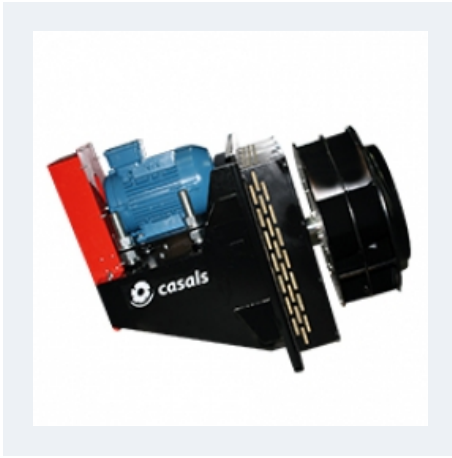


CLIBOS-TR



CENTRIFUGAL FAN TO REACT, DRIVEN TO TRANSMISSION FOR THE RECIRCULATION OF HOT GASES

CONSTRUCTIVE FEATURES:

- Centrifugal transmission fan of medium pressure type plug fan.
- Insulated box made of carbon laminated steel, protected against corrosion by powder coating of anticaloric painting. Finish C3.
- High density rock wool insulation, 90Kg/m3, thickness 150mm..
- Self-cleaning turbine and reinforced impeller of backward (reaction) high performance blades manufactured in carbon laminated steel dynamically balanced to minimize noise and vibrations. Anti-heat paint of black color.
- Transmission Assembly with protections according to ISO 13857 standard.
- High efficiency belt without maintenance.
- Heavy duty bearings.
- IE3 motor for continuous operation (S1) Squirrel cage standardized asynchronous IEC motor with IP-55 protection and Class F electrical insulation. Standard voltages 230/400V 50for three phase motors Up to 4kW and 400 / 690V 50Hz for higher powers.
- Motor with legs (B3) supported on a bench.
- Maximum continuous working temperature ambient (motor): 60°C.
- Suitable for transferring gases from -40°C to 350°C continuously due to cooling impeller

Accessories



APPLICATIONS:

Plug-type installation made for the recirculation of gases in:

- Ovens
- Boilers
- Paint booths
- Drying of tobacco, barley, ceramic, glass and wood leaves
- Insulated thermal cameras subjected to temperature control
- Burners and incinerators
- Melting furnaces

ON DEMAND:

- Fans for special voltages
- Motor 2 Speed
- Manufacturing in special steels for work Up to 550°C in continuous
- Other Insulation thicknesses (200mm)
- Inox 304
- Inox 316
- Sparking proof construction
- Other sizes
- Other motors according to customer requirements

Technical data

Three-phase motor

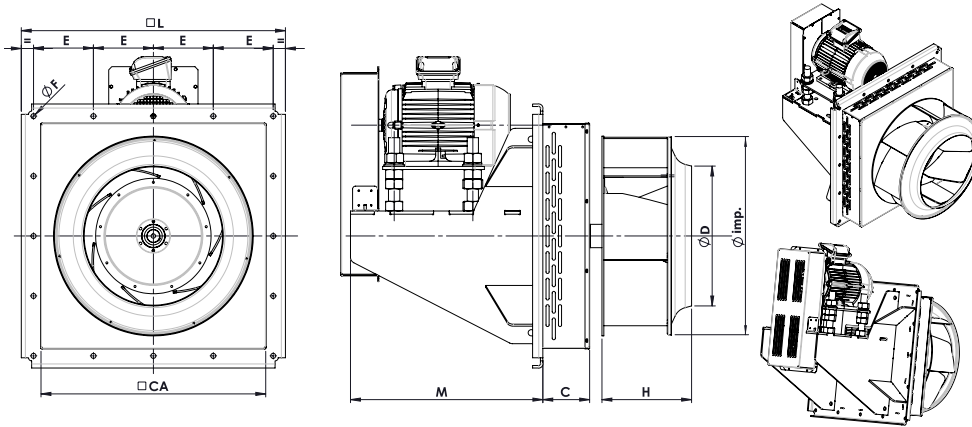
Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
	CLIBOS-TR 451 T4	1500 - 2700	2,20	5,50	12.810	-	216	1
	CLIBOS-TR 501 T4	1800 - 2400	3,00	7,50	15.650	-	220	1
	CLIBOS-TR 561 T4	1500 - 2200	3,00	9,20	20.100	-	260	1
	CLIBOS-TR 631 T4	1400 - 1900	4,00	11,00	25.180	-	270	1
	CLIBOS-TR 711 T4	1200 - 1700	5,50	15,00	32.230	-	398	1
	CLIBOS-TR 801 T4	1100 - 1600	7,50	22,00	43.370	-	416	1

Notes:

