

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, 145Kg/m³, thickness 150mm..
- Self-cleaning impeller 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 waterproof monobloc.
- 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 50Hz for 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

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 450°C in continuous
- ☐ Other Insulation thicknesses (200mm)
- ☐ Inox 304
- ☐ Inox 316
- ☐ Sparking proof construction
- ☐ Other sizes
- ☐ Other motors according to customer requirements

Accessories



AVR



AVS



CLBC



CLBI



INT



LARIDS



LENTICHECK



SFC

Technical data

Three-phase motor

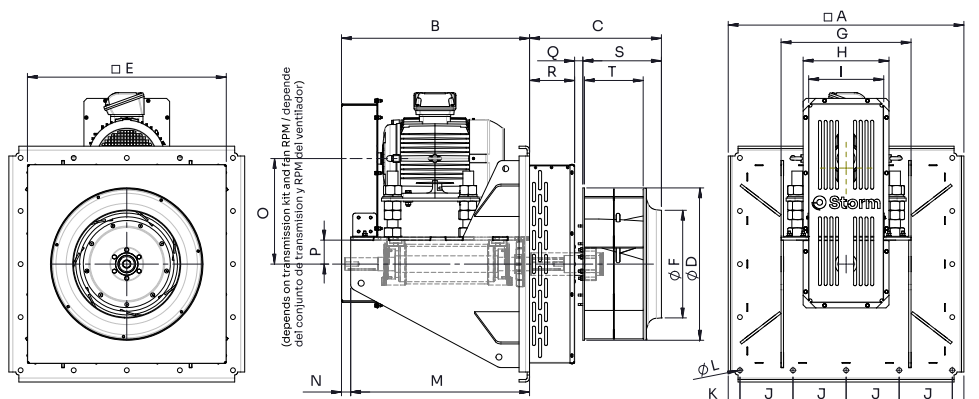
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	CLIBOS-TR 451 T4	1500rpm - 2700rpm	2,20	5,50	12.810	-	216	1
	CLIBOS-TR 501 T4	1800rpm - 2400rpm	3,00	7,50	15.650	-	220	1
	CLIBOS-TR 561 T4	1500rpm - 2200rpm	3,00	9,20	20.100	-	260	1
	CLIBOS-TR 631 T4	1400rpm - 1900rpm	4,00	11,00	25.180	-	270	1
	CLIBOS-TR 711 T4	1200rpm - 1700rpm	5,50	15,00	32.230	-	398	1
	CLIBOS-TR 801 T4	1100rpm - 1600rpm	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	A	B (Mot T<160)	B (Mot T≥160)	C	D	E	F	G (Mot T<160)	G (Mot T≥160)
CLIBOS-TR 451 T4	786	627.25	-	373	458	663	321	433.4	-
CLIBOS-TR 501 T4	786	627.25	-	403.5	508	663	359	433.4	-
CLIBOS-TR 561 T4	846	627.25	797.75	429.76	568	723	399	433.4	528.4
CLIBOS-TR 631 T4	846	627.25	797.75	459.78	640	723	448	433.4	528.4
CLIBOS-TR 711 T4	1016	627.25	797.75	504.76	720	873	502	433.4	528.4
CLIBOS-TR 801 T4	1016	627.25	797.75	536.39	810	873	570.5	433.4	528.4

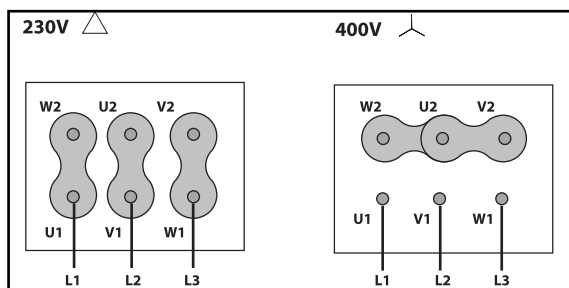
Model	H	I	J	K	L	M (Mot T<160)	M (Mot T≥160)	N	O (Mot. T100)
CLIBOS-TR 451 T4	286	250	177	39	16	596.5	-	30.75	320
CLIBOS-TR 501 T4	286	250	177	39	16	596.5	-	30.75	320
CLIBOS-TR 561 T4	286	250	192	39	16	596.5	767	30.75	320
CLIBOS-TR 631 T4	286	250	192	39	16	596.5	767	30.75	320
CLIBOS-TR 711 T4	286	250	233	42	18	596.5	767	30.75	-
CLIBOS-TR 801 T4	286	250	233	42	18	596.5	767	30.75	-

Model	O (Mot. T112)	O (Mot. T132)	O (Mot. T160)	O (Mot. T180)	P (Mot T<160)	P (Mot T≥160)	Q	R	S
CLIBOS-TR 451 T4	332	352	-	-	80	-	34	150	189
CLIBOS-TR 501 T4	332	352	-	-	80	-	45	150	208.5
CLIBOS-TR 561 T4	332	352	390	-	80	90	45.76	150	234
CLIBOS-TR 631 T4	332	352	390	-	80	90	45.78	150	264
CLIBOS-TR 711 T4	-	352	390	410	80	90	60.76	150	294
CLIBOS-TR 801 T4	-	352	390	410	80	90	57.39	150	329

