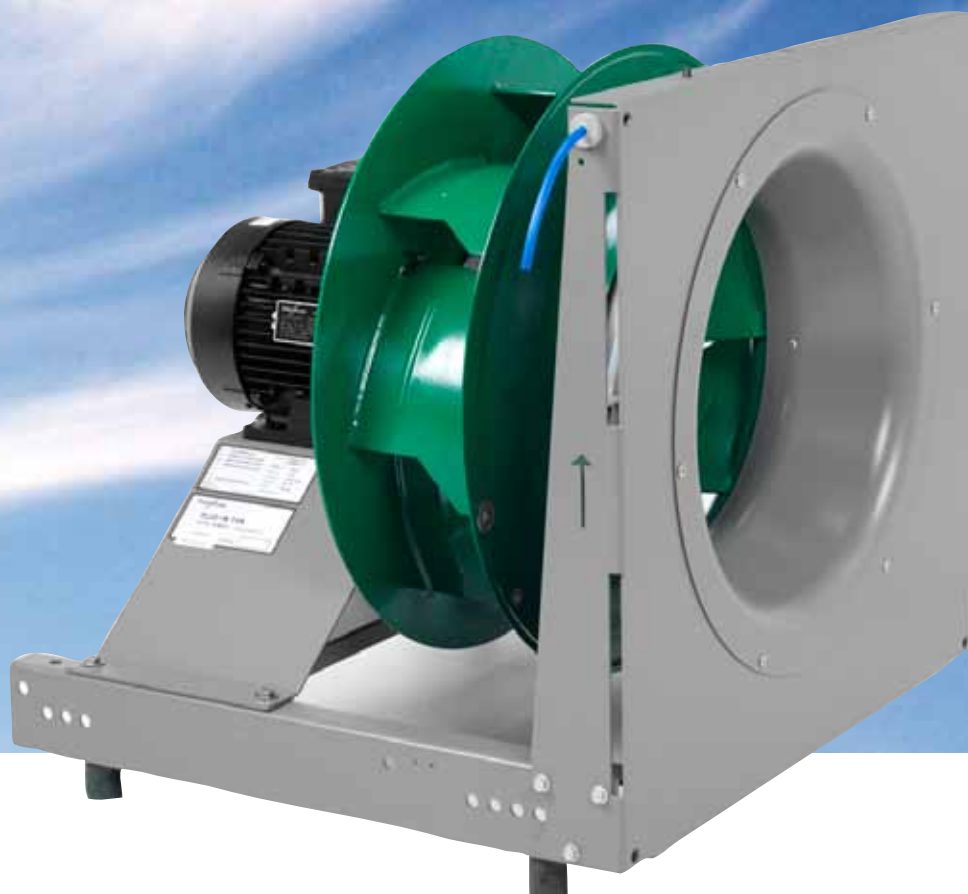


Centriflow^{Plus} PM

Plug Fan – Technical data
Freilaufender Radialventilator – Technische Daten
Kammarfläkt – Teknisk data



FläktWoods

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General description

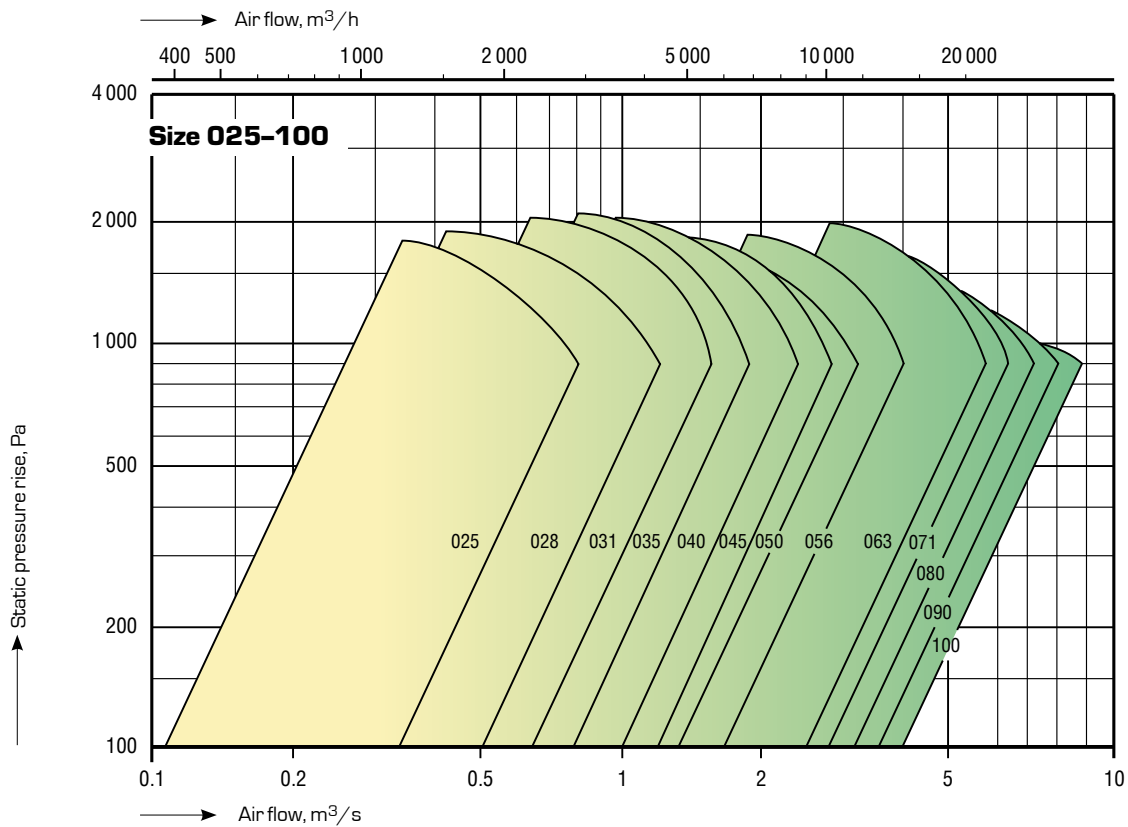


The direct driven CENTRIFLOW Plus PM plug fans with permanent magnet motor (PM-motor) are available in 13 sizes and cover airflows up to 11 m³/s and pressure rises up to 1800 Pa.

The fans are supplied with an integrated air flow sensor with two measuring points as standard. Fans are supplied in a right-hand version (viewed from the fan inlet).

General survey chart

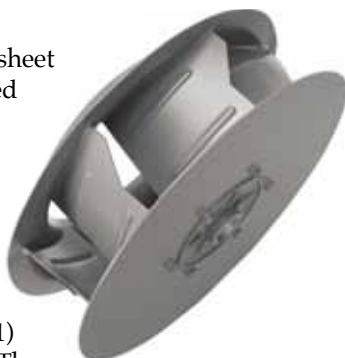
GPPM



Design description

Fan Impeller

The impeller is made of sheet steel, welded and painted with 60 µm thick epoxy powder paint, (colour: RAL 6029, green). The impellers are dynamically balanced to ISO Standard 1940 – 1973 G 2.5 (sizes 035 – 050) and G 6.3 (sizes 025 – 031) at the maximum speed. The vibration level of the fan is below 7.1 mm/s RMS.



Fan Inlet

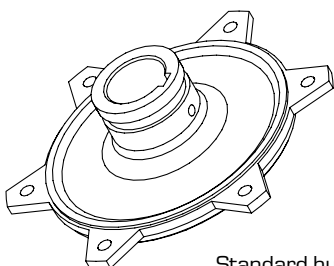
The design of the fan inlet is vitally important to the fan efficiency and the low level of sound generated by the fan. The inlet cones are deep-drawn in one piece and are fitted to the end panel. The inlet cone and end panel are made of galvanized sheet steel.

Motor base with base frame

The motor base is made of galvanized sheet steel or of welded sheet steel and painted with 60 µm thick epoxy powder paint (colour: RAL 7005, dark grey). The base frame is made of galvanized steel.

Hub

The fan impeller is equipped with a standard hub (separate for each motor size). The standard hub is made of aluminium or welded steel.



Standard hub

Air flow sensor

The air flow sensor is used for measuring the airflow of the plug fans. The method is based on differential pressure. The pressure is measured at a specific point in the inlet cone and the reference pressure is measured upstream of the inlet cone. The air flow sensor is supplied factory mounted in the inlet cone. The airflow is calculated as a function of the coefficient k and the differential manometer reading Δp_m from the expression:

$$Q_v = \frac{1}{k} \cdot \sqrt{\Delta p_m}$$

Q_v = airflow (m³/s)
 k = coefficient of the fan (k-factor)
 Δp_m = measured pressure difference (Pa)

Fan size	k-factor
Centrimaster Plus PM	
GPPM-1-00-022	68,87
GPPM-1-00-025	54,81
GPPM-1-00-028	41,27
GPPM-1-00-031	36,22
GPPM-1-00-035	29,05
GPPM-1-00-040	22,05
GPPM-1-00-045	18,21
GPPM-1-00-050	14,88
GPPM-1-00-056	11,81
GPPM-1-00-063	9,21
GPPM-1-00-071	7,28
GPPM-1-00-080	5,84
GPPM-1-00-090	4,46
GPPM-1-00-100	3,54

Directive for Machinery

CENTRIFLOW Plus PM is Partly Completed Machinery following rules of Machinery Directive 2006/42/EC, Annex II, Sub B. It is designed for mounting in an air handling unit. The air handling unit manufacturer must follow all instructions according to Directive for Machinery, EMC Directive and Low Voltage Directive as well as use all necessary protective measures.

Design description

CENTRIMETER airflow transmitter

CENTRIMETER provides a simple and accurate means of measuring a fan's airflow. The measuring device is self-calibrating and automatically sets a reference zero point and adjusts itself for changes in ambient temperature. The device allows the user to select the displayed units of measured airflow, either in m^3/s or m^3/h , or differential pressure in Pa.

Airflow is displayed on the device by means of measuring fan differential pressure and converting it to airflow from a constant "k-factor" which varies for each individual type and size. The airflow transmitter is programmed from factory with the k-factors of CENTRIFLOW Plus and CENTRIFLOW plug fans as well as CENTRIMASTER double inlet fans. The type and size of fan connected to the Centrimeter can be easily selected by using the buttons which are located beneath the removable display fascia.

CENTRIMETER also includes two 0...10V output functions, which are proportional to the actual measured airflow or pressure. CENTRIMETER is compact (86,5 x 64,5 x 37 mm) and it is suitable for ambient temperatures of 0 ... +50 °C. Degree of protection is IP54.

Permanent magnet motor

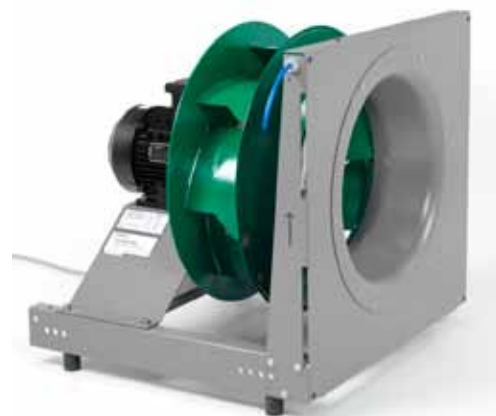
CENTRIFLOW Plus PM fans are supplied with IE4 high efficiency permanent magnet motors and a speed controller. The high efficiency is based on rare earth permanent magnets which eliminate rotor losses and therefore less magnetizing current is drawn from the power supply network. This in turn results in lower temperatures inside the motor and thereby guaranteeing a long life time for the bearings. Permanent magnet motors are based on IEC standard frame sizes but they are typically smaller than traditional AC-motors with the same nominal output.

Permanent magnet motors are designed exclusively for operation with a speed controller. The speed controller is included in the delivery scope and it has a special algorithm for permanent magnet motors. Speed controller is programmed for the given fan/motor combination. Each fan/motor/controller unit is tested at our factory before the delivery. Direct on-line connection is not possible for permanent magnet motors.

Speed controller is supplied loose and it is to be mounted nearby the fan e.g. on the side panel of the air handling unit. A screened motor cable of 3.5 m (sizes 025-050) or 4.5 m (sizes 056-100) is included in the delivery.

Specification of the permanent magnet motor

- Admissible environmental temperature: from -15 °C up to +40 °C, with altitudes 1000 m above sea level
- Mounting: IM B3
- Drive operating voltage: 400 VAC
- Insulation class: "F"; temperature rise to class B
- Degree of protection IP 54
- Reduced dimensions
- Rare earth permanent magnets



Design description

Specification of the speed controller

Parameters

Speed controller parameters are programmed at the factory providing an optimal performance of the given fan/motor combination. This includes motor para-

eters, ramp times, starting and stopping methods and speed limitations. If fixed speed operation is required, these speeds can be set in speed controller by an operation panel.

Mains supply (L1, L2, L3)	
Supply voltage	380-480 V $\pm 10\%$
Supply frequency	50/60 Hz
Max. imbalance temporary between mains phases	3.0 % of rated supply voltage
True Power Factor (λ)	≥ 0.9 nominal at rated load
Displacement Power Factor ($\cos\lambda$) near unity	(> 0.98)
Switching on input supply L1, L2, L3 (power-ups)	maximum 2 times/min.
Environment according to EN60664-1	overvoltage category III/pollution degree 2
Motor output (U, V, W)	
Output voltage	0 - 100% of supply voltage
Output frequency	0 - 200/400 Hz
Digital inputs:	
Programmable digital inputs	4
Logic	PNP or NPN
Voltage level	0 - 24 V DC
Analog inputs:	
Number of analog inputs	2
Modes	Voltage or current
Voltage level	0 to + 10
Current level	0/4 to 20 mA
Analog output:	
Number of programmable analog outputs	2
Current range at analog output	0/4 - 20 mA
Digital output:	
Programmable digital	2
Voltage level at digital	0 - 17 V
Control card, 24 V DC output:	
Max. load	80 mA
Relay outputs:	
Programmable relay outputs	2
Max. terminal load (AC-1)1) on 1-3 (NC), 1-2 (NO) (Resistive load)	250 V AC, 3 A
Control card, 10 V DC output:	
Output voltage	10.5 V ± 0.5 V
Surroundings:	
Enclosure	IP 54
Vibration test	1.0 g
Max. relative humidity	5% - 95%(non-condensing) during operation
Ambient temperature	Max. 40 °C
Minimum ambient temperature during full-scale operation	0 °C
Fieldbus communication:	
Modbus RTU	Built-in
Physical layer	RS-485

Design description

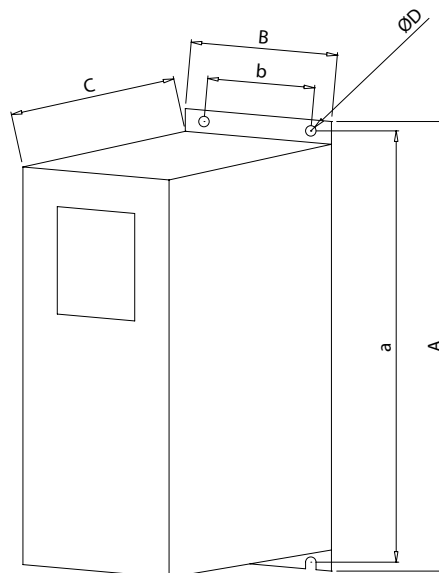
Cabling

Speed controller is delivered with 3,5 m or 4,5 m long screened motor cable.

