

Bifurcated Cylindrical Axial Flow Fan

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Product Overview

- 6 standard sizes from 350mm to 630mm
- Air volume flow rates up to 3.819 m³/s
- Static pressures up to 1044 Pa
- Suitable for operating temperatures of up to +120°C
- Can be mounted at angles of up to 15°
- Available in AC



A range of roof mounted centrifugal fans which are designed to handle clean, grease laden or contaminated air, whilst providing easy access for cleaning.

High Temperature

Motors are situated out of the air stream and are not effected by contaminates in the ventilated air. The range is suitable for a wide range of applications from contaminated air to elevated temperatures up to +120°C.

Intelligent Design

Vertical discharge of air, projects odours away from potential occupied areas.

Easy Installation

Can be mounted at angles of up to 15° which means the fans can be fitted directly to pitched roofs.

Weather Resistance

Wind guard fitted as standard to reduce noise, and draughts entering the duct. Easily removable for cleaning and maintenance.

Controllability

The Eltadrive range of inverters has been designed encompassing the latest technology and combining robustness with reliability. Using an inverter to control fans via sensors to reduce fan speed can provide significant cost-savings through lower energy consumption.

Warranty

Each CFHT has a 12 month warranty.

Construction

The all metal fan casing provides a long lasting and robust construction. The casings are manufactured from pregalvanised sheet steel.

Motor

Motors are flange/foot mounted TEFC IP55, with sealed for life bearings, a standard industrial paint finish and Class F insulation to EN 60034-5.

Impeller

A free running impeller with 7 backwardscurved blades made of sheet steel with surface protection provided by powder coating. The rotating, non-fluted diffuser generates high efficiency levels and favourable acoustic characteristics.

Typical Applications

- Industrial
- Commercial Kitchens and Catering
- Hospitals
- Bakeries
- Forges and Foundries

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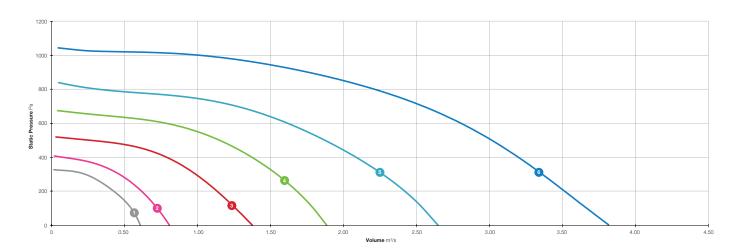
Product Coding

Code	Reference
CFHT	Product Range
400	Diameter (400/450/500)
1	
4	Number of Poles (2/4/6)
-	
3	Voltage Supply (Single Phase / Three Phase)
AC	Motor Type (AC/EC)
A - Z	Additional Coding (A - Z) Product Variants
e.g.	CFHT400 / 4 - 3AC

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Performance Range Curves



- 1 CFHT350 / 4-3AC
- 2 CFHT400 / 4-3AC
- 3 CFHT450 / 4-3AC
- 4 CFHT500 / 4-3AC
- 5 CFHT560 / 4-3AC
- 6 CFHT630 / 4-3AC



Performance, SFP & Electrical Data

Three Phase 380V to 415V/50Hz

Product	Speed Airflow M³/s @ Static Pressure Pa											At Best Efficiency Point		Electrical Data		dBA				
	r/min		0	25	50	75	100	150	200	250	300	350	400	500	Overall Eff %	Input kW	Peak Amps	Δ/Υ	@ 31	m
0=11=0=0/4 0.1.0		m³/s	0.610	0.597	0.582	0.565	0.546	0.494	0.426	0.343	0.227	-	-	-	00.0		0.71	Mains	Inlet	48
CFHT350/4-3AC	1445	W/(L/s)	0.30	0.32	0.35	0.37	0.40	0.47	0.56	0.70	0.97	-	-	-	36.2	0.240			Outlet	51
0=11=400/4 040	4.405	m³/s	0.809	0.789	0.769	0.747	0.725	0.675	0.618	0.550	0.464	0.343	0.075	-	37.1 0.378	0.070	1.01	Mains	Inlet	53
CFHT400/4-3AC	1435	W/(L/s)	0.36	0.38	0.41	0.43	0.46	0.52	0.59	0.69	0.81	1.03	3.22	-		0.378			Outlet	54
		m³/s	1.375	1.347	1.318	1.289	1.260	1.199	1.134	1.065	0.988	0.899	0.789	0.269	50.0 0.636	0.000	4.40	40 Maine	Inlet	54
CFHT450/4-3AC	1445	W/(L/s)	0.32	0.34	0.36	0.38	0.40	0.45	0.50	0.56	0.63	0.70	0.80	1.57		1.16	Mains	Outlet	60	
OFUTF00/4 04 0	4.470	m³/s	1.886	1.864	1.842	1.818	1.794	1.740	1.681	1.615	1.542	1.462	1.371	1.148	54.0	4.000	2.21	Mains	Inlet	60
CFHT500/4-3AC	1470	W/(L/s)	0.40	0.41	0.43	0.44	0.46	0.50	0.54	0.59	0.64	0.70	0.76	0.92	54.2	54.2 1.063			Outlet	64
0=11==00/4 040		m³/s	2.646	2.622	2.597	2.571	2.543	2.484	2.418	2.346	2.266	2.179	2.084	1.870	50.5	4.000			Inlet	61
CFHT560/4-3AC	1455	W/(L/s)	0.53	0.54	0.56	0.58	0.60	0.64	0.68	0.72	0.77	0.82	0.88	1.00	52.5 1.833	3.27	Mains	Outlet	64	
OFUT000/4 04 0	4.470	m³/s	3.819	3.779	3.741	3.702	3.665	3.590	3.515	3.439	3.361	3.281	3.197	3.015	50.0	0.000	F 70	Maine	Inlet	65
CFHT630/4-3AC	1472	W/(L/s)	0.53	0.54	0.56	0.58	0.60	0.63	0.67	0.71	0.75	0.80	0.84	0.94	58.6	6 3.060	5.76	Mains	Outlet	70