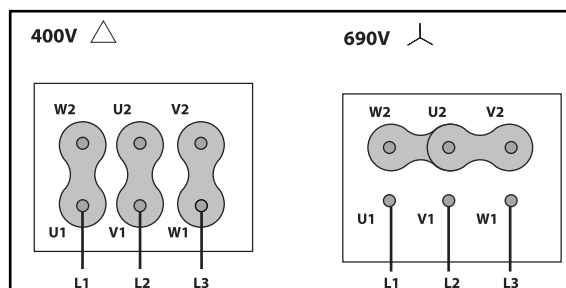
Wiring diagram

Wiring diagram N° 1

230/400V



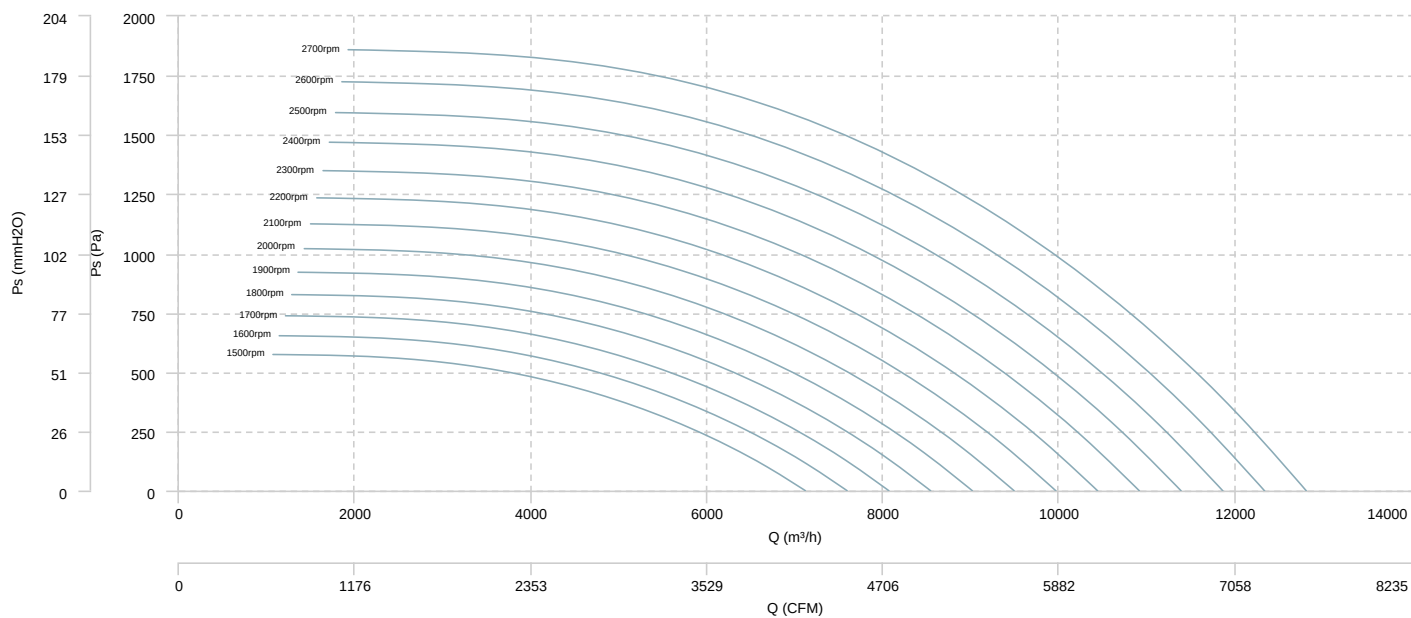
400/690V



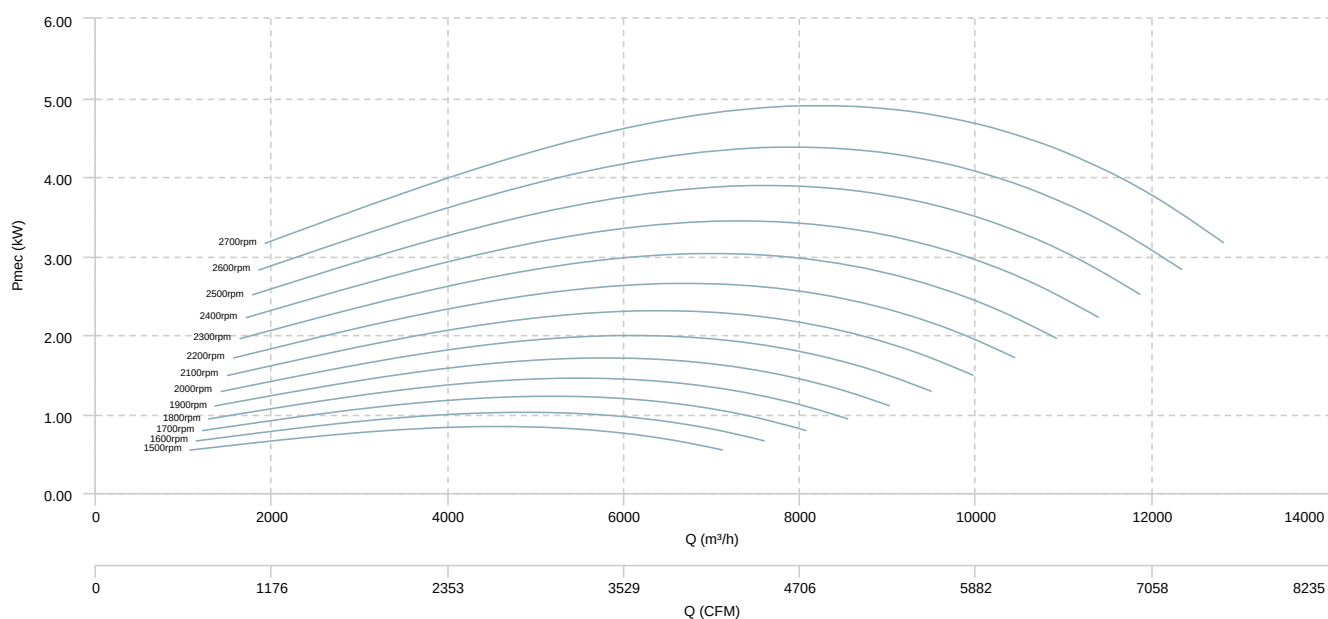
CHARACTERISCTIC CURVE