Please note:

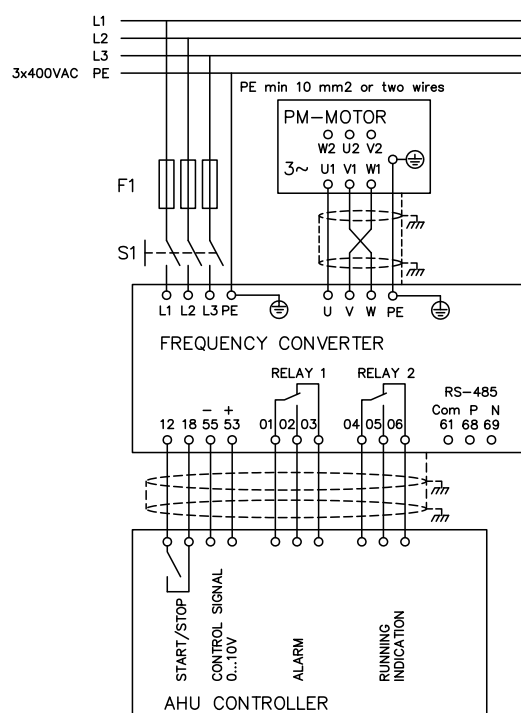
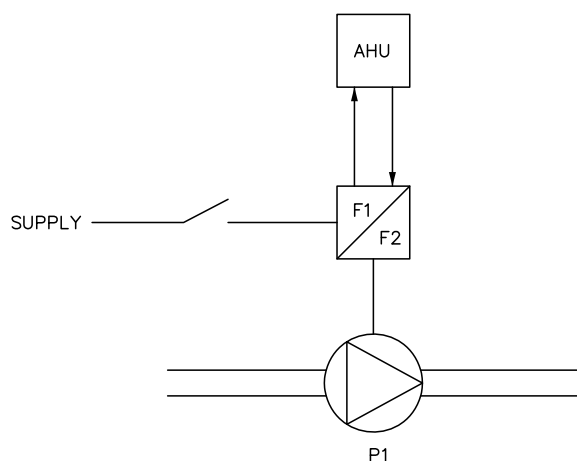
1. If the speed controller is disconnected from the motor cable please remember to ground the shield 360° C when rewiring.
2. If the motor cable needs to be replaced by a longer one the new cable must be of screened type. Please remember to ground the shield 360° when rewiring.
3. Motor cable should be no longer than 20 m.

Speed controller dimensions



Dimensions						
	Height (mm)		Width (mm)		Depth (mm)	Hole (mm)
kW	A	a	B	b	C	D
0,75...4	333	320	115	74	225	5
5,5...7,5	368	355	135	89	237	7
11...18,5	476	460	180	133	290	7

Wiring diagram



Tolerances and quality

Tolerances

The particulars of the fans are given with the tolerance specified in DIN 24 166, Class 1. The fan curves have been plotted for the max. permissible speed of rotation (with speed controller) for each motor size.

DIN 24166	Tolerance class		
	1	2	3
Air flow q_v :	±2,5%	±5,0%	±10,0%
Pressure rise, Δp_t :	±2,5%	±5,0%	±10,0%
Shaft power demand *, P:	+3,0%	+8,0%	+16,0%
Efficiency **, η :	-2,0%	-5,0%	-
A-weighted sound power level *, L_{WA} :	+3 dB	+4 dB	+6 dB

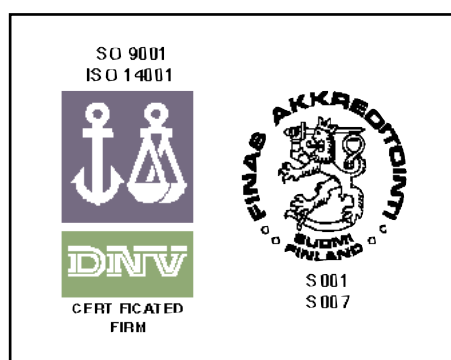
* Negative tolerance permissible

** Positive tolerance permissible

Fan performance has been measured in accordance with ISO 5801 and 13347-2.

Quality to ISO 9001 and ISO 14001

The production process at Fläkt Woods Oy is certified to ISO 9001 and the responsibility for quality control is documented in every phase from product development to production, procurement and sales. Our environmental protection system is certified to ISO 14001. Our ambition is to minimize the impact of our business operations and our products on the environment.



ErP Regulation

The ErP Regulation sets out minimum efficiency grades for fans. This efficiency grade is based on electrical power from mains and therefore encompasses the fan efficiency, the motor efficiency and the drive efficiency. The Regulation requires certain data to be shown for fans in the technical catalogues.

The first tier is valid from January 01,2013 and the second January 01,2015.

Data according to ErP directive established at point of optimum efficiency:

Installation category	A
Efficiency category	Static
Variable speed drive	Yes

Overall efficiency η_{es}	Efficiency grade	Power input P_{ed}	Air flow Q_v	Pressure p_{sf}	Speed
%	N	kW	m ³ /s	Pa	r/min
56,1	76	0,5	0,36	790	3950

Installation category: which installation category is used in tests

Efficiency category: based on static pressure or total pressure

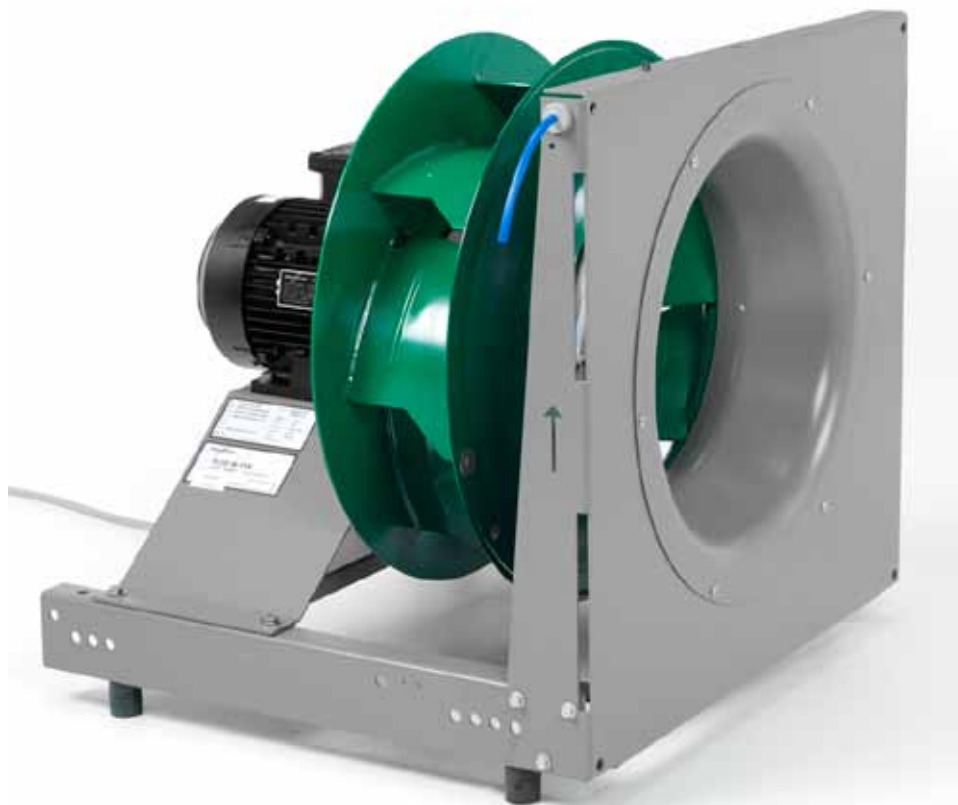
Variable speed drive: information if VSD is included or not

Overall efficiency: efficiency including fan, motor and drive components

Efficiency grade: calculated efficiency grade

Power, air flow, pressure and speed at the optimum efficiency point

Specification text – GPPM



CENTRIFLOW PLUS PM

Direct driven plug fan supplied as a complete fan unit with IEC standard, foot-mounted permanent magnet motor mounted on a stable base frame, and a speed controller. Fan impeller with backward curved blades, made of sheet steel, welded and painted with a 60 μm thick coat of epoxy powder. The impellers are dynamically balanced to an accuracy in accordance with ISO 1940 – 1973 G 2.5 (sizes 035 – 100) or G 6.3 (sizes 025 – 031) at the maximum speed. The fan is supplied with built in air flow sensor for air flow measurement.

Speed controller parameters are programmed at the factory providing an optimal performance of the given fan/motor combination. This includes motor parameters, ramp times, starting and stopping methods and speed limitations. If fixed speed operation is required, these speeds can be set in speed controller by an operation panel.

Fan performance has been measured in accordance with ISO 5801 and 13347-2.

Fan particulars for the GPPM to DIN 24166, Class 2

Manufacturer's quality system is certificated to ISO 9001 and our environmental protection system is certificated to ISO 14001.

Airflow, q_v	m^3/s
Static pressure rise, p_t	Pa
Control electrical input power, P_{ed}	kW
Overall efficiency drive, η_{es}	%
Max. A-weighted sound power level, L_{WA}	dB

All presented acoustic data is specified **without** removing the blade frequency.

Fan chart – explanation

Symbols used in the fan chart

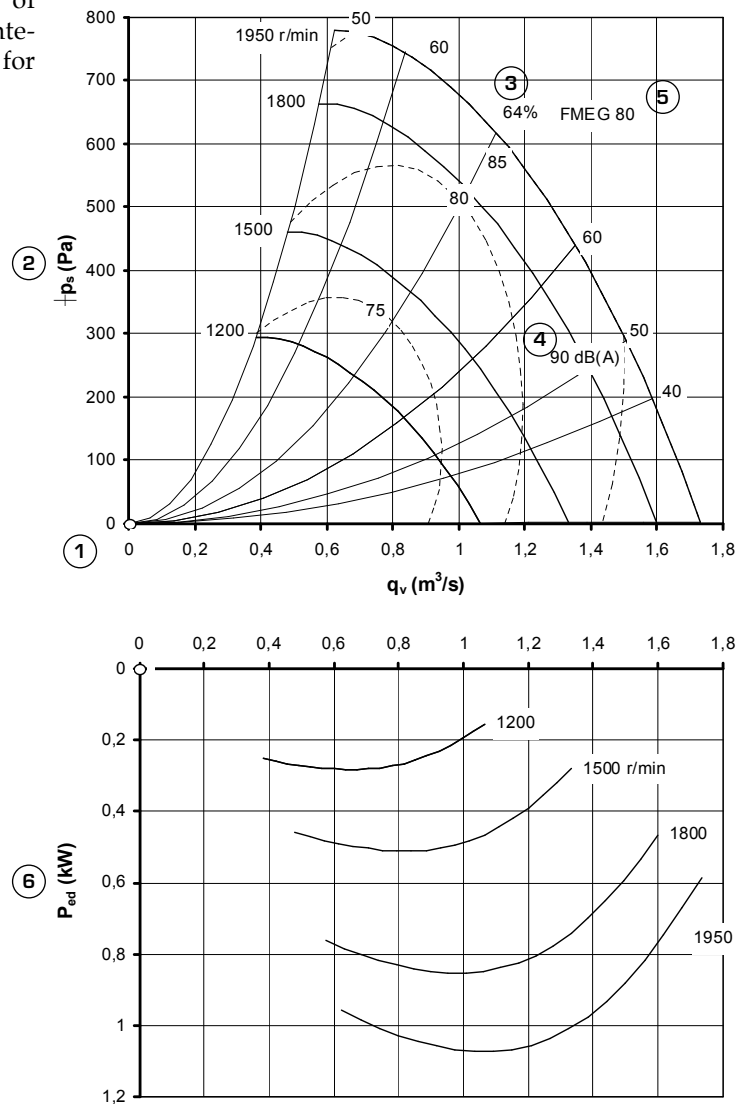
The fan chart is applicable to air with a density of $1,2 \text{ kg/m}^3$ and with a frequency converter or an integral motor. Direct on-line connection is not possible for permanent magnet motors.

- ① = Airflow, m^3/s (longitudinal axis)
- ② = Static pressure rise, Pa (vertical axis)
- ③ = Overall efficiency drive
- ④ = Total sound power level LWA (dB), broken line
- ⑤ = Fan Motor Efficiency Grade
- ⑥ = Power from mains

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes

GPPM-1-00-040 PM_1,8 kW



Acoustic Details - explanation

Acoustic Details

The total A-weighted sound power level L_{WA} generated at the outlet of an open discharge fan is specified in the fan chart. Correction factors are tabulated in the table below. The following expression can be used for breaking down the sound into each octave band and sound path:

$$L_{Wokt(s)} = L_{WA} + K_{okt(s)}$$

where $K_{okt(s)}$ can be obtained from the table. The following expression can be used for calculating the A-weighted sound power level at the fan inlet:

$$L_{WA(2)} = L_{WA} + \Delta L$$

where the correction factor ΔL can be obtained from the table.

Acoustic Details - Table

Fan size		Correction K _{okt} , dB								ΔL
Sound path [s]	Fan speed range r/min	Octave band, centre frequency, Hz								
		63	125	250	500	1000	2000	4000	8000	
To the outlet s = 1	0 - 766	-4	-4	-2	0	-6	-12	-17	-18	0
	767 - 1533	-16	2	-1	-1	-5	-12	-15	-17	0
	1534 - 2140	-20	-11	0	-1	-4	-13	-18	-20	0
To the inlet s = 2	0 - 766	-3	-6	-3	-9	-14	-20	-22	-28	-6,9
	767 - 1533	-12	-2	-5	-9	-10	-18	-20	-23	-5,9
	1534 - 2140	-25	-14	1	-10	-11	-19	-23	-25	-5,1

Symbols used

L_{WA}	A-weighted total sound power	dB(A)
s	Sound path	-
$L_{WA(2)}$	A-weighted total sound power level to inlet	dB(A)
$L_{Wokt(s)}$	Sound power level at each octave band and sound path (without A-weighting)	dB
$K_{okt(s)}$	Correction factor for breaking down the sound level into each octave band and sound path	dB

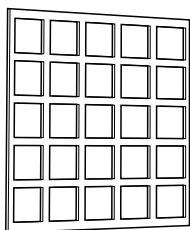
Accessories

**Airflow sensor with
four measuring points**

GPEZ-09-00-ccc-1-0

Protective screen, inlet
The pressure loss across the
protective screen is $1.3 \times p_d$.

GPEZ-13-00-ccc-d-0



**Anti-vibration mountings
Rubber**

GPEZ-42-00-ccc-d-0

For particulars of the part designations and dimensions see the motor table on the relevant page of the catalogue.



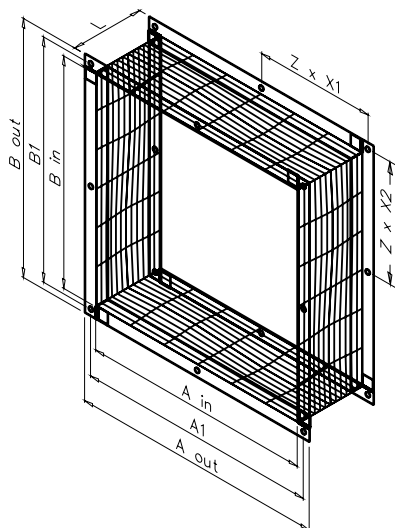
**Anti-vibration mountings
Steel spring**

GPEZ-43-00-ccc-d-0

For particulars of the part designations and dimensions see the motor table on the relevant page of the catalogue.

Flexible connections, inlet

GPEZ-21-00-ccc-d-0



Size	A out	A in	B out	B in	A1	B1	L	Z	X1	X2
022	315	261	300	241	285	270	115	1	285	270
025	330	276	330	276	300	300	115	1	300	300
028	400	346	400	346	370	370	115	1	370	370
031	400	346	400	346	370	370	115	1	370	370
035	500	446	480	426	470	450	115	1	470	450
040	500	446	500	446	470	470	115	1	470	470
045	630	570	580	520	600	550	115	2	300	275
050	630	570	630	570	600	600	115	2	300	300
056	750	690	750	690	720	720	115	2	360	360
063	750	690	750	690	720	720	115	2	360	360
071	850	890	850	790	920	820	115	3	307	273
080	950	890	950	890	920	920	115	3	307	307
090	1180	1120	1180	1120	1150	1150	115	4	287,5	287,5
100	1180	1120	1180	1120	1150	1150	115	4	287,5	287,5

Accessories

Painted finish exterior and interior

GPEZ-60-00-ccc-d-0

d = 1 Epoxy powder painted finish, 60 μm , colour:
RAL 7005, dark grey

d = 2 Epoxy powder painted finish, 100 μm , colour:
RAL 7005, dark grey

d = 3 Wet painted finish, painted in 3 coats, 250 μm ,
colour: RAL 7005, dark grey

d = 1 Powder painted, 60 μm

The fan (impeller, end panel, inlet cone, motor base and base frame) is painted with a 60 μm thick coat of epoxy powder. Colour: RAL 7005, dark grey, impeller RAL 6029 green. All the bolts are made of stainless steel.

