

KENTALROOF-A F400



ROOF FAN WITH FOLDING SYSTEM AND ALUMINIUM COWL F400

MANUFACTURING FEATURES:

- Protection cowl made of anticorrosive treated aluminum easily removable for motor and impeller maintenance thanks to the integrated folding system.
- The design of the cowl with a **rounded shape** is specific to minimize the risk of water ingress due to rain (including rain).
- Equipped with a **hinged system** to open the motor-impeller set. This system allows easy maintenance and cleaning of the set without the need to disassemble the entire structure. The opening is possible in 2 inclinations: approximately 45° and 90°, as required by the intervention.
- Structure in anticorrosive galvanized steel and support frame for adaptation to the roof with anti-bird protection grid.
- High-performance, backward-curved blade (reaction) impellers designed to work without scroll. Self-cleaning system, built in galvanized steel treated with anti-corrosion.
- Standard asynchronous squirrel cage motor with IP-55 protection and Class F insulation. Standard voltages of 230V50Hz for single phase motors, 230/400V50Hz & 400/690V 50Hz for three-phase 1 speed motors and 400V50Hz for 2 speed motors.

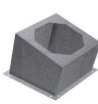
Accessories



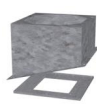
AC



BAD



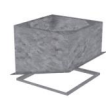
BTI



BTI+AC
MP



BTI+AC
MP+A
MC



BTI+A
MC



CMP-H
UT



INT



KV
KENTALROOF



SFC



SIL-C /
SIL-CN

APPLICATIONS

Designed for deck or roof mounting, they are indicated for:

- Smoke extraction.
- Air renewal in all types of buildings and industries.
- Maximum continuous working temperature: transported air 80°C, ambient 60°C to -25°C in three-phase motors.

UNDER REQUEST

- Special construction for moving air at 120°C

Technical data

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					
27931471AL	KENTALROOF-A 315 T4 0,25kW F400	1400	1,38	0,79	0,25	2.590	-	35,50	1
27935471AL	KENTALROOF-A 355 T4 0,25kW F400	1400	1,38	0,79	0,25	3.610	-	41	1
27940480AL	KENTALROOF-A 400 T4 0,55kW F400	1440	2,57	1,49	0,55	5.340	-	45	1
27945490AL	KENTALROOF-A 450 T4 1,1kW F400	1450	4,33	2,49	1,10	7.870	-	85	1
27950491AL	KENTALROOF-A 500 T4 1,5kW F400	1450	5,67	3,26	1,50	10.430	-	96	1
279564100AL	KENTALROOF-A 560 T4 3kW F400	1420	10,7	6,17	3,00	15.040	-	104	1
279634132AL	KENTALROOF-A 630 T4 5,5kW F400	1460	-	10,5	5,50	22.550	-	140	1

Three-phase motor / 6 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					
27950680AL	KENTALROOF-A 500 T6 0,55kW F400	900	3,00	1,8	0,55	6.850	-	95	1
27956690AL	KENTALROOF-A 560 T6 1,1kW F400	925	4,83	2,78	1,10	10.020	-	103	1
279634100AL	KENTALROOF-A 630 T6 1,5kW F400	940	6,45	3,71	1,50	14.820	-	130	1

2 speed motor / 4/8 poles

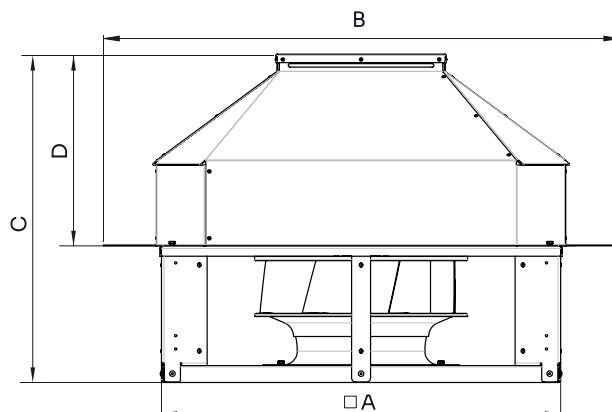
Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
27931471AL2V	KENTALROOF-A 315 T4/T8 0,25/0,03kW F400	1370	1,13/0,37	0,25	2.590	-	35,50	2
27935471AL2V	KENTALROOF-A 355 T4/T8 0,25/0,03kW F400	1370	1,13/0,37	0,25	3.610	-	41	2
27940480AL2V	KENTALROOF-A 400 T4/T8 0,75/0,12kW F400	1400	2,03/0,68	0,75	5.340	-	45	2
27945490AL2V	KENTALROOF-A 450 T4/T8 1,1/0,18kW F400	1400	2,67/1,08	1,10	7.870	-	85	2

Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weig ht kg	Connect. diagram
27950491AL2V	KENTALROOF-A 500 T4/T8 1,5/0, 25kW F400	1400	3,46/1,27	1,50	10.430	-	96	2
279564100AL2V	KENTALROOF-A 560 T4/T8 3/0, 55kW F400	1430	6,53/2,33	3,00	15.040	-	104	2
279634132AL2V	KENTALROOF-A 630 T4/T8 5,5/1, 1kW F400	1450	10,73/3,82	5,50	22.550	-	140	2

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

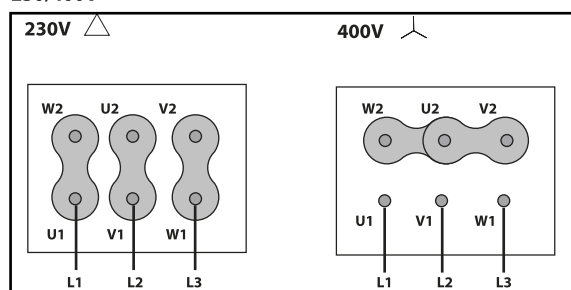


Model	A (int)	B	C	D
KENTALROOF-A 315 T4 0,25kW F400	592	760	601	365
KENTALROOF-A 315 T4/T8 0,25/0,03kW F400	592	760	601	365
KENTALROOF-A 355 T4 0,25kW F400	662	860	624.5	365
KENTALROOF-A 355 T4/T8 0,25/0,03kW F400	662	860	624.5	365
KENTALROOF-A 400 T4 0,55kW F400	662	860	647.5	365
KENTALROOF-A 400 T4/T8 0,75/0,12kW F400	662	860	647.5	365
KENTALROOF-A 450 T4 1,1kW F400	936	1220	775.8	470
KENTALROOF-A 450 T4/T8 1,1/0,18kW F400	936	1220	775.8	470
KENTALROOF-A 500 T4 1,5kW F400	936	1220	812	470
KENTALROOF-A 500 T6 0,55kW F400	936	1220	812	470
KENTALROOF-A 500 T4/T8 1,5/0,25kW F400	936	1220	812	470
KENTALROOF-A 560 T4 3kW F400	936	1220	849.6	470
KENTALROOF-A 560 T6 1,1kW F400	936	1220	849.6	470
KENTALROOF-A 560 T4/T8 3/0,55kW F400	936	1220	849.6	470
KENTALROOF-A 630 T4 5,5kW F400	1035	1340	942.5	520
KENTALROOF-A 630 T6 1,5kW F400	1035	1340	942.5	520
KENTALROOF-A 630 T4/T8 5,5/1,1kW F400	1035	1340	942.5	520

