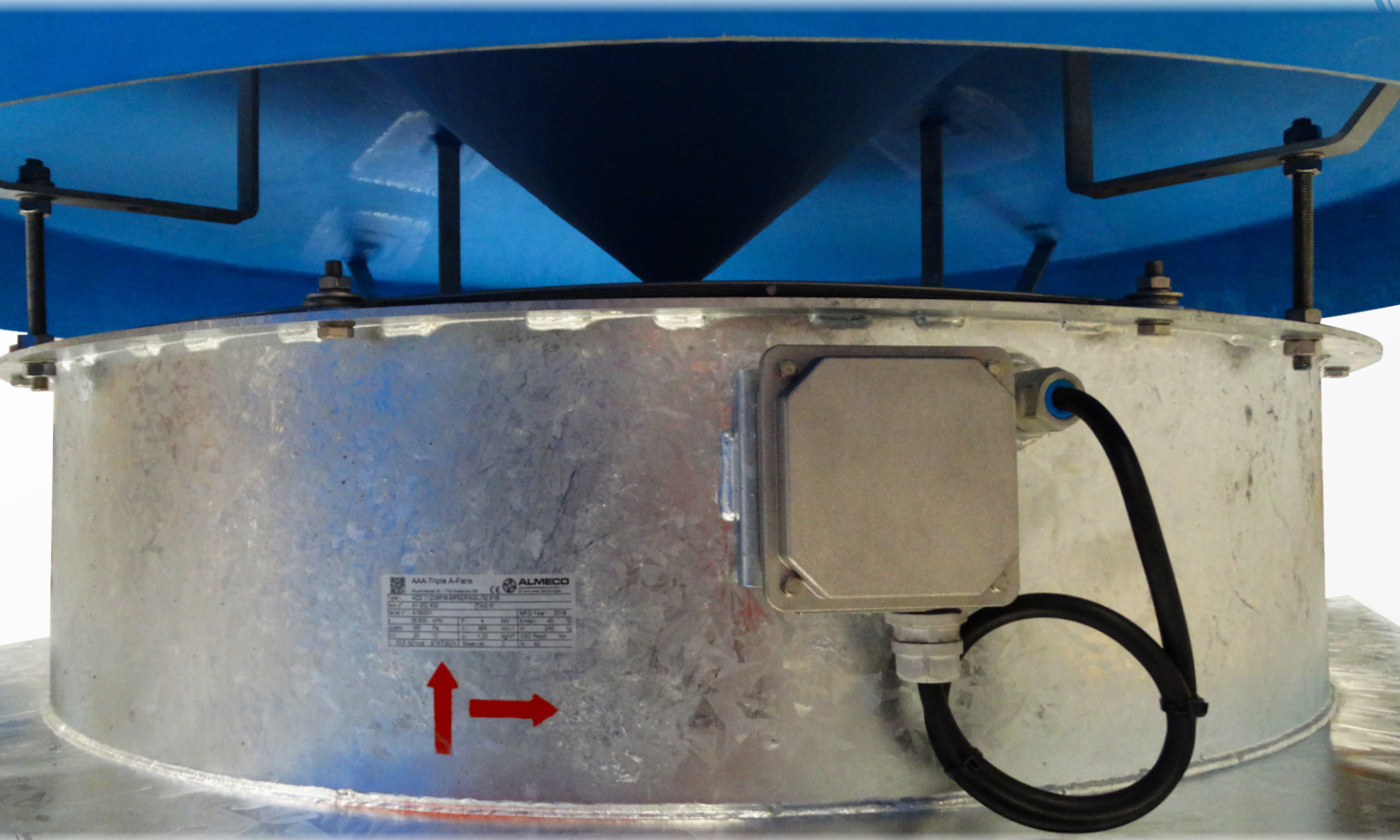




ALMECO

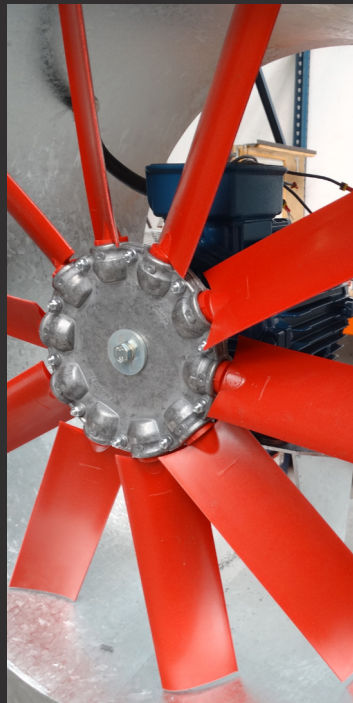
air and water technologies



AAA-Triplic A-Fans		ALMECO	
Model	AAA-Triplic A-Fans	Year	2018
Power	1.5 kW	Capacity	1500 m³/h
Voltage	230V	Speed	1450 rpm
Current	6.5 A	Efficiency	75%
Weight	15 kg	Material	Aluminum
Dimensions	400x400x150 mm	Warranty	3 years

ADD

Roof fan



Our solutions

Almeco is a reliable partner for fans, drying systems and cooling towers. With our customer, we look for the most efficient solution, either a standard or a custom product. Moreover, we provide service and maintenance on existing products. Almeco is a specialist in water cooling towers: both delivering new towers as revamping, maintenance and water treatment. We also produce and distribute various types of industrial fans. Finally, Almeco develops drying solutions based on air knife technology to suit client specific requirements. Engineering and design are done with constant striving for safety and quality improvement.

Industrial fans and blowers

We offer a wide range of industrial fans and blowers: from small axial and centrifugal fans for standard applications to large custom made fans adapted to usage in the most demanding circumstances. Our range of products consists of axial and centrifugal fans, blowers, roof fans and ATEX fans.

