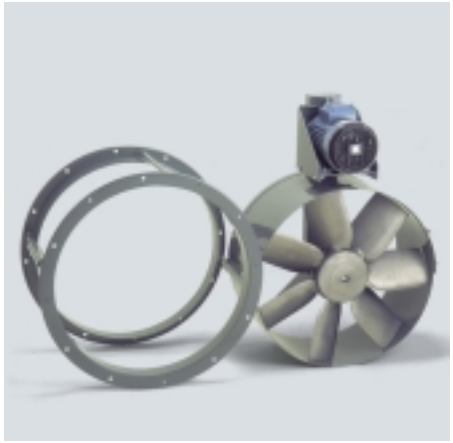
CYLINDRICAL CASED AXIAL FLOW FANS
TTT Series, Special Application Belt Drive Fans



Description

The TTT range of belt-drive Special Application Cased Axial Fans consists of six nominal diameters 450, 500, 560, 630, 710 and 800mm respectively. All models are available with three phase motors in four pole (4) speed and two (models 450 – 630) or three (models 710 & 800) impeller blade angles. All motors are located externally to the fan casing and incorporate a belt driven impeller. Once installed the complete motor/ impeller assembly can be accessed (without removing from duct work) via the swing-out fan casing assembly.

Applications

The TTT range are designed to be mounted within, or at the end of ducted ventilation systems. They are suitable for many special industrial applications including:
– Paint cabin extract ventilation.
– Extract of hot gases up to 150 ºC.
– Extract of corrosive / harmful gases – please enquire.

Before installation, it is important to check that the product electrical characteristics listed on the data plate label (voltage, power, frequency etc), match those of the intended electrical supply.

Construction

Casing
The cylindrical flanged casings are manufactured from high grade rolled galvanised sheet steel. The drive system consists of an industrial V-belt drive pulley system which is enclosed within a metal protective guard. For cleaning or maintenance, once installed the complete motor and impeller assembly can be accessed (without removing from duct work) via the swing-out fan casing assembly.

Impeller
All models incorporate die cast aluminium impellers available with two (models 450 – 630) or three (models 710 & 800) fixed blade angles. The motor and impeller assemblies are dynamically balanced to ISO1940 standards.

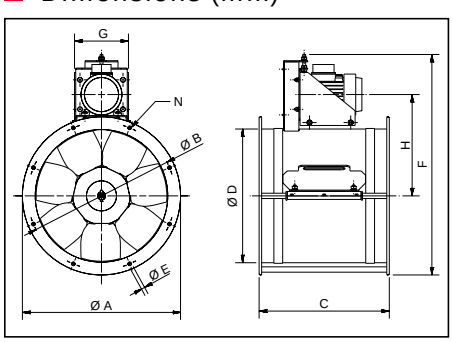
Motors
All models incorporate asynchronous induction motors with squirrel cage rotor in die cast aluminium. The following standard specifications apply:
– Three Phase – 230/400 V 50 Hz
– IP-55 protection
– Class F insulation system.
– Sealed for life ball bearing assemblies

Special Versions: (Please enquire)
– Non-standard voltage and frequencies.
– Single Phase Motors.

Technical characteristics

Type	Speed (r.p.m.)	Diameter (mm)	Max. power absorbed (kW)	Maximum absorbed current (A)		Maximum air volume (m^3/h)	Sound pressure level (dB(A))	Weight (kg)
				230 V	400 V			
TTT/4-450-L	1430	450	0,37	2,10	1,20	5400	70	22
TTT/4-450-H	1415	450	0,55	2,90	1,70	7500	72	25
TTT/4-500-L	1415	500	0,55	2,90	1,70	8200	73	37
TTT/4-500-H	1415	500	0,75	3,80	2,20	10800	75	38
TTT/4-560-L	1415	560	0,75	3,80	2,20	12150	76	32
TTT/4-560-H	1410	560	1,1	4,50	2,60	14000	78	35
TTT/4-630-L	1410	630	1,1	4,50	2,60	16000	77	47
TTT/4-630-H	1420	630	1,5	6,10	3,50	17350	78	50
TTT/4-710-L	1410	710	1,1	4,50	2,60	19700	81	57
TTT/4-710-G	1420	710	1,5	6,10	3,50	21900	82	60
TTT/4-710-H	1430	710	2,2	8,30	4,80	23700	83	64
TTT/4-800-L	1430	800	2,2	8,30	4,80	26000	90	76
TTT/4-800-G	1430	800	3	11,30	6,50	27500	92	79
TTT/4-800-H	1435	800	4	–	8,60	32000	95	82

Dimensions (mm)



Type	Ø A	Ø B	C	Ø D	Ø E	F	G	H	Nº of holes N
TTT/4-450	537	500	442	450	12	749	183	344	8
TTT/4-500	595	560	450	500	12	803	183	369	12
TTT/4-560	655	620	450	560	12	903	208	420	12
TTT/4-630	725	690	450	630	12	978	208	458	12
TTT/4-710	806	770	490	710	12	1085	228	519	16
TTT/4-800	896	860	490	800	12	1184	253	573	16

Performance curves

– Q = Air volume in, m^3/hr and m^3/s
– Pe = Static pressure in mmWG and Pa.
– Dry air at 20 ºC and 760 mmHg.
– Air flow data in accordance with the following standards: UNE 100-212-89, BS 848, Part 1, AMCA 210-85 and ASHRAE 51-1985.