

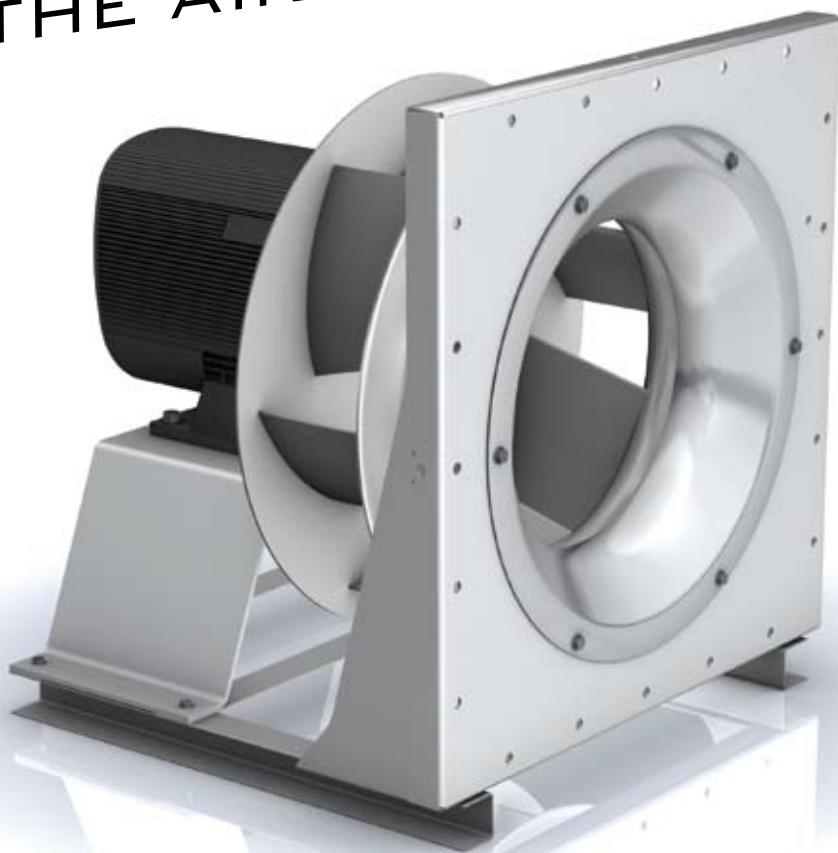
**RLM<sup>EVO</sup>**

Issue 1

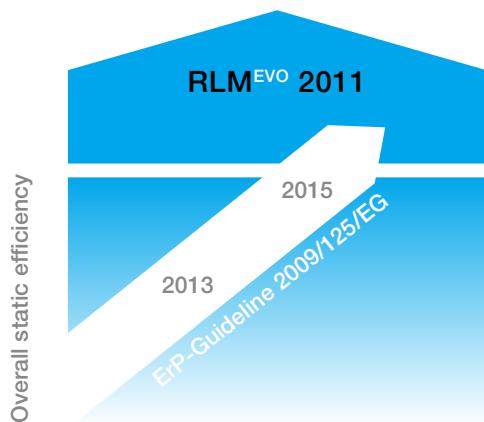
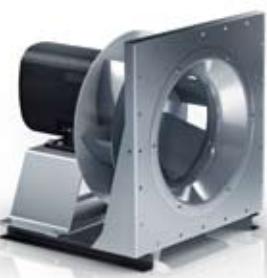
High Performance - Plug Fans  
Impeller with true airfoil blades

EVOLUTION  
IS IN THE AIR  
**RLM<sup>EVO</sup>**

**NICOTRA||Gebhardt**



## Ready for the next generation



We have accelerated impeller technology with the RLM Evo, the new generation in our RLM range. The result: More efficiency and reduced turbulent conditions. And that is highly effective as RLM Evo ensures:

- lower energy consumption
- lower costs
- lower noise levels

### Nicotra Gebhardt – the professionals in profiling

Nicotra Gebhardt is the first port of call for profiled impeller blades. We brought the first hollow section airfoil blades onto the market in 1975. Since then we have been achieving the absolutely best efficiencies in our fans in every application. Our engineers and technicians use the latest simulation programmes to develop and test new designs. You can rely on the knowledge and experience of specialists.

### Don't wait until 2015

Fans must reach ever higher system efficiencies. The EU's ERP guideline will prescribe compulsory values in 2013 and will increase them again in 2015. RLM Evo, the new generation of high performance centrifugal fans by Nicotra Gebhardt, already achieved higher efficiency in 2011 than that required as from 2015.

## The plus factors of the new Generation

### ■ Unparalleled system efficiency for free running centrifugal fans

RLM Evo sets a new standard in efficiency. No other free running centrifugal fan reaches higher system efficiency.

### ■ Innovative blade and impeller shaped for highest efficiencies

The entire shape of the impeller was optimised using a real turbulence profile for the blades. This ensures that the impeller reaches as yet unparalleled high efficiency and takes the top position in aerodynamics.

### ■ Optimal pressure and turbulence conditions

The re-designed impeller shape makes optimal pressure and minimised turbulence conditions in the impeller possible. The inclined leading edge of the blade builds pressure more evenly minimising entry and exit losses.

### ■ Low operating cost brushless DC motor

The brushless DC motor used by Nicotra Gebhardt is markedly more efficient than conventional drives: It reduces the energy consumption of the fan for partial loads by up to 50 %.

### ■ Much quieter

Thanks to their new design the blades and the impeller run with less noise. The entire fan is thus much quieter.

### ■ Easy to integrate

Despite their improved performance figures, fans in the RLM Evo range have the same external dimensions and significant operational data as earlier generations of centrifugal fans. They can therefore be easily and quickly exchanged in existing systems or integrated in available machine concepts.

### ■ Easy maintenance

Thanks to the construction method and direct drive the RLM Evo is practically maintenance-free.

## The evolutionary elements

### ■ The perfect profile



At the heart of the RLM Evo are the six blades with rounded inclined leading edges and re-designed hollow profile.

They ensure minimised turbulence conditions in the impeller thus enabling the extraordinary high efficiency of the fan.

Due to their special shape, the blades build up pressure evenly at all sections. The result: Air circulates around the blades better and the turbulence tends to dissipate.

This increases not only efficiency but also causes significantly lower noise.



### ■ The innovative high performance impeller

The re-designed high performance impeller makes RLM Evo unbeatable in matters of efficiency. To ensure this we optimised the entire shape.

The special shape of the cover disc alone greatly improves turbulence. The width and diameter of the impeller are in an ideal ratio to each other. The new hollow profile of the blades ensured that the weight of the impeller could be markedly reduced and that, at the same time, a high degree of stability could be reached. Pressure losses on entry were greatly decreased. And at the exit, where losses had been sustained before, the new impeller shape ensures additional available static pressure.



### ■ The tailored drive

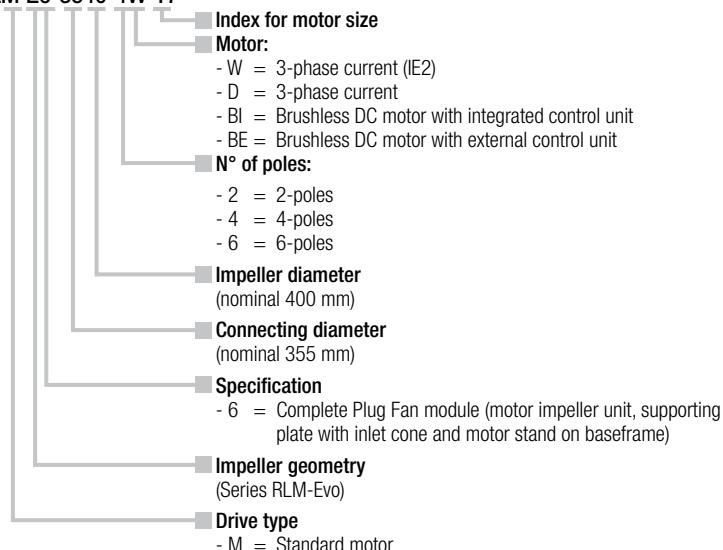
The new generation of our free running centrifugal fans not only have a perfect impeller but also a precisely matched drive. For this reason, RLM Evo, already an innovation in itself, is available with a cutting edge brushless DC motor. Together with such a drive, the RLM Evo delivers high performance with particularly low energy consumption. Whether during start-up or under base, partial or full load, the efficiency exceeds that of a conventional AC motor in every situation.

Our drives with brushless DCs reach efficiencies of efficiency class IE3 and higher.