* The motor is not included in fan weight

** 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



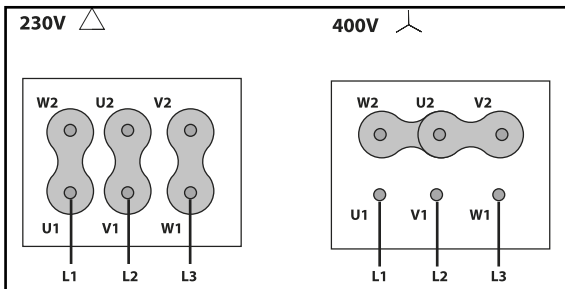
Model	C	CA	E	F	H	L	M (MOT. 100-132)	M (MOT. 160-180)	ØD
CLIBOS-TR 451 T4	147,5	660	177	16	262	782	614.5	765	321
CLIBOS-TR 501 T4	147,5	660	177	16	282	782	614.5	765	359
CLIBOS-TR 561 T4	147,5	720	192	16	309	846	616.5	767	399
CLIBOS-TR 631 T4	147,5	720	192	16	341	846	616.5	767	448
CLIBOS-TR 711 T4	147,5	870	233	18	371	1016	616.5	767	502
CLIBOS-TR 801 T4	147,5	870	233	18	412	1016	616.5	767	570.5

Model	Øimp.
CLIBOS-TR 451 T4	450
CLIBOS-TR 501 T4	500
CLIBOS-TR 561 T4	560
CLIBOS-TR 631 T4	630
CLIBOS-TR 711 T4	710
CLIBOS-TR 801 T4	800