CLIBOS-TR 451 T4

AIR FLOW - PRESSURE

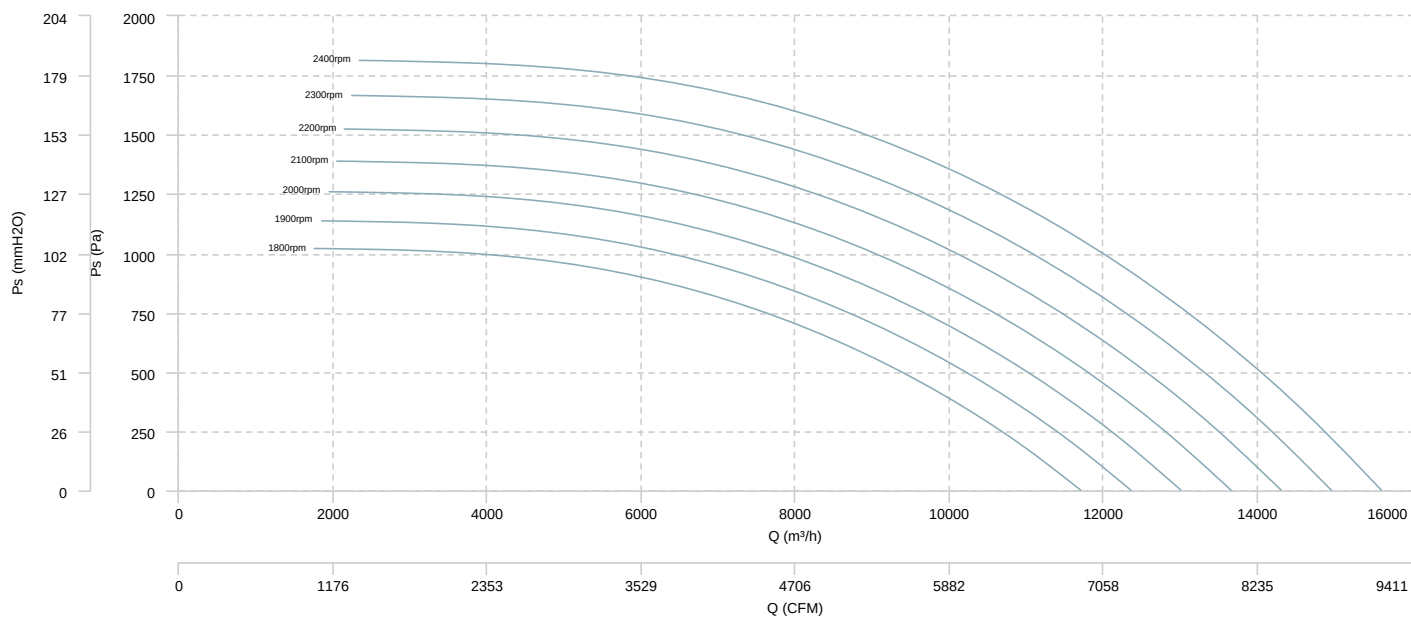


AIR FLOW - MECHANICAL POWER

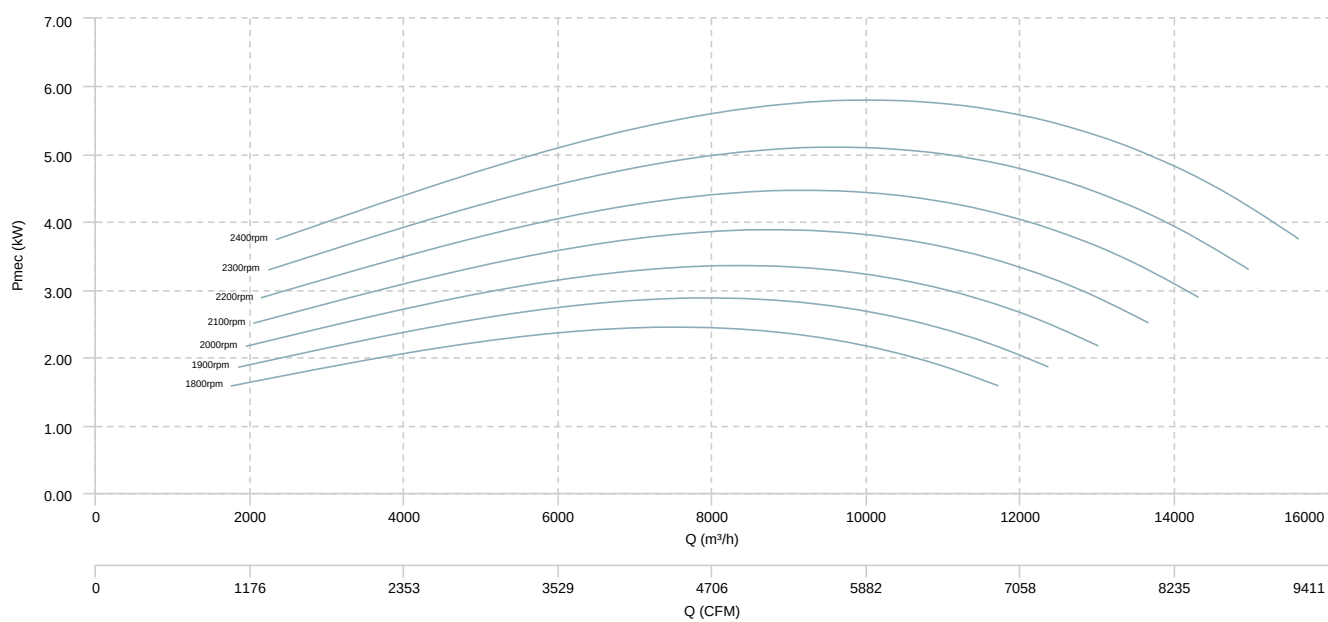


CLIBOS-TR 501 T4

AIR FLOW - PRESSURE

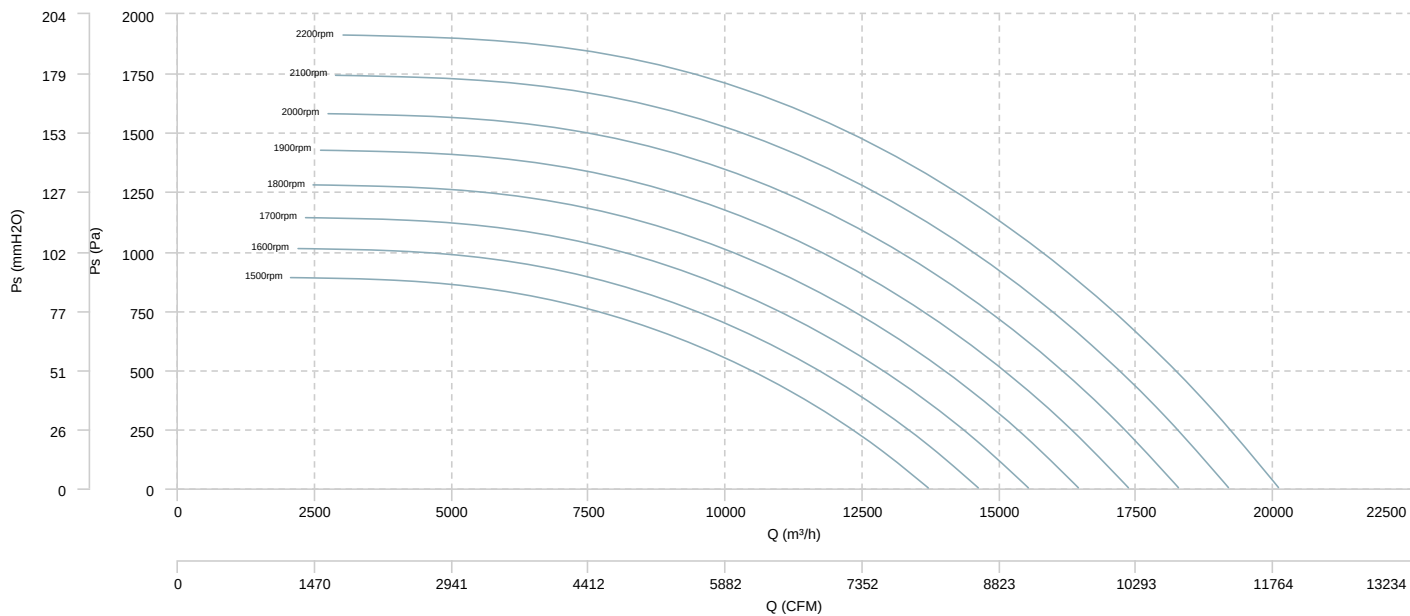


