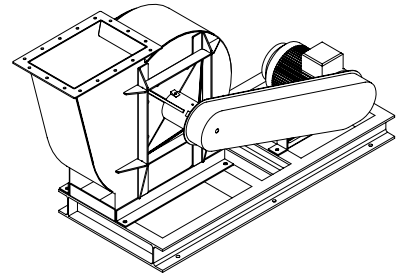
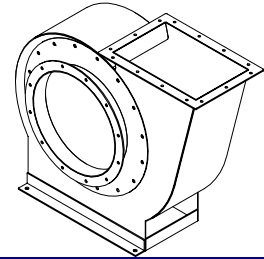


Mistral fan range

Typical driving arrangements
and dimensions

CATALOGUE REF: - MBI002-603

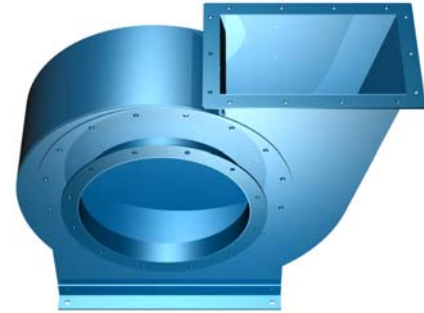
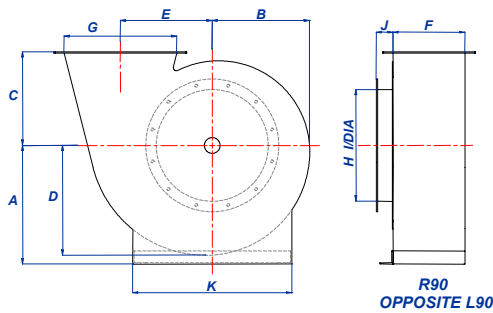


HALIFAX FAN
leaders in fan technology



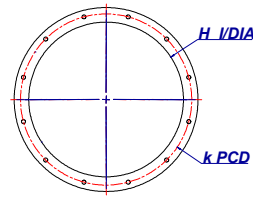
FM 00701

FAN SIZE	A	A	A	A	A	A	A	B	C	D	E	F	G	H	J	K
	R90	R135	R180	R225	R270	R0	R45									
15	305	318	292	279	254	483	330	264	254	295	251	197	305	305	50	458
18	381	368	337	337	305	559	394	314	305	356	298	235	365	365	50	474
21	451	419	381	368	356	635	457	368	356	425	349	273	425	425	64	610
24	508	483	457	445	406	711	533	422	406	476	400	311	489	489	76	730
27	572	533	508	495	457	787	597	470	457	530	451	349	546	546	76	812
30	635	597	559	546	508	889	660	518	508	594	502	394	610	610	76	896
33	686	648	610	597	552	978	724	578	552	648	552	432	670	670	100	914
36	762	711	673	660	610	1041	787	629	610	711	603	470	730	730	100	1060
39	800	762	699	686	660	1118	851	679	660	768	648	508	794	794	100	1130
42	864	838	775	749	711	1207	914	737	711	832	699	546	851	851	100	1232
45	927	902	838	813	762	1295	978	787	762	889	749	591	914	914	100	1334
48	1016	927	889	864	813	1384	1041	838	813	946	800	622	978	978	100	1410
51	1067	991	940	902	838	1473	1105	889	838	1003	851	667	1035	1035	125	1474
54	1105	1041	991	940	851	1575	1168	940	851	1057	902	699	1092	1092	125	1588
60	1245	1168	1092	1054	1016	1727	1321	1041	1016	1181	1000	781	1219	1219	125	1828
66	1346	1280	1200	1130	1118	1890	1440	1151	1118	1298	1104	867	1342	1342	125	2016

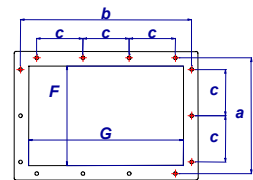


Flange dimensions

FAN SIZE	a	b	c	d	e	f	g	h	k
15	241	349	89	40	4	3	11	12	349
18	279	410	89	40	5	3	11	12	413
21	318	470	127	40	4	3	11	12	470
24	356	533	152.5	40	4	3	11	16	533
27	394	591	152.5	40	4	3	11	16	591
30	451	667	152.5	50	4	3	14	16	667
33	489	727	152.5	50	5	4	14	16	727
36	527	787	152.5	50	5	4	14	16	787
39	565	851	152.5	50	6	4	14	16	851
42	603	908	152.5	50	6	4	14	16	908
45	648	972	152.5	50	7	4	14	16	972
48	679	1035	152.5	50	6	5	14	24	1035
51	737	1105	152.5	60	7	5	17	24	1105
54	768	1162	152.5	60	8	5	17	24	1162
60	851	1289	152.5	60	9	6	17	32	1289
66	921	1403	152.5	60	10	6	17	32	1403