Painting process:

- alkaline degreasing
- iron phosphatising
- flushing with hot water, water temperature: 40 °C
- drying at 150 °C
- powder painting, 60 μm , in one coat
- drying at approx. 215 °C

Note! Welded base frames are hot - dip galvanized (see page 6) and they are not painted even if the fan is supplied with GPEZ-60 painting.

An epoxy powder finish is well suited for items that are subjected to mechanical strain. This type of finish also provides good protection against rust, alkalis, fats and solvents.

d = 2 Powder painted, 100 μm

The fan (impeller, end panel, inlet cone, motor base and base frame) are painted with a 100 μm thick coat of epoxy powder. Colour: RAL 7005, dark grey, impeller RAL 6029 green. All the bolts are made of stainless steel. Painting process and epoxy powder just like version d = 1, but the paint thickness is 100 μm in one coat.

d = 3 Wet painted, 250 μm , in 3 coats

The fan (end panel, inlet cone, motor base and base frame) are painted with 3 coats of epoxy; total thickness: 250 μm . Colour: RAL 7005, dark grey. The fan impeller is painted with a 100 μm thick coat of epoxy powder, Colour: RAL 6029, green. All the bolts are made of stainless steel.

Ordering code

Plug fan

GPPM-a-00-ccc-dd-0

GPPM = high-efficiency plug fan

Version **(a)**

a = 1 standard version with IEC foot mounted motor and standard hub

Fan size **(ccc)**

025, 028, 031, 035, 040, 045, 050

Motor size IEC **(dd)**

06 = 71 but with special shaft size

09 = 90

Permanent magnet motor

APPM-aa-bbbb-cd-ee

First 2 digits of motor

nominal speed **(aa)**

e.g. 30 refers to speed 3000 rpm and 18 to 1800 rpm

Power **(bbbb)**

0037 = 0,37 kW etc. Note! Only 4 digits

Voltage **(c)**

Single-speed motor

3 = 400 V

Protection **(d)**

0 = no protection, standard

Supplier **(e)**

0 = Fläkt Woods approved motor

Version **(other e)**

Separate motor and drive

2 = frequency converter IP54

Ordering code

Accessories GPEZ-aa-00-ccc-d-0

(aa) Type of accessory

(ccc) fan size

(d) 1 = supplied with fan, mounted
0 = supplied loose

Airflow sensor with four measuring points GPEZ-09-00-ccc-1-0

Fan size (ccc) _____

Protective screen, inlet GPEZ-13-00-ccc-d-0

Fan size (ccc) _____

Flexible connection, inlet GPEZ-21-00-ccc-d-0

Fan size (ccc) _____

Anti-vibration mountings, rubber GPEZ-42-00-ccc-d-0

Fan size (ccc) _____
only sizes 022-100

Version (d) _____
see motor table for relevant fan

Anti-vibration mountings, steel spring GPEZ-43-00-ccc-d-0

Fan size (ccc) _____

Version (d) _____
see motor table for relevant fan

Painting GPEZ-60-00-ccc-d-0

Fan size (ccc) _____

Version (d) _____

d = 1 Epoxy –powder painting, 60 µm,
colour RAL 7005, dark grey,
impeller RAL 6029 green

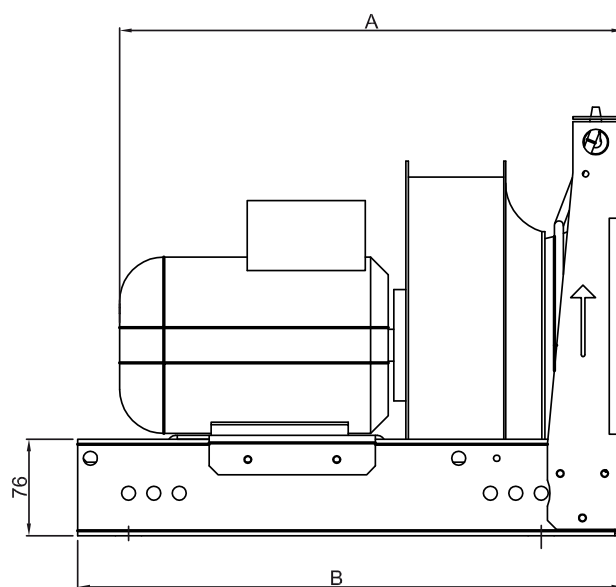
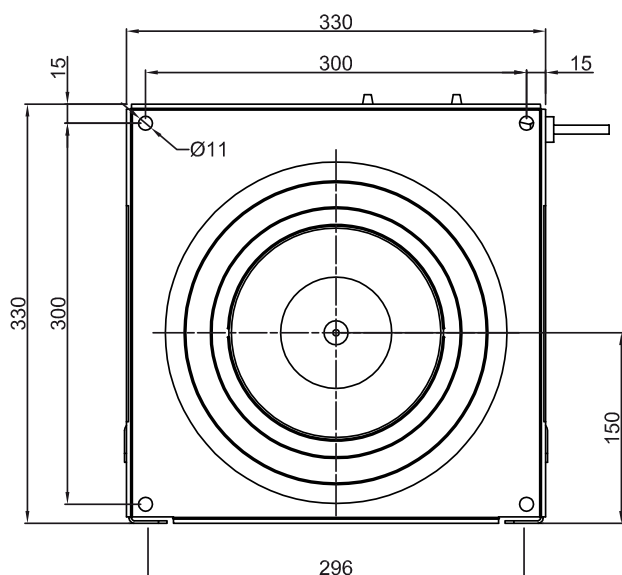
d = 2 Epoxy –powder painting 100 µm,
colour RAL 7005, dark grey,
impeller RAL 6029 green

d = 3 Epoxy wet painted in 3 coats, 250 µm,
colour RAL 7005, dark grey,
impeller RAL 6029 green

CENTRIMETER airflow transmitter GTLZ-86-00-0-0

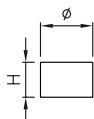
Technical Data – GPPM-1-00-025

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



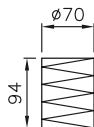
IEC	Motor A	B	C	GPEZ-43			
				GPEZ-42 ø	H	Front Vorne Framför	Back Hintern Bakom
71	397	430	245	30	36	SD1	SD1

GPEZ-42

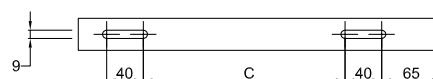


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

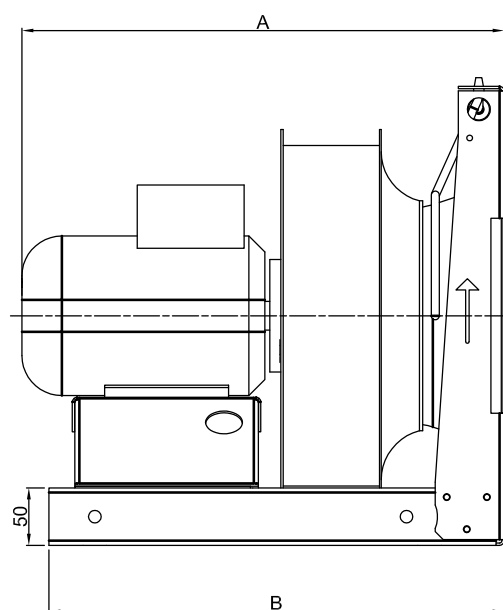
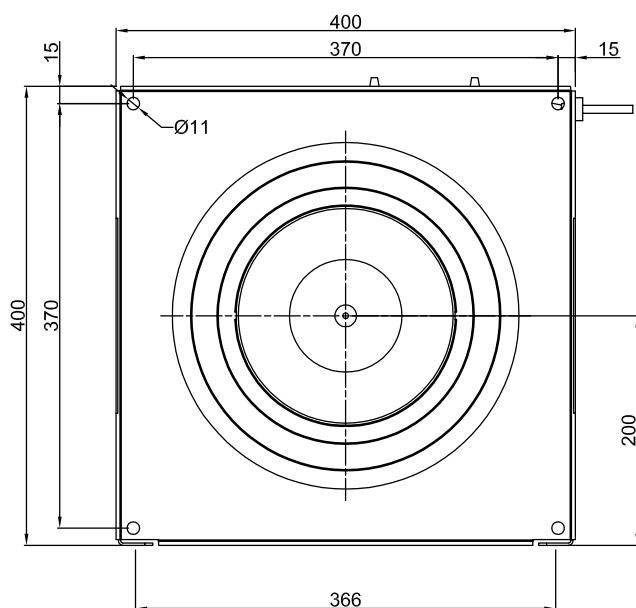


Motor: GPPM-1-00-025

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-025-06-0	APPM-30-0080-30-02	0,8	1,6	71	3700	9,8	4,8
GPPM-1-00-025-06-0	APPM-45-0150-30-02	1,5	3,1	71	4650	9,8	5,4

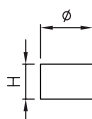
Technical Data – GPPM-1-00-028

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



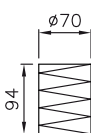
IEC	Motor A	B	C	GPEZ-43			
				GPEZ-42 ø	H	Front Vorne Framför	Back Hintern Bakom
71	420	397	212	30	36	SD1	SD1

GPEZ-42

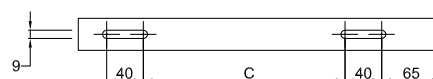


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

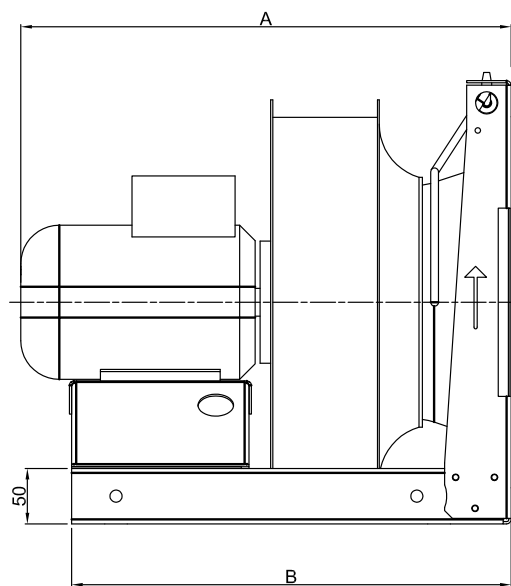
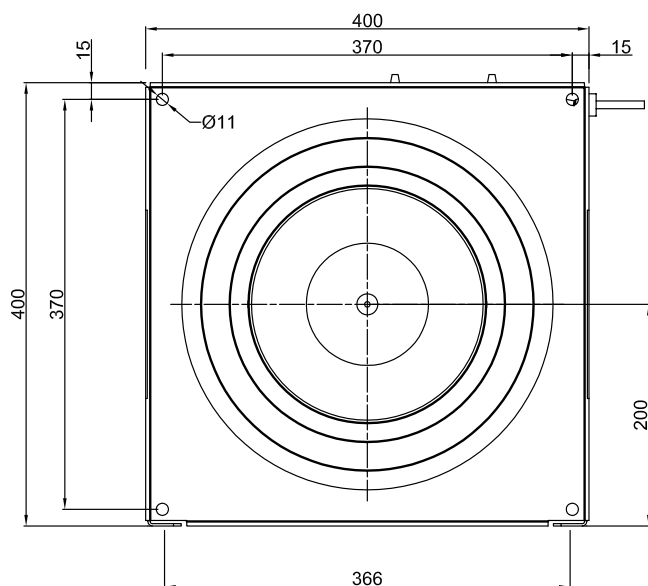


Motor: GPPM-1-00-028

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-028-06-0	APPM-30-0080-30-02	0,8	1,6	71	3150	10,4	4,8
GPPM-1-00-028-06-0	APPM-45-0220-30-02	2,2	4,5	71	4500	10,4	6

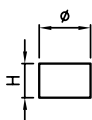
Technical Data – GPPM-1-00-031

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



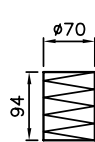
IEC	Motor A	B	C	GPEZ-42 ø	GPEZ-43 H	GPEZ-43	
						Front Vorne Framför	Back Hintern Bakom
71	443	397	212	30	36	SD1	SD1

GPEZ-42

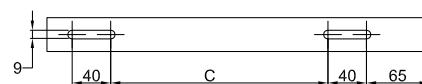


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

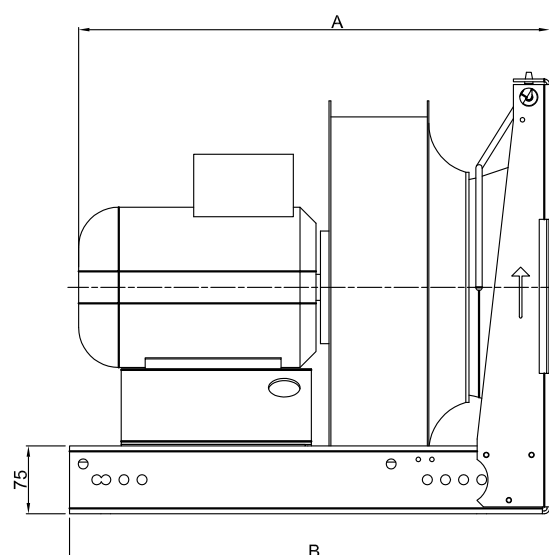
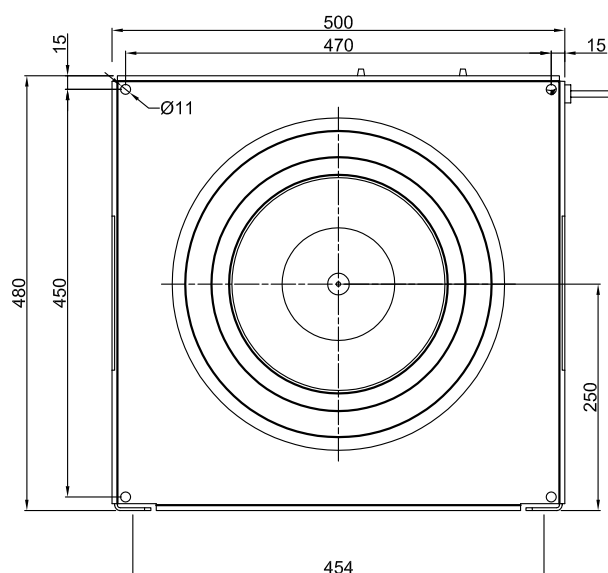


Motor: GPPM-1-00-031

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-031-06-0	APPM-30-0110-30-02	1,1	2,4	71	3000	11,3	5,4
GPPM-1-00-031-06-0	APPM-36-0180-30-02	1,8	3,7	71	3340	11,3	6
GPPM-1-00-031-06-0	APPM-45-0300-30-02	3	6,2	71	4000	11,3	6,6

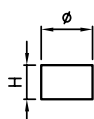
Technical Data – GPPM-1-00-035

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



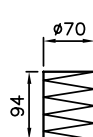
IEC	Motor A	B	C	GPEZ-42		GPEZ-43	
				Ø	H	Front Vorne Framför	Back Hintern Bakom
71	469	454	259	30	36	SD1	SD1
90	520	530	335	30	36	SD1	SD1