AIR FLOW - MECHANICAL POWER

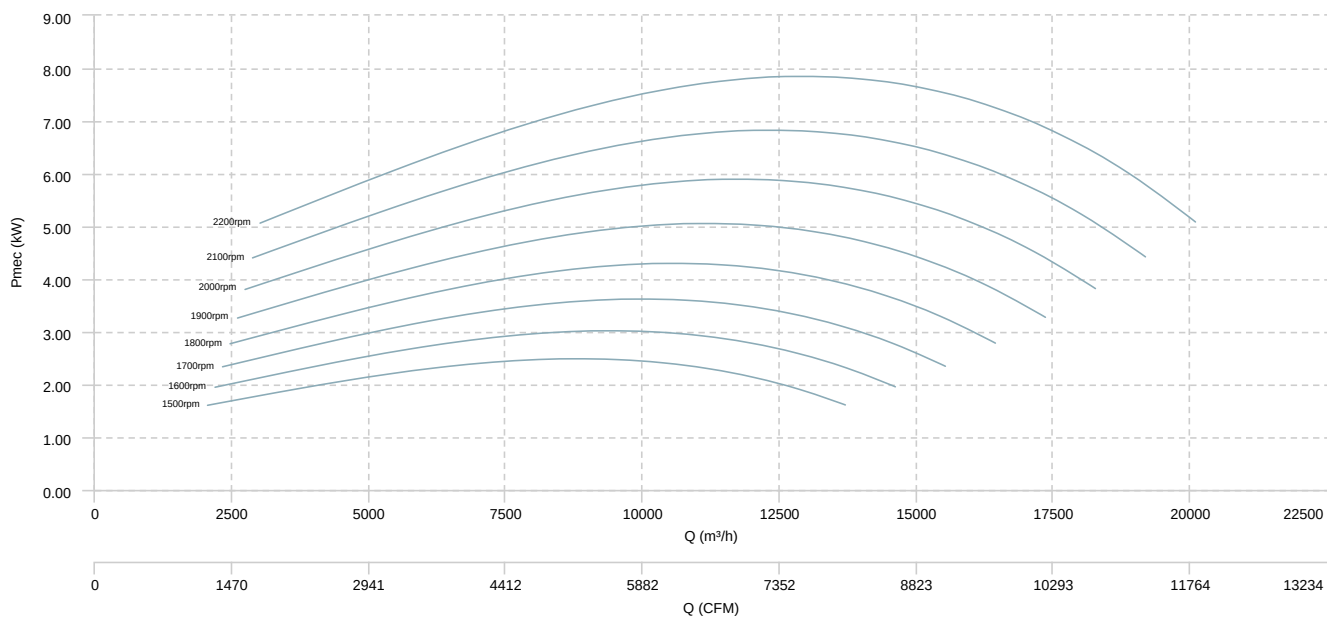


CLIBOS-TR 561 T4

AIR FLOW - PRESSURE

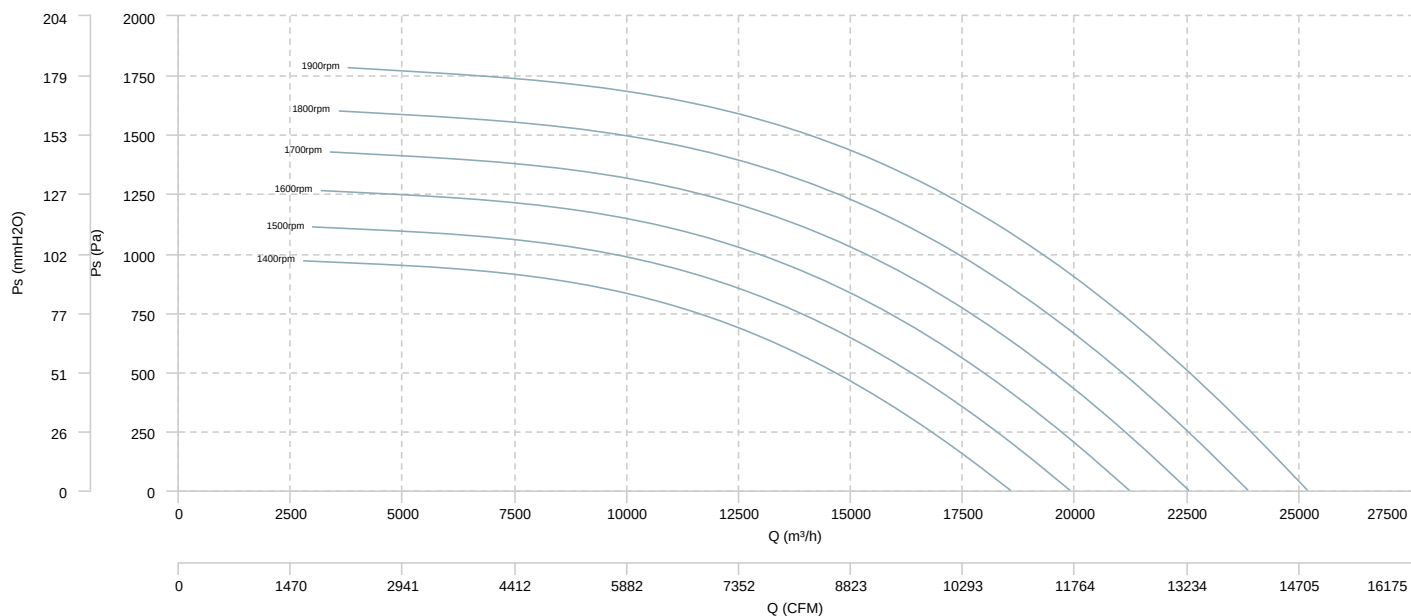


AIR FLOW - MECHANICAL POWER

