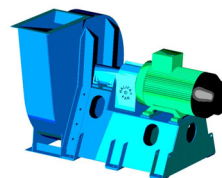
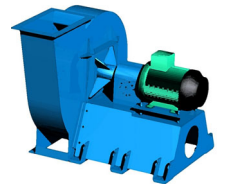
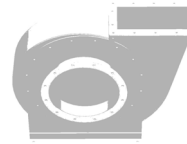
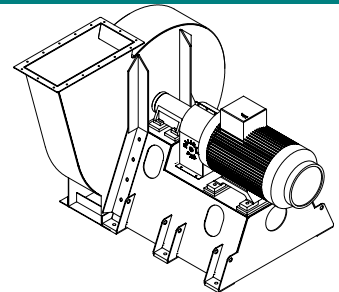
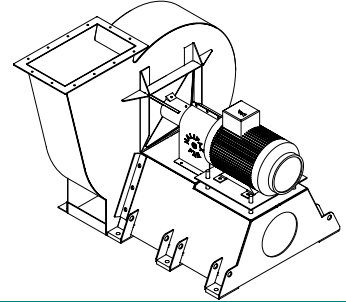
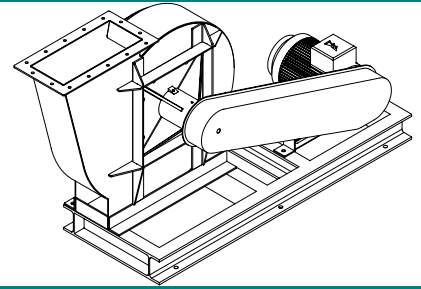
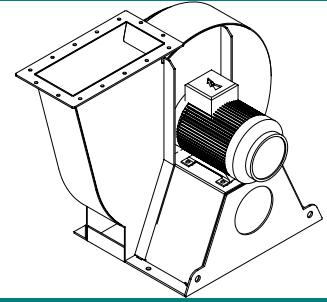


Chinook fan range



Typical driving arrangements and dimensions

CATALOGUE REF: - CBI001-603



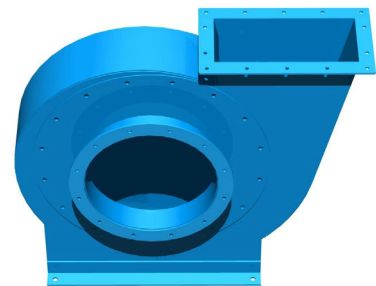
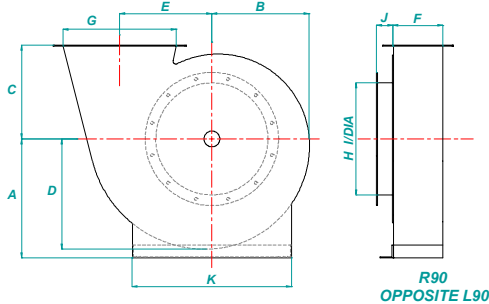
HALIFAX FAN
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FM 00701

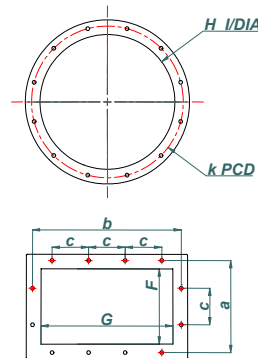


FAN SIZE	A	A	A	A	A	A	A	B	C	D	E	F	G	H	J	K
	R90	R135	R180	R225	R270	R0	R45									
12	260	250	240	230	230	360	270	209	203	234	199	102	212	203	51	372
15	320	300	290	280	280	470	330	262	254	291	248	127	265	254	51	458
18	381	356	343	340	330	533	394	317	305	349	298	152	318	305	51	546
21	432	406	394	394	375	610	445	365	356	406	349	178	368	356	64	610
24	495	470	457	445	440	686	521	419	406	463	400	203	419	406	76	696
27	559	533	508	500	490	787	584	475	457	523	448	229	476	457	76	822
30	635	590	570	560	530	890	660	524	508	581	498	254	533	508	76	910
33	669	640	611	600	580	918	699	576	559	624	549	279	583	559	100	960
36	740	710	680	670	630	990	780	630	610	692	597	305	635	610	100	1090
39	800	765	730	720	680	1090	835	680	660	750	645	330	690	660	100	1170
42	860	820	780	740	715	1170	890	733	715	807	695	355	745	715	100	1250
45	905	865	825	790	762	1240	945	785	762	865	746	381	794	762	100	1340
48	960	930	870	850	813	1320	1015	838	813	923	795	405	848	813	100	1444
51	1030	985	940	900	864	1400	1075	890	864	980	844	431	901	864	100	1530
54	1090	1040	990	945	915	1470	1135	942	915	1038	894	456	954	915	100	1614
60	1200	1150	1100	1045	1017	1650	1255	1047	1017	1153	993	507	1060	1017	127	1784



