CTH3 F400

ROOF FAN, ABS COWL 400ºC/2h

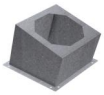
MANUFACTURING FEATURES
• Roof cowl made of ABS
• Structure, roof base support and bird protection guard made of galvanised steel.
• High efficiency backward impeller with self-cleaning system of steel.
• Standard asynchronous motor with IP-55 protection and Class F insulation.
Manufactured with standard voltages: 230V 50Hz in single phase motors, 230/400V 50Hz in three phase motors and 400V 50Hz in 2 speed motors.

APPLICATIONS
Specially designed for roof installation, they are suitable for:
• Smoke extraction.
• Smoke emergency exhaust with motor outside the hazardous area.
• Air renewal in buildings and industries.
• Industrial and professional kitchen hoods.
• Maximum continuous working temperature: carried air 80ºC, environment 60ºC for three phase and 50ºC for single phase motors.

Official homologation by the European laboratory APPLUS according to EN 12101-3:2015
Certification Nr: 0370-CPR-2656

*limited stock available

Accessories



BTI

INT

INT 400

KB

KF

KV CTH3

SFC

Technical data

Single-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
279310103	CTH3 315 M4 0,25kW F400	1410	1,6	0,25	2.190	43	15	1

Three-phase motor / 4 poles

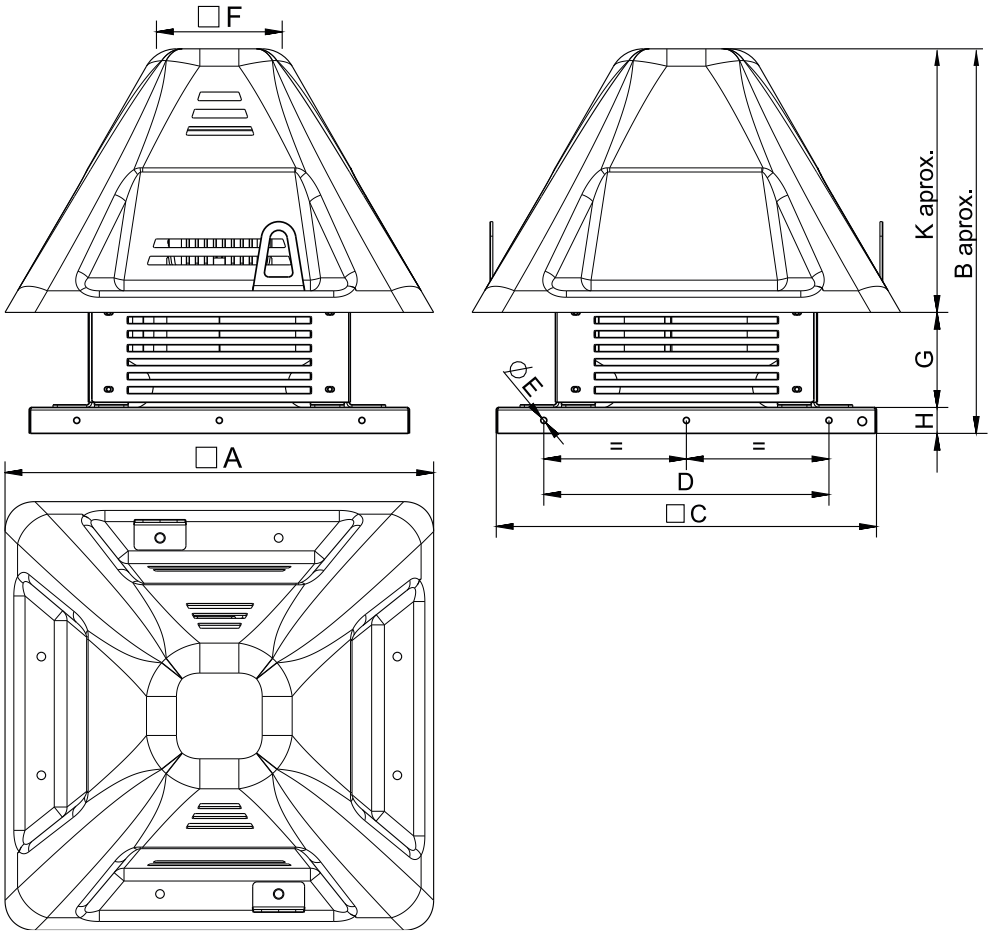
Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
279310106	CTH3 315 T4 0,25kW F400	1400	1,38	0,79	0,25	2.190	43	15	2