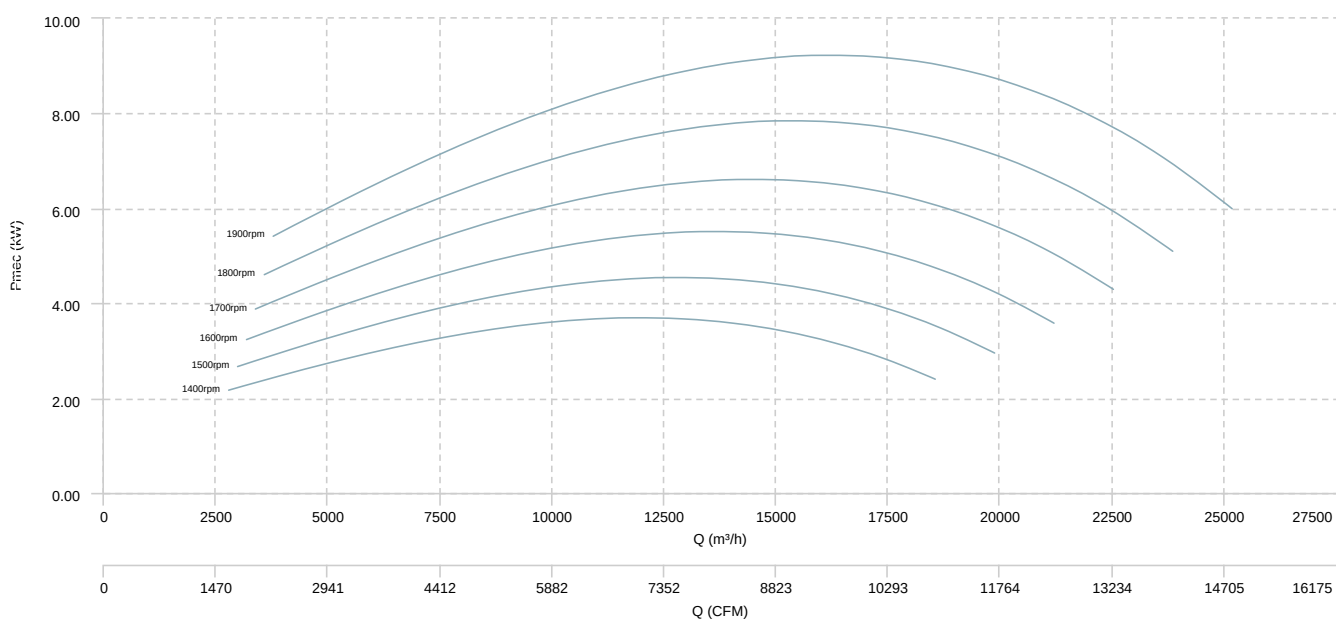


CLIBOS-TR 631 T4

AIR FLOW - PRESSURE

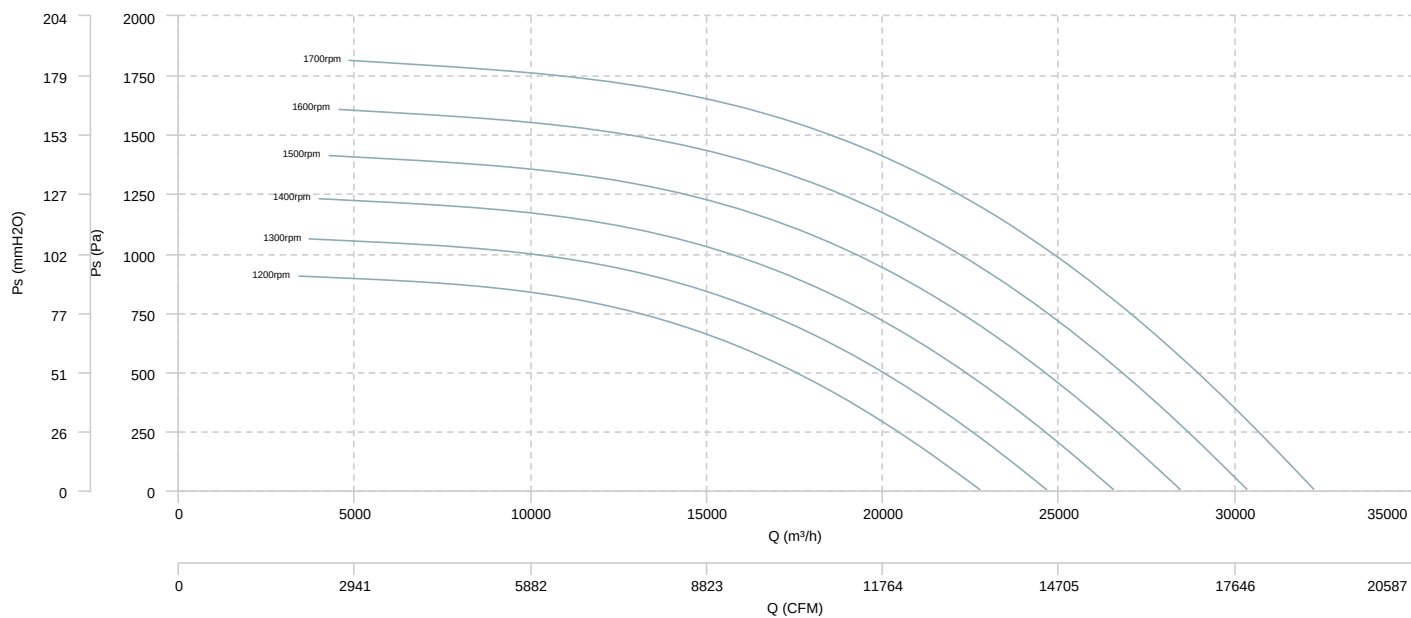


AIR FLOW - MECHANICAL POWER

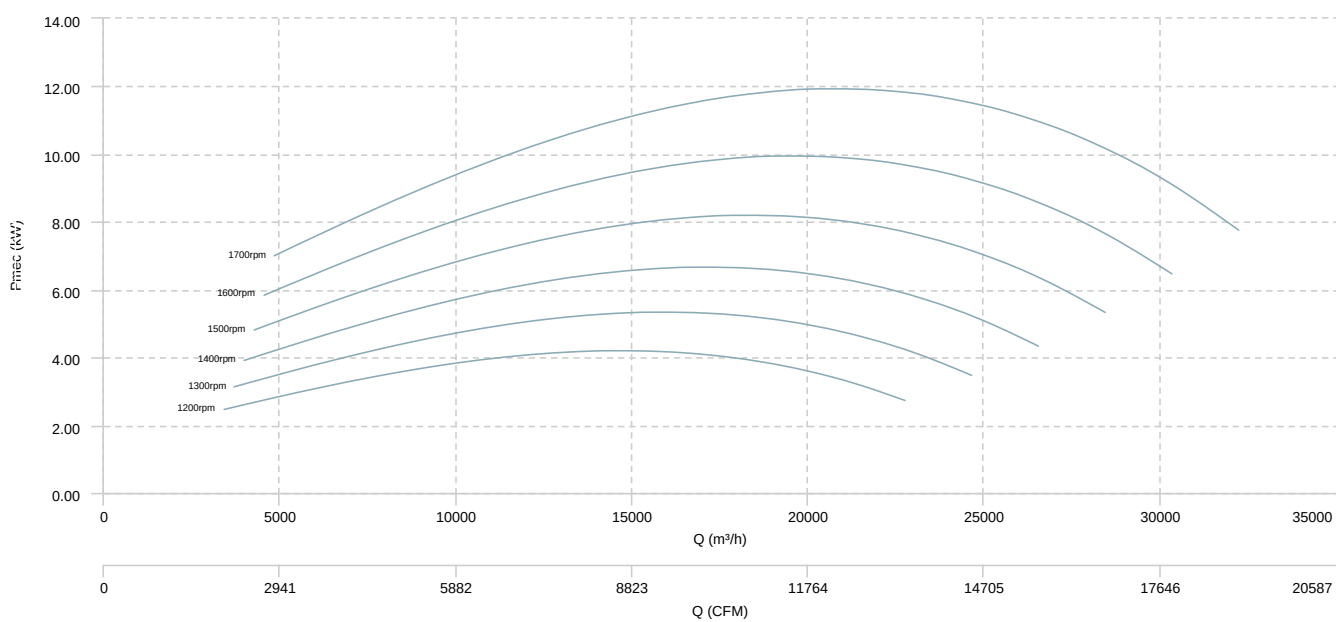


CLIBOS-TR 711 T4