### Typenschlüssel

The type code of every fan is composed as follows. Example:

RLM E6-3540-4W-17



## RLM E6-2528

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RLM EVO

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## Technical Data

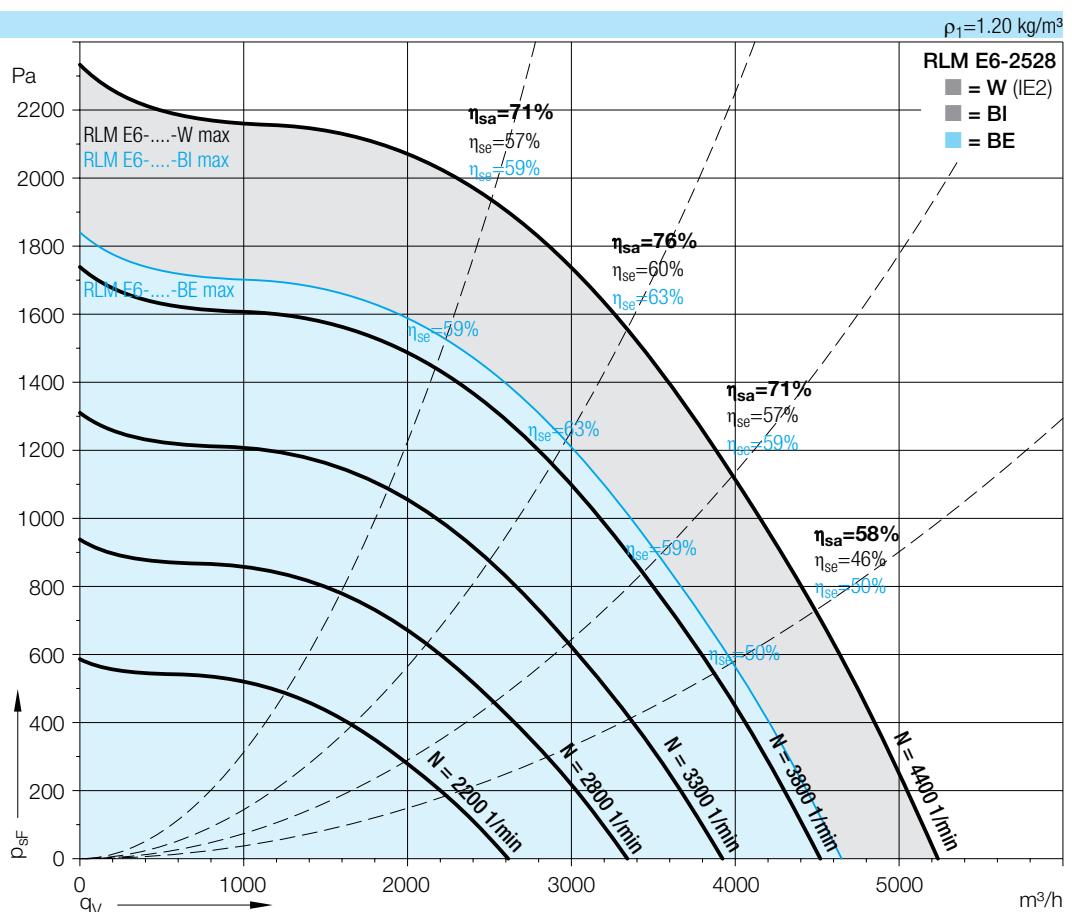
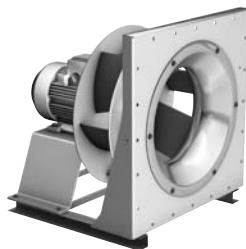
Fan type RLM Evo	Motor power kW (max.)	Mains voltage V	Mains frequency Hz	Nominal speed 1/min	Nominal moment Nm	Nominal current A	max. operating frequency Hz	max. speed 1/min	Motor size **	Poles	approx. weight ~kg
RLM E6-2528-2W-14	2.20	230/400	50	2890	—	7.60/4.40	76	4400	90 L	2	34
RLM E6-2528-2W-13	1.50	230/400	50	2890	—	5.30/3.05	69	4040	90 S	2	30
RLM E6-2528-2W-11	1.10	230/400	50	2860	—	3.90/2.25	63	3640	80 M	2	26
RLM E6-2528-2W-10	0.75	230/400	50	2870	—	2.95/1.71	55	3180	80 M	2	24
RLM E6-2528-2D-08	0.55	230/400	50	2800	—	2.37/1.36	51	2880	71 M	2	21
RLM E6-2528-BI	3.00	380...480	50/60	4500	6.4	6.4...5.1	—	4400	90	—	32
RLM E6-2528-BE	1.50	*	*	4500	3.2	3.2	—	3910	71	—	22

\* Motor connected to inverter type: Danfoss; VLT HVAC Drive FC 102; 1.5 kW.

## Performance charts

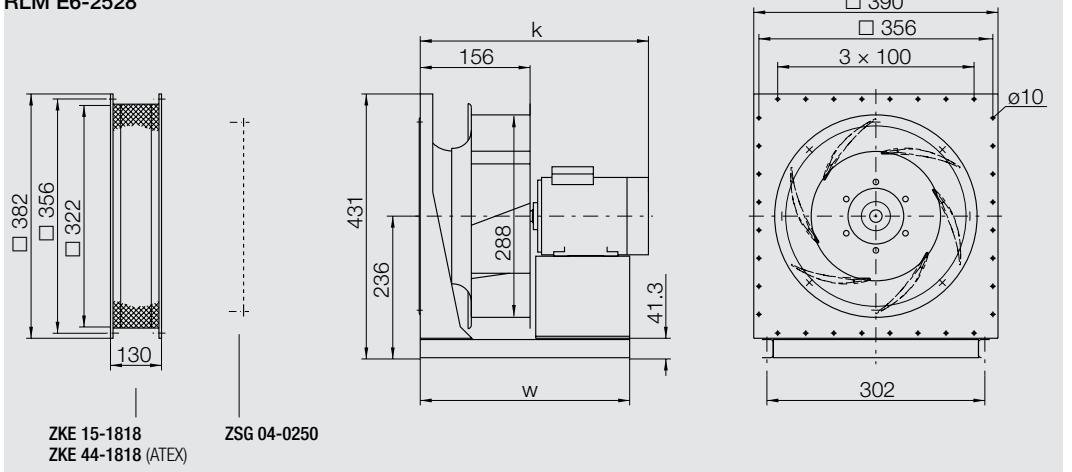
Comparison system efficiencies  $\eta_{se}$

2W (IE2)	BI (>IE3)	BE (>IE3)
60 %	63 %	63 %



RLM E6-2528

Motor **	$k_{\max}$	w
71	456	357
80	484	377
90	521	408
100	554	430



## RLM E6-2831

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## Technical Data

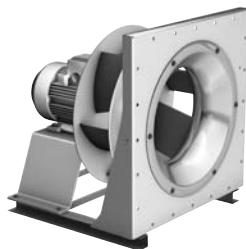
Fan type RLM Evo	Motor power kW (max.)	Mains voltage V	Mains frequency Hz	Nominal speed 1/min	Nominal moment Nm	Nominal current A	max. operating frequency Hz	max. speed 1/min	Motor size **	Poles	approx. weight ~kg
RLM E6-2831-2W-14	2.20	230/400	50	2890	—	7.60/4.40	65	3770	90 L	2	36
RLM E6-2831-2W-13	1.50	230/400	50	2890	—	5.30/3.05	57	3310	90 S	2	32
RLM E6-2831-2W-11	1.10	230/400	50	2860	—	3.90/2.25	52	2990	80 M	2	27
RLM E6-2831-4W-11	0.75	230/400	50	1400	—	3.15/1.81	94	2650	80 M	4	26
RLM E6-2831-4D-10	0.55	230/400	50	1395	—	2.54/1.46	83	2330	80 M	4	25
RLM E6-2831-BI	2.20	380...480	50/60	3600	5.8	4.8...3.8	—	3600	90	—	34
RLM E6-2831-BE	2.20	*	*	3600	5.8	4.6	—	3600	71	—	24

\* Motor connected to inverter type: Danfoss; VLT HVAC Drive FC 102; 2.2 kW.