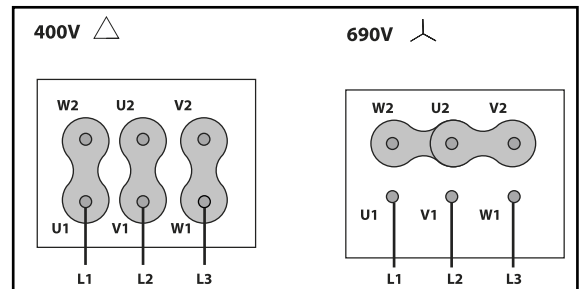
Wiring diagram

DIAGRAM N° 1

230/400V



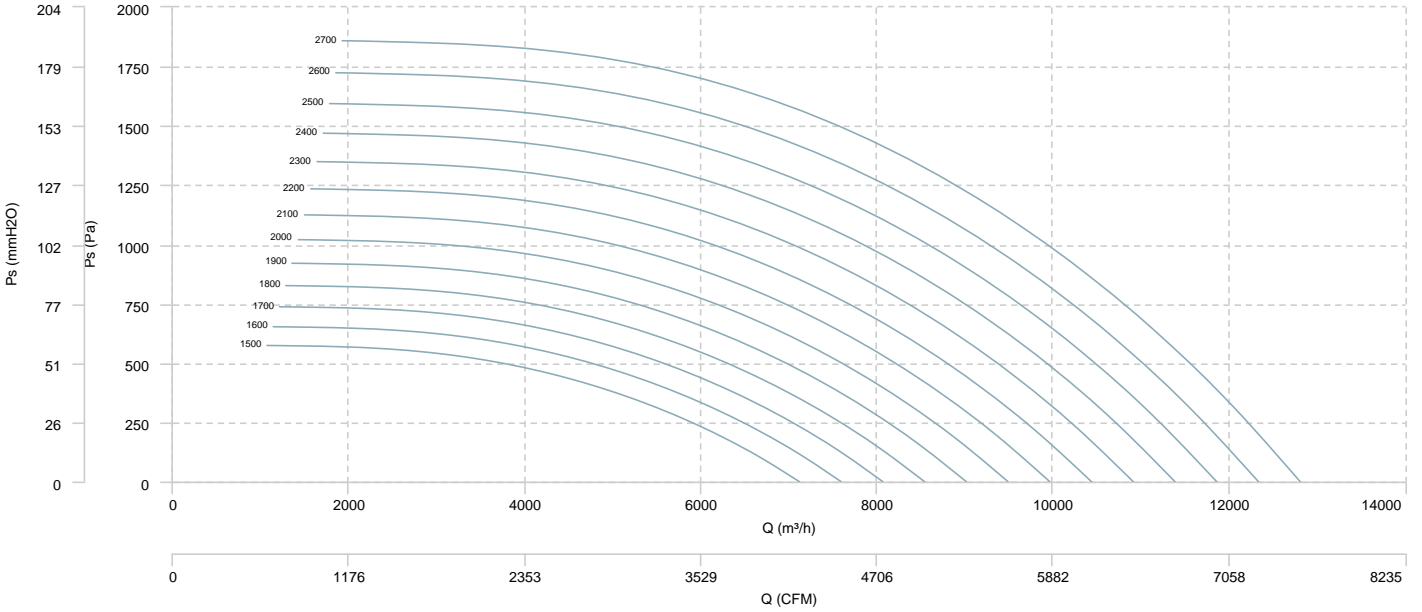
400/690V



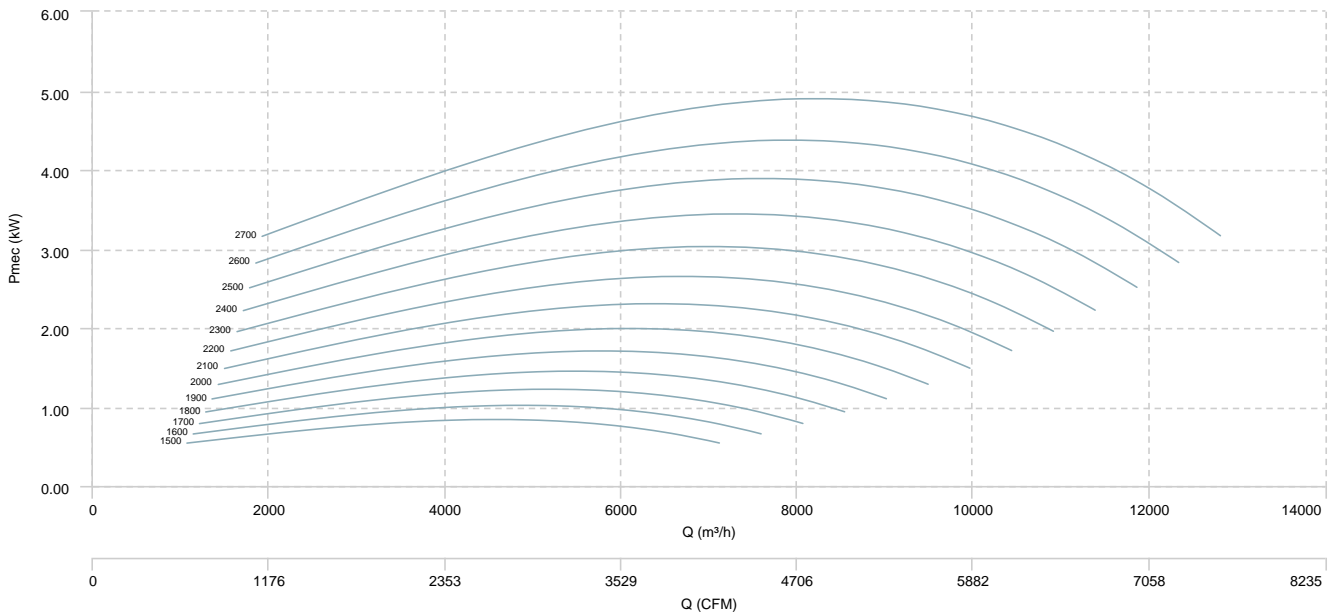
CHARACTERISTIC CURVE

CLIBOS-TR 451 T4

AIR FLOW - PRESSURE

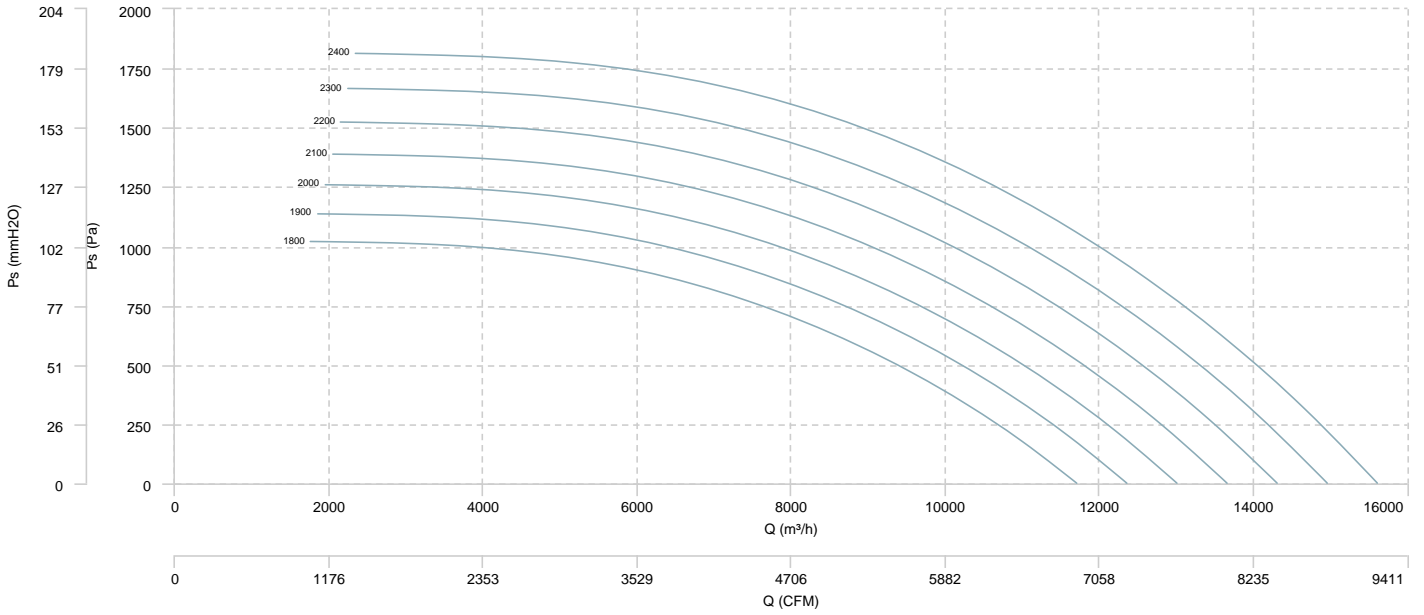