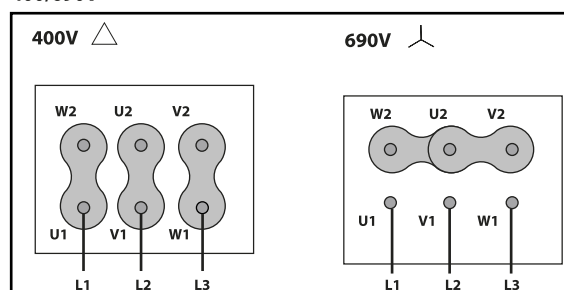
Wiring diagram

Wiring diagram N° 1

230/400V

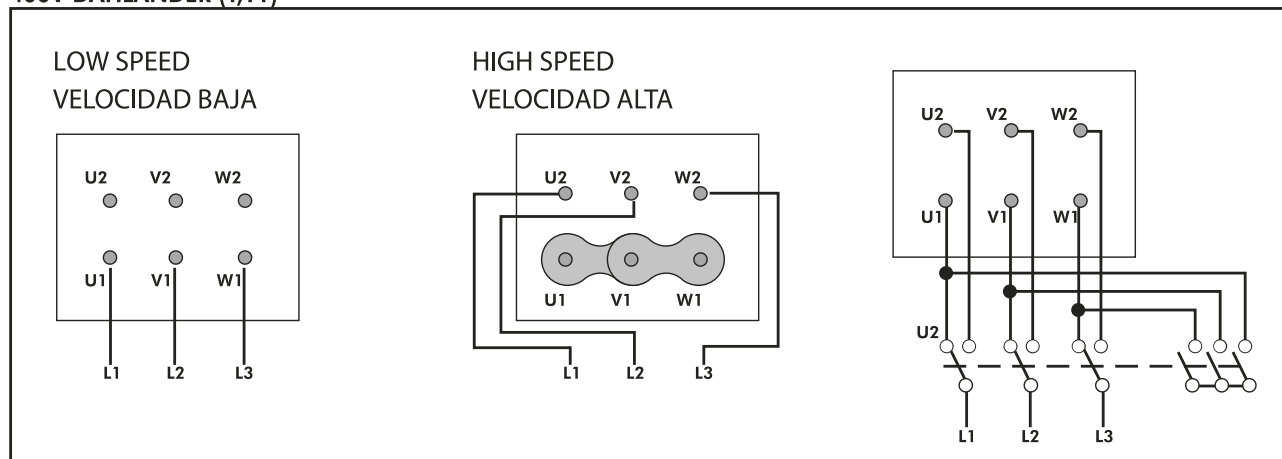


400/690V



Wiring diagram N° 2

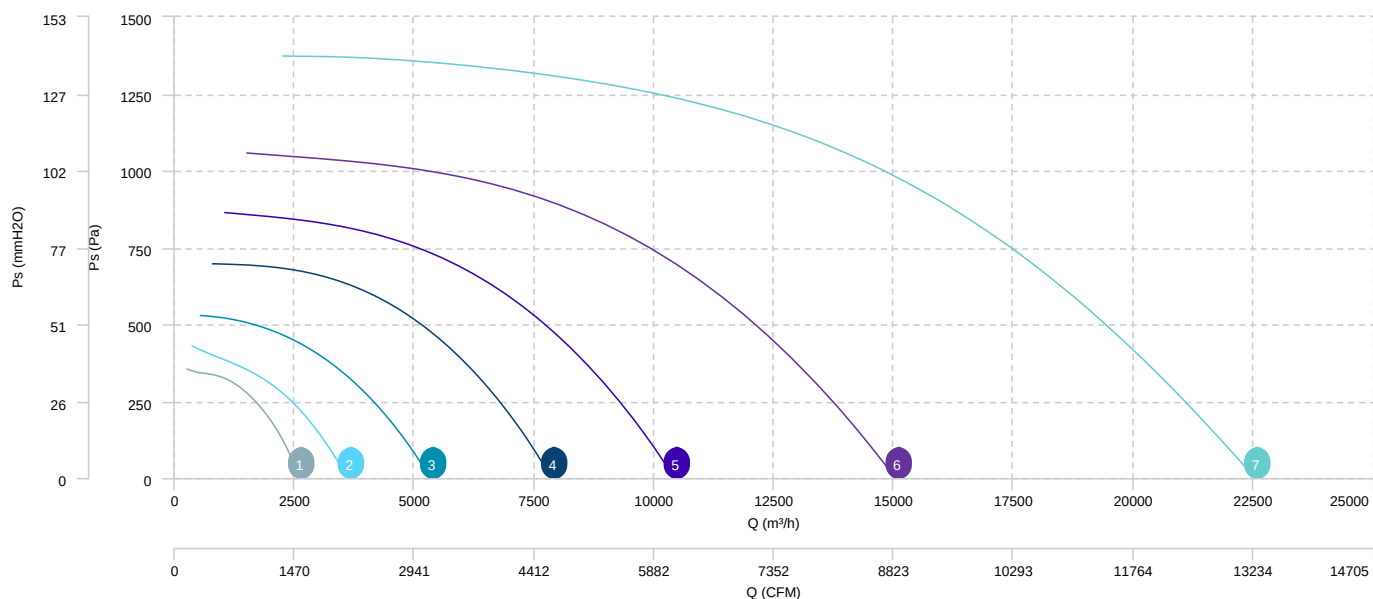
400V DAHLANDER (Y,YY)