GPEZ-42



GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

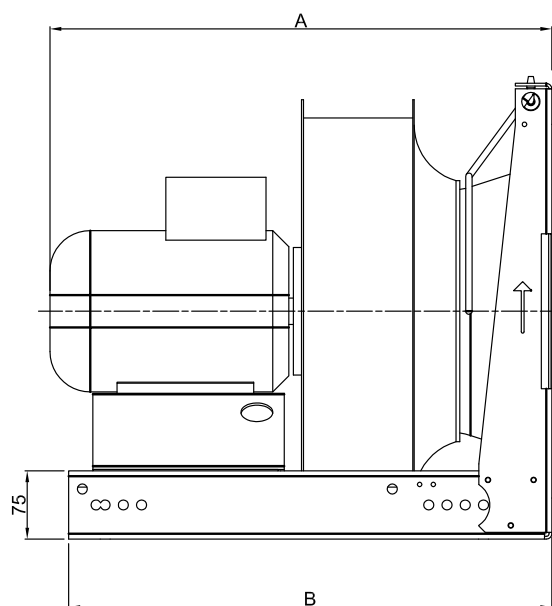
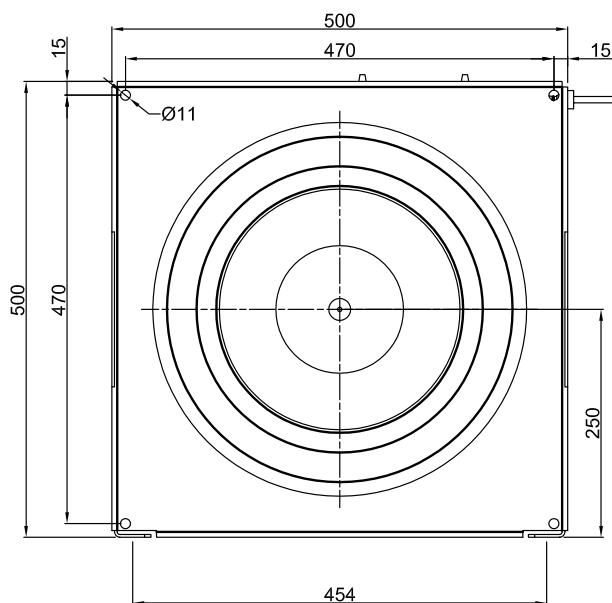


Motor: GPPM-1-00-035

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Größe Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-035-06-0	APPM-30-0110-30-02	1,1	2,4	71	2200	18,8	5,4
GPPM-1-00-035-06-0	APPM-30-0220-30-02	2,2	4,4	71	2970	18,8	6,6
GPPM-1-00-035-09-0	APPM-36-0360-30-02	3,6	8	90	3570	19,4	12

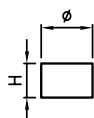
Technical Data – GPPM-1-00-040

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



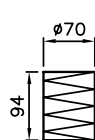
IEC	Motor A	B	C	GPEZ-42		GPEZ-43	
				ø	H	Front Vorne Framför	Back Hintern Bakom
71	500	454	259	30	36	SD2	SD2
90	551	530	335	30	36	SD2	SD2

GPEZ-42

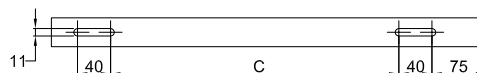


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

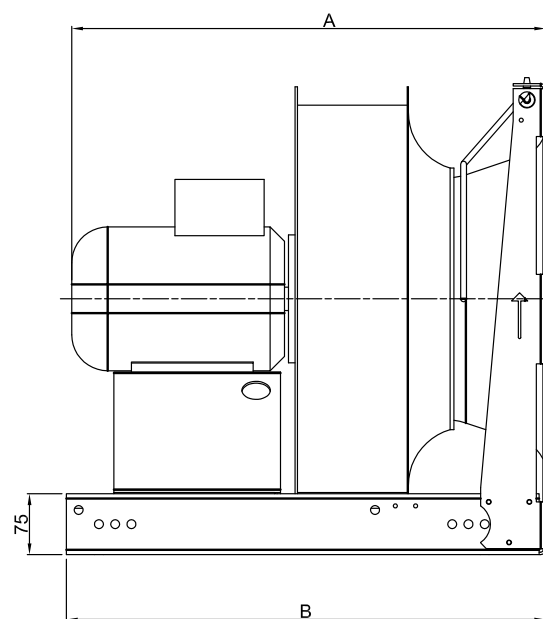
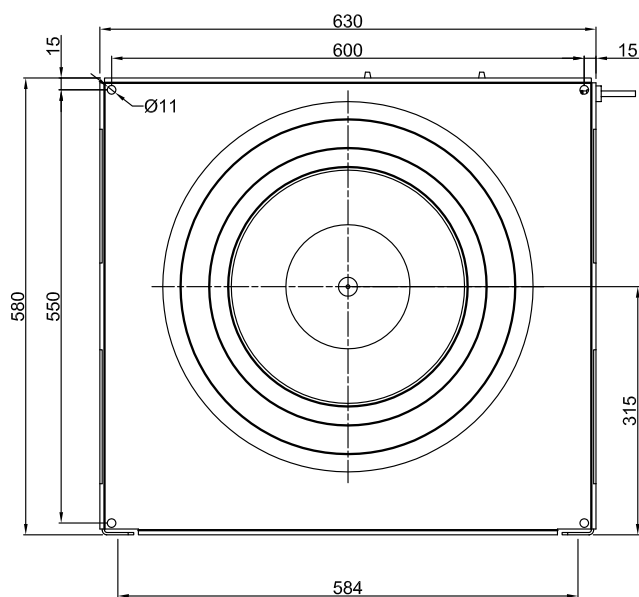


Motor: GPPM-1-00-040

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-040-06-0	APPM-18-0180-30-02	1,8	3,6	71	1950	19	6,6
GPPM-1-00-040-09-0	APPM-36-0360-30-02	3,6	8	90	2750	20,6	12
GPPM-1-00-040-09-0	APPM-30-0400-30-02	4	8,1	90	3100	20,6	14

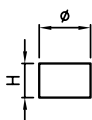
Technical Data – GPPM-1-00-045

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



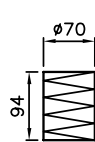
IEC	Motor A	B	C	GPEZ-42		GPEZ-43	
				Ø	H	Front Vorne Framför	Back Hintern Bakom
71	533	525	330	30	36	SD2	SD1
90	584	590	395	30	36	SD3	SD2

GPEZ-42

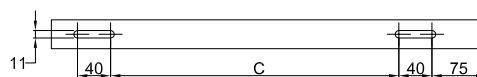


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

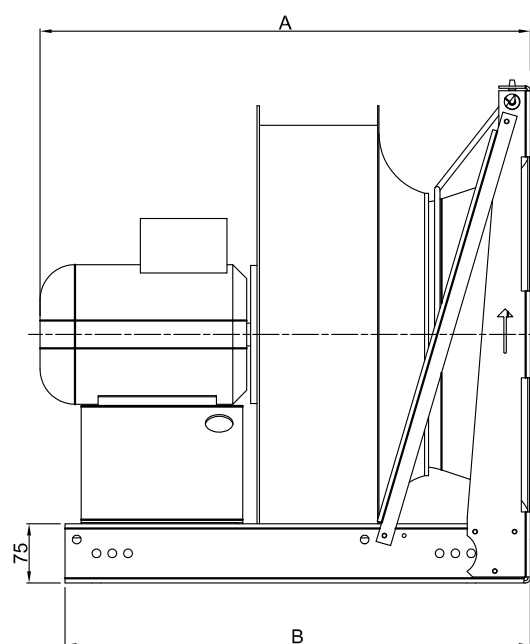
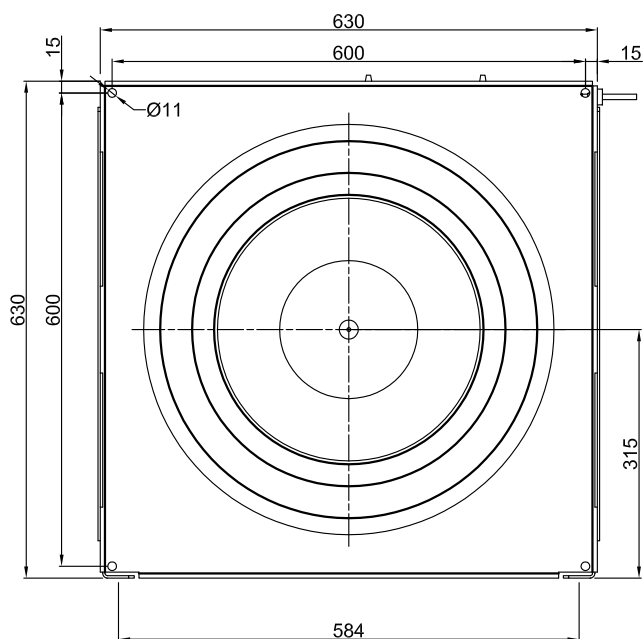


Motor: GPPM-1-00-045

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-045-06-0	APPM-18-0180-30-02	1,8	3,6	71	1950	28,2	6,6
GPPM-1-00-045-09-0	APPM-30-0400-30-02	4	9,1	90	2300	29,2	14
GPPM-1-00-045-09-0	APPM-30-0550-30-02	5,5	13	90	2600	29,8	16

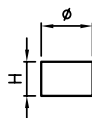
Technical Data – GPPM-1-00-050

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



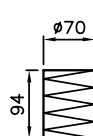
IEC	Motor A	B	C	GPEZ-43			
				GPEZ-42 ø	H	Front Vorne Framför	Back Hintern Bakom
90	622	590	395	30	36	SD3	SD3
112	683	670	475	30	36	SD3	SD3

GPEZ-42



GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

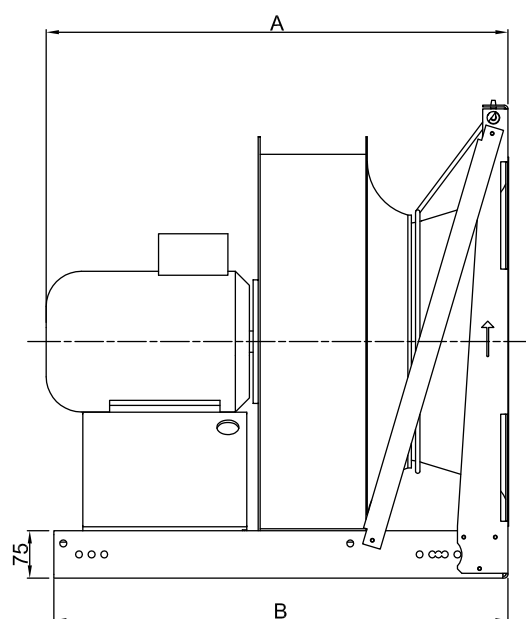
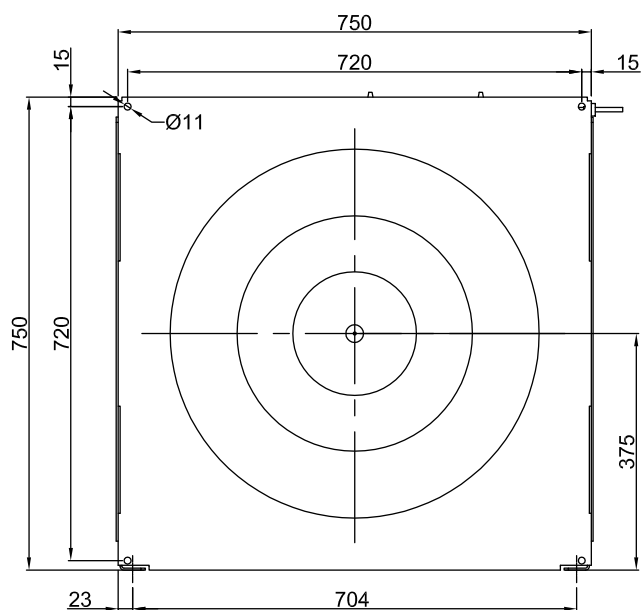


Motor: GPPM-1-00-050

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-050-09-0	APPM-17-0220-30-02	2,2	5	90	1700	32,6	12
GPPM-1-00-050-09-0	APPM-18-0360-30-02	3,6	7,5	90	2000	32,6	16
GPPM-1-00-050-09-0	APPM-18-0480-30-02	4,8	10,2	90	2200	32,6	20,5
GPPM-1-00-050-11-0	APPM-26-0750-30-02	7,5	14,9	112	2550	33,7	27

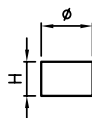
Technical Data – GPPM-1-00-056

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



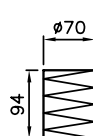
IEC	Motor A	B	C	GPEZ-43			
				GPEZ-42 ø	H	Front Vorne Framför	Back Hintern Bakom
90	671	690	490	30	36	SD3	SD3
112	732	720	520	30	36	SD4	SD4

GPEZ-42

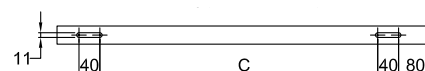


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

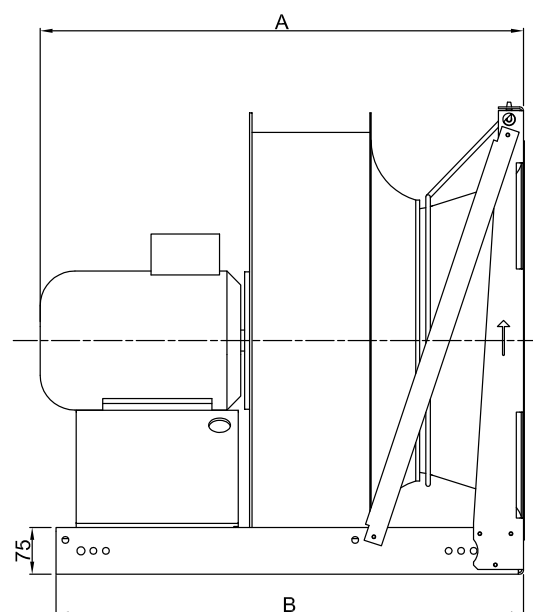
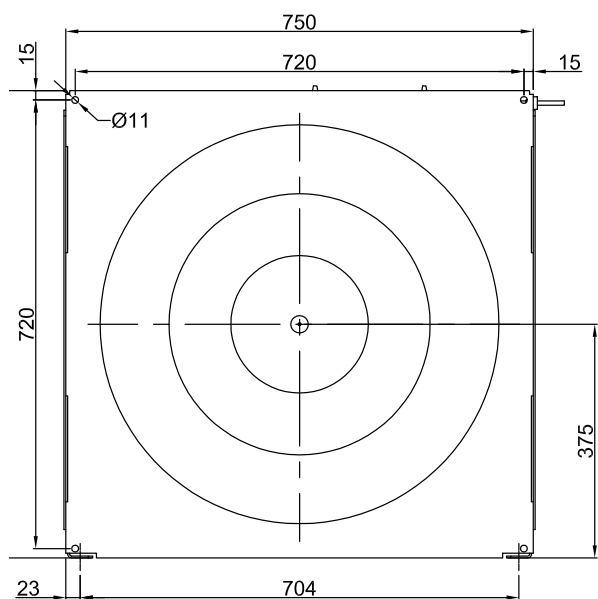


Motor: GPPM-1-00-056

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-056-09-0	APPM-14-0220-30-02	2,2	5,2	90	1390	42	12
GPPM-1-00-056-09-0	APPM-17-0400-30-02	4	9,7	90	1700	42	17
GPPM-1-00-056-11-0	APPM-21-0750-30-02	7,5	14,6	112	2050	51,6	30

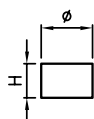
Technical Data – GPPM-1-00-063

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



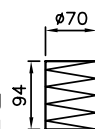
IEC	Motor A	B	C	GPEZ-42		GPEZ-43	
				Ø	H	Front Vorne Framför	Back Hintern Bakom
90	715	740	540	30	36	SD4	SD4
112	776	750	550	30	36	SD5	SD5
112 (11kW)	776	750	550	50	48	SD5	SD5