Service for industrial fans

- Balancing
- Vibration measurement and analysis
- Sound measurement
- Replacement of spare parts, complete impellers or fans and accessories
- Maintenance and reparation, on-site or in our workspace
- Optimization of fans
- Upgrades

Almeco nv/sa

Rue de la Royenne 51

B-7700 Mouscron

T: +32 (0)56 85 40 80

F: +32 (0)56 85 40 81

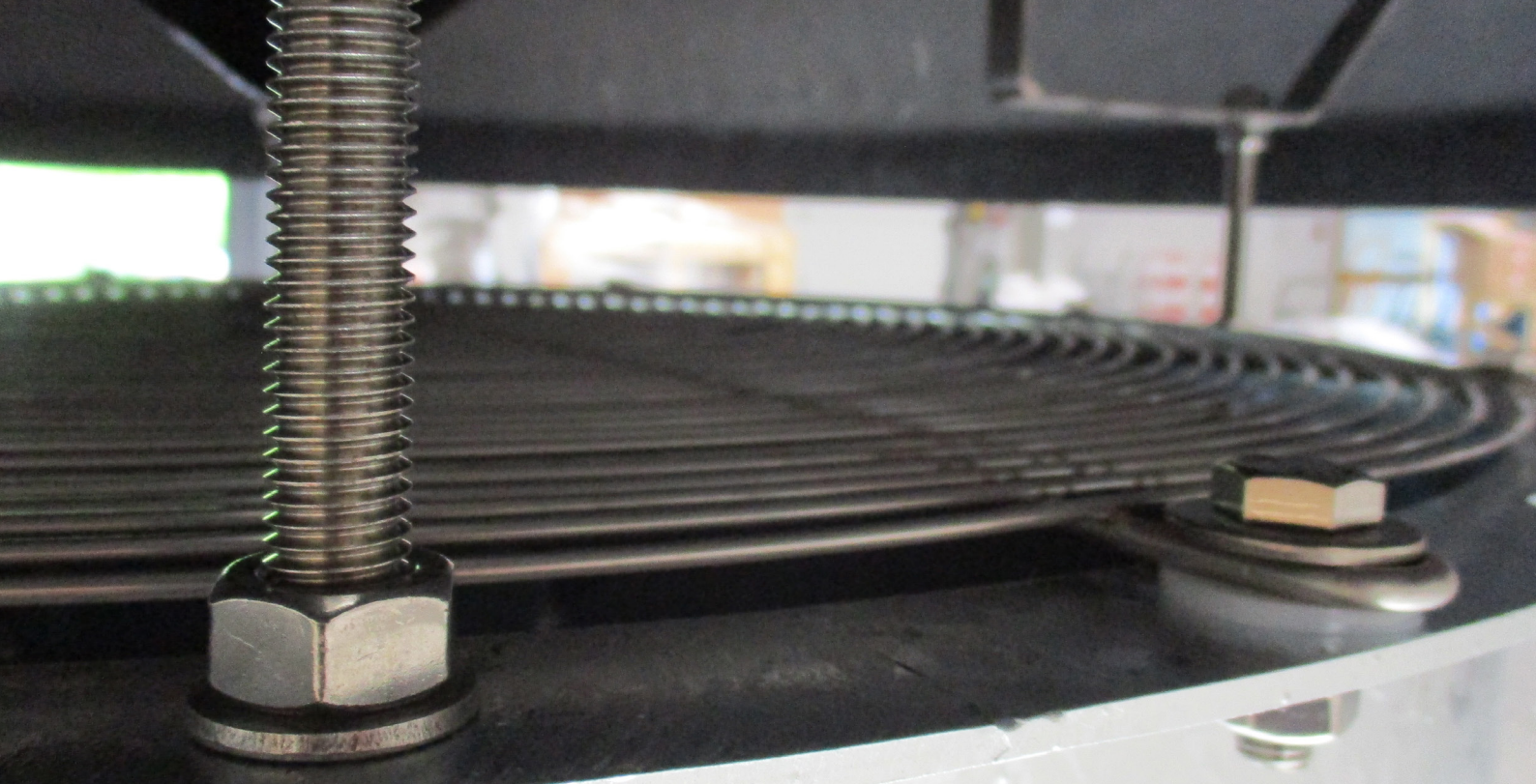
info@almeco.eu

www.almeco.eu



ALMECO

air and water technologies



ErP directive for energy efficiency

The industrial fans produced by Almecco are designed to meet the **European ErP directive** (Ecodesign) for energy efficient fans. On their **optimum energy efficiency point** the fans - with a power input between 125 W and 500 kW - gain the **energy efficiency**, as stated by Regulation 327/2011.



Industrial fans consume about **20% of the total industrial powerconsumption** or a total consumption of 275 TWh. By the year **2020** the European Union aims a **global saving in electricity of 34 TWh**.

The **minimum energy efficiency** that industrial fans must meet, are dependent on:

- The type of fan: axial, centrifugal with backwards inclined blades...
- Measurement category (A, B, C, D): defines the inlet and outlet conditions of the fan under test
- Operation with or without frequency converters

This information is also mentioned on the type plate of the fan.

Timing for application of the ErP directive

2005: EuP directive (Energy-using Products Directive) is issued

2009: EuP directive is renamed as "ErP directive". Research into the potential savings of certain product categories is launched.

2011: Directive 640/2009: new efficiency classes for motors

2013: Directive 327-2011: new efficiency classes for fans
First phase of implementation: efficiency requirements for fans are obligatory (depending on category and type)

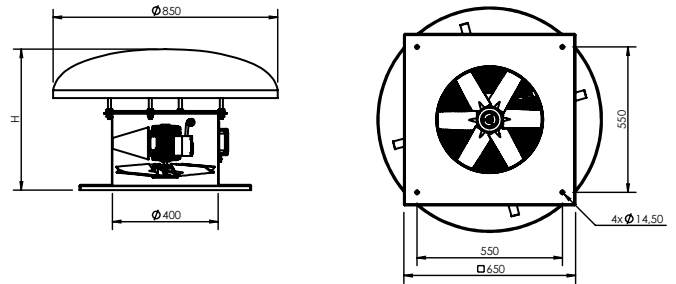
2015: Second phase of implementation with stricter requirements

2017: Third phase of implementation of which the requirements are even more strict

Characteristics

- Welded steel casing, hot dip galvanized after manufacturing
- Asynchronous 3-phased multi-voltage TEAO motor 230/400V 50Hz (if <5.5kW) or 400/690V (if >= 5.5kW)
- Impeller with glass-reinforced nylon blades
- Standard cast aluminium hub and IEC central boring, with key way
- Square mounting plate welded on the casing
- With a rain protection cap in polyester
- With an outlet protection grid in stainless steel
- With an external terminal box