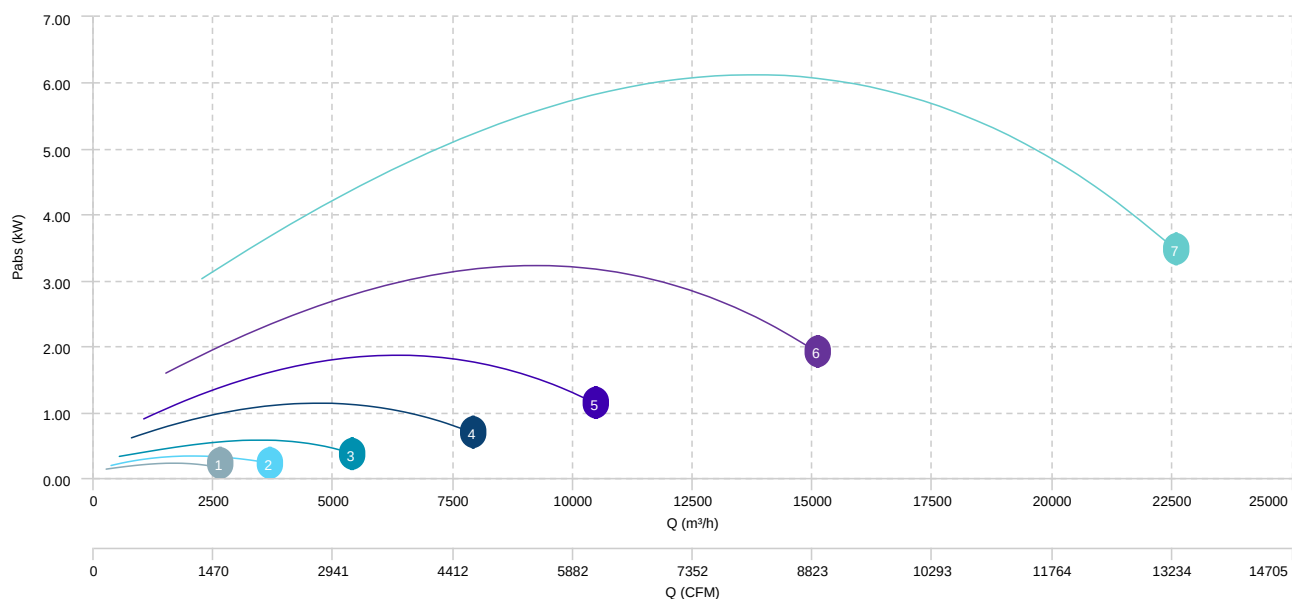
CHARACTERISCTIC CURVE

1	KENTALROOF-A 315 T4 0, 25kW F400	2	KENTALROOF-A 355 T4 0, 25kW F400	3	KENTALROOF-A 400 T4 0, 55kW F400	4	KENTALROOF-A 450 T4 1, 1kW F400
5	KENTALROOF-A 500 T4 1, 5kW F400	6	KENTALROOF-A 560 T4 3kW F400	7	KENTALROOF-A 630 T4 5, 5kW F400		