GPEZ-42

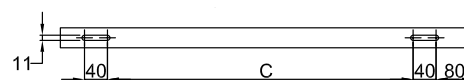


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

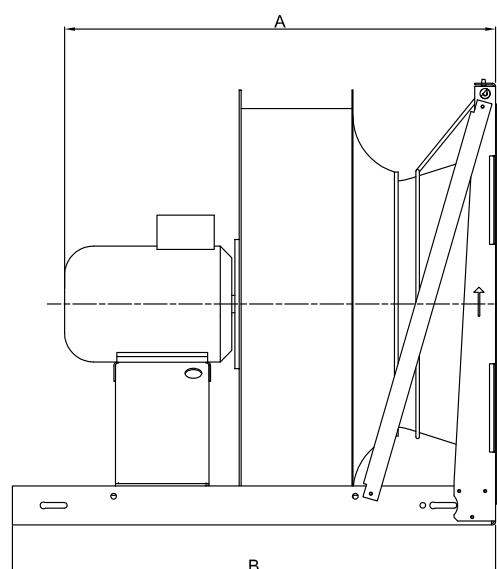
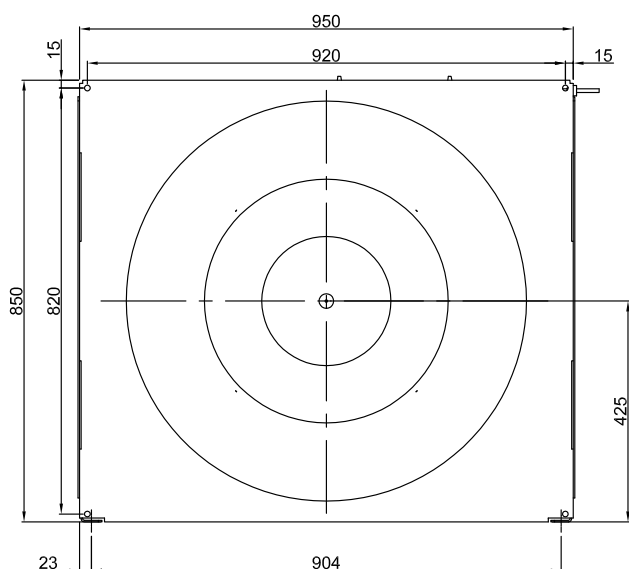


Motor: GPPM-1-00-063

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Größe Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-063-09-0	APPM-11-0220-30-02	2,2	6	90	1100	60,5	14
GPPM-1-00-063-11-0	APPM-16-0550-30-02	5,5	11,2	112	1550	64,6	27
GPPM-1-00-063-11-0	APPM-20-1100-30-02	11	20,2	112	2000	64,6	30

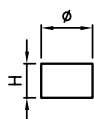
Technical Data – GPPM-1-00-071

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



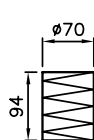
IEC	Motor A	B	C	GPEZ-42		GPEZ-43	
				ø	H	Front Vorne Framför	Back Hintern Bakom
90	769	930	730	50/48A	30/36A	SD5	SD4
112	830	930	730	50/48A	30/36A	SD5	SD4
112 (11 kW)	830	930	730	50/48A	50/48A	SD5	SD4

GPEZ-42

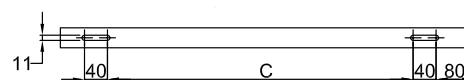


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

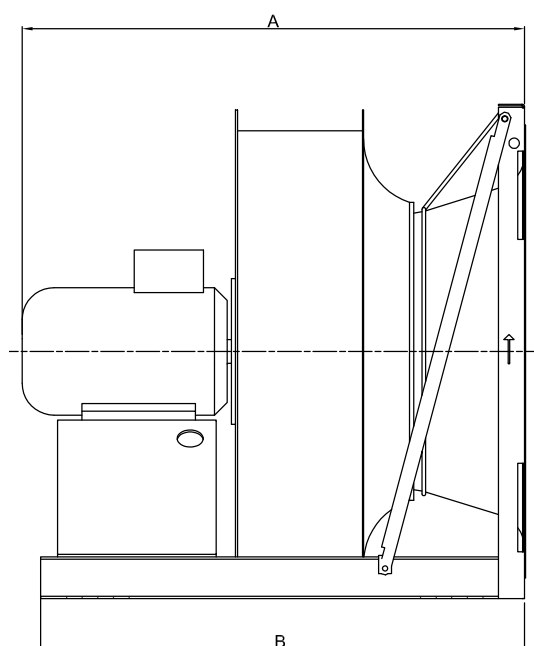
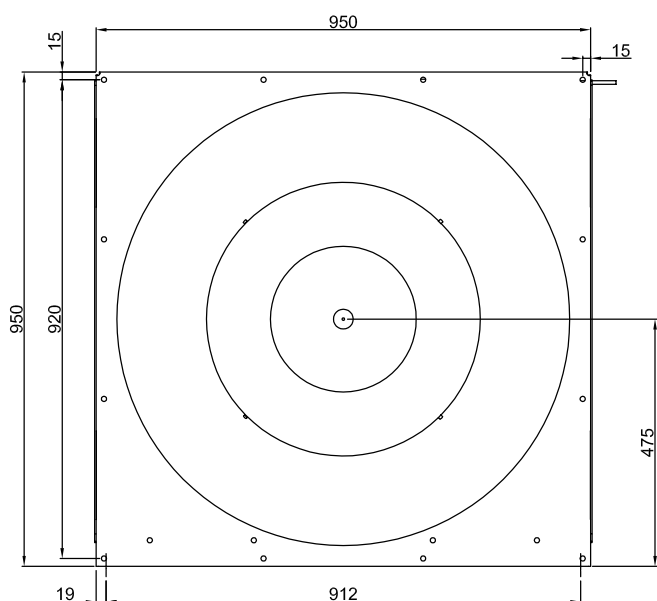


Motor: GPPM-1-00-071

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-071-09-0	APPM-10-0300-30-02	3	8,7	90	1050	79	15
GPPM-1-00-071-11-0	APPM-13-0550-30-02	5,5	11	112	1300	78,8	30
GPPM-1-00-071-11-0	APPM-16-1100-30-02	11	22	112	1660	78,8	33

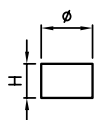
Technical Data – GPPM-1-00-080

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



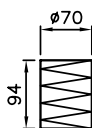
IEC	Motor A	B	C	GPEZ-43			
				GPEZ-42		Front Vorne Framför	Back Hintern Bakom
112	892	930	800	50	48	SD5	SD5
132	966	930	800	50	48	SD6	SD6

GPEZ-42

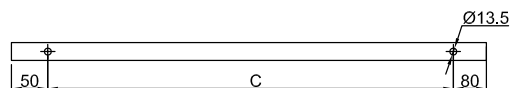


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

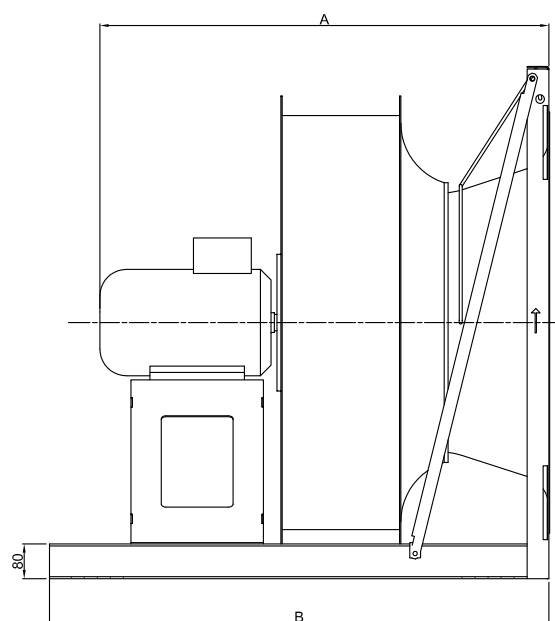
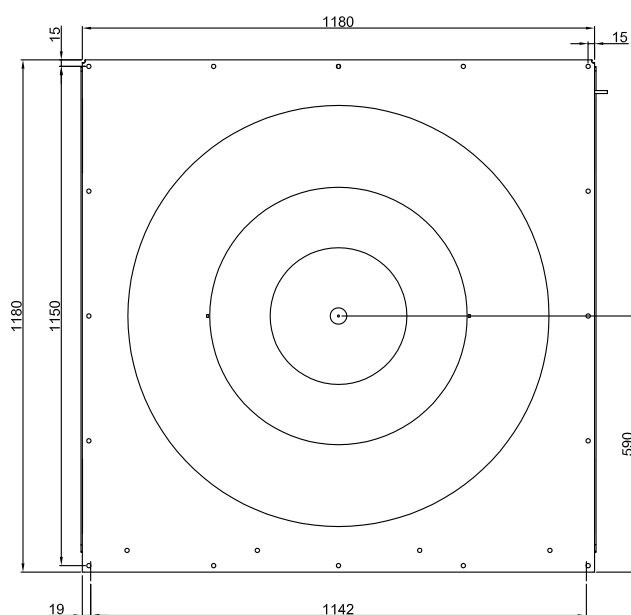


Motor: GPPM-1-00-080

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-080-11-0	APPM-11-0550-30-02	5,5	11,3	112	1050	112,4	30
GPPM-1-00-080-13-0	APPM-13-1100-30-02	11	24,1	132	1350	118,6	46

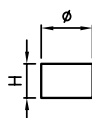
Technical Data – GPPM-1-00-090

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



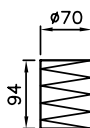
IEC	Motor A	B	C	GPEZ-43			
				GPEZ-42 ø	H	Front Vorne Framför	Back Hintern Bakom
132	1034	1150	1020	50	48	SD6	SD6

GPEZ-42

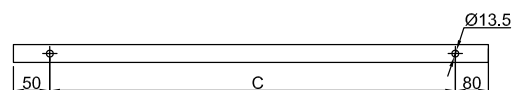


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare

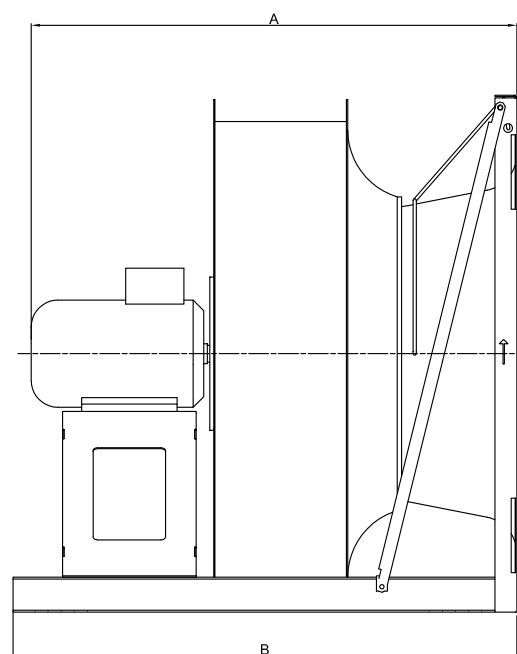
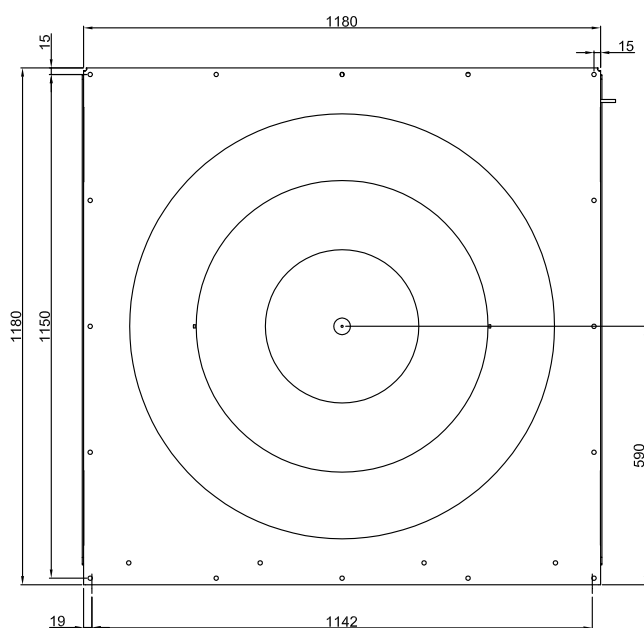


Motor: GPPM-1-00-090

Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-090-13-0	APPM-11-1100-30-02	11	22,9	132	1140	162,7	58

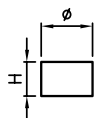
Technical Data – GPPM-1-00-100

Dimensions and weights
Abmessungen und Gewichte
Mått och vikt



IEC	Motor A	B	C	GPEZ-43			
				GPEZ-42		Front Vorne Framför	Back Hintern Bakom
				ø	H		
132	1109	1150	1020	50	48	SD6	SD6

GPEZ-42

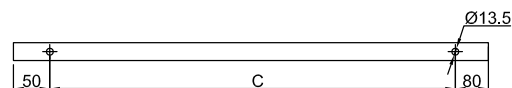


GPEZ-43

Without load
Ohne Belastung
Utan belastning



Fastening positions for dampers
Befestigungspunkte für
Schwingungsdämpfer
Fästpunkter för vibrationsdämpare



Motor: GPPM-1-00-100

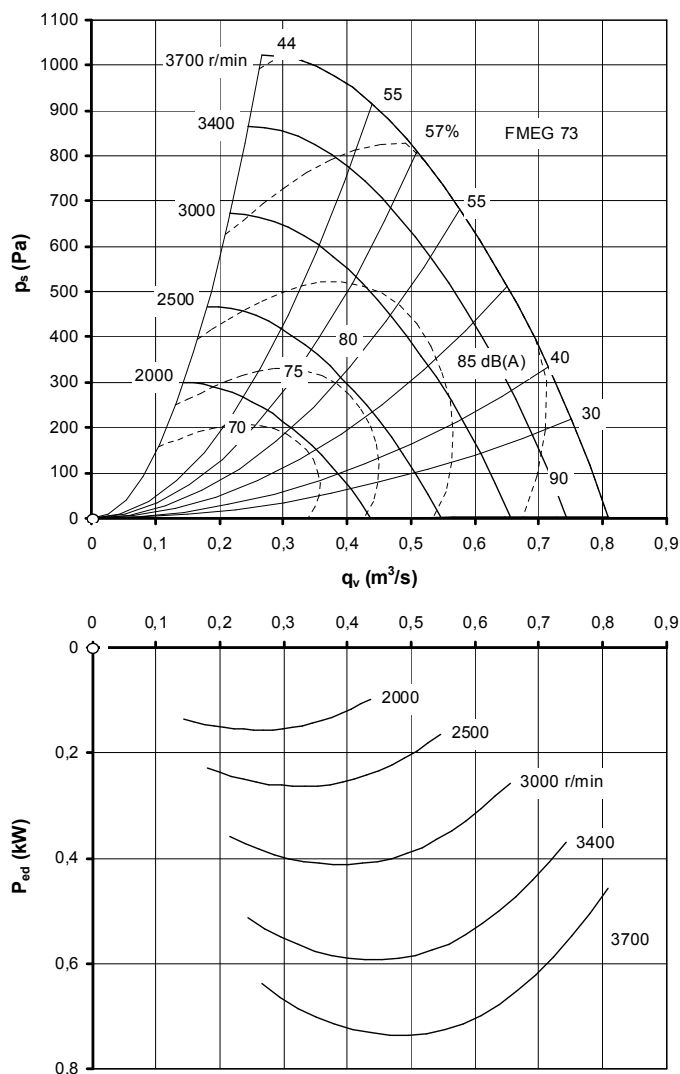
Product code Produktbezeichnung Produktkod	Motor code incl. drive Motorbezeichnung inkl. FU Motorkod inkl. FU	Rated output Nennleistung Märkuteffekt [kW]	Motor current Motorstrom Motorström [A]	Size Grösse Storlek [IEC]	Max speed Max Drehzahl Max varvtal [rpm]	Fan weight Ventilator Gewicht Fläktvikt [kg]	Motor weight Motor Gewicht Motorvikt [kg]
GPPM-1-00-100-13-0	APPM-09-1100-30-02	11	22,9	132	950	180	65