## Performance charts

Comparison system efficiencies  $\eta_{se}$

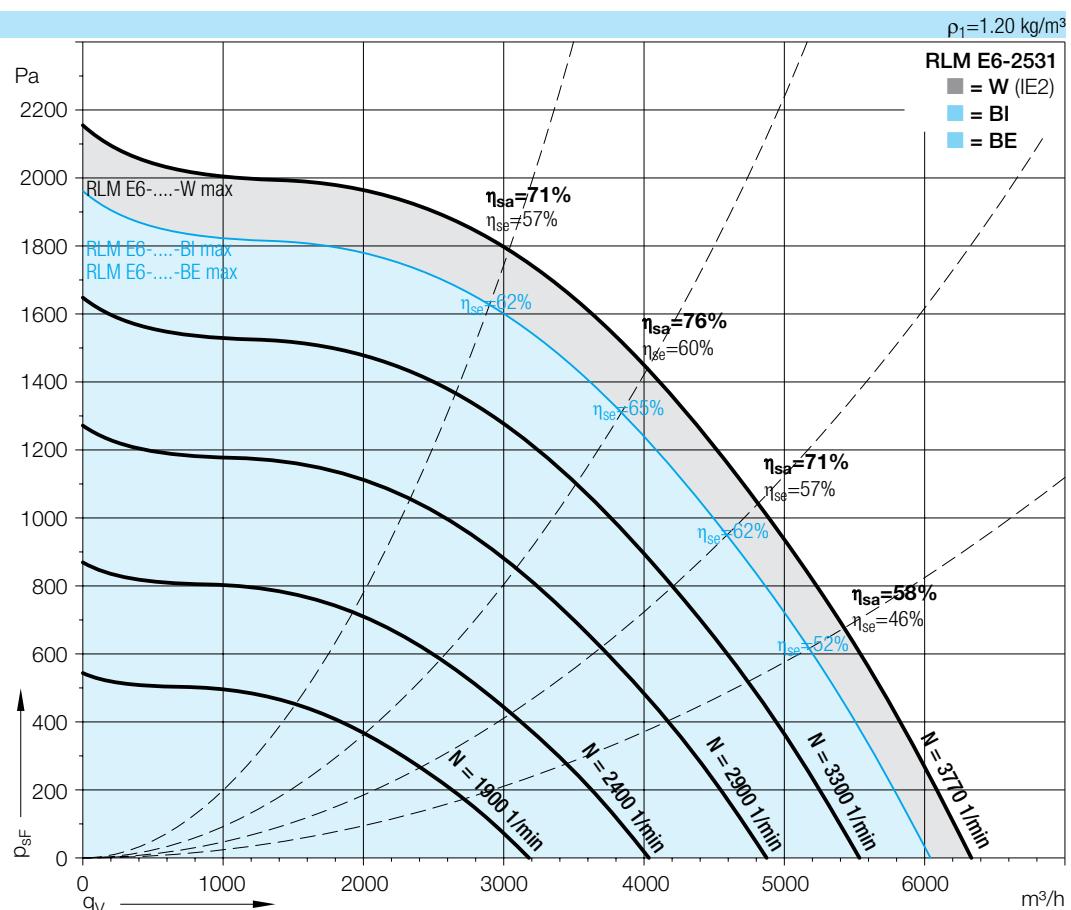
2W (IE2)	BI (>IE3)	BE (>IE3)
60 %	65 %	65 %



## Explanation

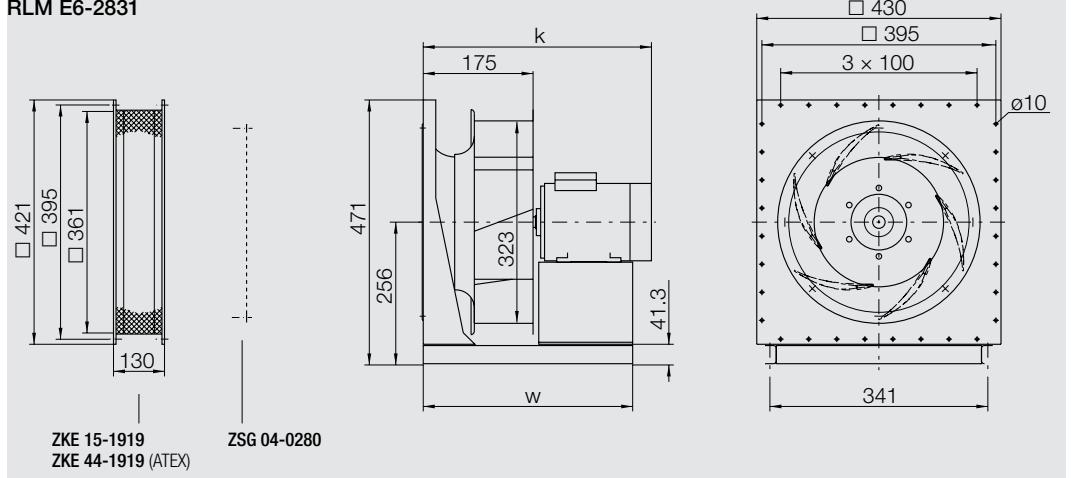
$\eta_{se}$  = overall static efficiency (impeller, motor, inverter)  
 $\eta_{sa}$  = fan shaft static efficiency

$L_{WA8}$  = A-weighted sound power level at discharge



RLM E6-2831

Motor **	$k_{\max}$	w
80	504	397
90	541	428
100	574	450
112	576	457



## RLM E6-3135

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## Technical Data

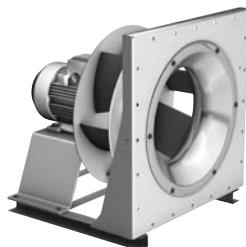
Fan type RLM Evo	Motor power kW (max.)	Mains voltage V	Mains frequency Hz	Nominal speed 1/min	Nominal moment Nm	Nominal current A	max. operating frequency Hz	max. speed 1/min	Motor size **	Poles	approx. weight ~kg
RLM E6-3135-2W-16	3.00	400 $\Delta$	50	2905	—	6.10	59	3440	100 L	2	40
RLM E6-3135-2W-14	2.20	230/400	50	2890	—	7.60/4.40	53	3090	90 L	2	38
RLM E6-3135-4W-14	1.50	230/400	50	1440	—	5.90/3.40	95	2750	90 L	4	34
RLM E6-3135-4W-13	1.10	230/400	50	1440	—	4.40/2.55	86	2480	90 S	4	33
RLM E6-3135-4W-11	0.75	230/400	50	1400	—	3.15/1.81	77	2180	80 M	4	30
RLM E6-3135-BI	3.00	380...480	50/60	3600	8.0	6.4...5.1	—	3430	90	—	39
RLM E6-3135-BE	3.00	*	*	3600	8.0	6.3	—	3430	90	—	32

\* Motor connected to inverter type: Danfoss; VLT HVAC Drive FC 102; 3.0 kW.

## Performance charts

Comparison system efficiencies  $\eta_{se}$

2W (IE2)	BI (>IE3)	BE (>IE3)
62 %	67 %	67 %

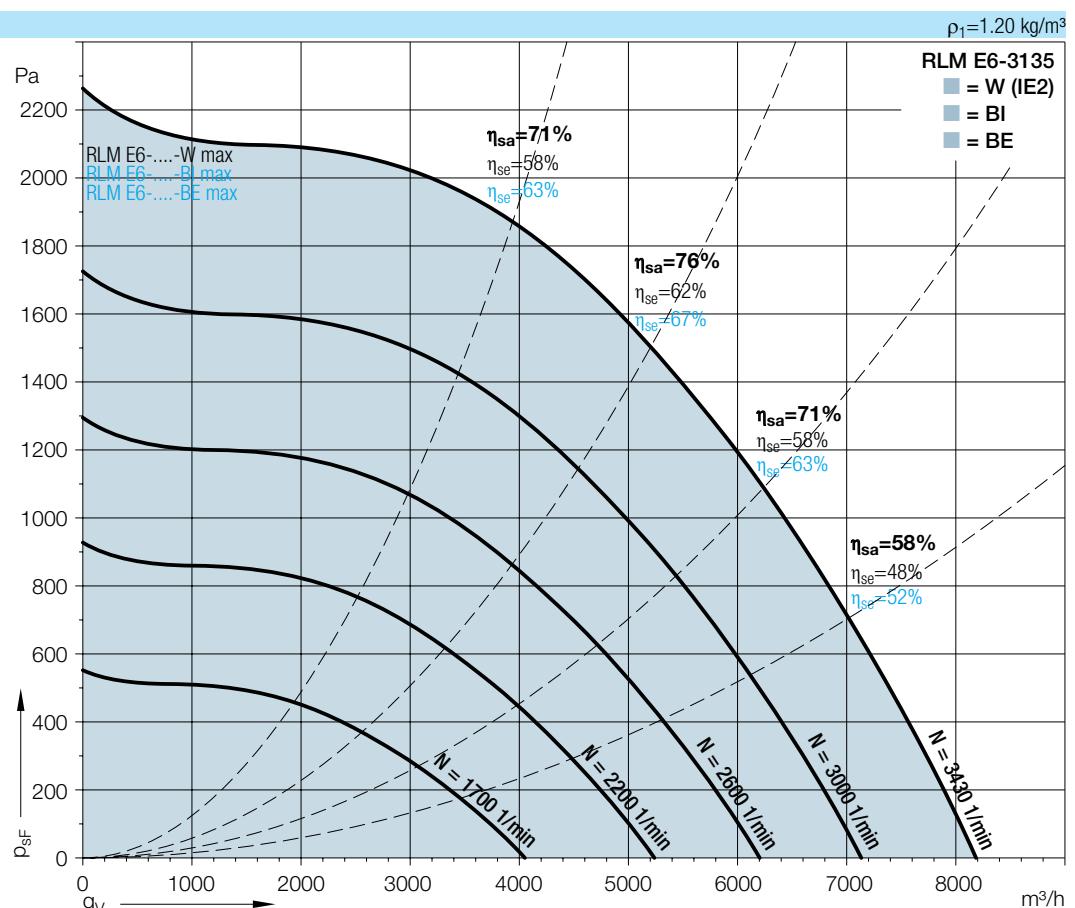


## Explanation

$\eta_{se}$  = overall static efficiency (impeller, motor, inverter)