AIR FLOW - PRESSURE

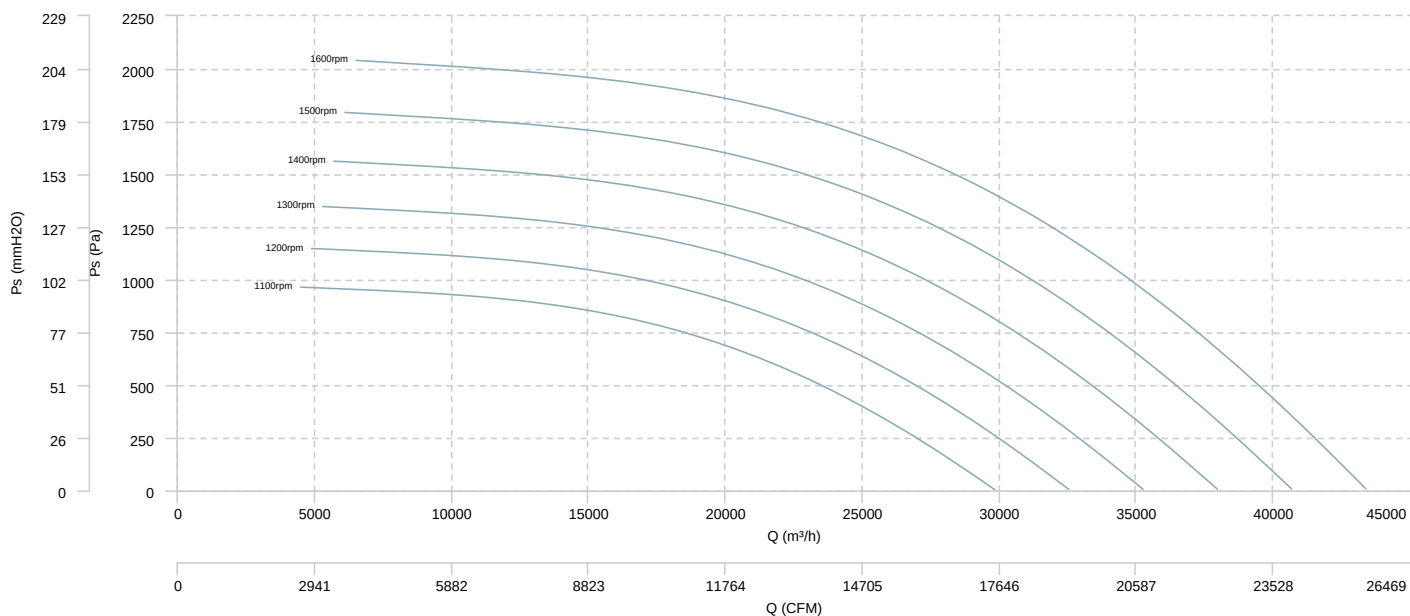


AIR FLOW - MECHANICAL POWER

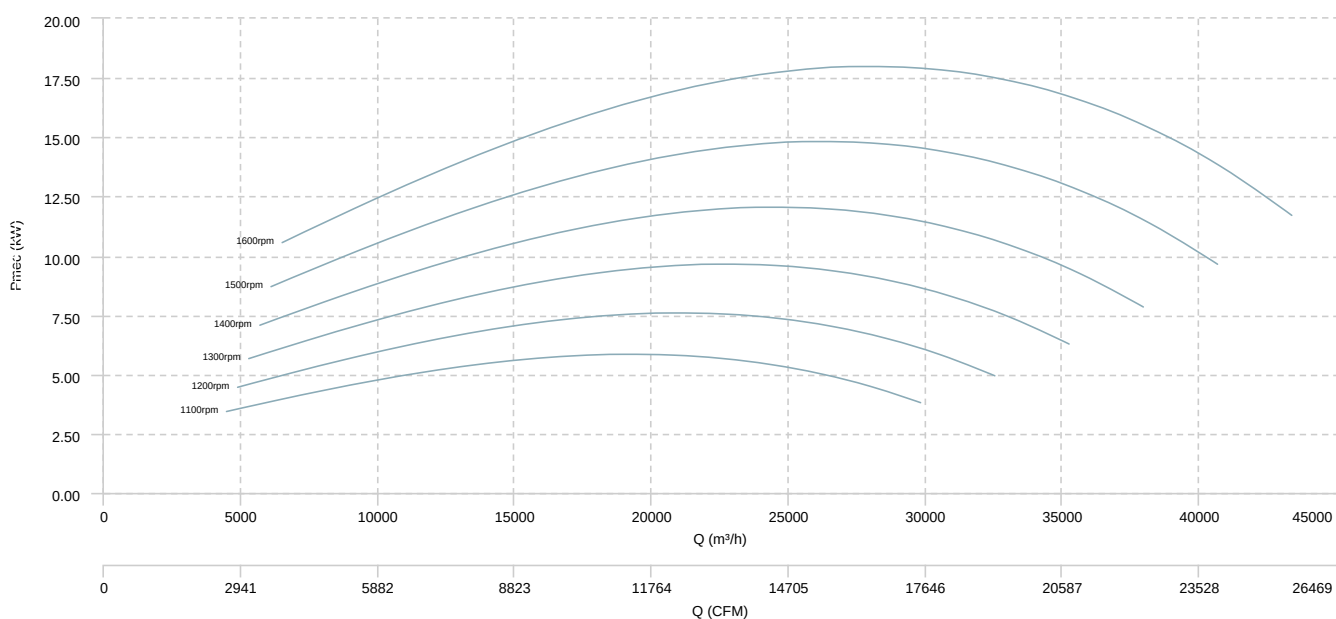


CLIBOS-TR 801 T4

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 (1500rpm)	Radiated	38	56	63	69	71	78	65	56	80
CLIBOS-TR 501 T4 (1800rpm)	Radiated	46	63	70	77	78	86	72	64	87
CLIBOS-TR 561 T4 (1500rpm)	Radiated	62	66	74	78	81	78	66	62	85
CLIBOS-TR 631 T4 (1400rpm)	Radiated	65	69	76	81	83	82	69	64	87
CLIBOS-TR 711 T4 (1200rpm)	Radiated	65	69	76	81	84	81	69	65	87
CLIBOS-TR 801 T4 (1100rpm)	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:

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