Drawing and dimensions



Special configurations

- Dimensions (fan diameter, flanges, casing length, ...) according to customer's requirements
- Stainless steel casing
- ATEX execution for zone 1/21 and/or zone 2/22
- Cast aluminium blades
- Single-phase motor (up to 2.2kW, 2 and 4 poles)
- Start/stop switch on demand
- Special executions on demand

Motor, noise and ErP data according to EU 327/2011

Curve N(#)	N-P	Type	Pitch (°)	Power (kW)	Speed (RPM)	IE	H (mm)	Weight (kg)	eff _e (%)	eff target (%)	P _{in1} (kW)	V _{opt1} (m ³ /h)	P _{opt1} (Pa)	Article code
1	3-6	P3H	25	0,12	1400	IE2	533	33						A1.001.963
2	3-6	P3H	30	0,12	1400	IE2	533	33						A1.001.964
3	6-6	P3H	25	0,12	1400	IE2	533	33						A1.001.965
4	6-6	P3H	30	0,12	1400	IE2	533	33						A1.001.966

N-P: number of blades - available positions

LM: indicative

eff_e: efficiency on optimal point (aerolic efficiency x motor efficiency)

All data concerning efficiency is given for working without frequency inverter and based on installation mode A - Static

V_{opt1}: Volume flow on optimal point

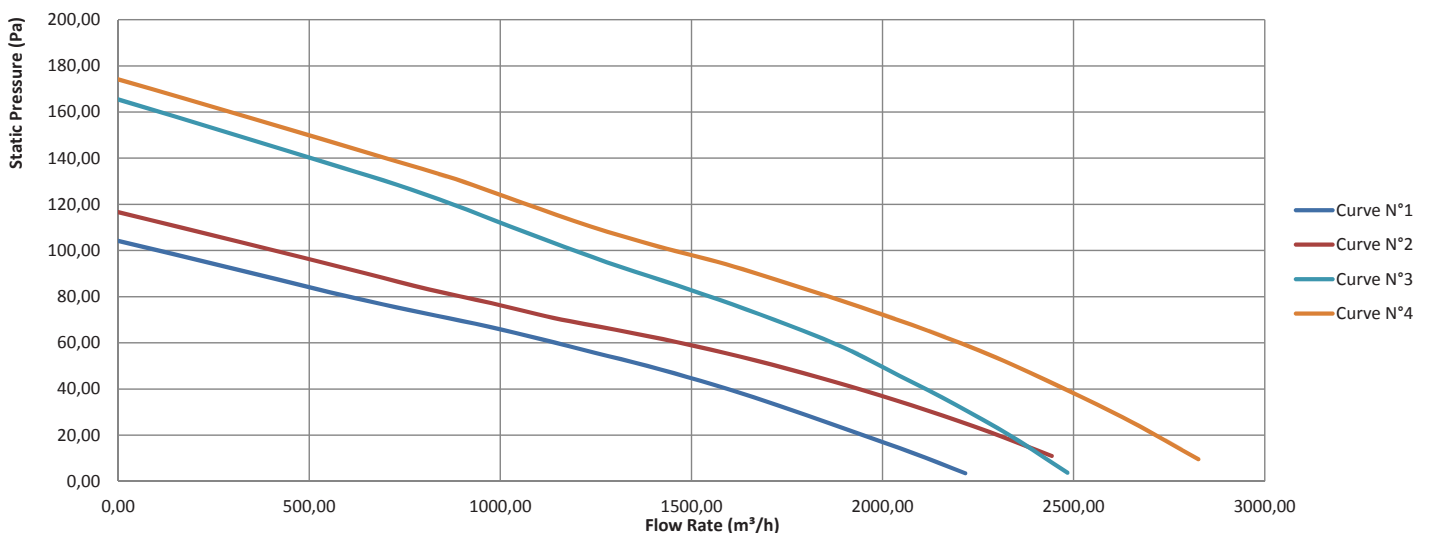
P_{opt1}: Pressure on optimal point

The specific ratio for all fans is ~1,00

P_{in1}: Electrical active power at max. efficiency working point
In case of empty cells: ErP non applicable if power < 125W

Curves

Static pressure (p) [Pa]



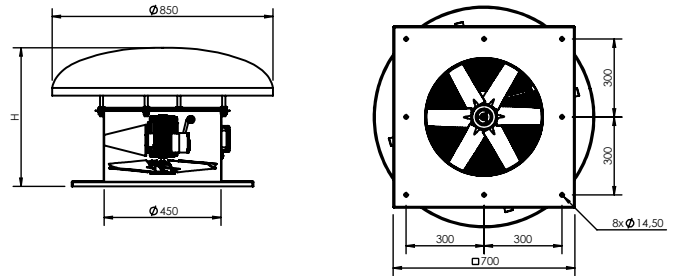
Air flow (Q) [m³/h]

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Characteristics

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1	3-6	P3H	25	0,12	1400	IE2	533	36						A1.001.967
2	3-6	P3H	30	0,12	1400	IE2	533	36						A1.001.968
3	6-6	P3H	25	0,12	1400	IE2	533	36						A1.001.969
4	6-6	P3H	30	0,18	1380	IE2	533	37	30,50	29,27	0,18	2130	103	A1.001.970

N-P: number of blades - available positions

LM: indicative

eff_o: efficiency on optimal point (aerolic efficiency x motor efficiency)

All data concerning efficiency is given for working without frequency inverter and based on installation mode A - Static