2 speed motor / 4/8 poles

Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
2793101062V	CTH3 315 T4/T8 0,25/0,03kW F400	1370	1,13/0,37	0,25	2.190	43	15	3

Notes:
** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions

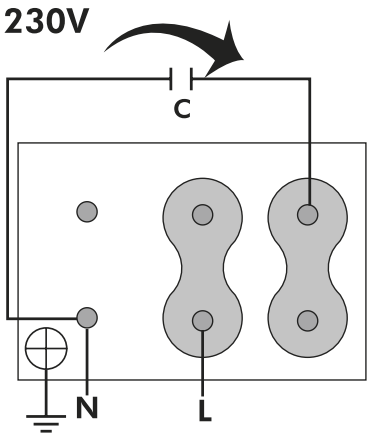


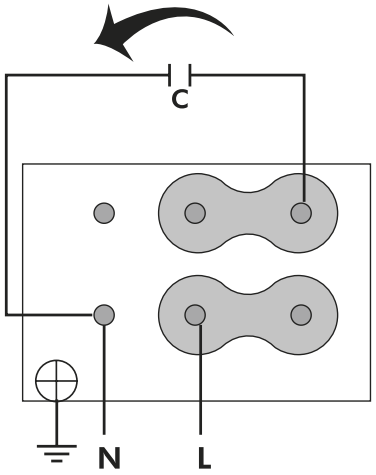
Model	A	B aprox	C	D	E	F	G	H	K aprox
CTH3 315 M4 0,25kW F400	616	548	595	450	9	240,2	183	40	325
CTH3 315 T4 0,25kW F400	616	548	595	450	9	240,2	183	40	325
CTH3 315 T4/T8 0,25/0,03kW F400	616	548	595	450	9	240,2	183	40	325

Model	Ø duct	Øinlet
CTH3 315 M4 0,25kW F400	315	211
CTH3 315 T4 0,25kW F400	315	211
CTH3 315 T4/T8 0,25/0,03kW F400	315	211