$\eta_{sa}$  = fan shaft static efficiency

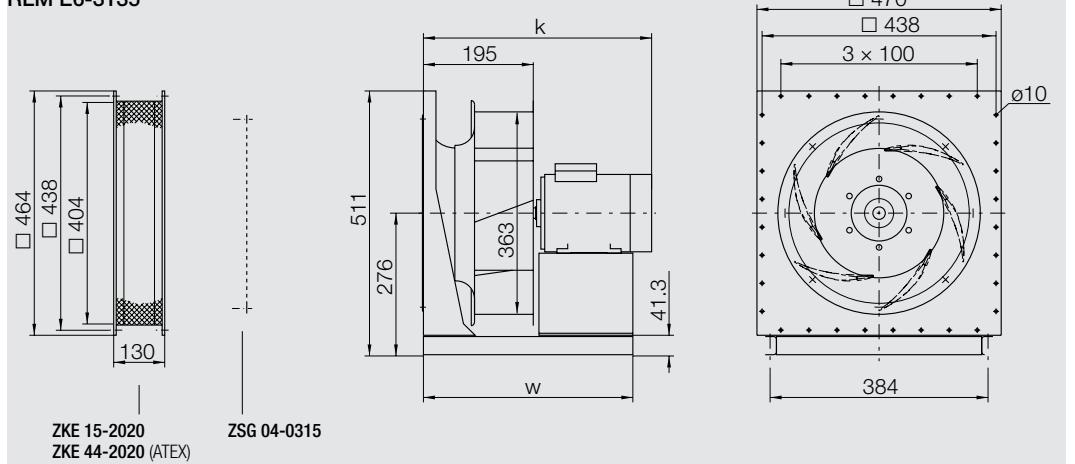
$L_{WA8}$  = A-weighted sound power level at discharge



Dimensions in mm, subject to change.

RLM E6-3135

Motor **	$k_{max}$	w
80	524	417
90	561	448
100	594	470
112	613	477



## RLM E6-3540

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## Technical Data

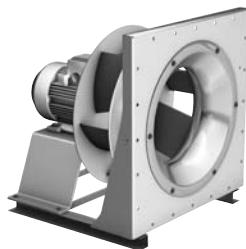
Fan type RLM Evo	Motor power kW (max.)	Mains voltage V	Mains frequency Hz	Nominal speed 1/min	Nominal moment Nm	Nominal current A	max. operating frequency Hz	max. speed 1/min	Motor size **	Poles	approx. weight ~kg
RLM E6-3540-2W-19	4.00	400 △	50	2950	—	7.80	52	3070	112 M	2	54
RLM E6-3540-4W-17	3.00	400 △	50	1455	—	6.20	97	2850	100 L	4	58
RLM E6-3540-4W-16	2.20	400 △	50	1455	—	4.65	87	2560	100 L	4	49
RLM E6-3540-4W-14	1.50	230/400	50	1440	—	5.90/3.40	79	2280	90 L	4	44
RLM E6-3540-4W-13	1.10	230/400	50	1440	—	4.40/2.55	71	2050	90 S	4	41
RLM E6-3540-4W-11	0.75	230/400	50	1400	—	3.15/1.81	64	1800	80 M	4	37
RLM E6-3540-BI	3.00	380...480	50/60	3000	9.6	6.4...5.1	—	2870	90	—	46
RLM E6-3540-BE	3.00	*	*	3000	9.6	6.4	—	2870	90	—	39

\* Motor connected to inverter type: Danfoss; VLT HVAC Drive FC 102; 3.0 kW.

## Performance charts

Comparison system efficiencies  $\eta_{se}$

2W (IE2)	BI (>IE3)	BE (>IE3)
63 %	67 %	67 %

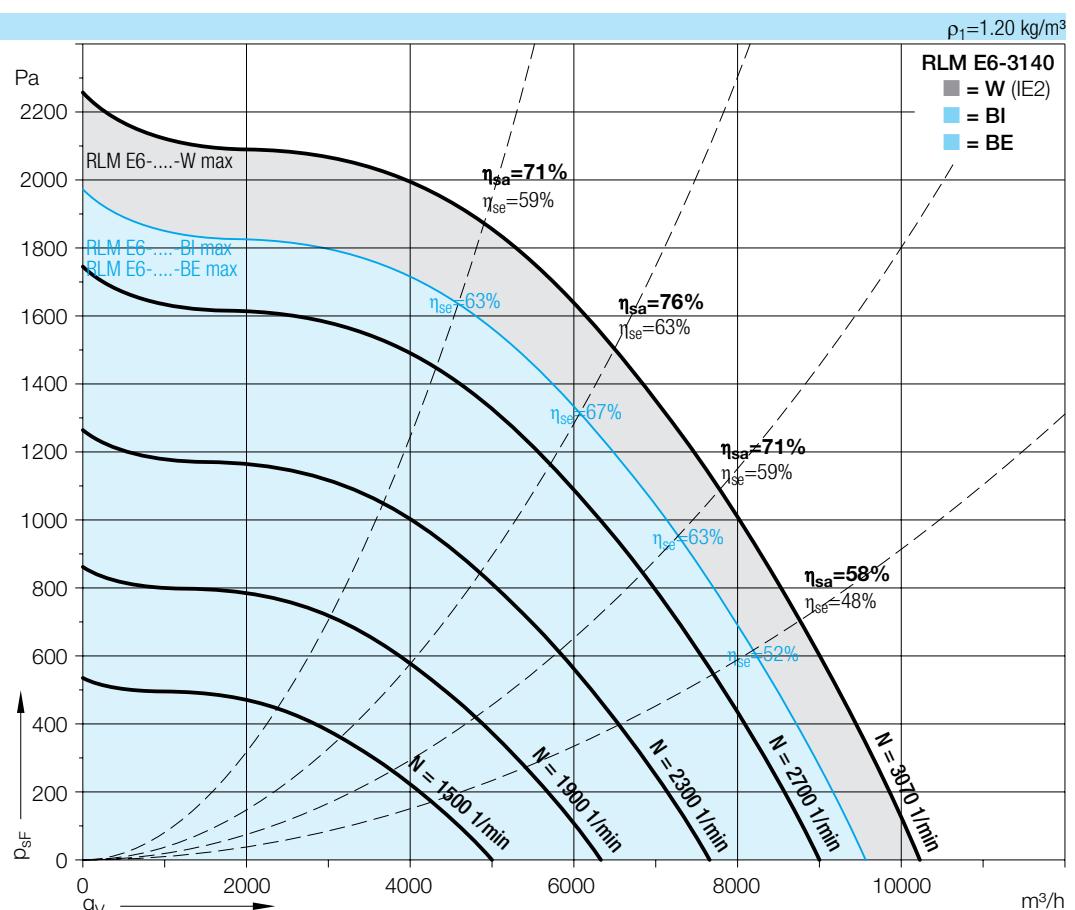


## Explanation

$\eta_{se}$  = overall static efficiency (impeller, motor, inverter)

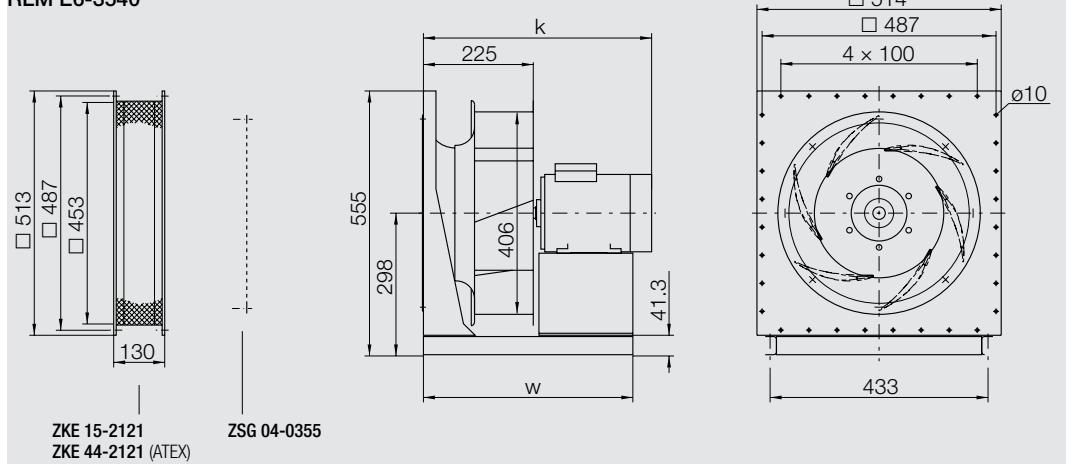
$\eta_{sa}$  = fan shaft static efficiency

$L_{WA8}$  = A-weighted sound power level at discharge



Dimensions in mm, subject to change.