V_{opt}: Volume flow on optimal point

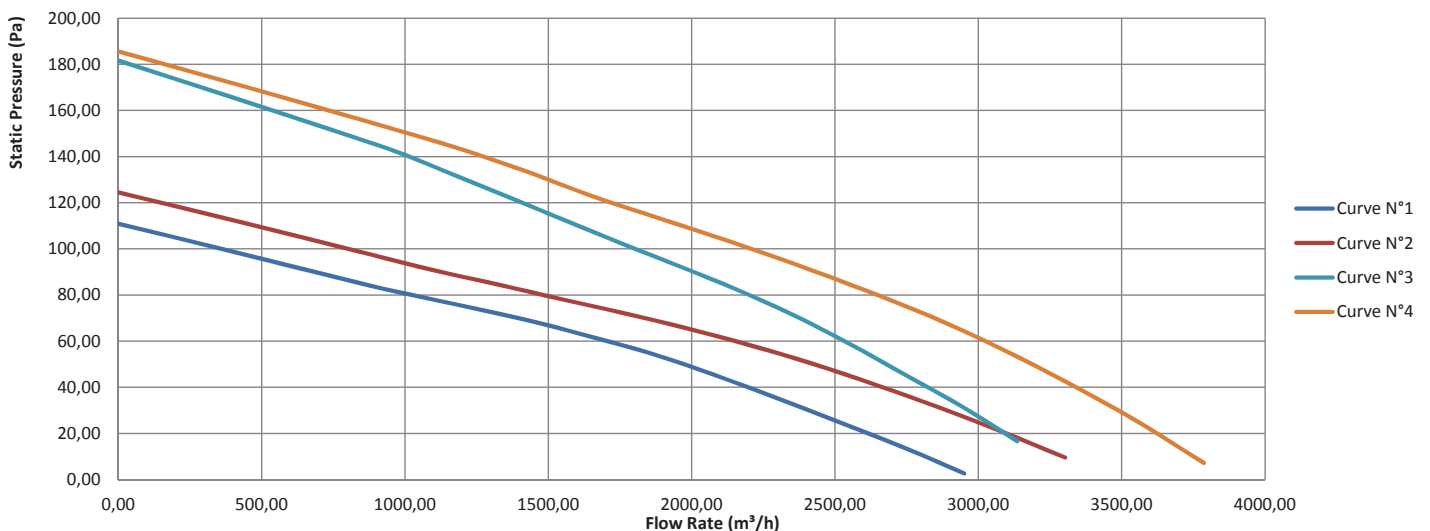
P_{opt}: Pressure on optimal point

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Curves

Static pressure (p) [Pa]



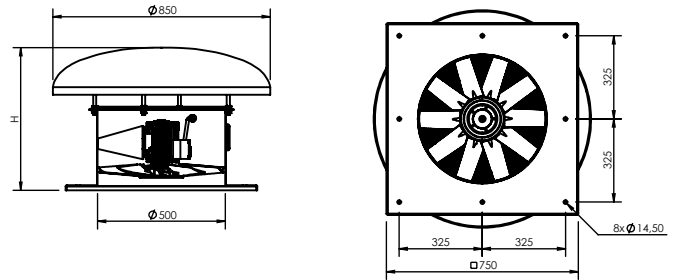
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1	3-6	P3H	25	0,12	1400	IE2	533	38						A1.001.971
2	6-6	P3H	25	0,18	1380	IE2	533	390	33,14	29,24	0,18	2450	96	A1.001.972
3	10-10	P3H	25	0,25	1365	IE2	558	41	31,51	30,78	0,35	2933	135	A1.001.973
4	10-10	P3H	30	0,37	1375	IE2	558	42	31,55	31,38	0,44	3602	137	A1.001.974

N-P: number of blades - available positions

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eff_o: efficiency on optimal point (aerolic efficiency x motor efficiency)

All data concerning efficiency is given for working without frequency inverter and based on installation mode A - Static

V_{opt1}: Volume flow on optimal point

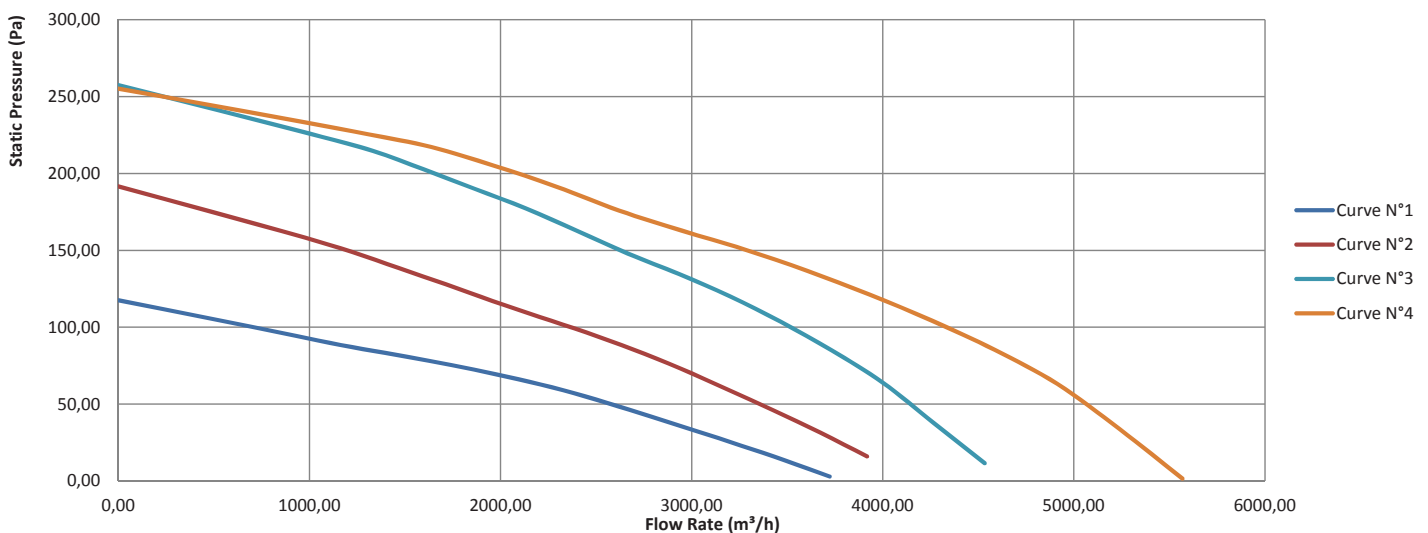
P_{opt1}: Pressure on optimal point

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P_{in1}: Electrical active power at max. efficiency working point
In case of empty cells: ErP non applicable if power < 125W