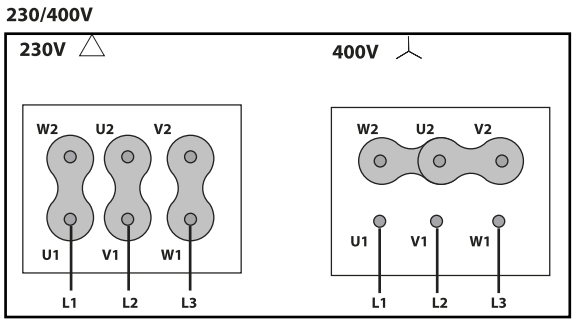
Wiring diagram

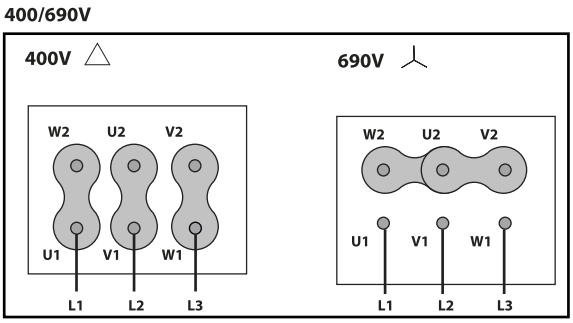
Wiring diagram Nº 1





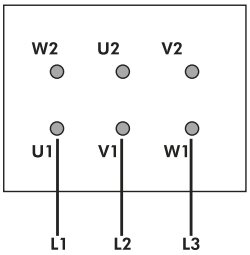
Wiring diagram Nº 2



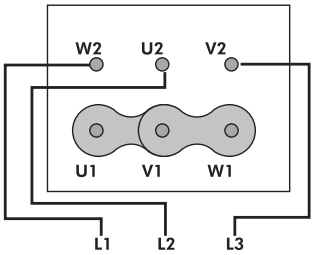


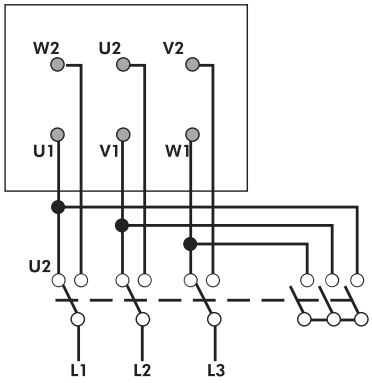
Wiring diagram Nº 3

LOW SPEED
VELOCIDAD BAJA



HIGH SPEED
VELOCIDAD ALTA

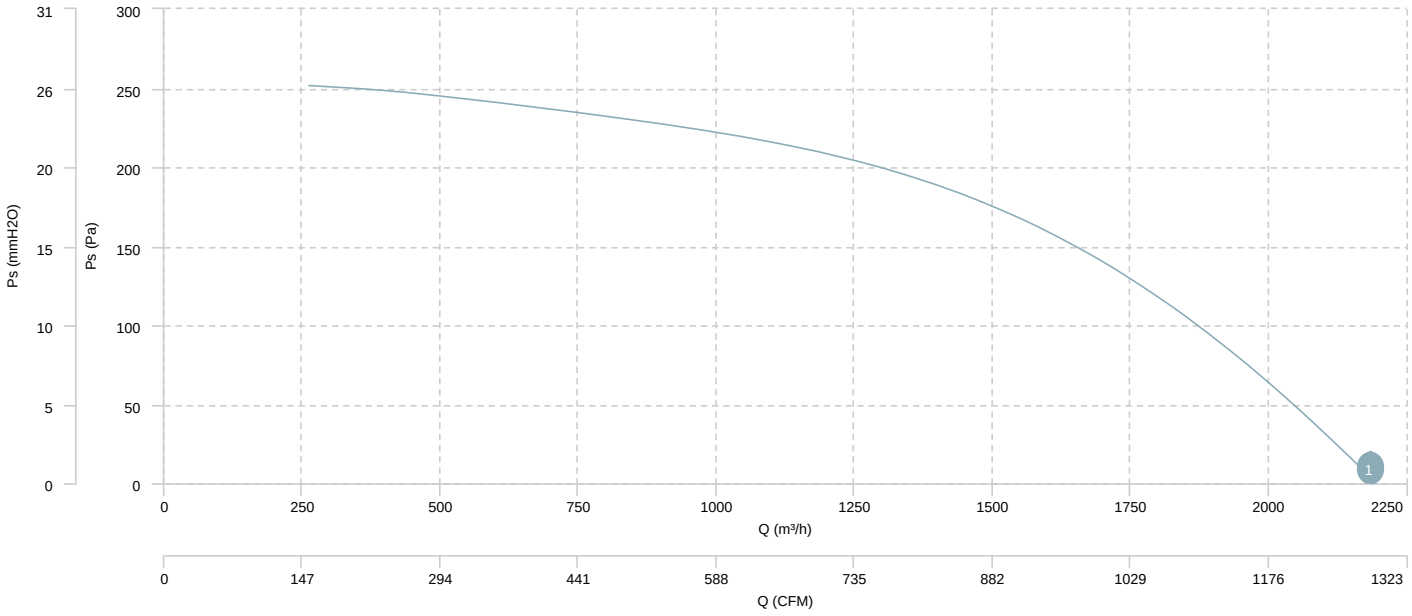