RLM E6-3540



## RLM E6-4045

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## Technical Data

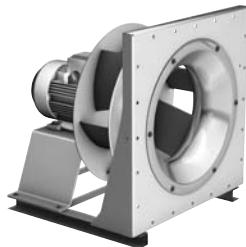
Fan type RLM Evo	Motor power kW (max.)	Mains voltage V	Mains frequency Hz	Nominal speed 1/min	Nominal moment Nm	Nominal current A	max. operating frequency Hz	max. speed 1/min	Motor size **	Poles	approx. weight ~kg
RLM E6-4045-4W-21	5.5	400 △	50	1465	—	11.4	94	2760	132 S	4	77
RLM E6-4045-4W-19	4.0	400 △	50	1460	—	8.20	90	2640	112 M	4	66
RLM E6-4045-4W-17	3.0	400 △	50	1455	—	6.20	82	2400	100 L	4	64
RLM E6-4045-4W-16	2.2	400 △	50	1455	—	4.65	73	2140	100 L	4	54
RLM E6-4045-4W-14	1.5	230/400	50	1440	—	5.90/3.40	65	1900	90 L	4	50
RLM E6-4045-4W-13	1.1	230/400	50	1440	—	4.40/2.55	59	1710	90 S	4	46
RLM E6-4045-BI	4.00	380...480	50/60	3000	12.7	8.5...6.8	—	2480	90	—	53
RLM E6-4045-BE	4.00	*	*	3000	12.7	8.5	—	2480	90	—	46

\* Motor connected to inverter type: Danfoss; VLT HVAC Drive FC 102; 4.0 kW.

## Performance charts

Comparison system efficiencies  $\eta_{se}$

4W (IE2)	BI (>IE3)	BE (>IE3)
65 %	68 %	68 %

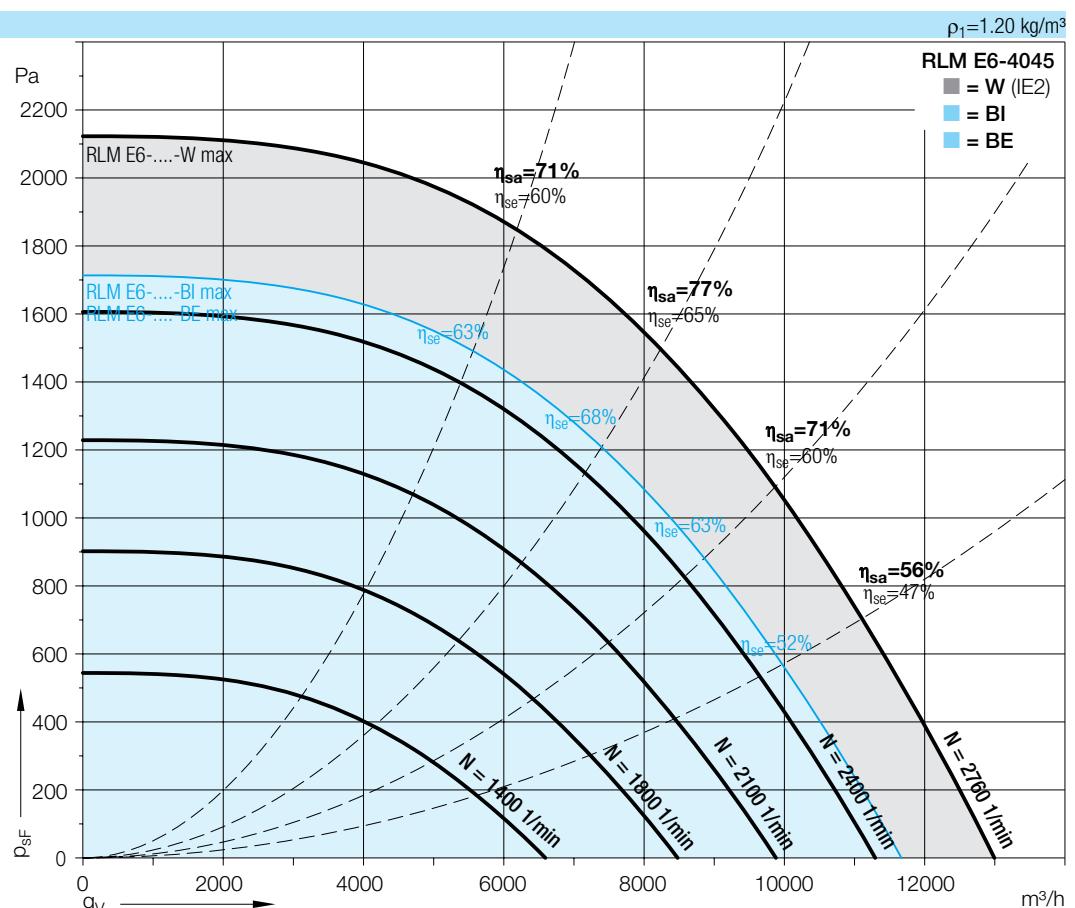


## Explanation

$\eta_{se}$  = overall static efficiency (impeller, motor, inverter)

$\eta_{sa}$  = fan shaft static efficiency

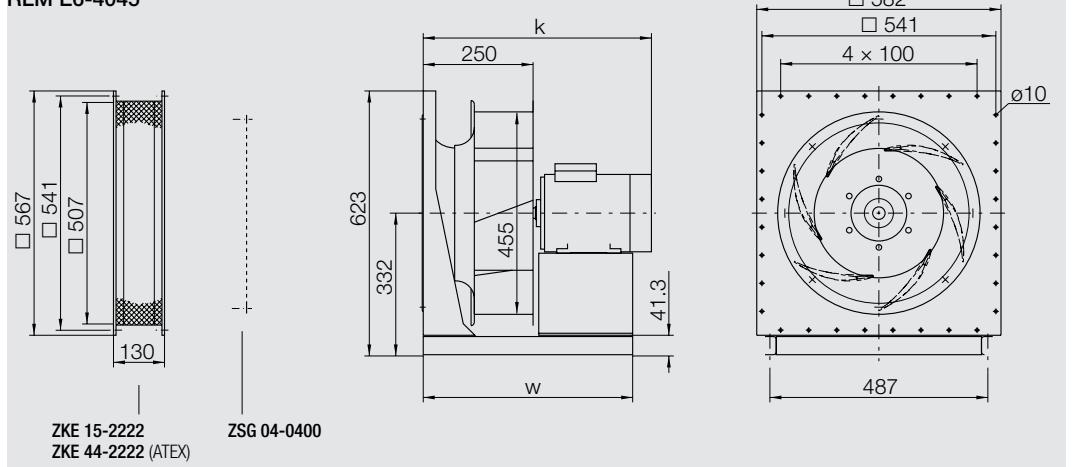
$L_{WA8}$  = A-weighted sound power level at discharge



Dimensions in mm, subject to change.

## RLM E6-4045

Motor **	$k_{max}$	w
90	616	503
100	649	525
112	651	532
132	718	561



**RLM E6-4550**

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**Technical Data**

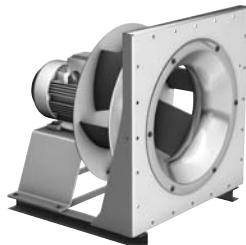
Fan type RLM Evo	Motor power kW (max.)	Mains voltage V	Mains frequency Hz	Nominal speed 1/min	Nominal moment Nm	Nominal current A	max. operating frequency Hz	max. speed 1/min	Motor size **	Poles	approx. weight ~kg
<b>RLM E6-4550-4W-21</b>	5.5	400 △	50	1465	—	11.40	82	2430	132 S	4	88
<b>RLM E6-4550-4W-19</b>	4.0	400 △	50	1460	—	8.20	74	2180	112 M	4	77
<b>RLM E6-4550-4W-17</b>	3.0	400 △	50	1455	—	6.20	68	1980	100 L	4	71
<b>RLM E6-4550-4W-16</b>	2.2	400 △	50	1455	—	4.65	60	1760	100 L	4	62
<b>RLM E6-4550-4W-14</b>	1.5	230/400	50	1440	—	5.90/3.4	54	1560	90 L	4	57
<b>RLM E6-4550-BI</b>	5.50	380...480	50/60	3000	17.5	11.7...9.3	—	2190	90	—	63
<b>RLM E6-4550-BE</b>	5.50	*	*	3000	17.5	11.7	—	2190	90	—	56

\* Motor connected to inverter type: Danfoss; VLT HVAC Drive FC 102; 5.5 kW.