Data provided is at standard air density of 1.2 kg/m³.

Data in accordance with ErP 1253/2014 of the European Parliament. Product category is NRVU. Measurement category used to determine energy efficiency: C. A variable speed drive (Eltadrive) must be installed with this fan. Peak Amps @ 400V / 3PH / 50Hz.

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20µPa and is presented for comparative purposes only.

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Sound Data

Three Phase 380V to 415V/50Hz

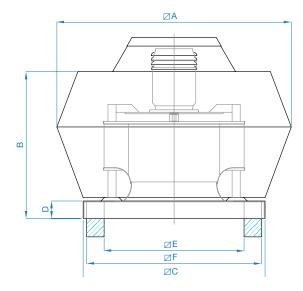
			Sound Power Level dBW @ Octave Band Hz									
Product Code	Speed r/min		63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Total dB	
CFHT350/4-3AC		Inlet	60	73	70	66	62	60	56	53	76	
01111000/4 0/40	1445	Outlet	60	73	73	68	67	62	56	51	77	
CFHT400/4-3AC 143	1435	Inlet	64	71	71	69	69	66	61	58	77	
		Outlet	64	74	75	70	70	65	60	58	79	
CFHT450/4-3AC	1445	Inlet	65	77	75	69	67	67	66	64	80	
		Outlet	69	76	76	75	76	75	66	63	83	
CFHT500/4-3AC		Inlet	67	85	81	75	71	71	72	74	87	
	1470	Outlet	71	80	79	79	80	79	73	75	87	
CFHT560/4-3AC		Inlet	70	85	83	77	73	73	72	72	88	
G1111300/4-0A0	1455	Outlet	77	85	82	82	80	77	73	71	89	
CFHT630/4-3AC	4.470	Inlet	74	90	89	80	78	76	74	74	93	
	1472	Outlet	78	89	90	87	85	84	76	74	95	



Dimensional Data

Single & Three Phase

Product Code	А	В	С	D	E	F	Weight kg
CFHT350/4-3AC	662	526	520	50	400	500	44
CFHT400/4-3AC	666	547	520	50	400	500	47
CFHT450/4-3AC	903	707	740	60	620	720	75
CFHT500/4-3AC	903	745	740	60	620	720	84
CFHT560/4-3AC	903	789	740	60	620	720	87
CFHT630/4-3AC	1158	919	830	60	710	810	120



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^{*}The higher weight shown applies to the /4-2 & /4-3 versions.



Accessories

Three Phase 380V to 415V / 50Hz

Product Code	Eltadrive Variable Speed Drive 1PH-3PH IP66	Eltadrive Variable Speed Drive 1PH-3PH IP20	Eltadrive Variable Speed Drive 3PH-3PH IP66	Eltadrive Variable Speed Drive 3PH-3PH IP20	Wiring Diagram
CFHT350/4-3AC	149-ODE3-12037-1KB1Y	149-ODE3-12037-1KB12	149-ODE3-14075-3KA1Y	149-ODE3-14075-3KA12	152-600
CFHT400/4-3AC	149-ODE3-12075-1KB1Y	149-ODE3-12075-1KB12	149-ODE3-14075-3KA1Y	149-ODE3-14075-3KA12	152-600
CFHT450/4-3AC	149-ODE3-12075-1KB1Y	149-ODE3-12075-1KB12	149-ODE3-14150-3KA1Y	149-ODE3-14150-3KA12	152-600
CFHT500/4-3AC	149-ODE3-12150-1KB1Y	149-ODE3-12150-1KB12	149-ODE3-14150-3KA1Y	149-ODE3-14150-3KA12	152-600
CFHT560/4-3AC	149-ODE3-12150-1KB1Y	149-ODE3-12150-1KB12	149-ODE3-14150-3KA1Y	149-ODE3-14150-3KA12	152-600
CFHT630/4-3AC	-	=	149-ODE3-24400-3KA4Y	149-ODE3-24400-3KA42	152-600

Notes	

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Notes	



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