Technical Data – GPPM-1-00-025 PM 0.8 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input Ped	Air flow Qv	Pressure	Speed
	FC101	%	N	kW	m³/s	psf	r/min
GPPM-1-00-025-06-0	APPM-30-0080-30-02	56,2	73,6	0,733	0,494	836	3700

Sound data, Schalldaten, Ljuddata

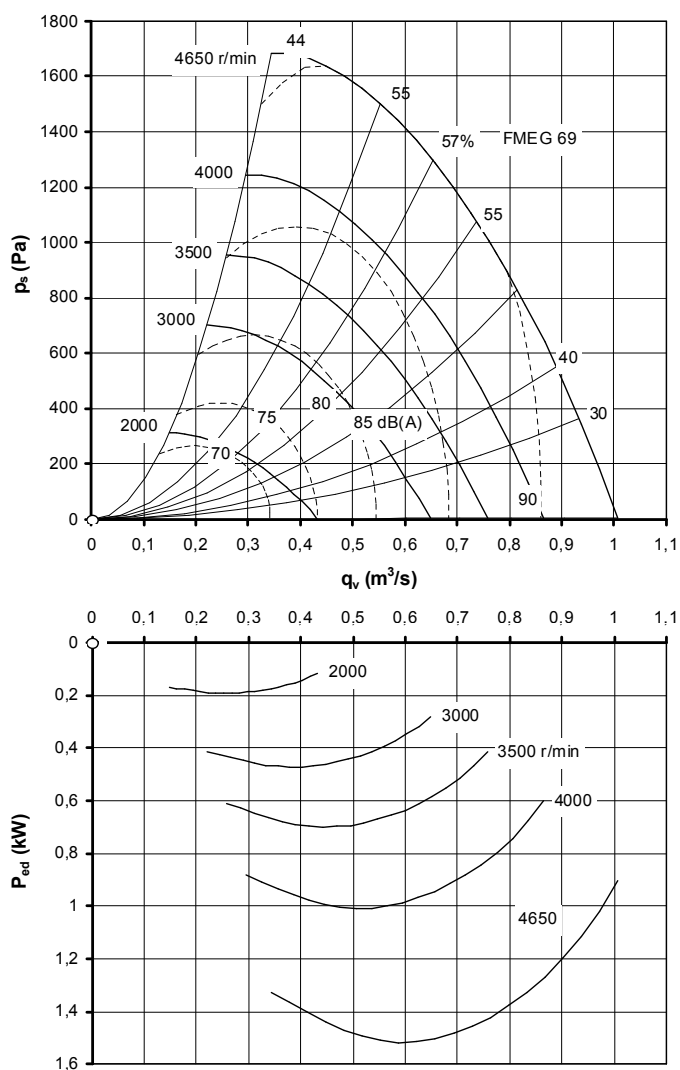
GPPM-1-00-025		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-18	-16	-7	-8	-4	-6	-9	-15	0
	3043 - 5000	-19	-18	-13	-5	-6	-5	-9	-13	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-22	-20	-10	-11	-14	-16	-16	-22	-7,9
	3043 - 5000	-24	-23	-20	-11	-14	-17	-16	-20	-8,5

Technical Data – GPPM-1-00-025 PM 1.5 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-025-06-0	APPM-45-0150-30-02	56,4	69,3	1,503	0,647	1290	4650

Sound data, Schalldaten, Ljuddata

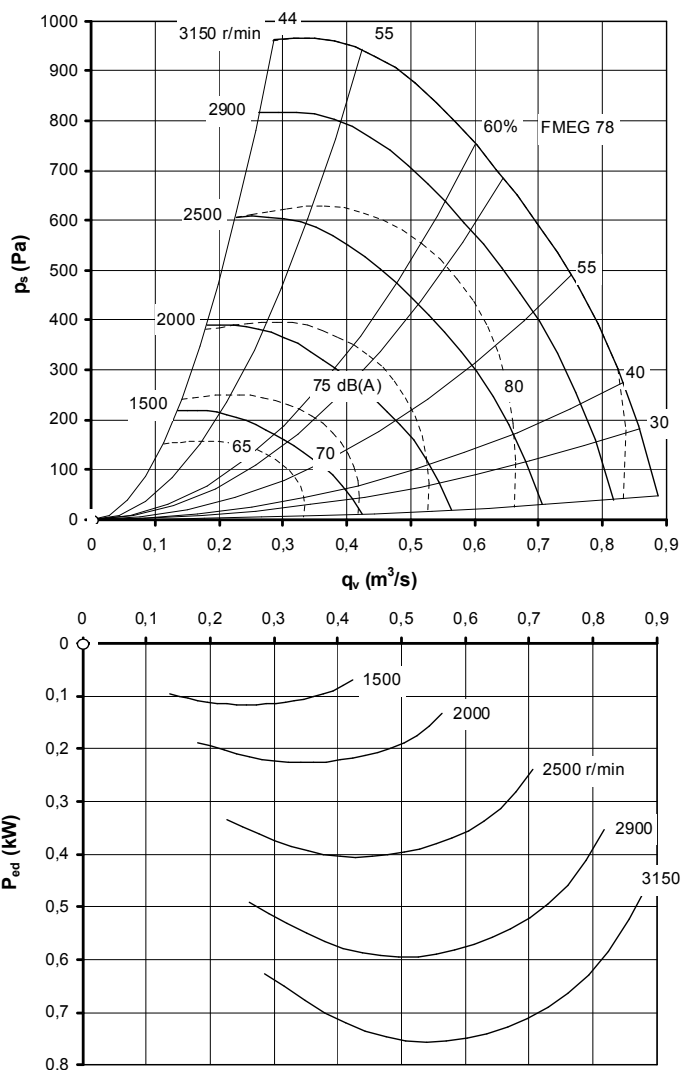
GPPM-1-00-025		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-18	-16	-7	-8	-4	-6	-9	-15	0
	3043 - 5000	-19	-18	-13	-5	-6	-5	-9	-13	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-22	-20	-10	-11	-14	-16	-16	-22	-7,9
	3043 - 5000	-24	-23	-20	-11	-14	-17	-16	-20	-8,5

Technical Data – GPPM-1-00-028 PM 0.8 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category A
Efficiency category Static
Variable speed drive Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Q_v	Pressure	Speed
	FC101	%	N	P_{ed} kW	m³/s	psf	r/min
GPPM-1-00-028-06-0	APPM-30-0080-30-02	60,4	78,0	0,750	0,602	751	3150

Sound data, Schalldaten, Ljuddata

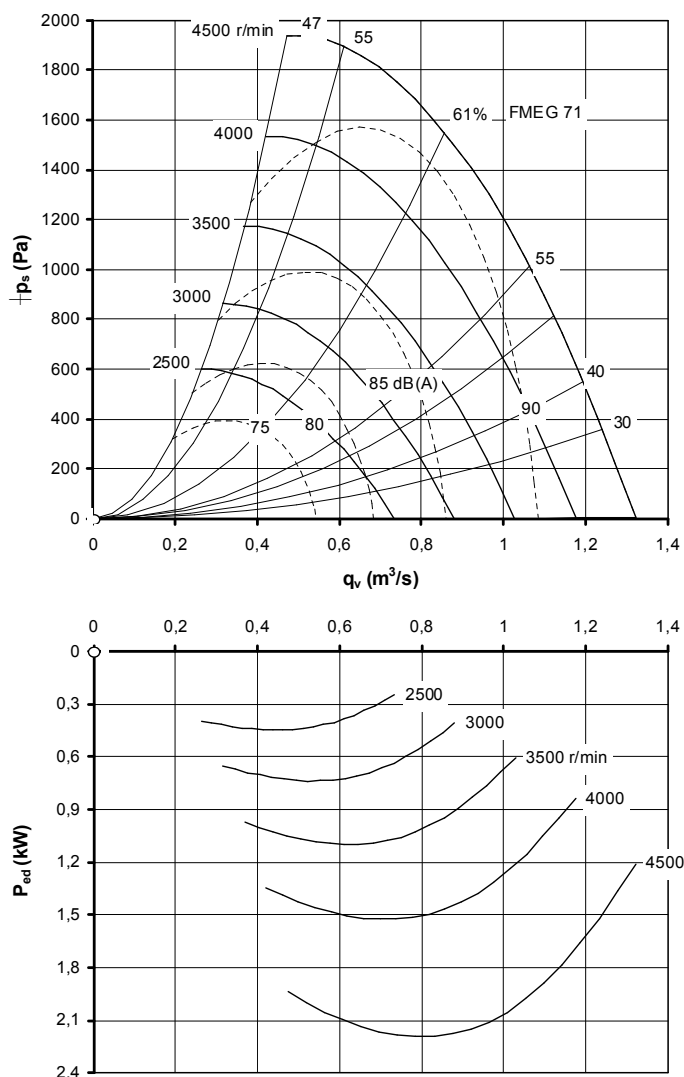
GPPM-1-00-028		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-16	-14	-4	-7	-4	-6	-10	-14	0
	3043 - 5000	-15	-16	-14	-5	-5	-6	-9	-13	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-20	-18	-8	-9	-12	-14	-17	-19	-6,4
	3043 - 5000	-22	-21	-18	-9	-12	-16	-18	-19	-7,2

Technical Data – GPPM-1-00-028 PM 2.2 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category A
Efficiency category Static
Variable speed drive Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Q_v	Pressure	Speed
	FC101	%	N	Ped kW	m^3/s	psf	r/min
GPPM-1-00-028-06-0	APPM-45-0220-30-02	60,8	71,6	2,179	0,875	1513	4500

Sound data, Schalldaten, Ljuddata

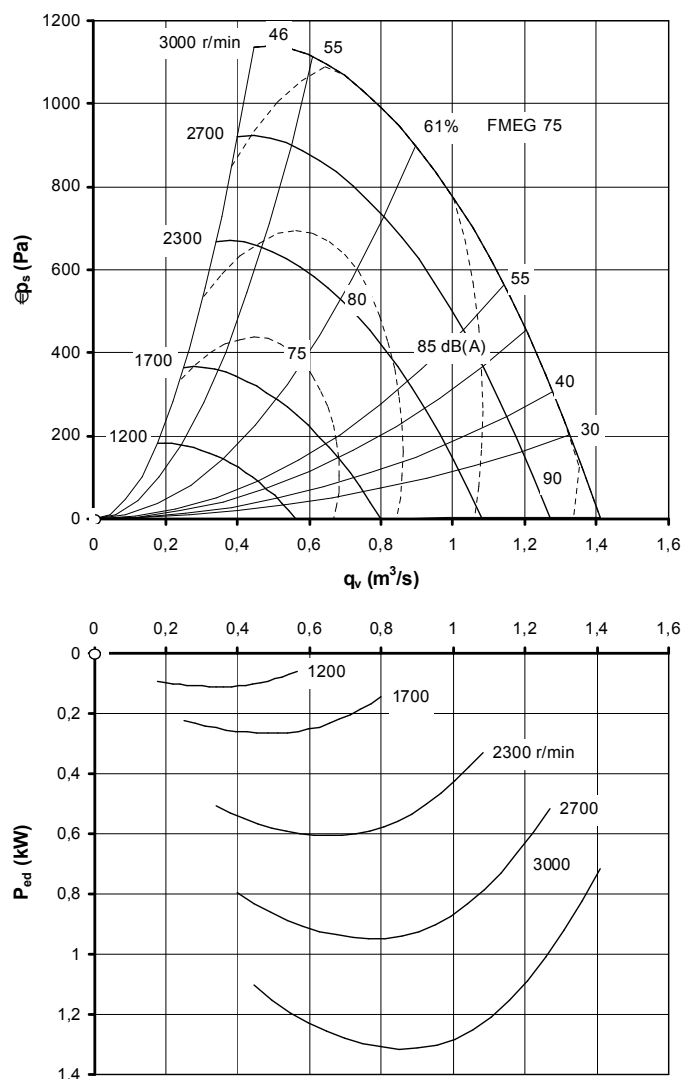
GPPM-1-00-028		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-16	-14	-4	-7	-4	-6	-10	-14	0
	3043 - 5000	-15	-16	-14	-5	-5	-6	-9	-13	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-20	-18	-8	-9	-12	-14	-17	-19	-6,4
	3043 - 5000	-22	-21	-18	-9	-12	-16	-18	-19	-7,2

Technical Data – GPPM-1-00-031 PM 1.1 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-031-06-0	APPM-30-0110-30-02	61,4	75,6	1,312	0,902	894	3000

Sound data, Schalldaten, Ljuddata

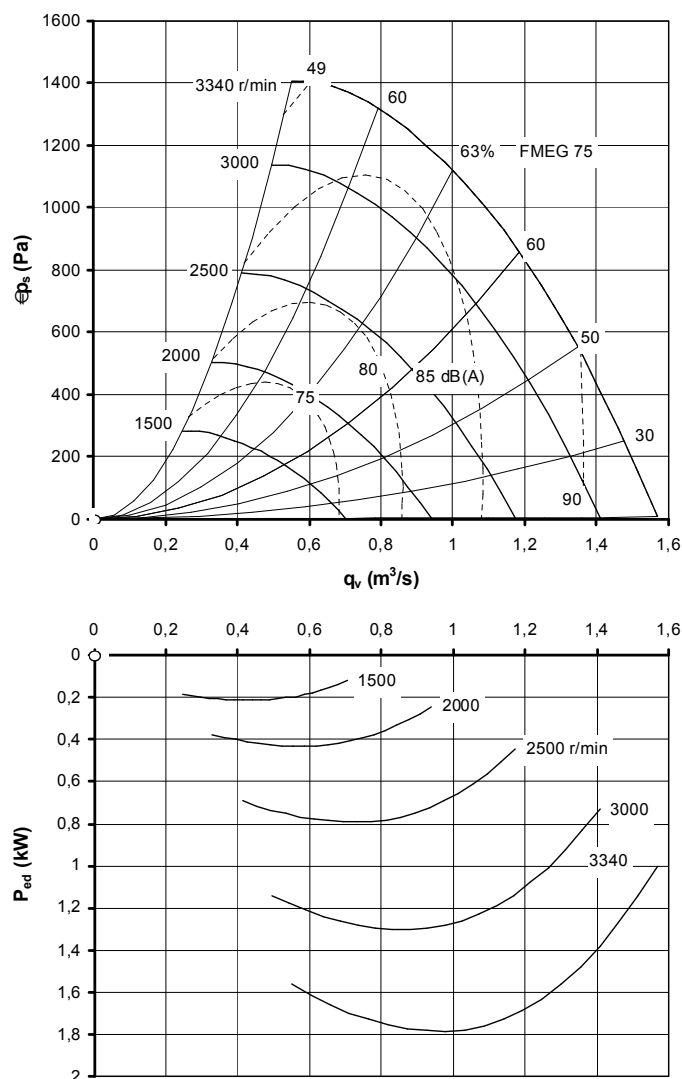
GPPM-1-00-031		Correction, Korrektur, Korrektion K _{OKt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-16	-15	-4	-6	-4	-7	-9	-13	0
	3043 - 4400	-14	-15	-13	-4	-4	-7	-10	-13	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-20	-22	-5	-8	-12	-15	-15	-19	-5,8
	3043 - 4400	-17	-20	-17	-8	-11	-18	-20	-23	-7,1

Technical Data – GPPM-1-00-031 PM 1.8 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-031-06-0	APPM-36-0180-30-02	62,8	75,1	1,784	0,979	1143	3340