**Performance charts**

Comparison system efficiencies  $\eta_{se}$

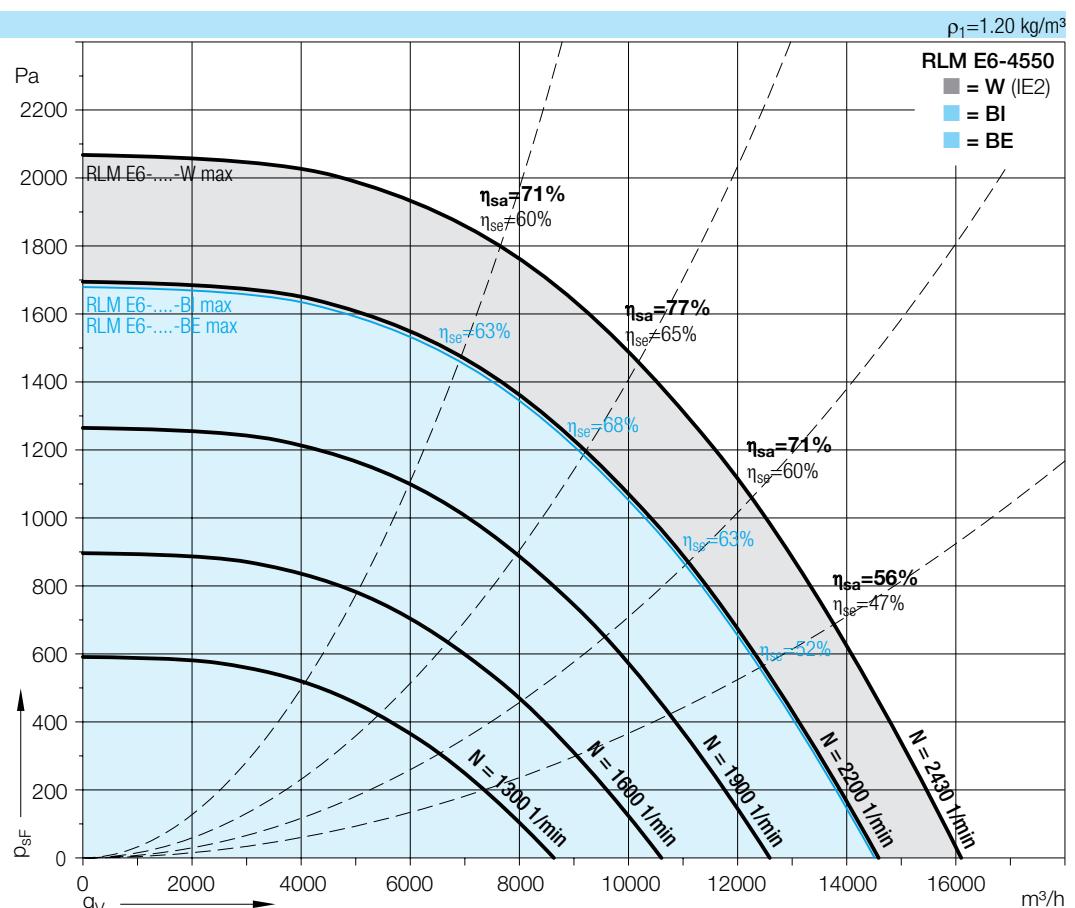
4W (IE2)	BI (>IE3)	BE (>IE3)
65 %	68 %	68 %

**Explanation**

$\eta_{se}$  = overall static efficiency (impeller, motor, inverter)

$\eta_{sa}$  = fan shaft static efficiency

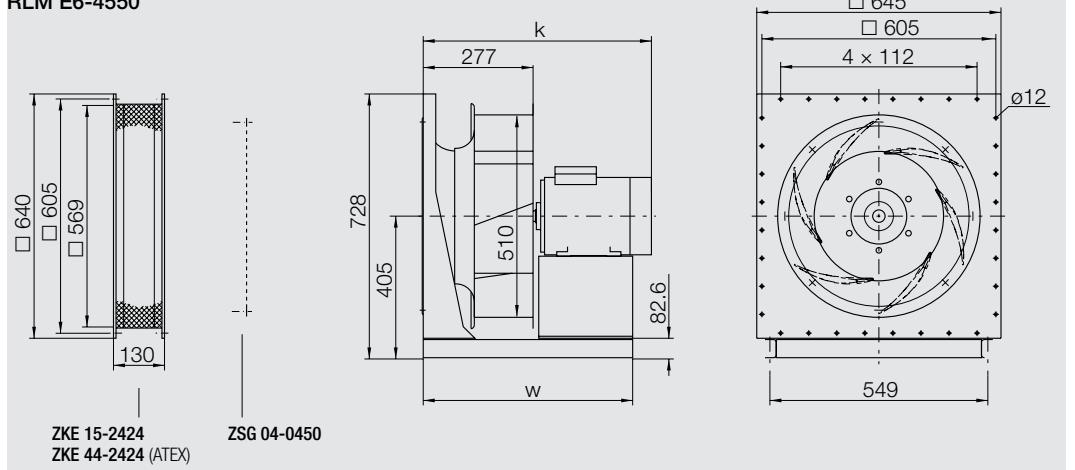
$L_{WA8}$  = A-weighted sound power level at discharge



Dimensions in mm, subject to change.

**RLM E6-4550**

Motor **	$k_{\max}$	w
90	643	530
100	676	552
112	678	559
132	745	598
160	803	697



## RLM E6-5056

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## Technical Data

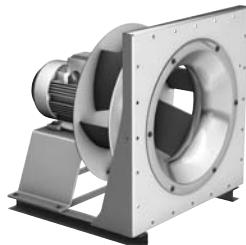
Fan type RLM Evo	Motor power kW (max.)	Mains voltage V	Mains frequency Hz	Nominal speed 1/min	Nominal moment Nm	Nominal current A	max. operating frequency Hz	max. speed 1/min	Motor size **	Poles	approx. weight ~kg
RLM E6-5056-4W-23	7.5	400 △	50	1465	—	14.80	75	2200	132 M	4	113
RLM E6-5056-4W-21	5.5	400 △	50	1465	—	11.40	68	2010	132 S	4	100
RLM E6-5056-4W-19	4.0	400 △	50	1460	—	8.20	61	1800	112 M	4	87
RLM E6-5056-4W-17	3.0	400 △	50	1455	—	6.20	56	1640	100 L	4	81
RLM E6-5056-4W-16	2.2	400 △	50	1455	—	4.65	50	1455	100 L	4	72
RLM E6-5056-6W-16	1.5	230/400	50	935	—	6.40/3.7	69	1300	100 L	6	78
RLM E6-5056-BI	4.00	380...480	50/60	1800	21.2	8.8...7.0	—	1800	90	—	82
RLM E6-5056-BE	4.00	*	*	1800	21.2	8.4	—	1800	90	—	75

\* Motor connected to inverter type: Danfoss; VLT HVAC Drive FC 102; 4.0 kW.

## Performance charts

Comparison system efficiencies  $\eta_{se}$ 

4W (IE2)	BI (>IE3)	BE (>IE3)
66 %	67 %	67 %

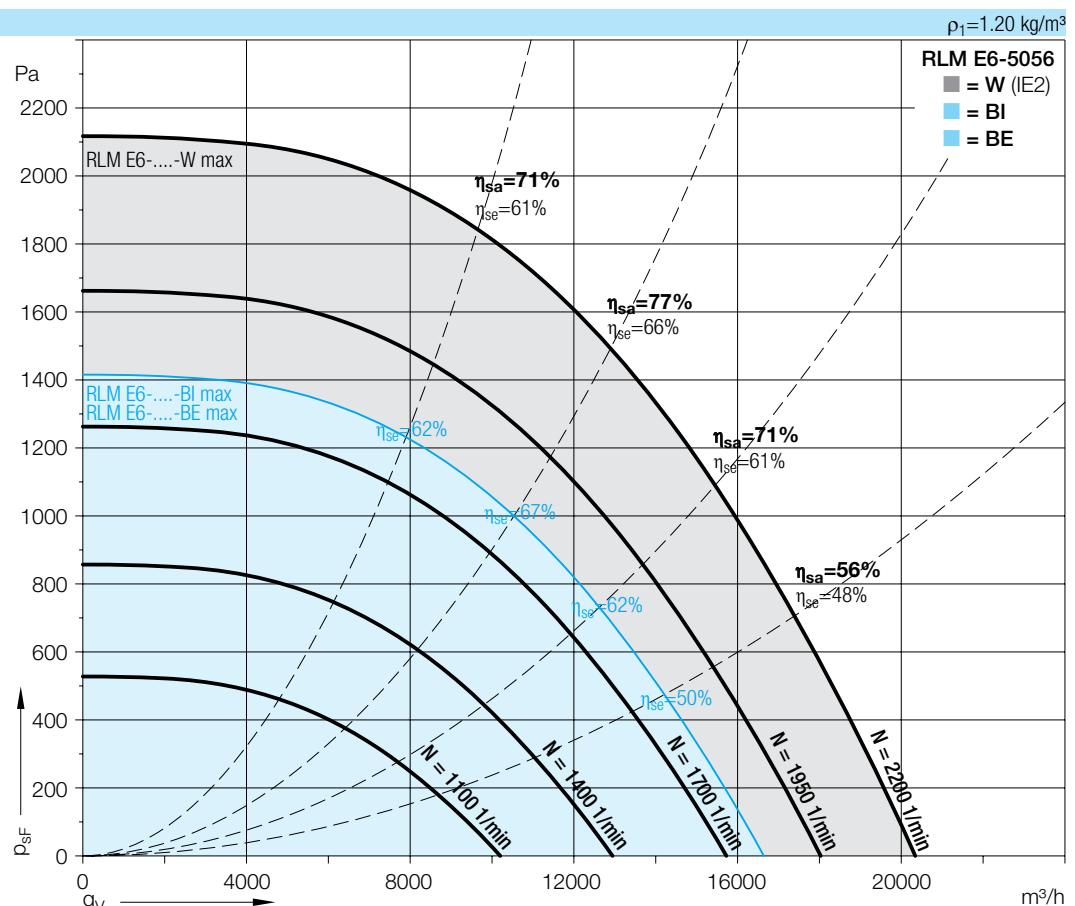


## Explanation

$\eta_{se}$  = overall static efficiency (impeller, motor, inverter)