Curves

Static pressure (p) [Pa]



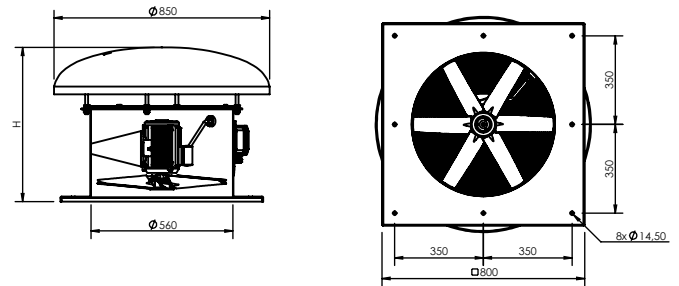
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1	3-6	P3H	25	0,12	1400	IE2	533	44						A1.001.975
2	6-6	P3H	25	0,18	1380	IE2	533	45	36,12	29,94	0,25	3115	107	A1.001.976
3	6-6	P3H	30	0,37	1375	IE2	558	48	37,56	30,72	0,36	3488	132	A1.001.977
4	6-6	P3H	35	0,55	1375	IE2	608	53	34,21	31,59	0,49	4362	132	A1.001.978

N-P: number of blades - available positions

LM: indicative

eff_e: efficiency on optimal point (aerolic efficiency x motor efficiency)

All data concerning efficiency is given for working without frequency inverter and based on installation mode A - Static

V_{opt}: Volume flow on optimal point

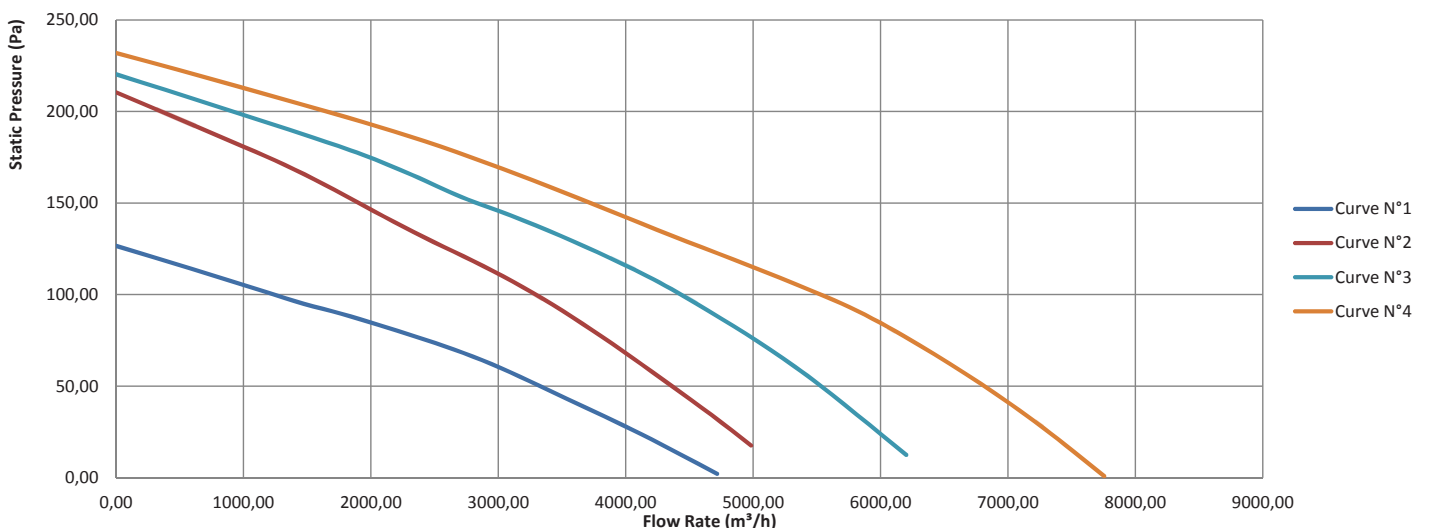
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Curves

Static pressure (p) [Pa]



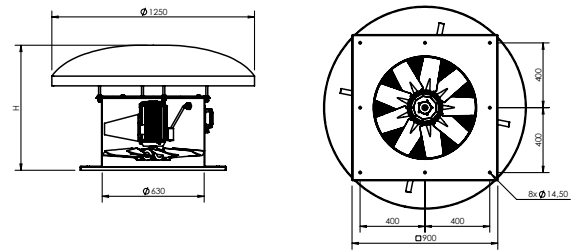
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1	5-5	P4Z	20	0,37	1375	IE2	672	67	35,23	31,88	0,52	4300	154	A1.001.979
2	7-7	P4Z	25	1,10	1437	IE3	772	85	36,16	33,73	1,01	6834	194	A1.001.980
3	9-9	P5Z	25	1,50	1445	IE3	772	90	37,88	34,48	1,34	7022	261	A1.001.981

N-P: number of blades - available positions

LM: indicative

eff_o: efficiency on optimal point (aerolic efficiency x motor efficiency)