AIR FLOW - PRESSURE

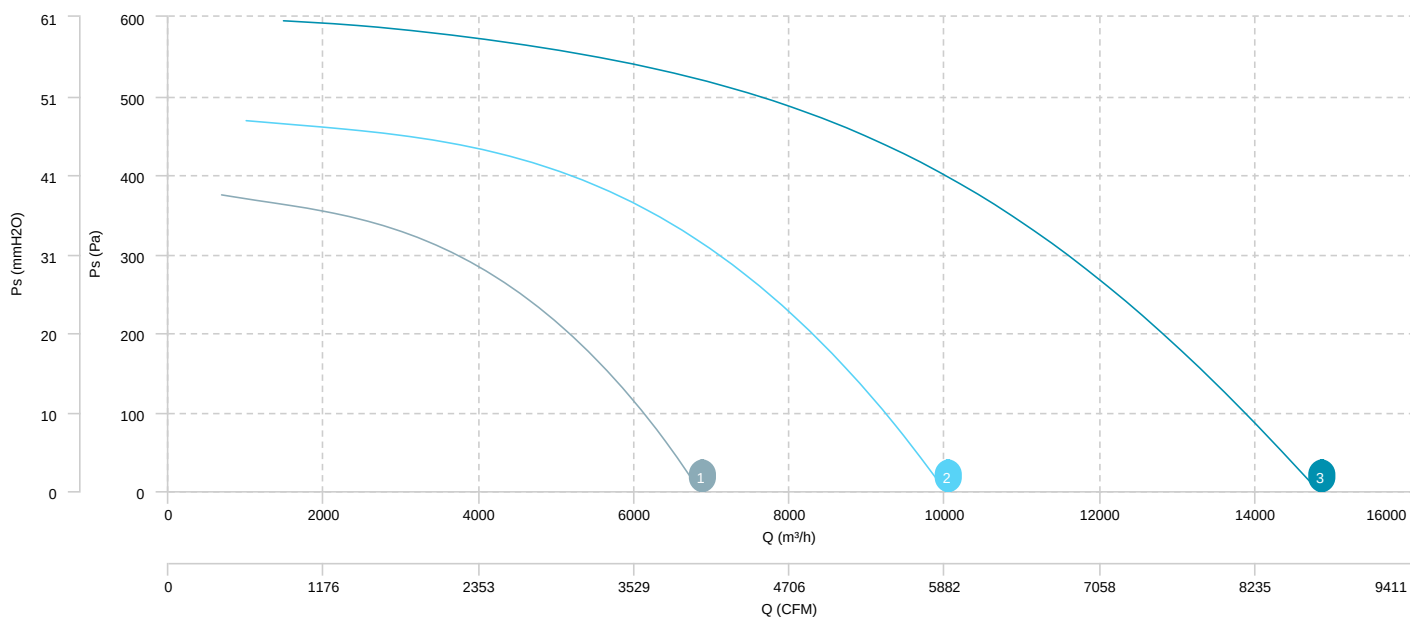


AIR FLOW - ABSORBED POWER

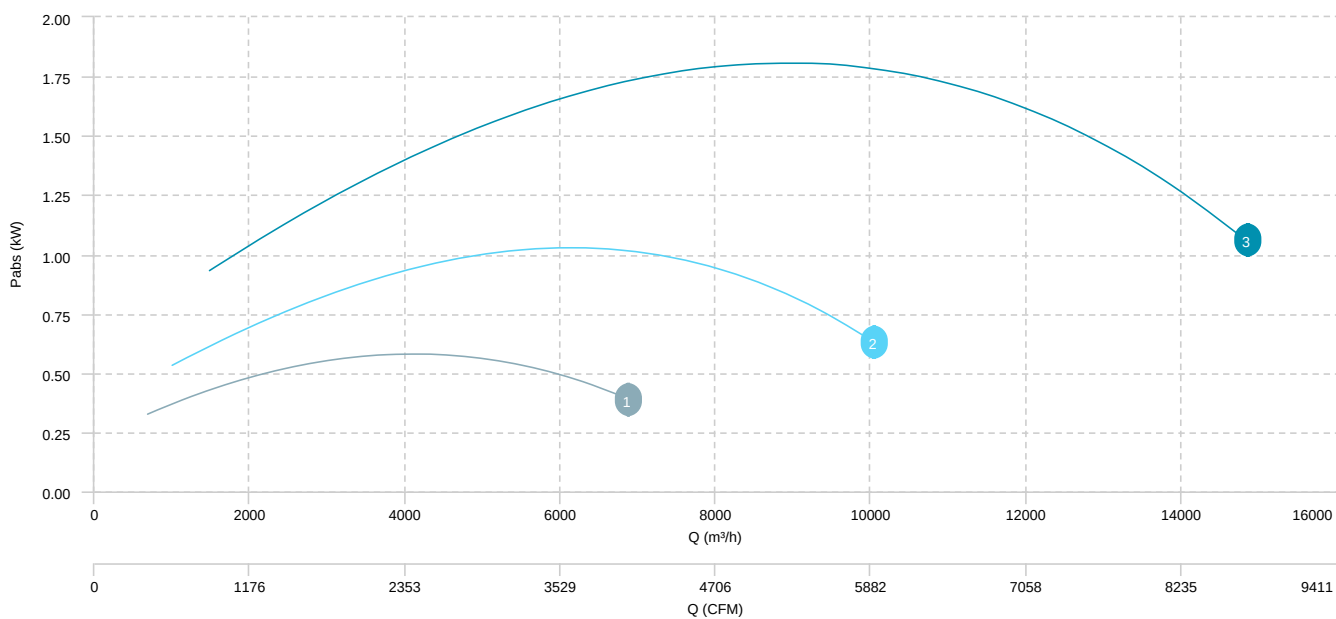


- 1 KENTALROOF-A 500 T6 0, 55kW F400
- 2 KENTALROOF-A 560 T6 1, 1kW F400
- 3 KENTALROOF-A 630 T6 1, 5kW F400

AIR FLOW - PRESSURE

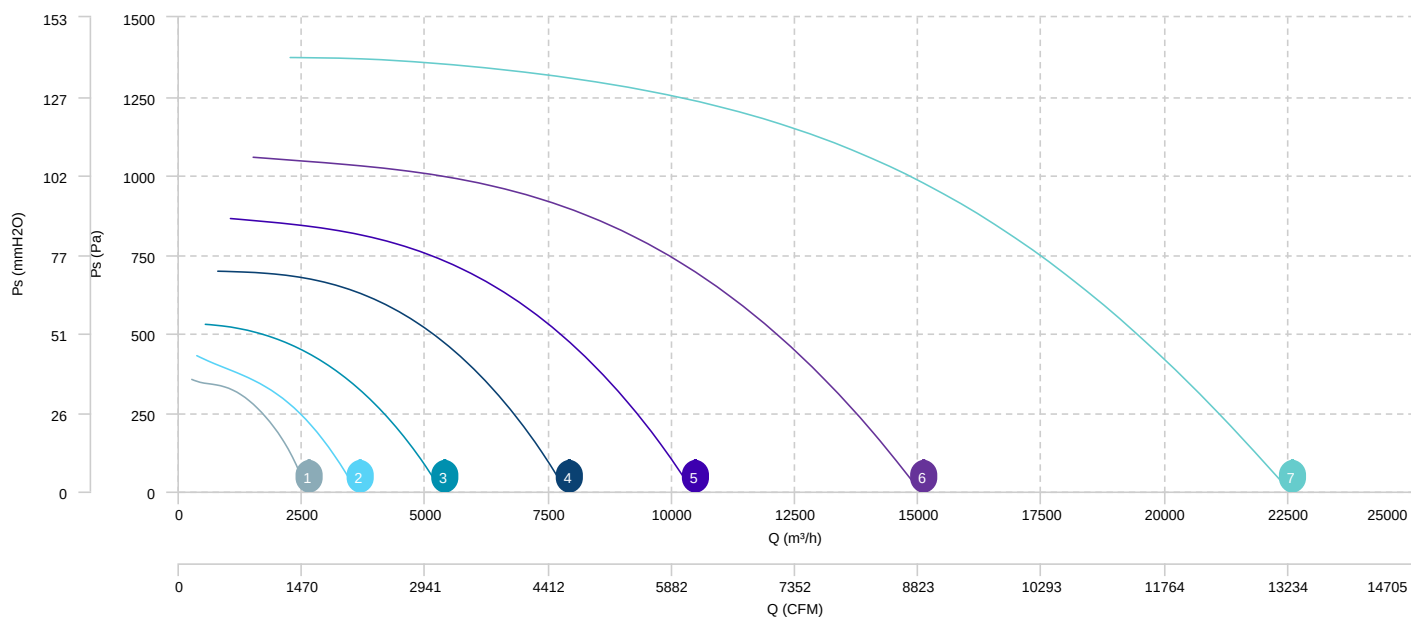


AIR FLOW - ABSORBED POWER



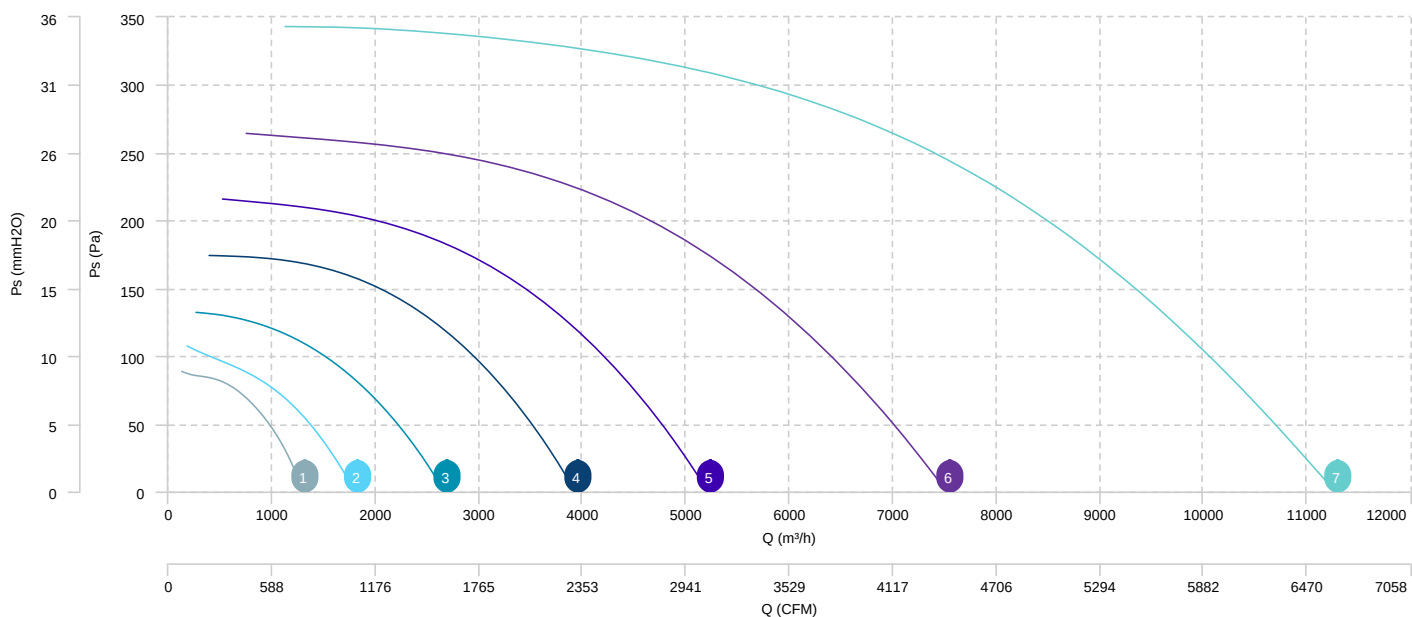
1	KENTALROOF-A 315 T4/T8 0,25/0,03kW F400	2	KENTALROOF-A 355 T4/T8 0,25/0,03kW F400	3	KENTALROOF-A 400 T4/T8 0,75/0,12kW F400	4	KENTALROOF-A 450 T4/T8 1,1/0,18kW F400