$\eta_{sa}$  = fan shaft static efficiency

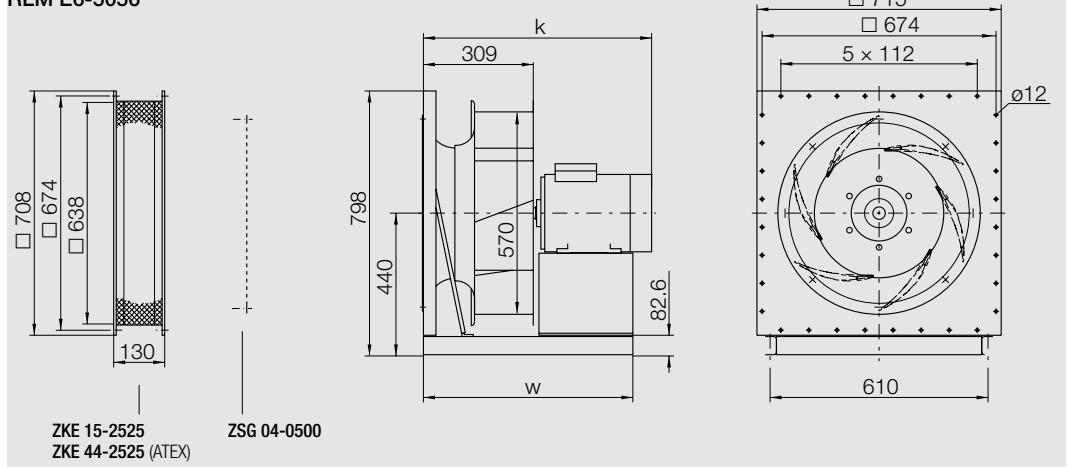
$L_{WA8}$  = A-weighted sound power level at discharge



Dimensions in mm, subject to change.

## RLM E6-5056

Motor **	$k_{max}$	w
100	686	562
112	688	569
132	755	608
160	850	707



## RLM E6-5663

EVOLUTION  
IS IN THE AIR  
RLM **EVO**

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## Technical Data

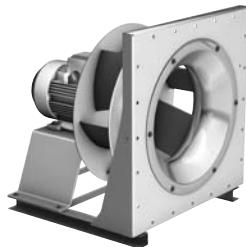
Fan type RLM Evo	Motor power kW (max.)	Mains voltage V	Mains frequency Hz	Nominal speed 1/min	Nominal moment Nm	Nominal current A	max. operating frequency Hz	max. speed 1/min	Motor size **	Poles	approx. weight ~kg
RLM E6-5663-4W-26	11.0	400 △	50	1470	—	21.0	66	1960	160 M	4	146
RLM E6-5663-4W-23	7.5	400 △	50	1465	—	14.8	62	1830	132 M	4	123
RLM E6-5663-4W-21	5.5	400 △	50	1465	—	11.4	56	1650	132 S	4	110
RLM E6-5663-4W-19	4.0	400 △	50	1460	—	8.2	50	1480	112 M	4	99
RLM E6-5663-6W-21	3.0	400 △	50	970	—	7.0	70	1360	132 S	6	101
RLM E6-5663-6W-19	2.2	400 △	50	955	—	5.6	63	1220	112 M	6	100
RLM E6-5663-BI	7.50	380...480	50/60	1800	39.8	16.2...12.8	—	1800	112	—	107
RLM E6-5663-BE	7.50	*	*	1800	39.8	15.8	—	1800	112	—	100

\* Motor connected to inverter type: Danfoss; VLT HVAC Drive FC 102; 7.5 kW.

## Performance charts

Comparison system efficiencies  $\eta_{se}$

4W (IE2)	BI (>IE3)	BE (>IE3)
67 %	68 %	68 %

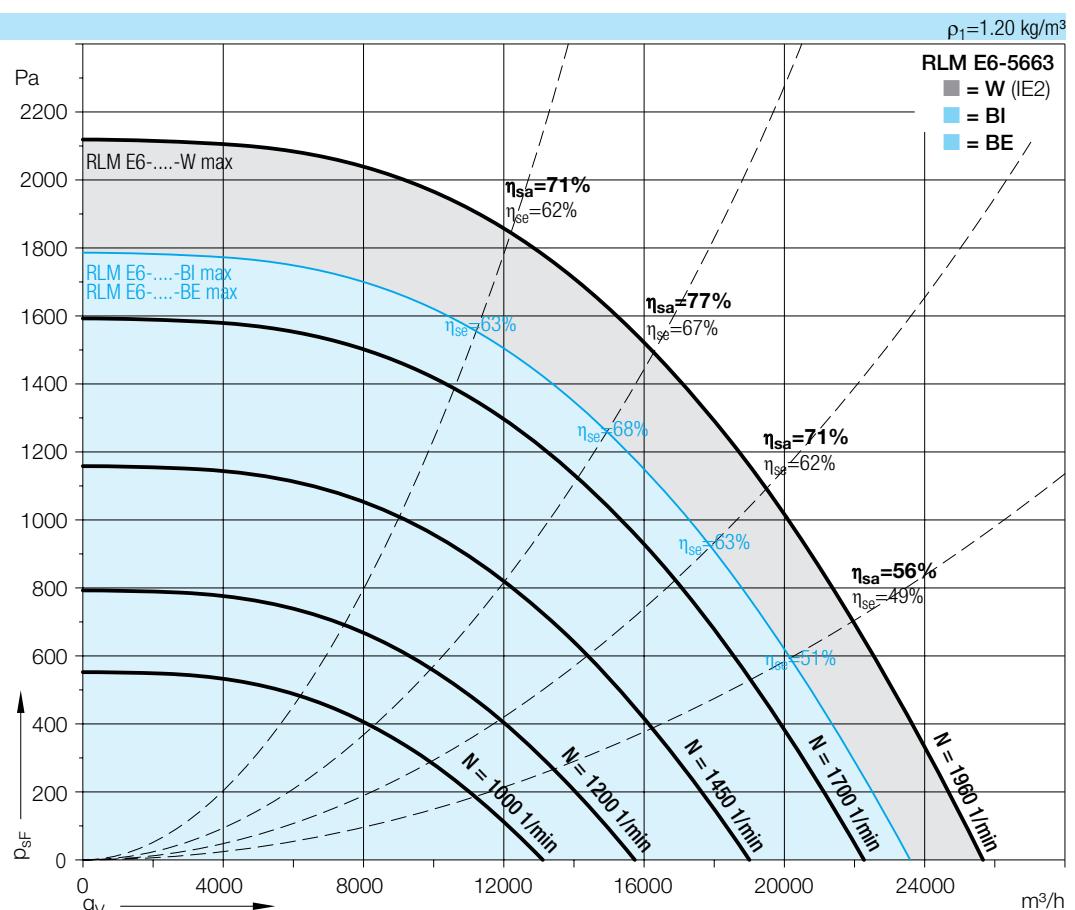


## Explanation

$\eta_{se}$  = overall static efficiency (impeller, motor, inverter)

$\eta_{sa}$  = fan shaft static efficiency

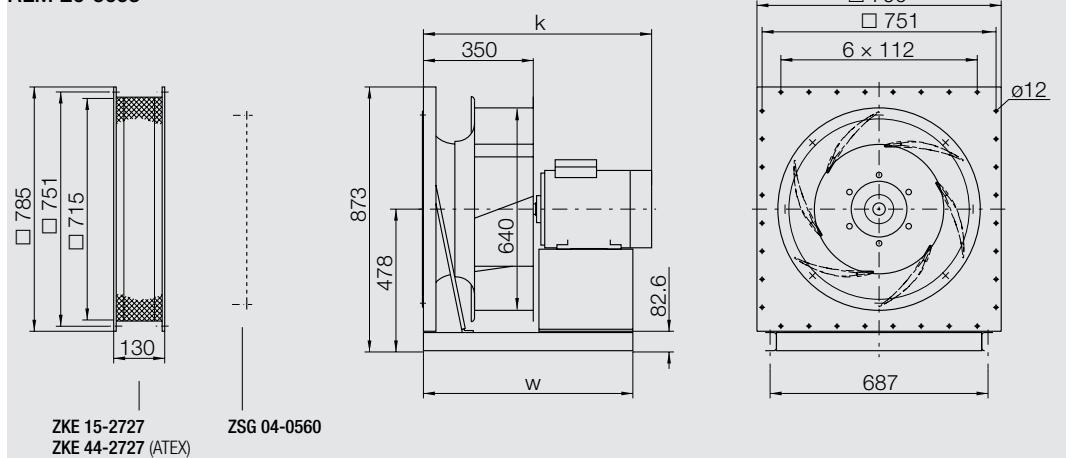
$L_{WA8}$  = A-weighted sound power level at discharge



Dimensions in mm, subject to change.