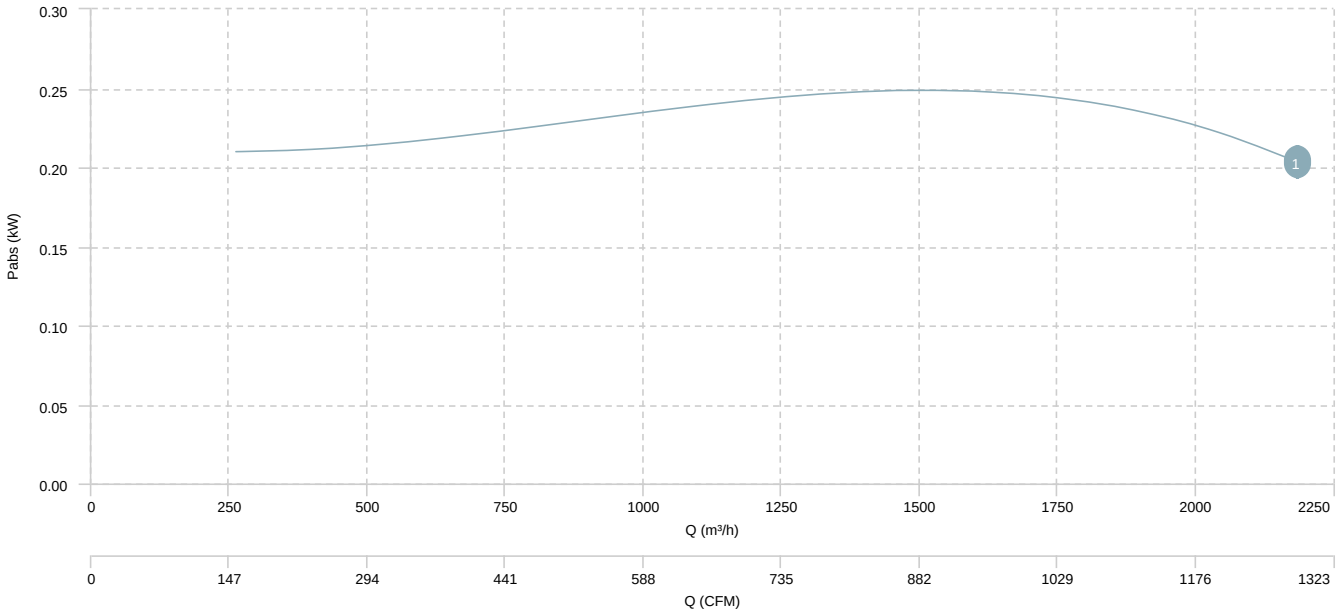
CHARACTERISCTIC CURVE

1 CTH3 315 M4 0,25kW F400

AIR FLOW - PRESSURE

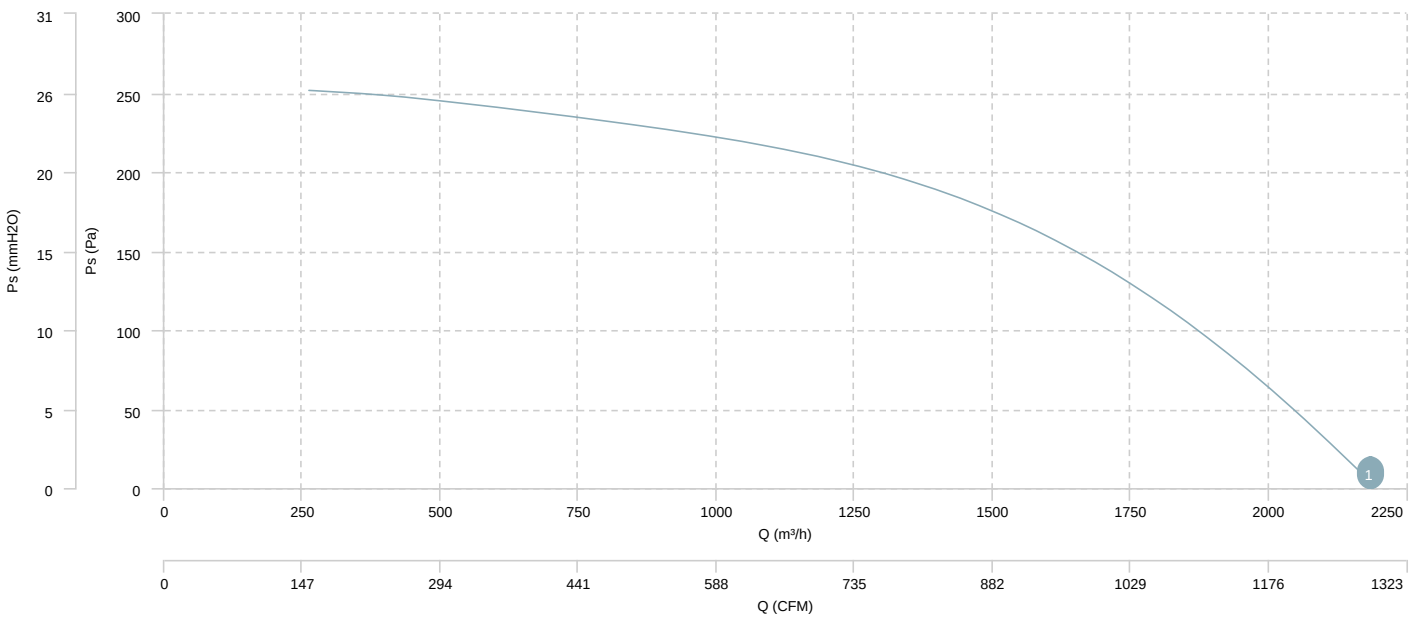


AIR FLOW - ABSORBED POWER

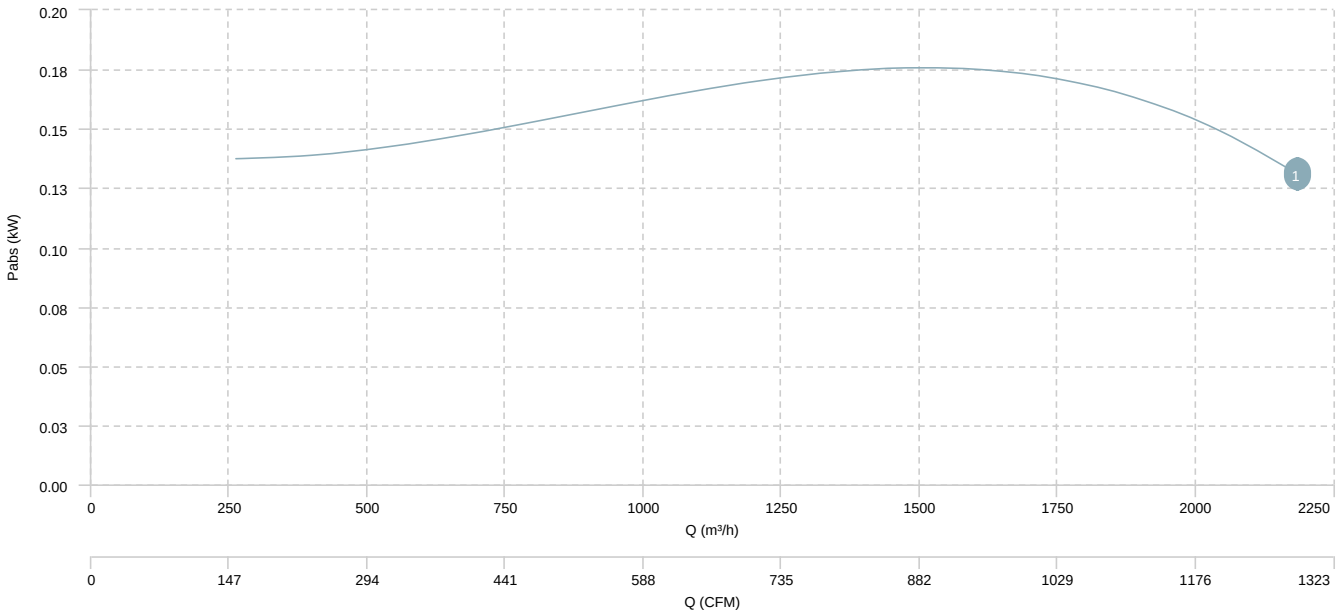


1 CTH3 315 T4 0,25kW F400

AIR FLOW - PRESSURE

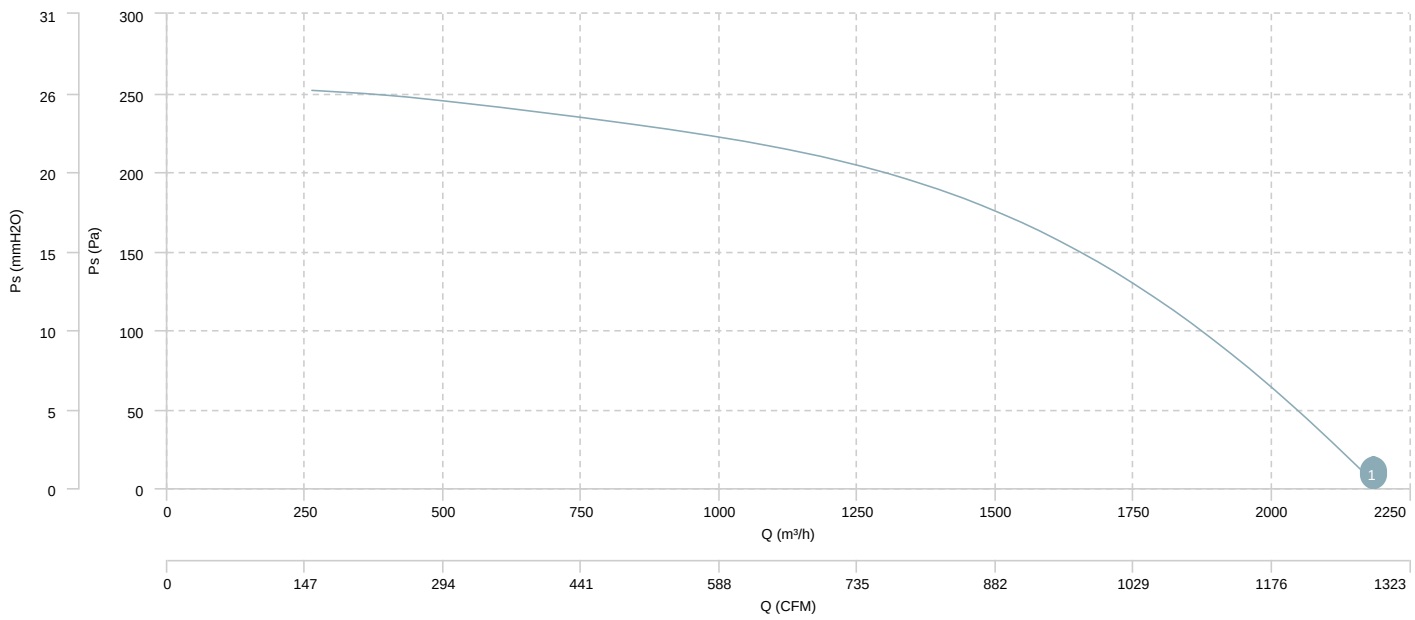


AIR FLOW - ABSORBED POWER



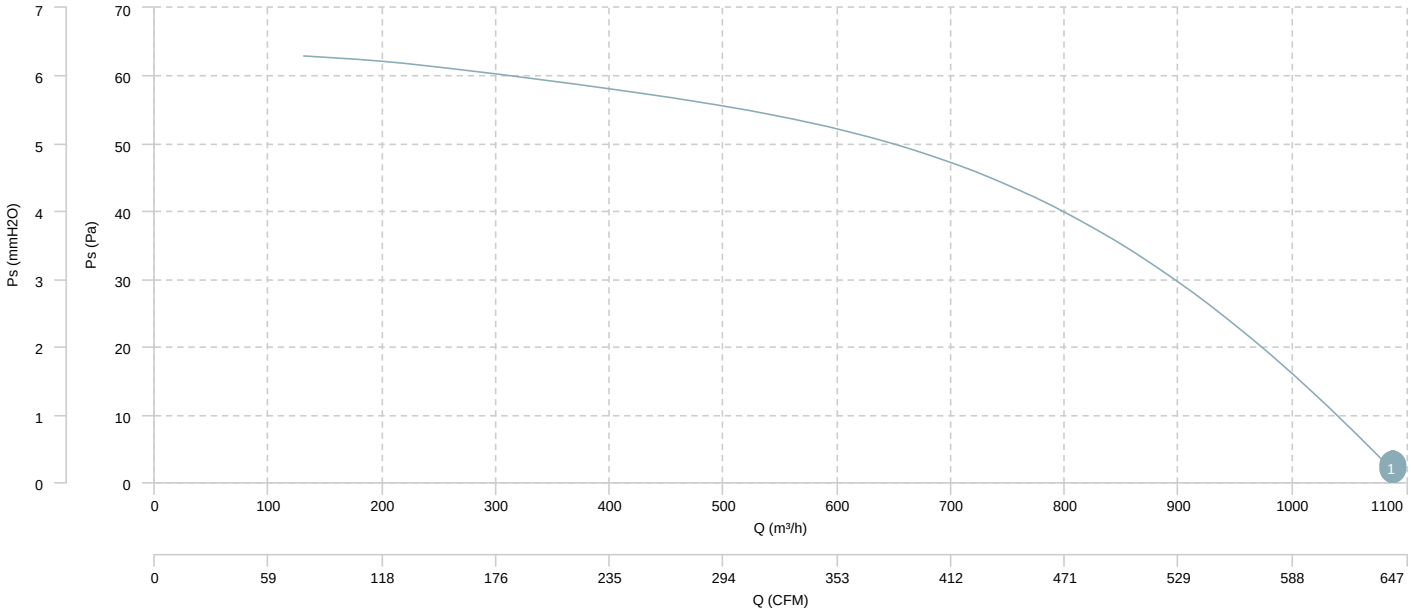
1 CTH3 315 T4/T8 0,25/0, 03kW F400