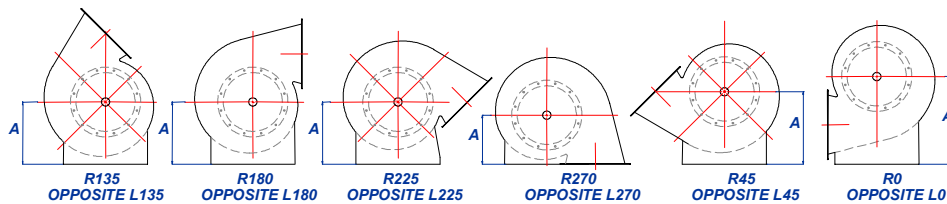


INLET FLANGE
 d - SIZE OF INLET FLANGE
 h - No. OF HOLES OFF CENTRES
 g - SIZE OF HOLES
 k - P.C.D. OF HOLES



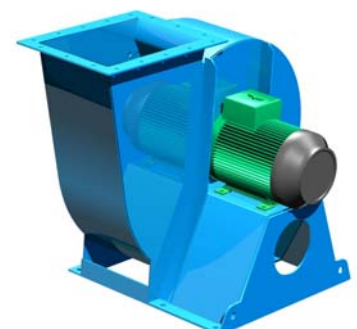
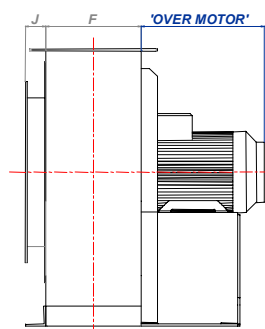
OUTLET FLANGE
 d - SIZE OF OUTLET FLANGE
 e - No. OF HOLES IN LONG SIDE
 f - No. OF HOLES IN SHORT SIDE
 g - SIZE OF HOLES

Handings shown from drive side



Arrangement no.3 specific dimensions

FAN SIZE	TYPICAL MOTOR SIZE	SIZE OVER MOTOR	COOLING DISC (ADD TO 'OVER MOTOR' IF REQ'D)
15	D90	275	ADD 50
18	D132	375	ADD 50
21	D160	495	ADD 70
24	D180	560	ADD 70
27	D200	700	ADD 70
30	D200	700	ADD 70
33	D200	700	ADD 70
36	D200	700	ADD 70
39	D225	740	ADD 100
42	D250	845	ADD 100

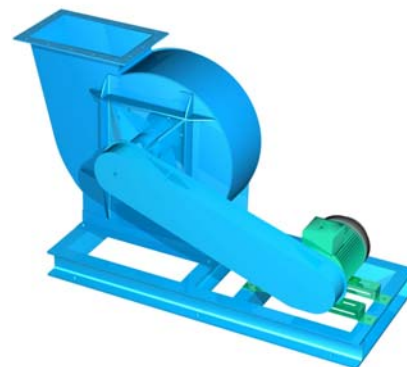
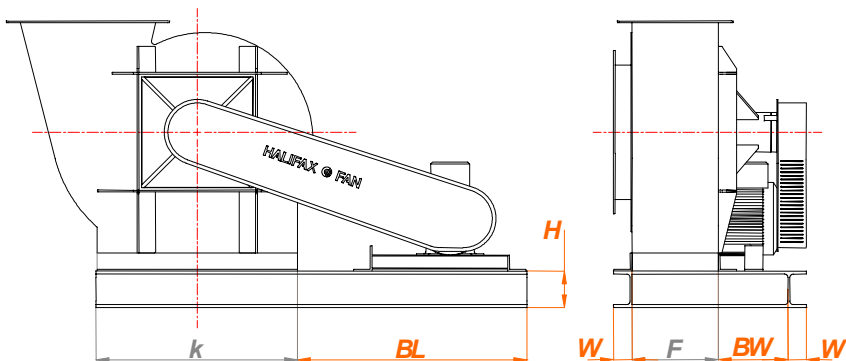