## RLM E6-5663

Motor **	$k_{max}$	w
112	729	615
132	796	649
160	891	748



## Technical Data

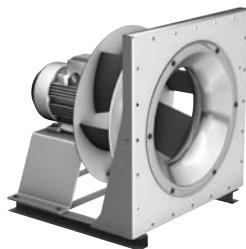
Fan type RLM Evo	Motor power kW (max.)	Mains voltage V	Mains frequency Hz	Nominal speed 1/min	Nominal moment Nm	Nominal current A	max. operating frequency Hz	max. speed 1/min	Motor size **	Poles	approx. weight ~kg
RLM E6-6371-4W-26	11.0	400 △	50	1470	—	21.0	58	1710	160 M	4	171
RLM E6-6371-4W-23	7.5	400 △	50	1465	—	14.8	51	1500	132 M	4	144
RLM E6-6371-6W-24	5.5	400 △	50	960	—	12.0	71	1370	132 M	6	150
RLM E6-6371-6W-23	4.0	400 △	50	950	—	8.4	64	1230	132 M	6	135
RLM E6-6371-6W-21	3.0	400 △	50	970	—	7.0	57	1120	132 S	6	124
RLM E6-6371-BI	11.0	380...480	50/60	1800	58.4	23.6...18.7	—	1700	112	—	135
RLM E6-6371-BE	11.0	*	*	1800	58.4	23.2	—	1700	112	—	128

\* Motor connected to inverter type: Danfoss; VLT HVAC Drive FC 102; 11 kW.

## Performance charts

Comparison system efficiencies  $\eta_{se}$ 

4W (IE2)	BI (>IE3)	BE (>IE3)
67 %	68 %	68 %

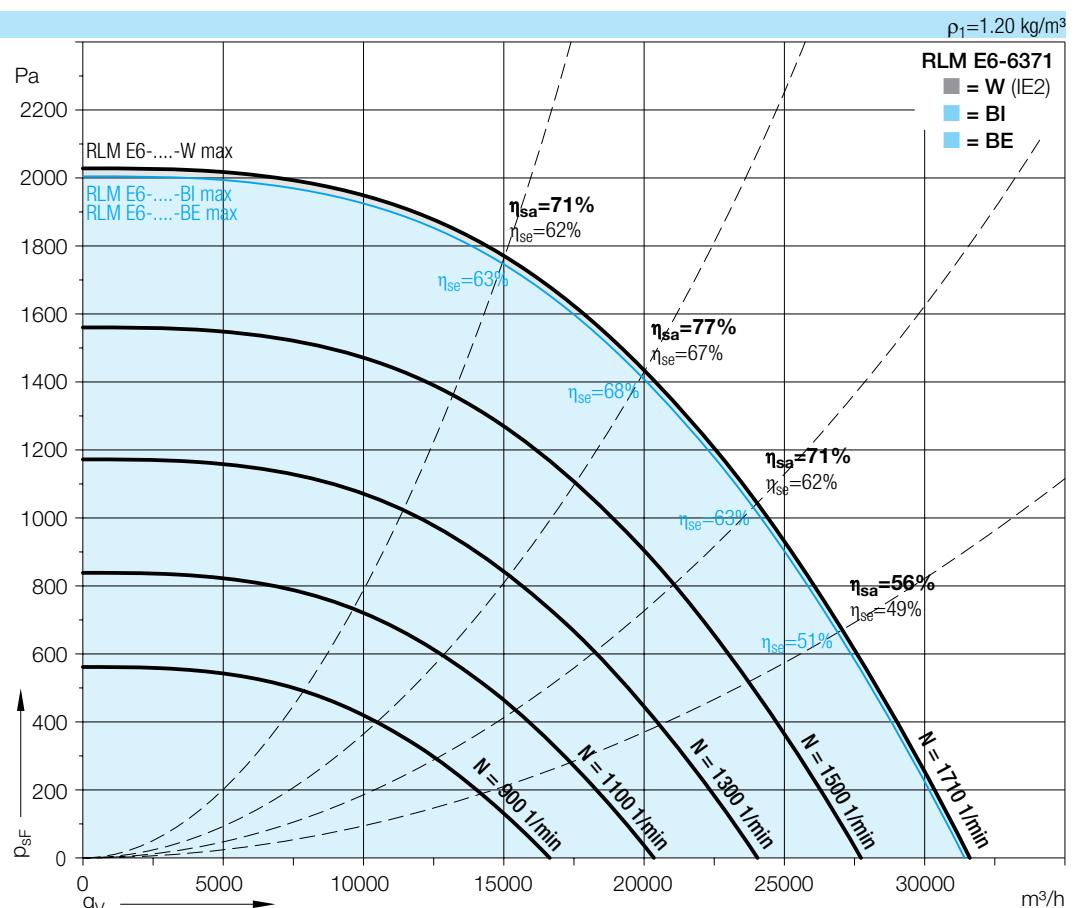


## Explanation

$\eta_{se}$  = overall static efficiency (impeller, motor, inverter)

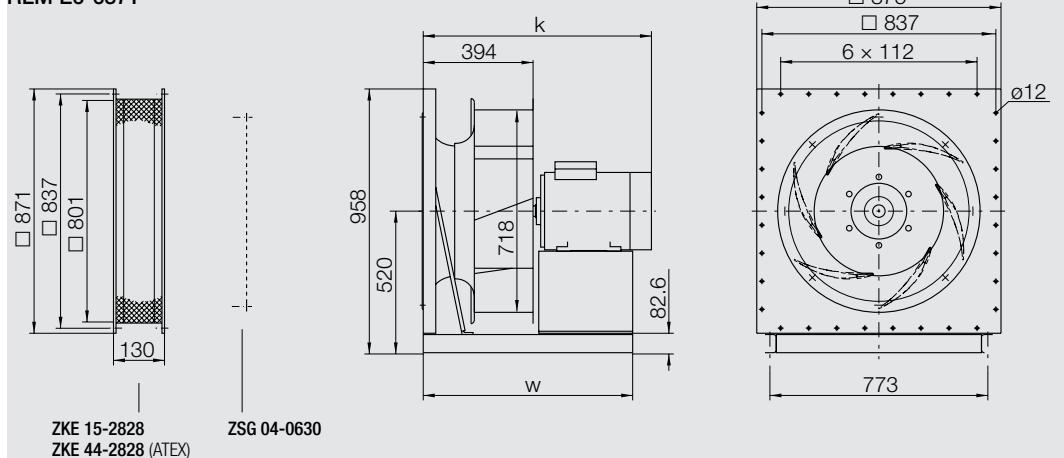
$\eta_{sa}$  = fan shaft static efficiency

$L_{WA8}$  = A-weighted sound power level at discharge



Dimensions in mm, subject to change.

RLM E6-6371



Motor **	$k_{max}$	w
132	839	692
160	934	791
180	963	845

**Specification**

EVOLUTION  
IS IN THE AIR  
RLM EVO

**Direct driven high-performance centrifugal fan RLM-Evo**

Complete assembly module with highest system efficiency, specifically developed and optimized for use without a spiral casing.

Newly developed high performance impeller with optimized shape and highest efficiency, comprising six backward curved hollow section true aerofoil blades with real turbulence profile and rounded, inclined blade leading edges, from cover disc to bearing disc, for optimal impact over the entire width of the blade.

Co-rotating radial diffuser with optimized exit curving on the cover disc to enhance efficiency.

Impeller made of high tensile sheet steel in an automated manufacturing process, robotic welding, degreased, iron phosphated and coated with a high quality epoxy-polyester mixed powder, fastened with a clamping brush to the shaft of the motor, balanced statically and dynamically according to DIN ISO 1940, specification G2.5, based on the maximum speed from size 4550.

System inlet cone made of galvanized sheet steel for optimal inflow to the impeller, equipped with flow measuring device IMV as a standard feature.

Attached internal rotor motor with efficient asynchronous technology (IE2) with 3 PTCs suitable for operation on the frequency inverter or with highly efficient permanent magnet technology (IE3/IE4), optimally coordinated with the high performance impeller.

Equipped on inlet side with connection possibility for quadratic supports.

Complete module optimally adjusted, built to a common base frame prepared for vibration decoupling.

Fan can be used with a horizontal axis!

Impeller-Performance data to tolerance class 1 according to DIN 24166.

**Variants (optional)**

- with standard internal rotor motor with asynchronous technology (IE2)
- with internal rotor motor with permanent magnet technology (IE3/IE4)
  - with integrated control unit
  - with external control unit

**■ Ex II 2G c IIB T4** design (inlet cones made of copper, safety guard on the inlet, pressure-resistant encapsulated motor)

**Fan Data**

Fan type	RLM E6-	
Volume flow	$q_V$	$\text{m}^3/\text{h}$
Fan static pressure	$p_{SF}$	Pa
Air density at inlet	$\rho_1$	$\text{kg}/\text{m}^3$
Media temperature	t	$^\circ\text{C}$
Fan power	$P_a$	kW
Efficiency	f	Hz
speed	N	1/min
Max. fan speed	$N_{\max}$	1/min
Frequency	f	Hz
Max. operating frequency	$f_{\max}$	Hz
Sound power level (A weighted)	$L_{WA}$	dB
Weight	m	kg

**Fittings / Accessories**

- Mating flange
- Inlet connection (flexible)
- Protection guard for inlet
- Anti vibration mounts (spring diffusors)
- Frequency inverter (Paket mit integriertem Filter und Bedienfeld)
- Line choke
- Universal control device
- Differential pressure sensor