5	KENTALROOF-A 500 T4/T8 1,5/0,25kW F400	6	KENTALROOF-A 560 T4/T8 3/0,55kW F400	7	KENTALROOF-A 630 T4/T8 5,5/1,1kW F400		

AIR FLOW - PRESSURE (4 poles)



1	KENTALROOF-A 315 T4/T8 0,25/0,03kW F400	2	KENTALROOF-A 355 T4/T8 0,25/0,03kW F400	3	KENTALROOF-A 400 T4/T8 0,75/0,12kW F400	4	KENTALROOF-A 450 T4/T8 1,1/0,18kW F400
5	KENTALROOF-A 500 T4/T8 1,5/0,25kW F400	6	KENTALROOF-A 560 T4/T8 3/0,55kW F400	7	KENTALROOF-A 630 T4/T8 5,5/1,1kW 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
KENTALROOF-A 315 T4 0,25kW F400 ()	Radiated	52	56	66	63	59	63	63	48	69
KENTALROOF-A 355 T4 0,25kW F400 ()	Radiated	56	66	64	64	62	69	56	50	71
KENTALROOF-A 400 T4 0,55kW F400 ()	Radiated	59	70	68	67	66	72	59	54	74
KENTALROOF-A 450 T4 1,1kW F400 ()	Radiated	63	71	70	71	70	76	62	56	78
KENTALROOF-A 500 T4 1,5kW F400 ()	Radiated	67	74	74	75	73	79	66	60	81
KENTALROOF-A 560 T4 3kW F400 ()	Radiated	87	81	81	80	80	75	64	62	81
KENTALROOF-A 630 T4 5,5kW F400 ()	Radiated	91	85	84	84	83	80	67	65	86