Use these dimensions combined with the Casing dimensions to give overall fan sizes for your chosen driving arrangement

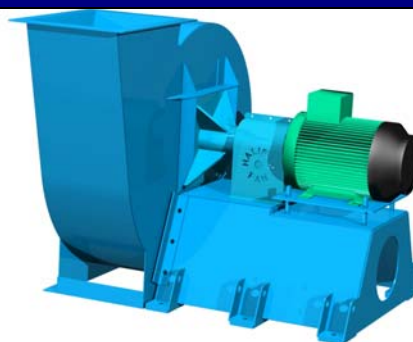
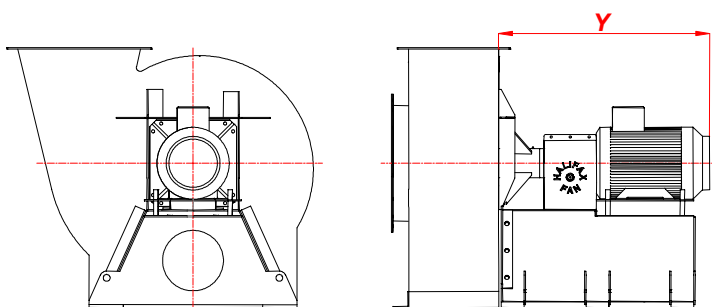
Typical dimensions for driving arrangements 1,2A,1/3 and 2A/3

SPECIFICATION				ARRANGEMENT No.1 SPECIFIC DIMENSIONS				ARRANGEMENT 1/3 SPECIFIC	ARRANGEMENT 2A/3 SPECIFIC	HIGH TEMP. EXTRAS				
FAN SIZE	BEARING UNIT		TYPICAL MOTOR SIZE	TYPICAL BASEFRAME SIZES				(Y)	(Z)	FOR EXTRAS ADD TO BW,Y OR Z				
	ARR. No.1	ARR. No.2A		CHANNEL HEIGHT (H)	CHANNEL WIDTH (W)	BL	BW	DIMENSION OVER BEARING UNIT AND MOTOR	DIMENSION OVER BEARING UNIT AND MOTOR	COOLING DISC	COOLING DISC & PLUG UNIT			
15	V3		D100	76	38	610	200	600		ADD 40	ADD 75			
18	V3		D112			680	220	610		ADD 40	ADD 75			
21	V4		D132			750	240	720		ADD 50	ADD 75			
24	V4		D180			750	265	940		ADD 50	ADD 75			
27	V5		D180	125	65	780	300	970		ADD 50	ADD 75			
		M6	D200			1040	450			1275	ADD 50	ADD 75		
		M7	D225			1040	500			1430	ADD 70	ADD 100		
	V6	D180	775			290	970			ADD 50	ADD 75			
30 - 33		M6	D200			1040	450			1275	ADD 50	ADD 75		
		M7	D225			1040	500			1430	ADD 70	ADD 100		
		M8	D250			1200	550			1620	ADD 70	ADD 100		
36		M6	D200			150	75	1040		435	1275		ADD 50	ADD 100
		M7	D225					1040		490	1430		ADD 70	ADD 100
		M8	D250					1200		540	1620		ADD 70	ADD 100
39 - 45		M7	D225	1040	490			1430	ADD 70	ADD 100				
		M8	D250	1200	540			1620	ADD 70	ADD 100				
		M9	D250	1200	585			1665	ADD 70	ADD 100				
48 - 66		M11	D280	200	90			1200	600	1805			ADD 70	ADD 100
		M9	D250					1200	610	1665			ADD 70	ADD 100
		M11	D280					1200	630	1805			ADD 70	ADD 100
	M12	D315	1540					740	2085	ADD 100			ADD 125	

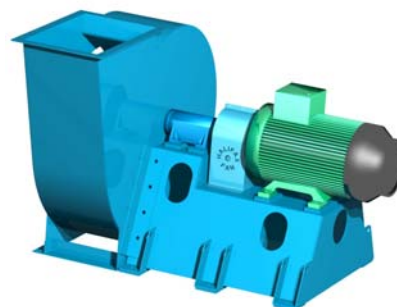
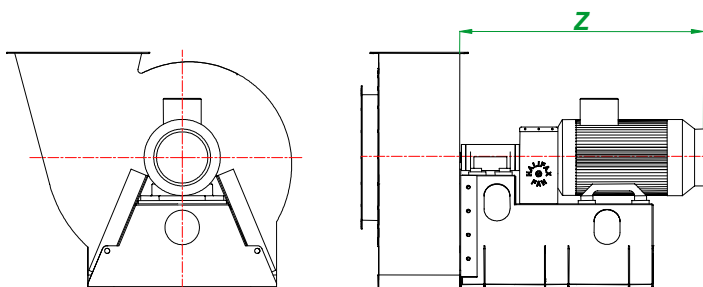
Driving arrangement No.1 and No.2A