Flange dimensions

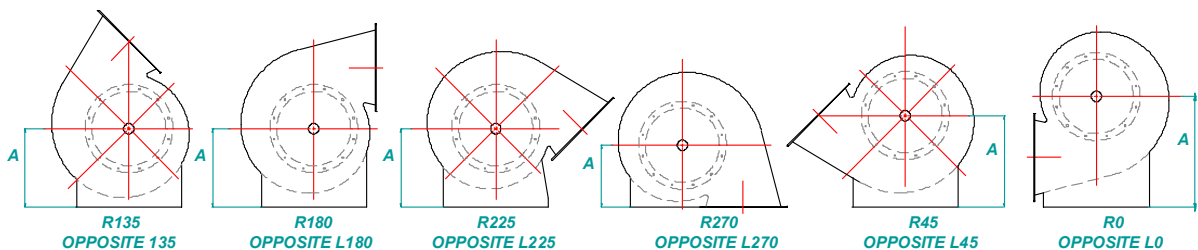
FAN SIZE	a	b	c	d	e	f	g	h	k
12	132	242	102	25	3	1	8	6	233
15	173	311	89	40	4	2	11	8	300
18	197	362	101.5	40	4	2	11	12	349
21	222	413	101.5	40	5	2	11	12	400
24	248	464	127	40	4	2	11	12	451
27	273	521	152.5	40	4	2	11	12	502
30	310	590	150	50	4	2	14	16	564
33	335	639	152.5	50	4	3	14	16	615
36	361	691	150	50	5	3	14	16	667
39	386	746	150	50	5	3	14	16	716
42	411	801	152.5	50	5	3	14	16	771
45	438	851	152.5	50	6	3	14	16	818
48	461	904	150	50	7	3	14	16	869
51	487	957	150	50	7	3	14	16	920
54	512	1010	150	50	7	4	14	16	971
60	587	1140	150	70	8	4	17	24	1087



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

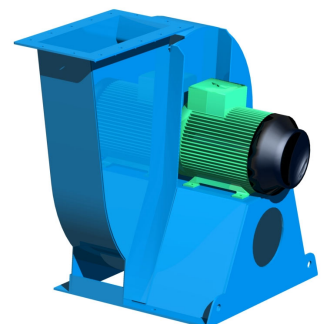
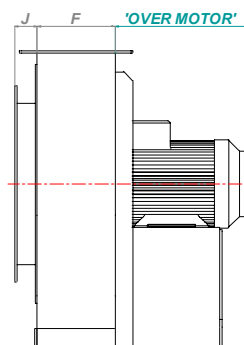
OUTLET FLANGE
d - SIZE OF OUTLET FLANGE
e - No. OF HOLES IN LONG SIDE
f - No. OF HOLES IN SHORT SIDE
g - SIZE OF HOLES

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)
12	D80	255	ADD 50
15	D90	275	ADD 50
18	D112	325	ADD 50
21	D160	495	ADD 70
24	D180	560	ADD 70
27	D200	700	ADD 70
30	D225S	735	ADD 100
33	D225M	775	ADD 100
36	D250S	845	ADD 100
39	D250M	890	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		D90	76	38	440	200	545		ADD 40	ADD 75
18	V3		D112			680	220	610		ADD 40	ADD 75
21	V4		D132			615	240	720		ADD 50	ADD 75
24	V5		D160			750	275	905		ADD 50	ADD 75
	V5		D160			775	260	905		ADD 50	ADD 75
27		M6	D200	125	65	1040	450	970	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	125	65	1040	450	970	1275	ADD 50	ADD 75
		M7	D225			1040	500		1430	ADD 70	ADD 100
		M8	D250			1200	550		1620	ADD 70	ADD 100
		M6	D200			1040	435		1275	ADD 50	ADD 100
36		M7	D225	150	75	1040	490	970	1430	ADD 70	ADD 100
		M8	D250			1200	540		1620	ADD 70	ADD 100
		M7	D225			1040	490		1430	ADD 70	ADD 100
39 - 45		M8	D250	150	75	1200	540	970	1620	ADD 70	ADD 100
		M9	D250			1200	585		1665	ADD 70	ADD 100
		M11	D280			1200	600		1805	ADD 70	ADD 100
		M9	D250			1200	610		1665	ADD 70	ADD 100
48 - 60		M11	D280	200	90	1200	630	970	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.

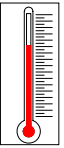
The Chinook fan range

		<p>The Halifax Chinook Fan series is a development from the mistral range and is intended for higher-pressure duties.</p> <p>The Chinook range now has two types of impeller design available;</p> <p>The traditional Backward Inclined impeller has good self-cleaning properties enabling it to be used downstream of cyclones, dust collectors etc. where product carry over is likely.</p> <p>The Backward Curved design has greater efficiency and a non-overloading characteristic for use in clean air-stream applications only.</p>	<ul style="list-style-type: none"> ➤ Development of the mistral fan but for higher-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 with non-overloading power characteristics.
			
			
			
			
			
			
			


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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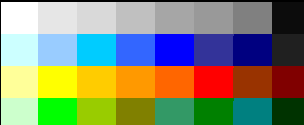
Temperature range

	<p>Standard Halifax Chinook 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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