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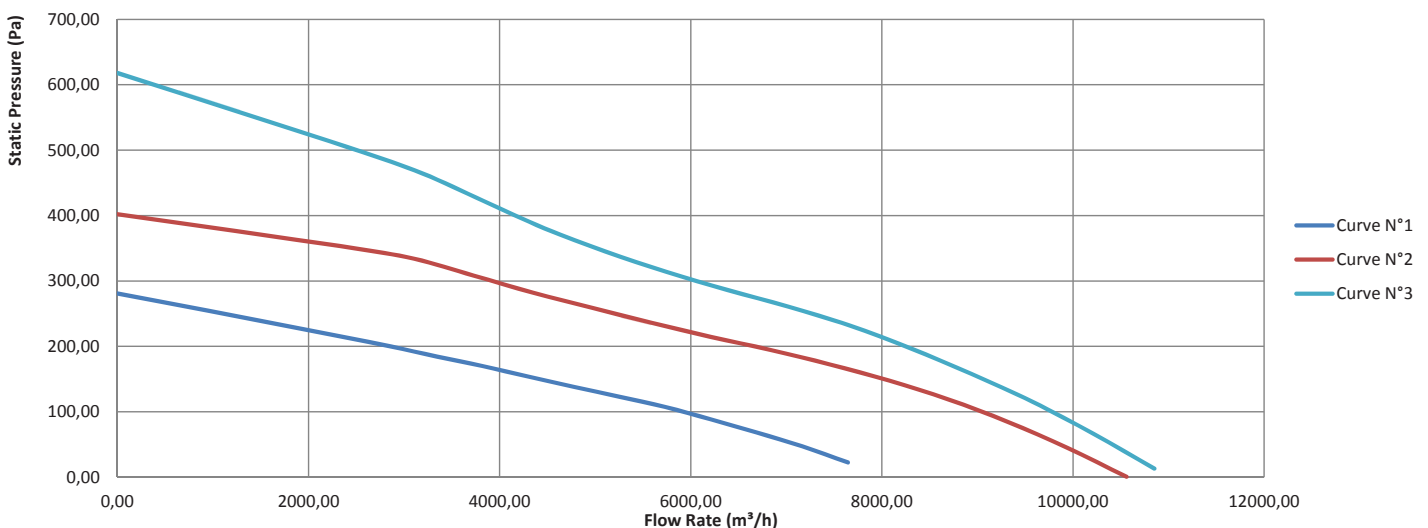
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Curves

Static pressure (p) [Pa]



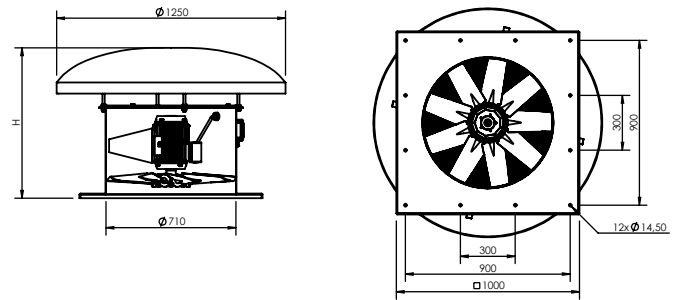
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1	5-5	P4Z	20	0,18	885	IE2	672	73	32,96	29,45	0,22	3576	71	A1.001.982
2	9-9	P4Z	30	0,55	905	IE2	722	82	33,09	32,48	0,67	5897	131	A1.001.983
3	5-5	P5Z	25	1,10	1437	IE3	772	87	41,46	34,12	1,17	8396	210	A1.001.984
4	9-9	P5Z	25	2,20	1455	IE3	821	115	41,76	35,37	1,87	9310	301	A1.001.985

N-P: number of blades - available positions

LM: indicative

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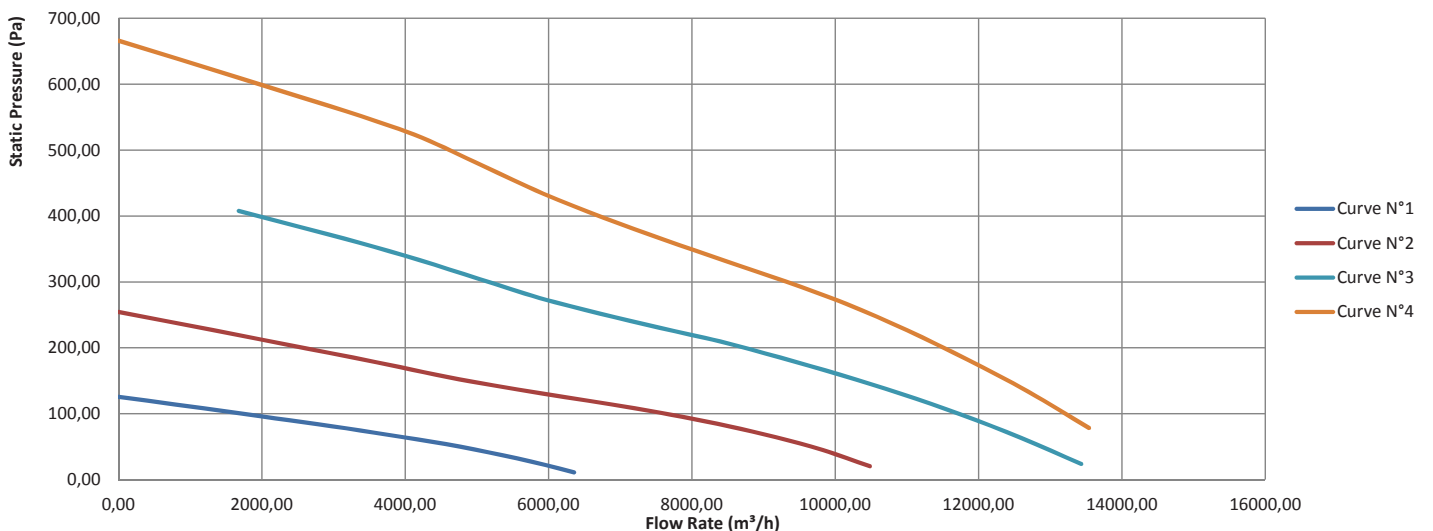
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Curves

Static pressure (p) [Pa]



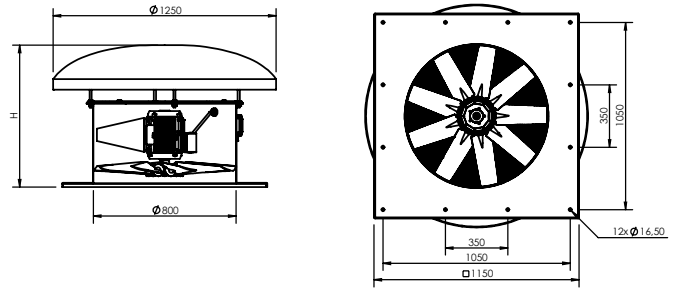
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1	7-7	P4Z	20	0,37	905	IE2	721	94	35,67	31,20	0,43	5306	98	A1.001.986
2	7-7	P5Z	32,5	1,10	935	IE3	771	109	35,62	33,44	0,94	8360	141	A1.001.987
3	7-7	P4Z	20	1,50	1435	IE3	771	109	42,05	34,48	1,34	8412	242	A1.001.988
4	9-9	P4Z	20	1,50	1435	IE3	771	110	47,48	35,00	1,60	7874	353	A1.001.989
5	9-9	P5Z	30	4,00	1445	IE3	796	130	38,96	37,00	3,40	12236	386	A1.001.990