Driving arrangement No.1/3



















Driving arrangement No.2A/3





Typical dimensions only, contact Halifax Fan for full arrangement drawing.

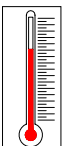
The Mistral fan range

		<p>The Halifax Mistral backward Inclined Fan was originally developed for the arduous and taxing duties in quarrying and associated industries. It is therefore a very general purpose fan for high volume/high pressure applications with good operating efficiency, ideally suited to the demands of present day environmental pollution control systems. The backward Inclined impeller blades are angled to maintain excellent self-cleaning characteristics. This enables the backward inclined design to be used downstream of dust collectors, wet scrubbers etc., where small amounts of product carry over is possible.</p> <p>The Mistral range also offers a Backward Curved and Radial Bladed impeller design.</p> <p>Backward Curved impellers give increased efficiency for clean gas applications with a non-overloading power characteristic. The Radial Bladed design is reserved for applications with heavier particulate loading than those suitable for the standard Inclined design.</p>	<ul style="list-style-type: none"> ➤ General-purpose fan for high volume/high pressure applications. ➤ Good operating efficiency. ➤ Backward inclined fans offer excellent self-cleaning blade characteristics. ➤ Backward Curved design available to give higher efficiency for clean gas airflows. ➤ Radial bladed design available for heavier particulate loading.
			
			
			
			
			
			
			


Performance rating

  <p>FM 00701</p>	<p>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.</p>
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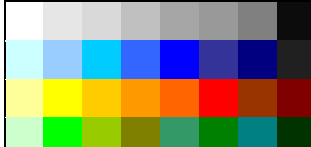
Temperature range

	<p>Standard Halifax Mistral Fans normally serve applications at temperatures up to 70°C. Higher temperature requirements are effectively catered for by the incorporation of carefully designed modifications to protect the fan bearings. Fans operating between 70°C and 230°C are supplied with a cooling disc fitted to the fan shaft between the fan case and the bearing unit.</p> <p>For operating temperatures between 230°C and 315°C a cooling disc is fitted in addition to fibreglass filled plug unit located between the fan side plate and bearing unit. The fabrication techniques used in the construction of these impellers are modified to ensure operational stability in the high temperature environment.</p>	<ul style="list-style-type: none"> ➤ Standard Fan operating temperatures up to 70°C. ➤ Fans operating between 70°C and 230°C require a cooling disc. ➤ Fans operating between 230°C and 315°C require a plug unit and cooling disc. ➤ For fans operating above 315°C contact Halifax Fan Ltd.
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Construction details

	<p>Casing</p> <p>The fan casings are of an all welded construction and substantially braced for extra rigidity. Casings up to and including size 39 are made in one piece. The impellers can be removed from the inlet side after taking off the front plate. Standard sizes 42 and larger are made in two pieces and these pieces are flanged, drilled and bolted together (known as a split case). Above a size 60, the casings are in three parts with the top section being divided.</p>
	<p>Impeller</p> <p>The impellers are dynamically and statically balanced in accordance with BS. 6861: Part 1: 1987 and ISO 1940/1:1986. They are precision built components made up of twelve blades welded between a substantial back plate and conical shroud. The precision laser cut back plate with blade slots ensures utmost accuracy in the angle and position of blades. Impellers are fitted with a cast-iron centre boss, precision bored with a British standard keyway to suit.</p>

Finish

	<p>Great care is taken with the protective finish of Halifax fans and their appearance. Fans selected for normal temperature conditions are powder coated RAL5015 (certain other colours available at no extra cost). Powder coating offers significant advantages over liquid paint finishes, as the process provides a harder, more durable high quality finish, giving added protection. Special finishes are also supplied to suit unusual operating conditions or customer requirements.</p>
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HALIFAX FAN
 leaders in fan technology

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FAX: +44 (0) 1484 475122

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