Sound / 6 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
KENTALROOF-A 500 T6 0,55kW F400 ()	Radiated	58	65	64	65	64	70	57	50	72
KENTALROOF-A 560 T6 1,1kW F400 ()	Radiated	81	75	75	74	74	70	58	56	75
KENTALROOF-A 630 T6 1,5kW F400 ()	Radiated	82	75	75	74	74	71	58	56	76

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
KENTALROOF-A 315 T4/T8 0,25/0,03kW F400 (8p -)	Radiated	36	40	50	47	44	47	47	33	53
KENTALROOF-A 315 T4/T8 0,25/0,03kW F400 (4p -)	Radiated	52	56	66	63	59	63	63	48	69
KENTALROOF-A 355 T4/T8 0,25/0,03kW F400 (8p -)	Radiated	40	50	48	48	47	53	40	34	55
KENTALROOF-A 355 T4/T8 0,25/0,03kW F400 (4p -)	Radiated	56	66	64	64	62	69	56	50	71

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
KENTALROOF-A 400 T4/T8 0,75/0, 12kW F400 (8p -)	Radiated	43	54	52	51	50	56	43	38	59
KENTALROOF-A 400 T4/T8 0,75/0, 12kW F400 (4p -)	Radiated	59	70	68	67	66	72	59	54	74
KENTALROOF-A 450 T4/T8 1,1/0, 18kW F400 (8p -)	Radiated	48	55	55	56	54	60	47	41	62
KENTALROOF-A 450 T4/T8 1,1/0, 18kW F400 (4p -)	Radiated	63	71	70	71	70	76	62	56	78
KENTALROOF-A 500 T4/T8 1,5/0, 25kW F400 (8p -)	Radiated	51	58	58	59	57	63	50	44	66
KENTALROOF-A 500 T4/T8 1,5/0, 25kW F400 (4p -)	Radiated	67	74	74	75	73	79	66	60	81
KENTALROOF-A 560 T4/T8 3/0, 55kW F400 (8p -)	Radiated	71	65	65	64	64	60	48	46	66
KENTALROOF-A 560 T4/T8 3/0, 55kW F400 (4p -)	Radiated	87	81	81	80	80	75	64	62	81
KENTALROOF-A 630 T4/T8 5,5/1, 1kW F400 (8p -)	Radiated	75	69	69	68	67	64	52	49	70
KENTALROOF-A 630 T4/T8 5,5/1, 1kW F400 (4p -)	Radiated	91	85	84	84	83	80	67	65	86

erp data

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

ERP / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Eff.Heat recovery (%)	Max. efficiency (%)	Pabs (kW)	Air Flow (m³/h)	Ps (Pa)	Speed (m/s)	SFP (W/m³/s)
KENTALROOF-A 315 T4 0,25kW F400 ()	0,25	-	55,27	0,22	1.586,47	264,22	5.65	504,29
KENTALROOF-A 355 T4 0,25kW F400 ()	0,25	-	54,14	0,33	2.202,75	282,28	6.18	540,56
KENTALROOF-A 400 T4 0,55kW F400 ()	0,55	-	62,16	0,57	3.096,61	391,83	6.85	659,86
KENTALROOF-A 450 T4 1,1kW F400 ()	1,10	-	66,59	1,13	4.906,11	525,85	8.57	830,68
KENTALROOF-A 500 T4 1,5kW F400 ()	1,50	-	65,27	1,86	6.464,83	642,69	9.15	1.036,33
KENTALROOF-A 560 T4 3kW F400 ()	3	-	67,58	3,22	9.324,54	798,80	10.52	1.244,36
KENTALROOF-A 630 T4 5,5kW F400 ()	5,50	-	70,94	6,12	14.099,99	1.050,76	12.56	1.561,64

ERP / 6 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Eff.Heat recovery (%)	Max. efficiency (%)	Pabs (kW)	Air Flow (m³/h)	Ps (Pa)	Speed (m/s)	SFP (W/m³/s)
KENTALROOF-A 500 T6 0,55kW F400 ()	0,55	-	57,20	0,58	4.213,44	271,10	5.96	494,79
KENTALROOF-A 560 T6 1,1kW F400 ()	1,1	-	62,31	1,03	6.202,70	353,72	7	596,31
KENTALROOF-A 630 T6 1,5kW F400 ()	1,50	-	65,34	1,81	9.191,60	440,02	8.19	707,07