N-P: number of blades - available positions

LM: indicative

eff_o: efficiency on optimal point (aerolic efficiency x motor efficiency)

All data concerning efficiency is given for working without frequency inverter and based on installation mode A - Static

V_{opt}: Volume flow on optimal point

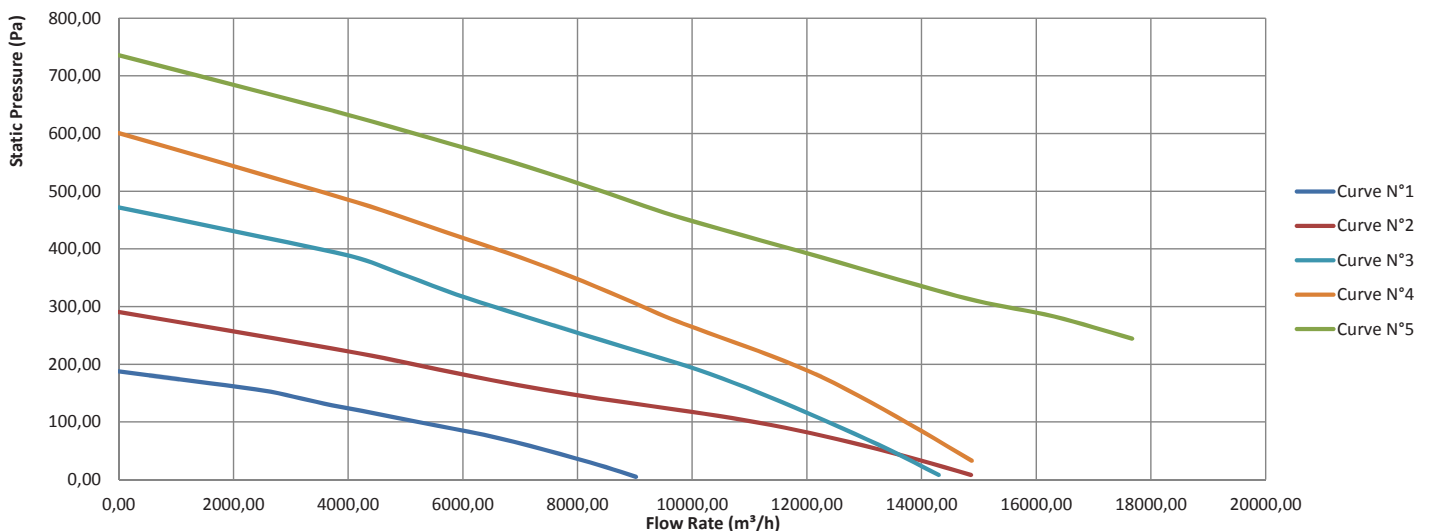
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In case of empty cells: ErP non applicable if power < 125W

Curves

Static pressure (p) [Pa]



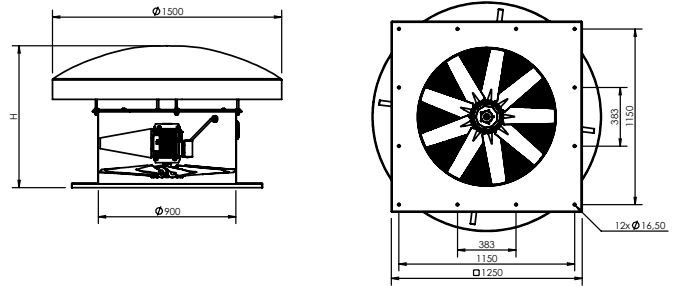
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1	5-5	P5Z	25	0,55	905	IE2	828	112	37,81	32,13	0,60	7336	106	A1.001.991
2	9-9	P5Z	25	1,10	935	IE3	878	126	42,32	33,44	0,94	8045	174	A1.001.992
3	9-9	P5Z	30	1,50	945	IE3	928	136	39,75	34,52	1,37	10510	186	A1.001.993
4	12-12	P4Z	32,5	2,20	955	IE3	903	144	40,21	35,56	2,00	11219	258	A1.001.994

N-P: number of blades - available positions

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eff_e: efficiency on optimal point (aerolic efficiency x motor efficiency)

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V_{opt}: Volume flow on optimal point

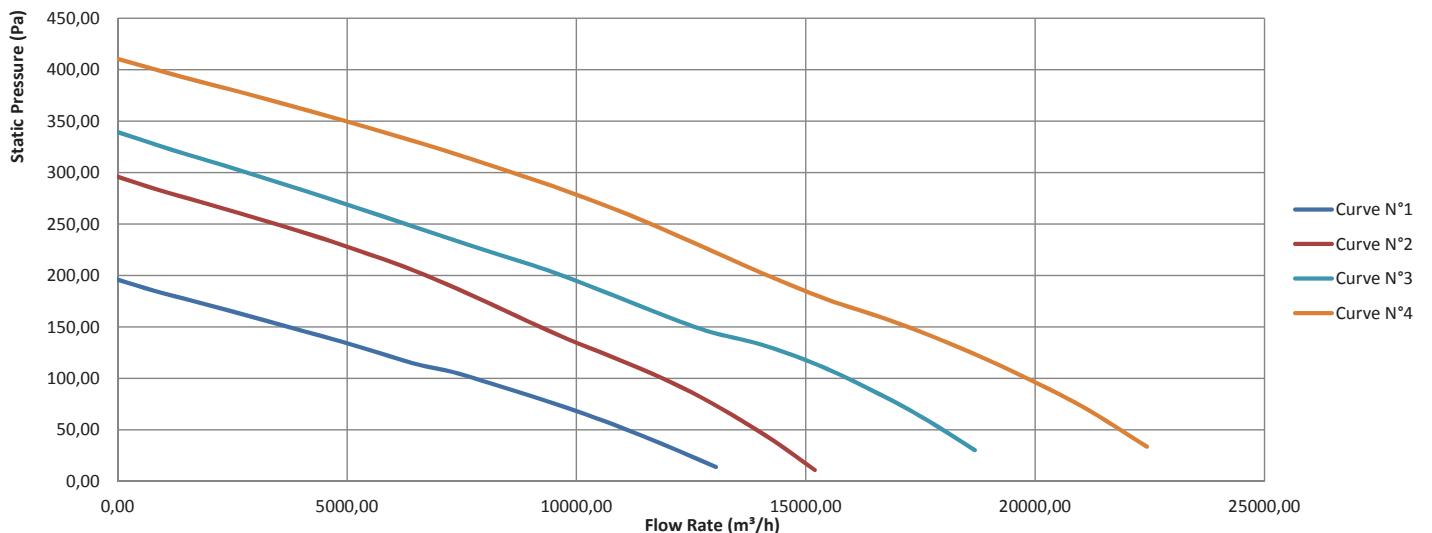
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Static pressure (p) [Pa]