Sound data, Schalldaten, Ljuddata

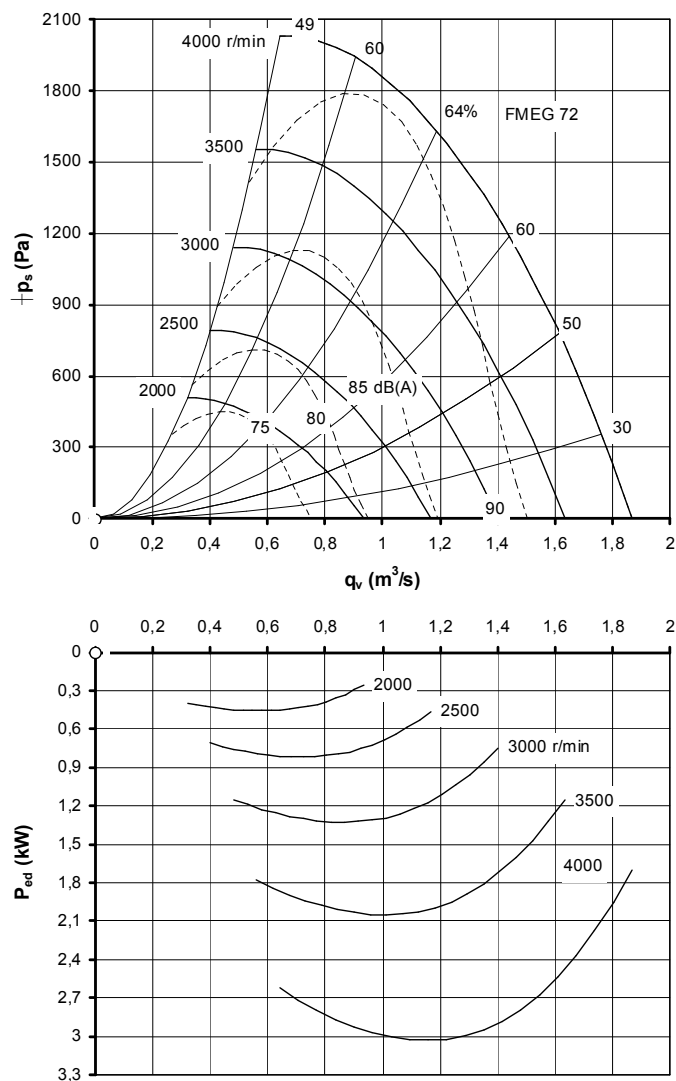
GPPM-1-00-031		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path	Speed range	Octave band, mid-frequency,								
Schallweg	Drehzahlbereich	Oktavband, Mittenfrequenz,								
Ljudväg	Varvtalsområde	Oktavband, centerfrekvens, Hz								
(s)	r/min	63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-16	-15	-4	-6	-4	-7	-9	-13	0
	3043 - 4400	-14	-15	-13	-4	-4	-7	-10	-13	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-20	-22	-5	-8	-12	-15	-15	-19	-5,8
	3043 - 4400	-17	-20	-17	-8	-11	-18	-20	-23	-7,1

Technical Data – GPPM-1-00-031 PM 3 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Q_v	Pressure	Speed
	FC101	%	N	P_{ed} kW	m^3/s	psf	r/min
GPPM-1-00-031-06-0	APPM-45-0300-30-02	63,9	72,8	3,021	1,222	1579	4000

Sound data, Schalldaten, Ljuddata

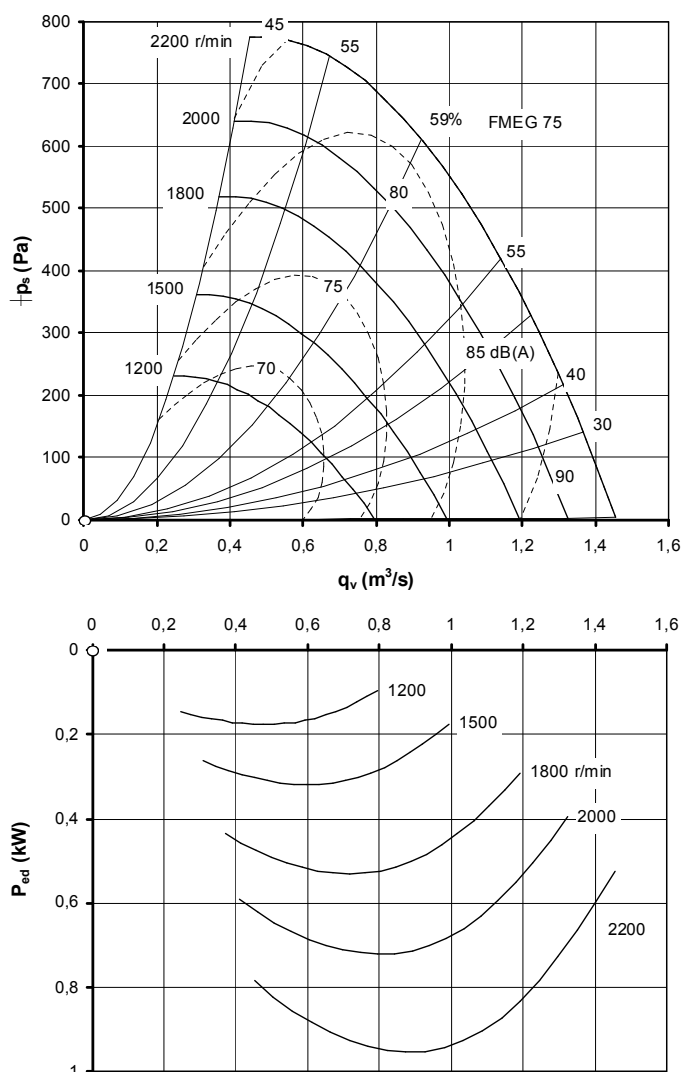
GPPM-1-00-031		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path	Speed range	Octave band, mid-frequency,								
Schallweg	Drehzahlbereich	Oktavband, Mittenfrequenz,								
Ljudväg	Varvtalsområde	Oktavband, centerfrekvens, Hz								
(s)	r/min	63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-16	-15	-4	-6	-4	-7	-9	-13	0
	3043 - 4400	-14	-15	-13	-4	-4	-7	-10	-13	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-20	-22	-5	-8	-12	-15	-15	-19	-5,8
	3043 - 4400	-17	-20	-17	-8	-11	-18	-20	-23	-7,1

Technical Data – GPPM-1-00-035 PM 1.1 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Q_v	Pressure	Speed
	FC101	%	N	P_{ed} kW	m^3/s	psf	r/min
GPPM-1-00-035-06-0	APPM-30-0110-30-02	59,3	75,3	0,952	0,928	608	2200

Sound data, Schalldaten, Ljuddata

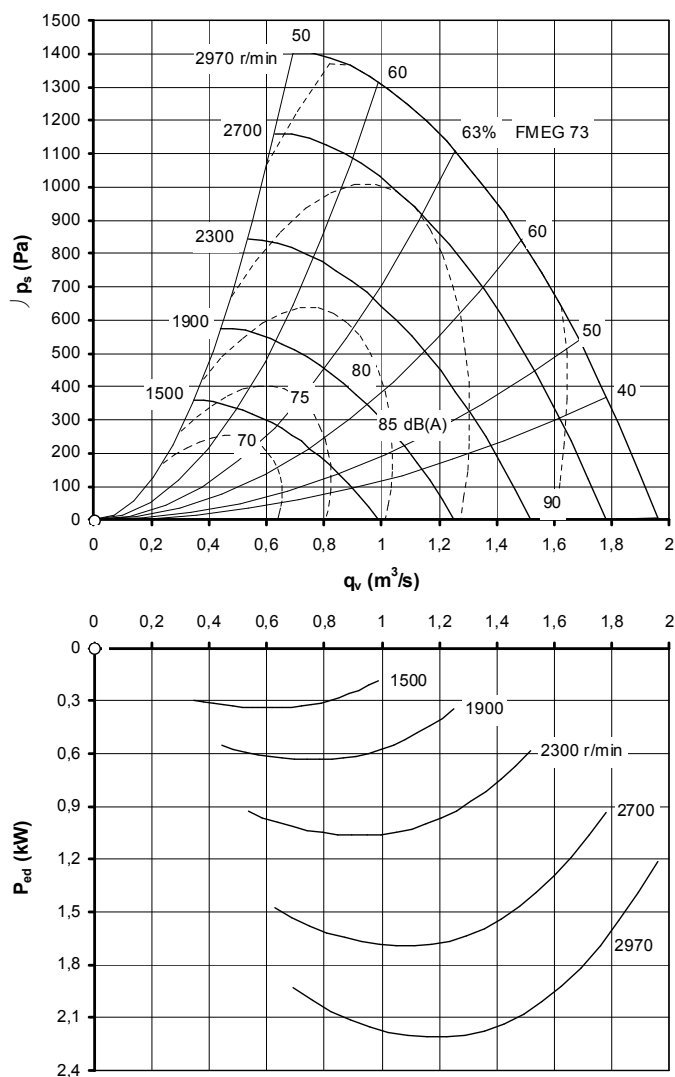
GPPM-1-00-035		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-19	-17	-4	-6	-4	-6	-11	-15	0
	3043 - 3950	-21	-19	-11	-4	-4	-7	-10	-15	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-21	-20	-11	-11	-13	-16	-19	-21	-8,2
	3043 - 3950	-26	-25	-21	-12	-15	-16	-19	-22	-9,3

Technical Data – GPPM-1-00-035 PM 2.2 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-035-06-0	APPM-30-0220-30-02	62,9	73,8	2,213	1,224	1136	2970

Sound data, Schalldaten, Ljuddata

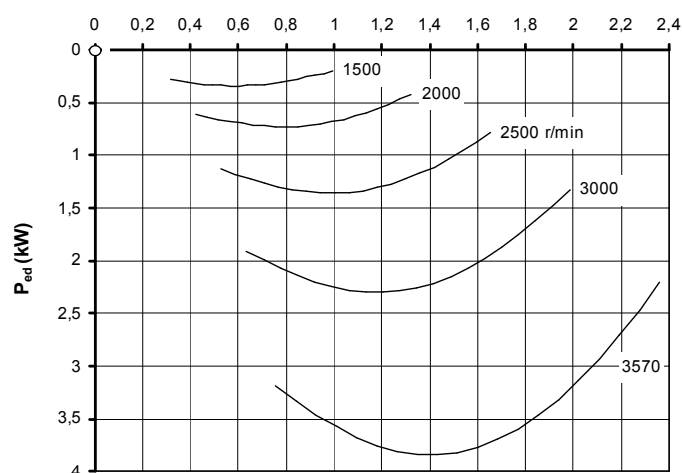
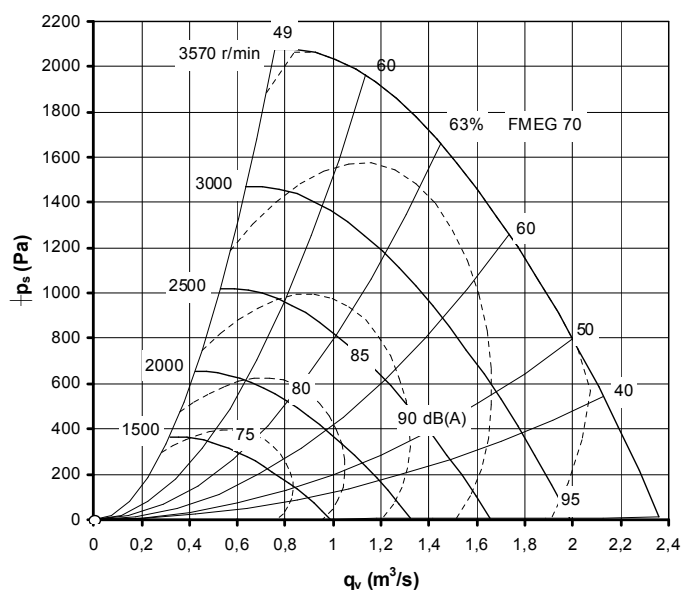
GPPM-1-00-035		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-19	-17	-4	-6	-4	-6	-11	-15	0
	3043 - 3950	-21	-19	-11	-4	-4	-7	-10	-15	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-21	-20	-11	-11	-13	-16	-19	-21	-8,2
	3043 - 3950	-26	-25	-21	-12	-15	-16	-19	-22	-9,3

Technical Data – GPPM-1-00-035 PM 3.6 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-035-09-0	APPM-36-0360-30-02	62,7	70,0	3,841	1,432	1681	3570

Sound data, Schalldaten, Ljuddata

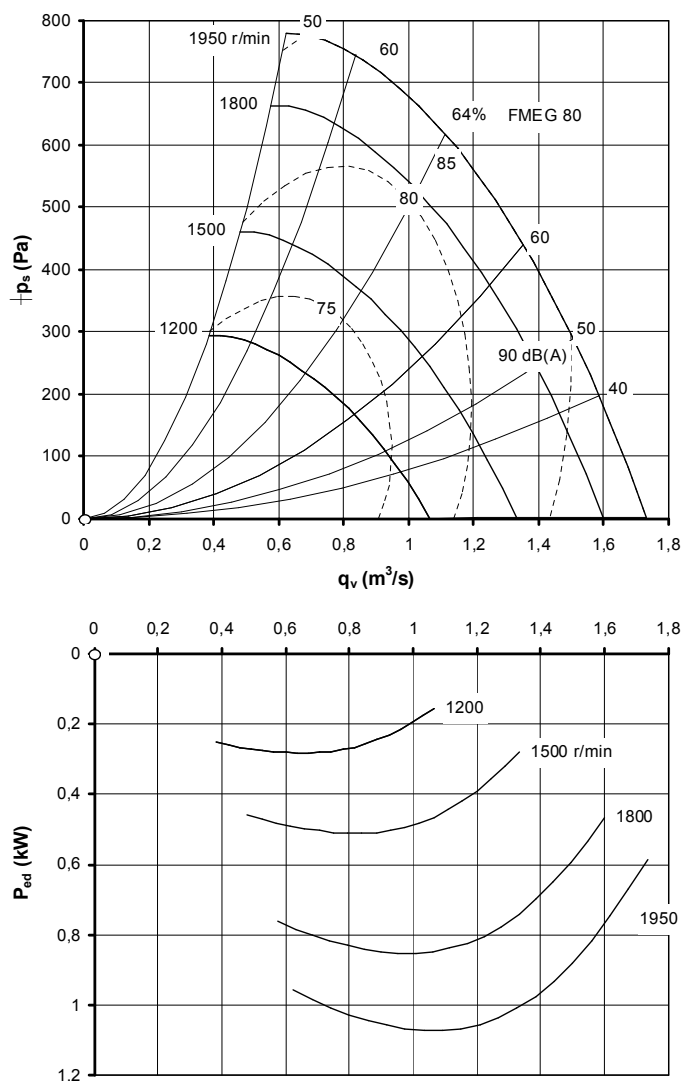
GPPM-1-00-035		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 3042	-19	-17	-4	-6	-4	-6	-11	-15	0
	3043 - 3950	-21	-19	-11	-4	-4	-7	-10	-15	0
To inlet An Eintritt Till inlopp s = 2	0 - 3042	-21	-20	-11	-11	-13	-16	-19	-21	-8,2
	3043 - 3950	-26	-25	-21	-12	-15	-16	-19	-22	-9,3

Technical Data – GPPM-1-00-040 PM 1.8 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-040-06-0	APPM-18-0180-30-02	64,2	79,9	1,071	1,091	630	1950