AIR FLOW - MECHANICAL POWER

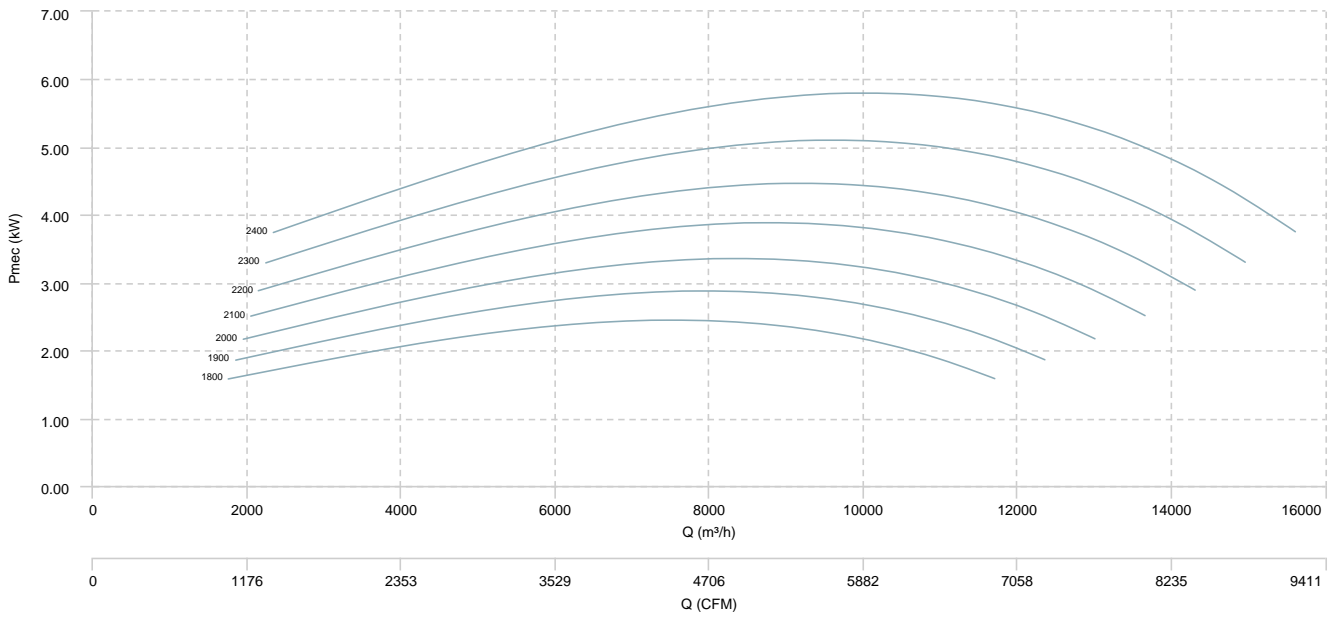


CLIBOS-TR 501 T4

AIR FLOW - PRESSURE

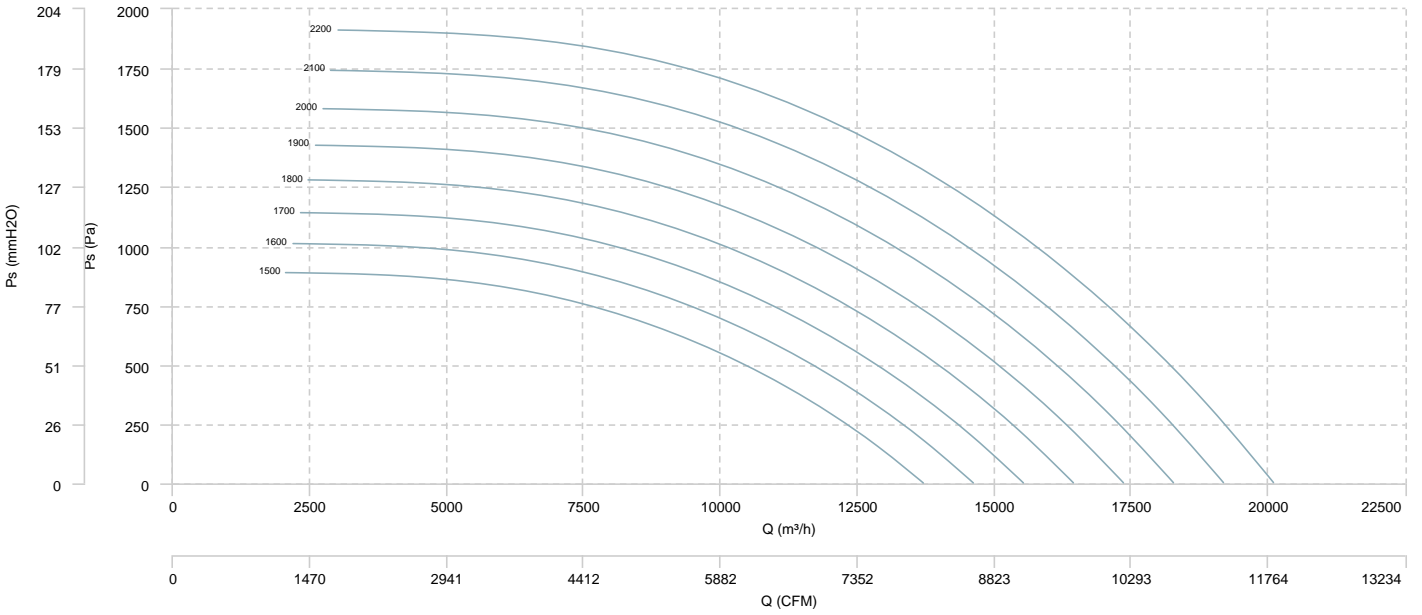


AIR FLOW - MECHANICAL POWER

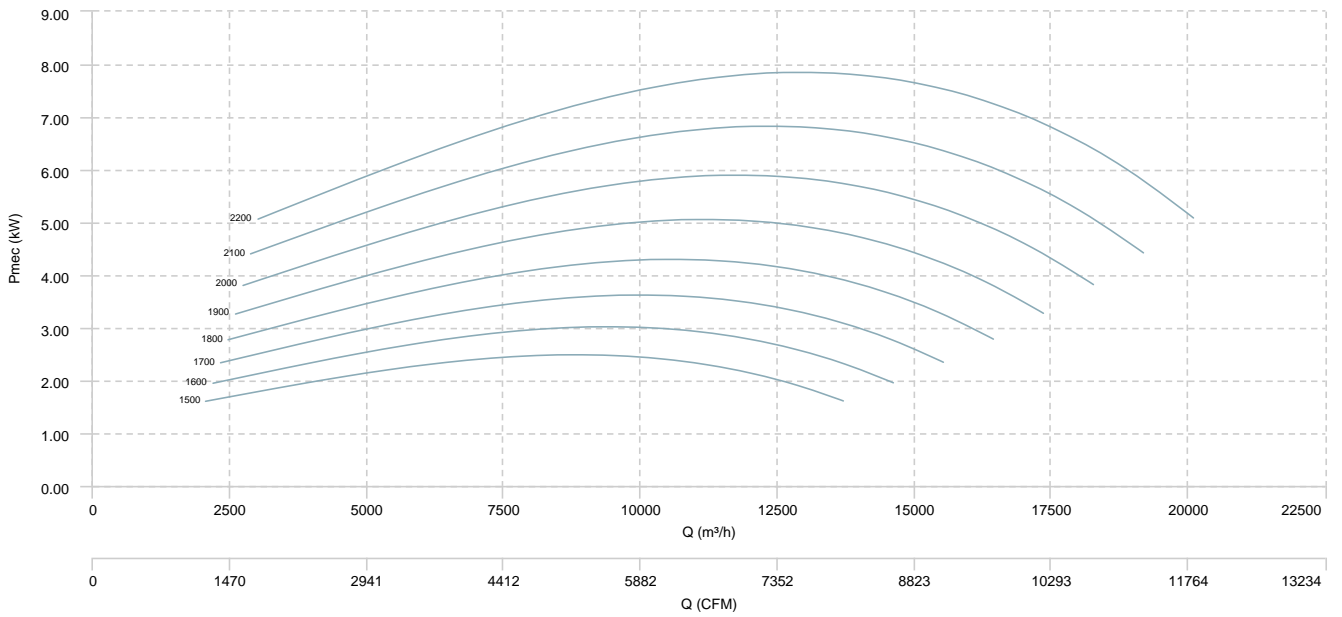


CLIBOS-TR 561 T4

AIR FLOW - PRESSURE