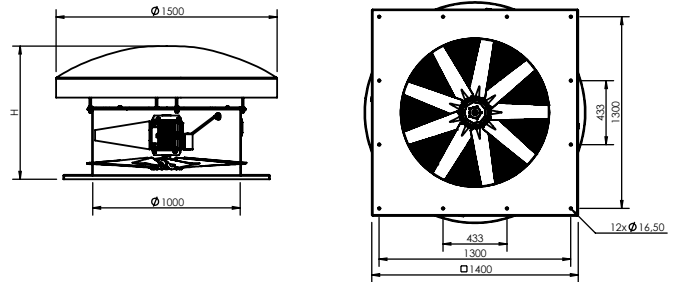
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- With a rain protection cap in polyester
- With an outlet protection grid in stainless steel
- With an external terminal box

Drawing and dimensions



Special configurations

- Dimensions (fan diameter, flanges, casing length, ...) according to customer's requirements
- Stainless steel casing
- ATEX execution for zone 1/21 and/or zone 2/22
- Cast aluminium blades
- Single-phase motor (up to 2.2kW, 2 and 4 poles)
- Start/stop switch on demand
- Special executions on demand

Motor, noise and ErP data according to EU 327/2011

Curve N(#)	N-P	Type	Pitch (°)	Power (kW)	Speed (RPM)	IE	H (mm)	Weight (kg)	eff _o (%)	eff target (%)	P _{in1} (kW)	V _{opt1} (m³/h)	P _{opt1} (Pa)	Article code
1	5-5	P5Z	25	0,55	905	IE2	828	135	34,16	32,39	0,66	9059	85	A1.001.995
2	5-5	P5Z	30	1,10	935	IE3	878	147	39,38	33,56	0,98	12463	110	A1.001.996
3	7-7	P5Z	30	1,50	945	IE3	928	160	41,29	34,86	1,53	13824	166	A1.001.997
4	9-9	P5Z	30	2,20	955	IE3	903	170	39,98	35,53	1,98	13488	210	A1.001.998
5	12-12	P5Z	30	3,00	960	IE3	953	191	38,58	36,24	2,56	14161	250	A1.001.999

N-P: number of blades - available positions

LM: indicative

eff_o: efficiency on optimal point (aerolic efficiency x motor efficiency)

All data concerning efficiency is given for working without frequency inverter and based on installation mode A - Static

V_{opt1}: Volume flow on optimal point

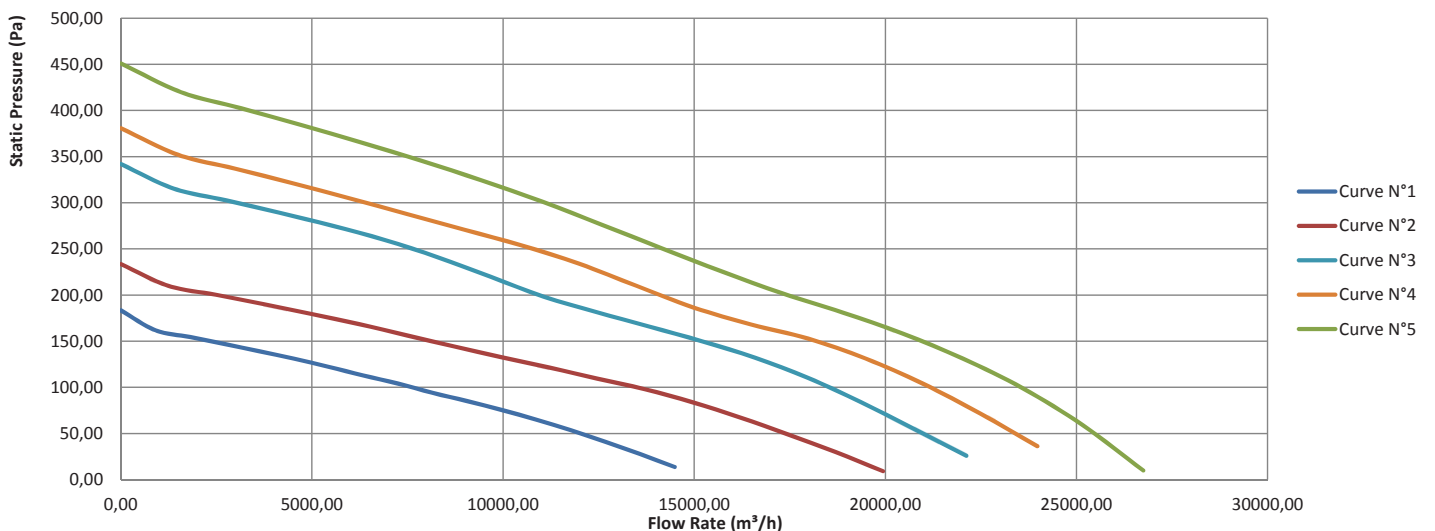
P_{opt1}: Pressure on optimal point

The specific ratio for all fans is ~1,00

P_{in1}: Electrical active power at max. efficiency working point
In case of empty cells: ErP non applicable if power < 125W

Curves

Static pressure (p) [Pa]



Air flow (Q) [m³/h]

This information can be incorrect due to mistakes and may be changed at any time without prior notice.