AIR FLOW - PRESSURE (4 poles)



1 CTH3 315 T4/T8 0,25/0, 03kW F400

AIR FLOW - PRESSURE (8 poles)



Sound data

Sound / 4 poles

Sound power Lw dB (A)										
Model		**63 Hz**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**Total**
CTH3 315 M4 0,25kW F400	Inlet	46	54	59	62	63	62	58	55	69
CTH3 315 T4 0,25kW F400	Inlet	46	54	59	62	63	62	58	55	69

Sound / 4/8 poles

Sound power Lw dB (A)										
Model		**63 Hz**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**Total**
CTH3 315 T4/T8 0,25/0,03kW F400 (8p (±750rpm))	Inlet	30	38	42	46	47	45	42	39	52

Notes:
* To calculate the sound power level at different rpm from those indicated above, use the following formula:

$$\text{Lw dB(A)}_{\text{rpmA}} = \text{Lw dB(A)}_{\text{rpmB}} + 52.5 \cdot \log_{10} \frac{\text{rpmA}}{\text{rpmB}}$$

erp data

ERP	
Fan type	Unit for non-residential ventilation (LOT 6)
Typology	Unidirectional
Others	None
Type of driver	-

ERP / 4 poles

		Maximum efficiency point data						
Model	**Motor power (kW)**	**Eff.Heat recovery (%)**	**Max. efficiency (%)**	**Pabs (kW)**	**Air Flow (m^3/h)**	**Ps (Pa)**	**Speed (m/s)**	**SFP (W/m3/s)**
CTH3 315 T4 0,25kW F400	0,25	-	43,40	0,17	1.356,94	193,59	4.84	462,06