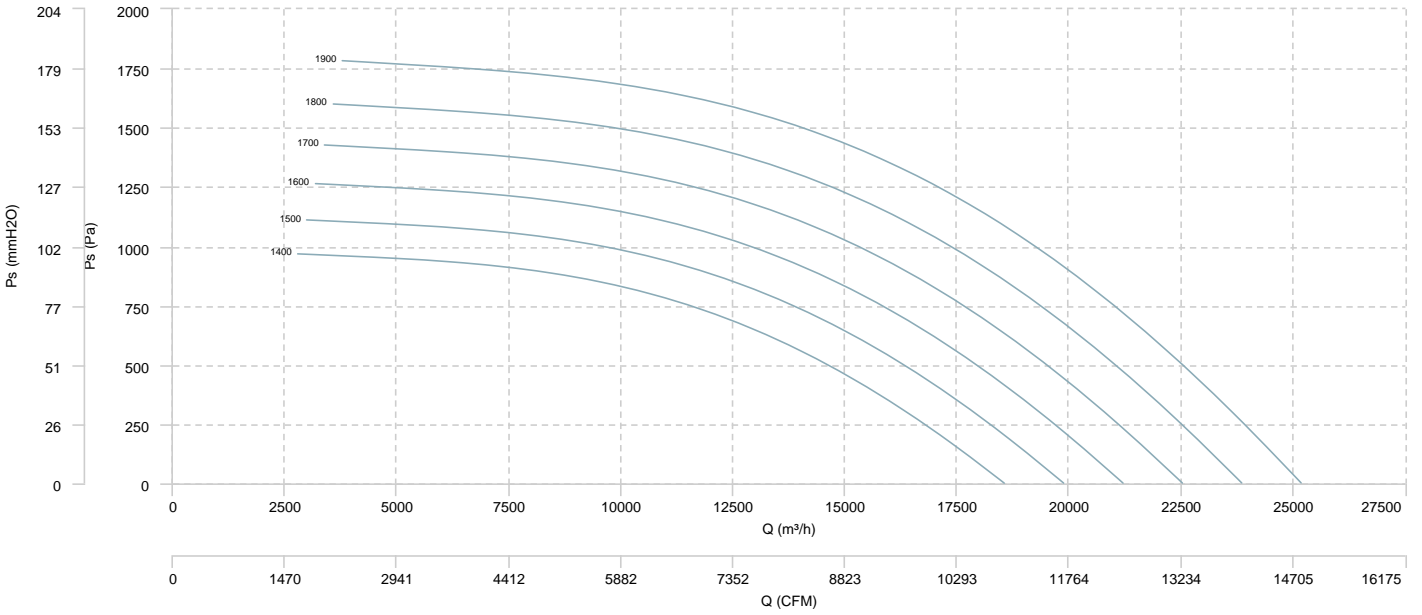


AIR FLOW - MECHANICAL POWER

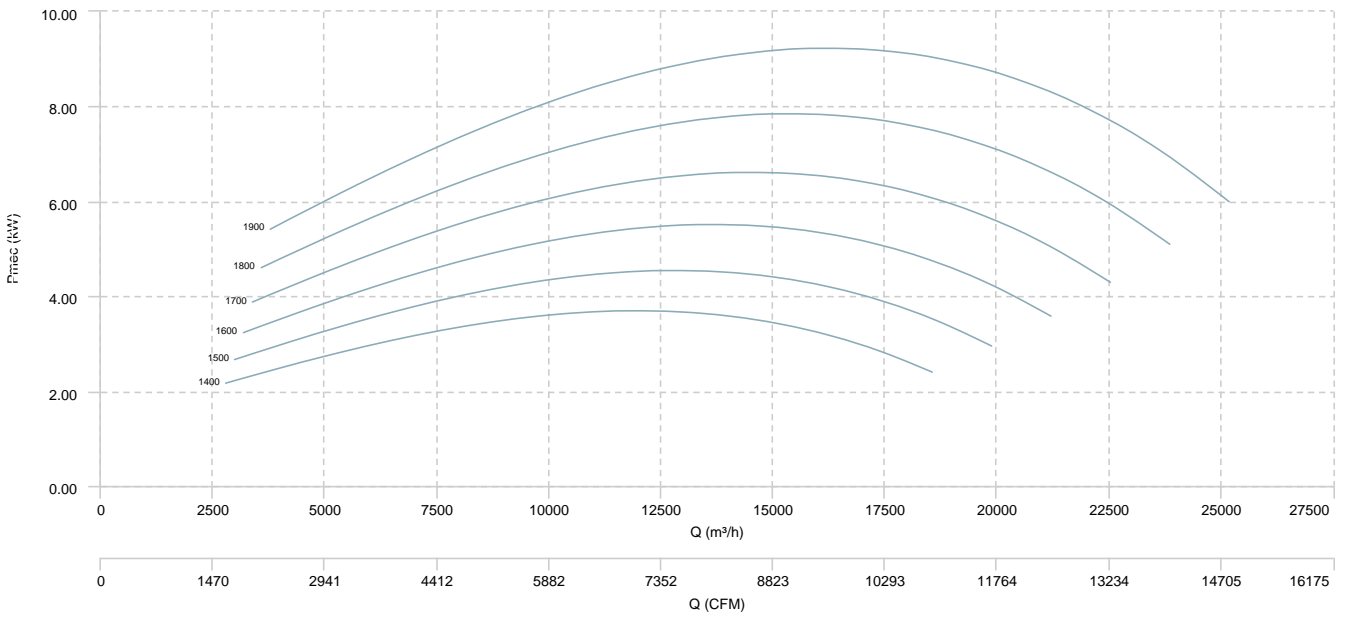


CLIBOS-TR 631 T4

AIR FLOW - PRESSURE

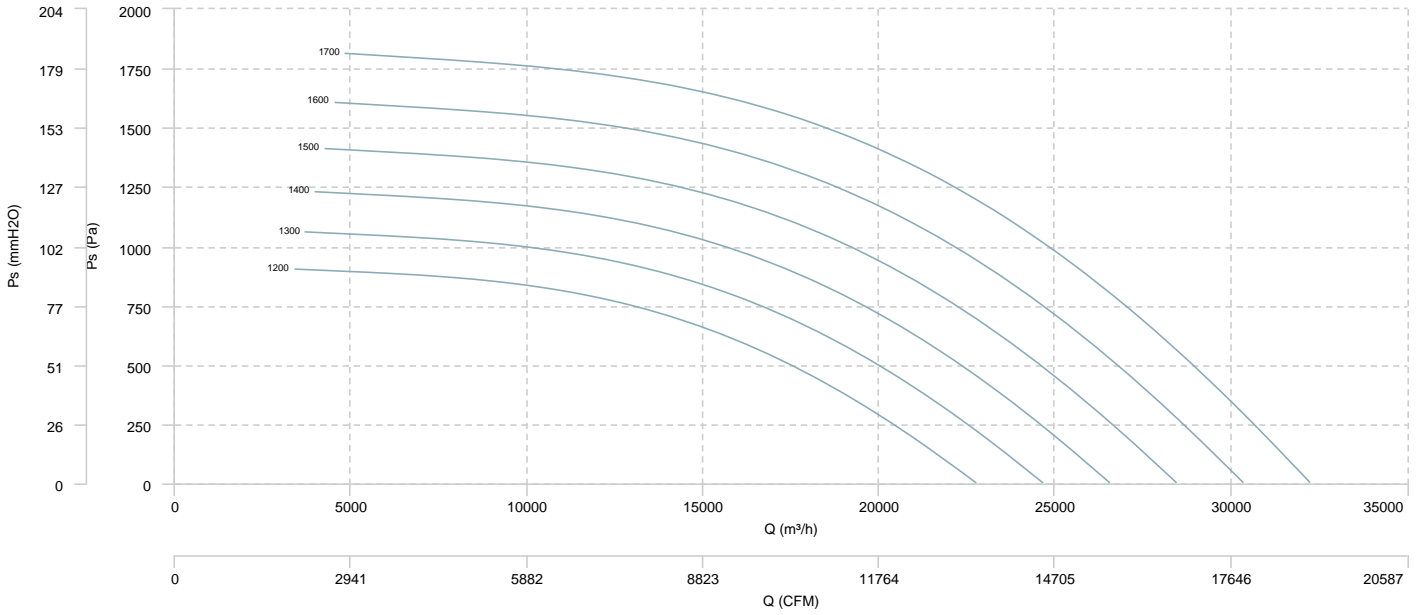


AIR FLOW - MECHANICAL POWER

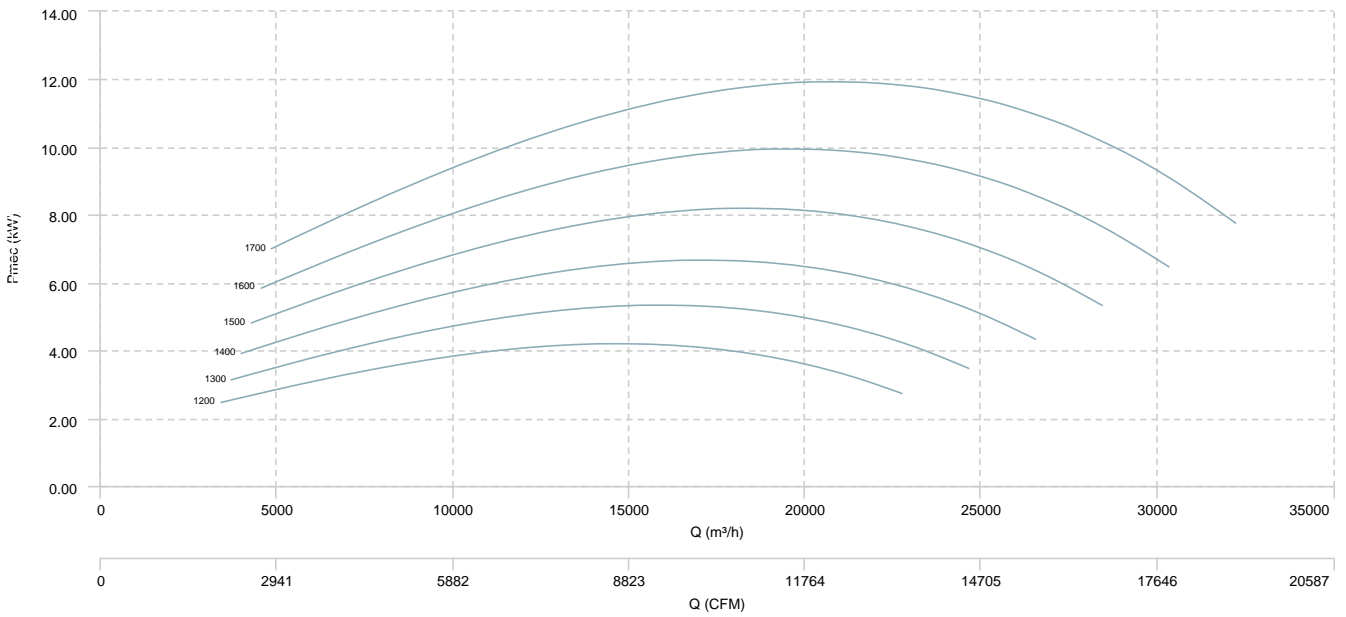


CLIBOS-TR 711 T4

AIR FLOW - PRESSURE

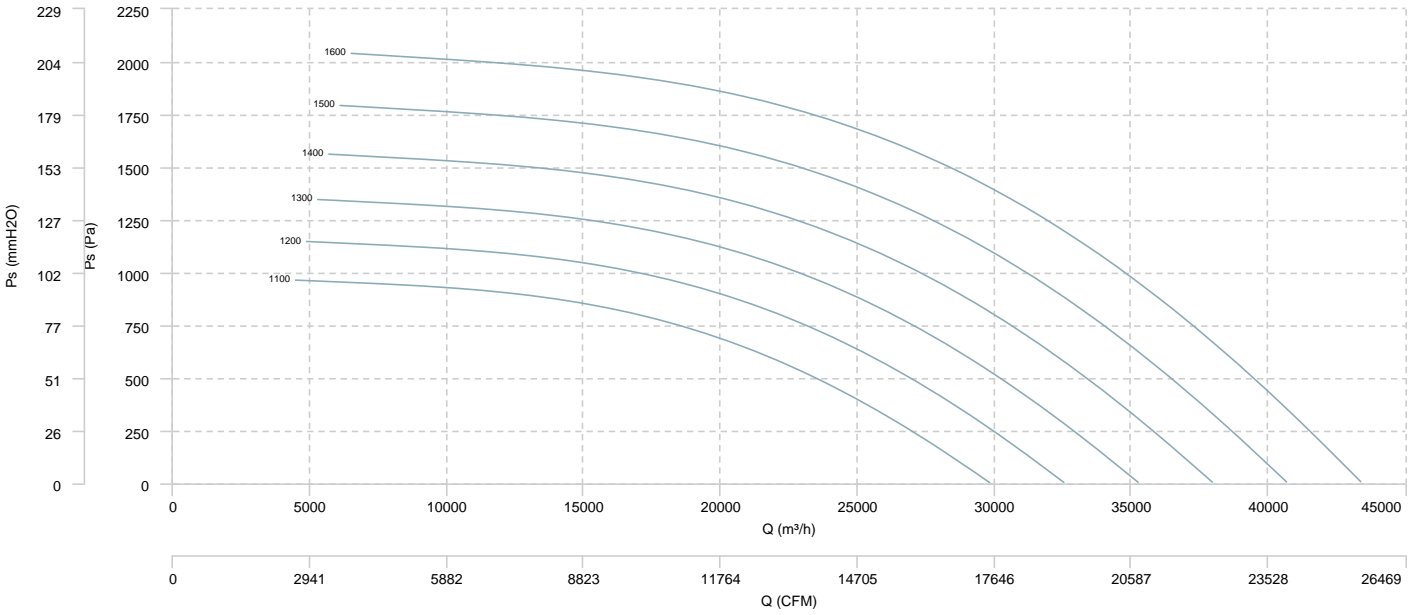


AIR FLOW - MECHANICAL POWER

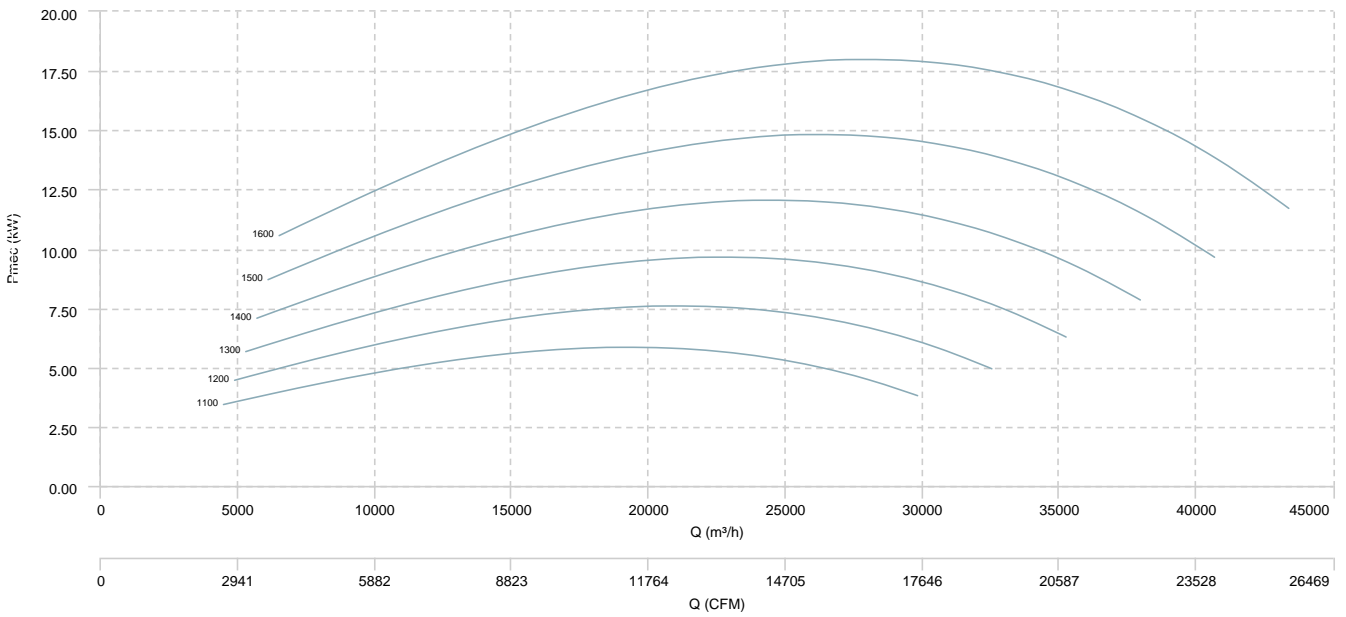


CLIBOS-TR 801 T4

AIR FLOW - PRESSURE



AIR FLOW - MECHANICAL POWER



Sound data

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
CLIBOS-TR 451 T4 (1500 RPM)	Radiated	38	56	63	69	71	78	65	56	80
CLIBOS-TR 501 T4 (1800 RPM)	Radiated	46	63	70	77	78	86	72	64	87
CLIBOS-TR 561 T4 (1500 RPM)	Radiated	62	66	74	78	81	78	66	62	85
CLIBOS-TR 631 T4 (1400 RPM)	Radiated	65	69	76	81	83	82	69	64	87
CLIBOS-TR 711 T4 (1200 RPM)	Radiated	65	69	76	81	84	81	69	65	87
CLIBOS-TR 801 T4 (1100 RPM)	Radiated	67	71	78	82	85	83	70	66	89

Notes:

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

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