Sound data, Schalldaten, Ljuddata

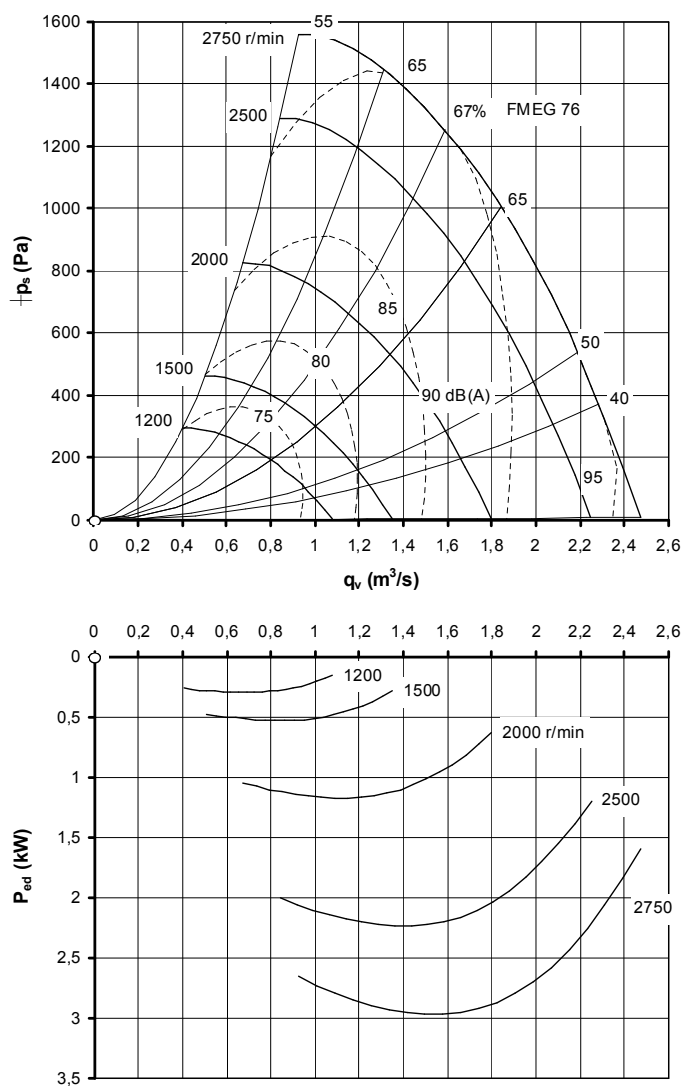
GPPM-1-00-040		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 – 1533	-15	-6	-4	-4	-3	-9	-12	-16	0
	1534 – 3042	-15	-10	-1	-3	-5	-7	-13	-15	0
	3043 – 3100	-20	-19	-10	-2	-4	-8	-14	-18	0
To inlet An Eintritt Till inlopp s = 2	0 – 1533	-18	-4	-7	-6	-10	-15	-17	-21	-4,9
	1534 – 3042	-22	-18	-6	-8	-12	-16	-18	-21	-6,3
	3043 – 3100	-24	-20	-8	-4	-9	-14	-19	-22	-3,8

Technical Data – GPPM-1-00-040 PM 3.6 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Q_v	Pressure	Speed
	FC101	%	N	P_{ed} kW	m^3/s	psf	r/min
GPPM-1-00-040-09-0	APPM-36-0360-30-02	67,1	76,3	2,967	1,579	1260	2750

Sound data, Schalldaten, Ljuddata

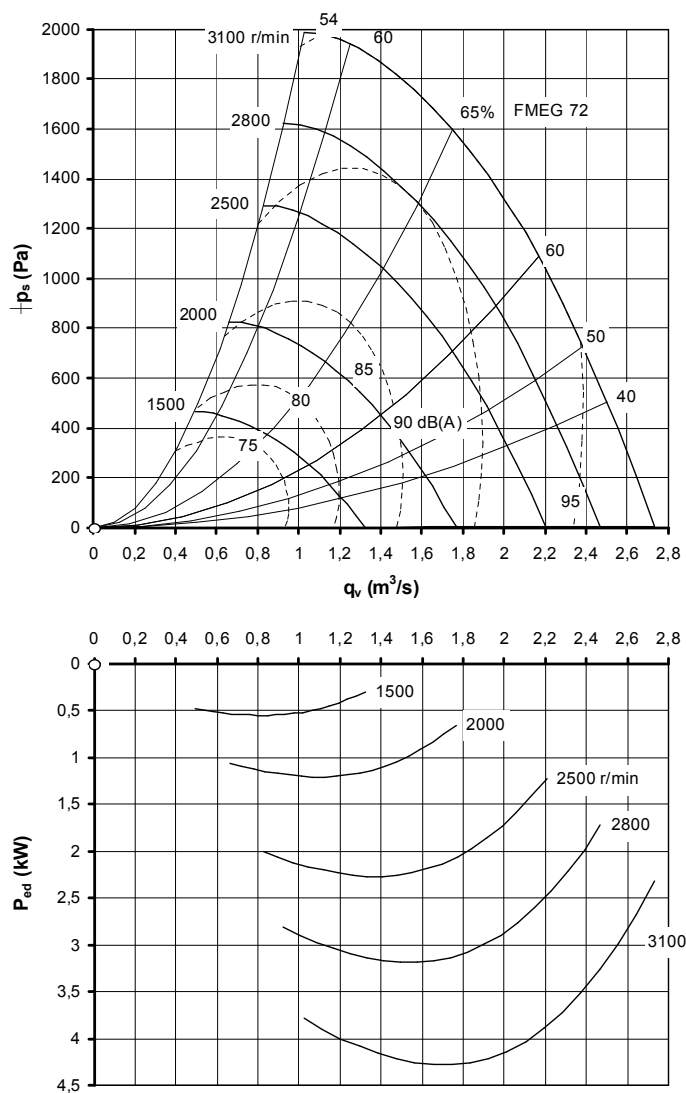
GPPM-1-00-040		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 1533	-15	-6	-4	-4	-3	-9	-12	-16	0
	1534 - 3042	-15	-10	-1	-3	-5	-7	-13	-15	0
	3043 - 3100	-20	-19	-10	-2	-4	-8	-14	-18	0
To inlet An Eintritt Till inlopp s = 2	0 - 1533	-18	-4	-7	-6	-10	-15	-17	-21	-4,9
	1534 - 3042	-22	-18	-6	-8	-12	-16	-18	-21	-6,3
	3043 - 3100	-24	-20	-8	-4	-9	-14	-19	-22	-3,8

Technical Data – GPPM-1-00-040 PM 4 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-040-09-0	APPM-30-0400-30-02	65,1	71,9	4,259	1,834	1512	3100

Sound data, Schalldaten, Ljuddata

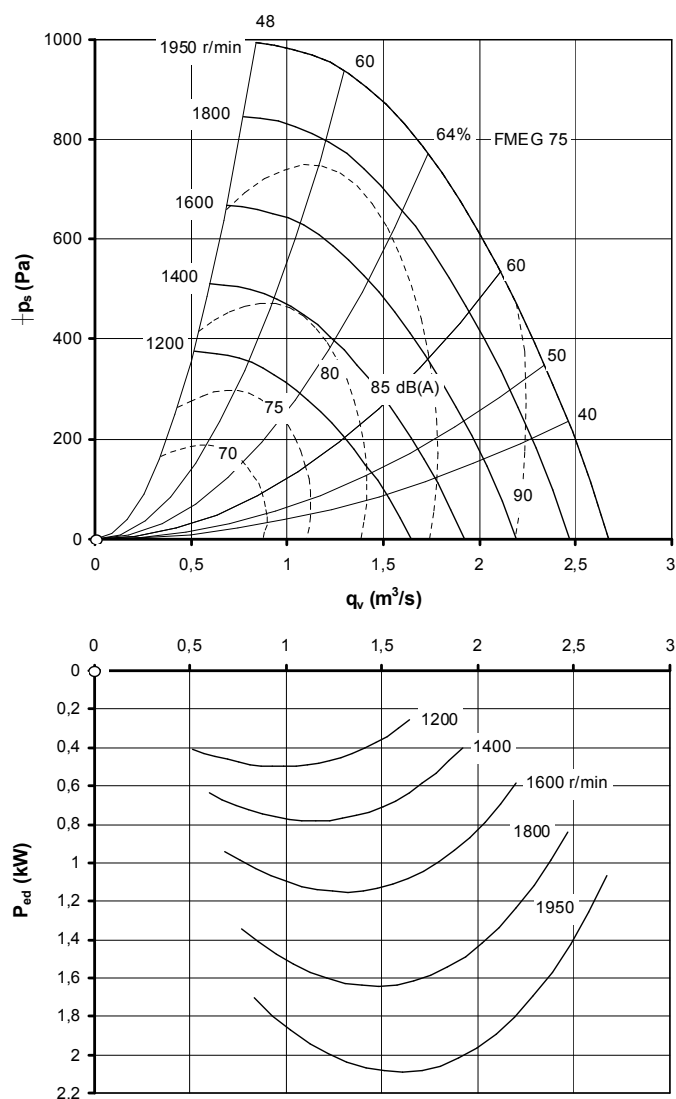
GPPM-1-00-040		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 1533	-15	-6	-4	-4	-3	-9	-12	-16	0
	1534 - 3042	-15	-10	-1	-3	-5	-7	-13	-15	0
	3043 - 3100	-20	-19	-10	-2	-4	-8	-14	-18	0
To inlet An Eintritt Till inlopp s = 2	0 - 1533	-18	-4	-7	-6	-10	-15	-17	-21	-4,9
	1534 - 3042	-22	-18	-6	-8	-12	-16	-18	-21	-6,3
	3043 - 3100	-24	-20	-8	-4	-9	-14	-19	-22	-3,8

Technical Data – GPPM-1-00-045 PM 1.8 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-045-06-0	APPM-18-0180-30-02	64,1	75,6	2,086	1,706	735	1950

Sound data, Schalldaten, Ljuddata

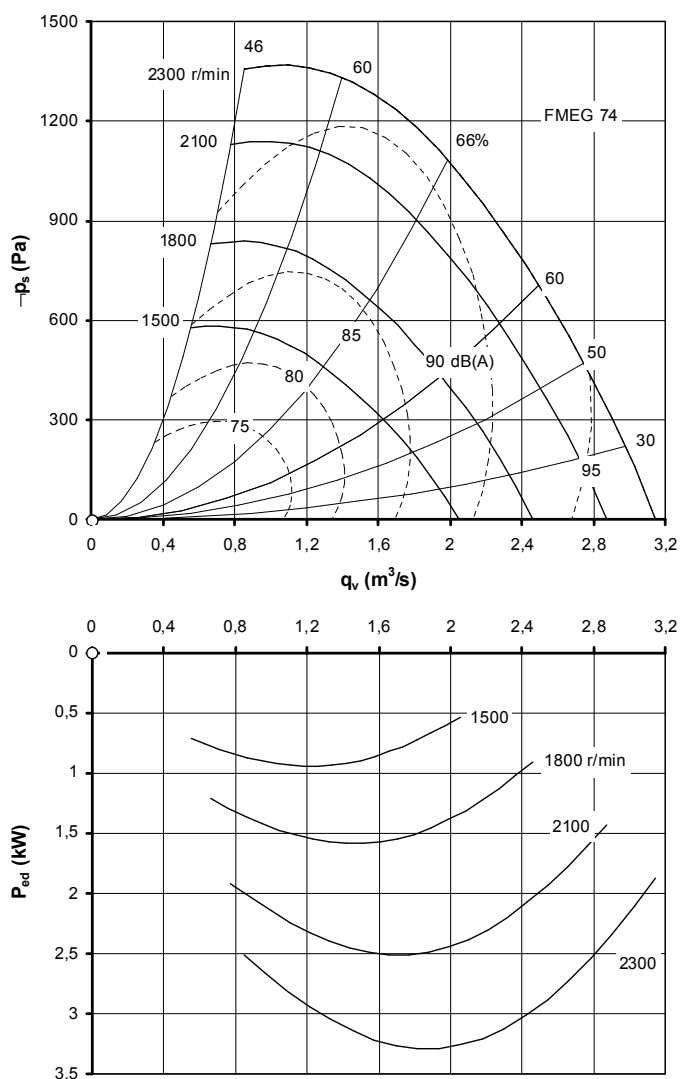
GPPM-1-00-045		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path	Speed range	Octave band, mid-frequency,								
Schallweg	Drehzahlbereich	Oktavband, Mittenfrequenz,								
Ljudväg	Varvtalsområde	Oktavband, centerfrekvens, Hz								
(s)	r/min	63	125	250	500	1000	2000	4000	8000	
To outlet	0 - 1533	-16	-3	-4	-3	-4	-9	-12	-14	0
An Austritt	1534 - 3042	-18	-16	0	-4	-4	-9	-12	-15	0
Till utlopp	3043 - 3100	-18	-17	-7	-3	-3	-9	-14	-17	0
s = 1										
To inlet	0 - 1533	-17	-2	-6	-10	-10	-18	-17	-21	-5,9
An Eintritt	1534 - 3042	-22	-19	-8	-11	-11	-15	-18	-20	-6,7
Till inlopp	3043 - 3100	-20	-23	-5	-3	-10	-15	-19	-21	-3,4
s = 2										

Technical Data – GPPM-1-00-045 PM 4 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-045-09-0	APPM-30-0400-30-02	65,4	73,9	3,288	1,937	1112	2300

Sound data, Schalldaten, Ljuddata

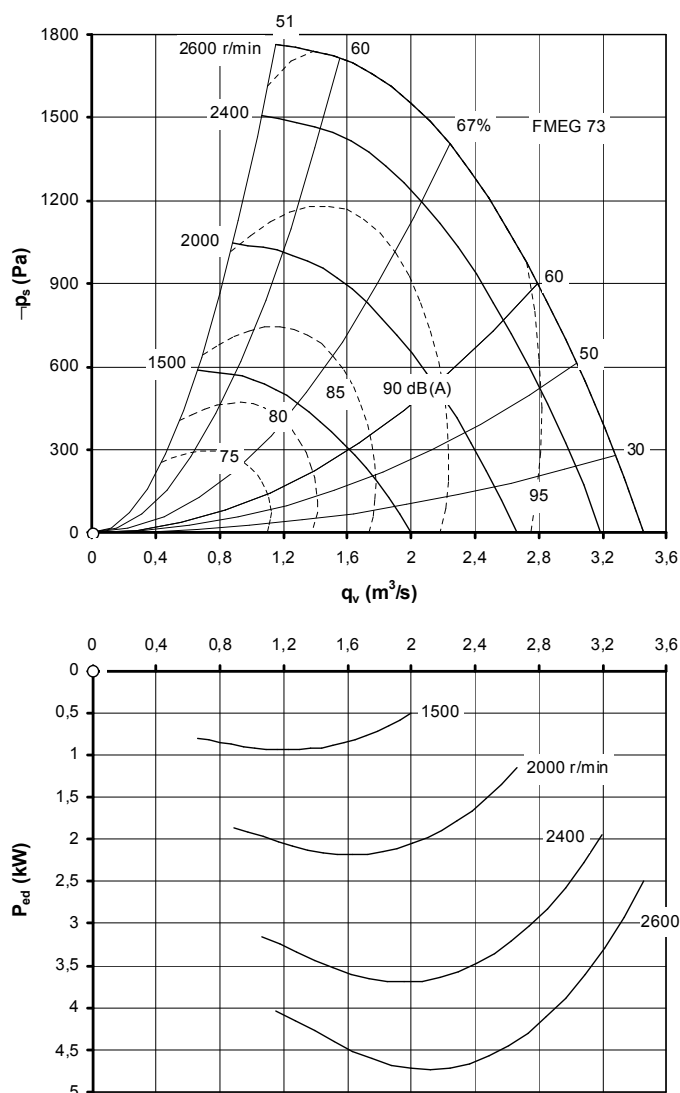
GPPM-1-00-045		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path	Speed range	Octave band, mid-frequency,								
Schallweg	Drehzahlbereich	Oktavband, Mittenfrequenz,								
Ljudväg	Varvtalsområde	Oktavband, centerfrekvens, Hz								
(s)	r/min	63	125	250	500	1000	2000	4000	8000	
To outlet	0 - 1533	-16	-3	-4	-3	-4	-9	-12	-14	0
An Austritt	1534 - 3042	-18	-16	0	-4	-4	-9	-12	-15	0
Till utlopp	3043 - 3100	-18	-17	-7	-3	-3	-9	-14	-17	0
s = 1										
To inlet	0 - 1533	-17	-2	-6	-10	-10	-18	-17	-21	-5,9
An Eintritt	1534 - 3042	-22	-19	-8	-11	-11	-15	-18	-20	-6,7
Till inlopp	3043 - 3100	-20	-23	-5	-3	-10	-15	-19	-21	-3,4
s = 2										

Technical Data – GPPM-1-00-045 PM 5.5 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-045-09-0	APPM-30-0550-30-02	66,7	72,9	4,713	2,241	1404	2600

Sound data, Schalldaten, Ljuddata

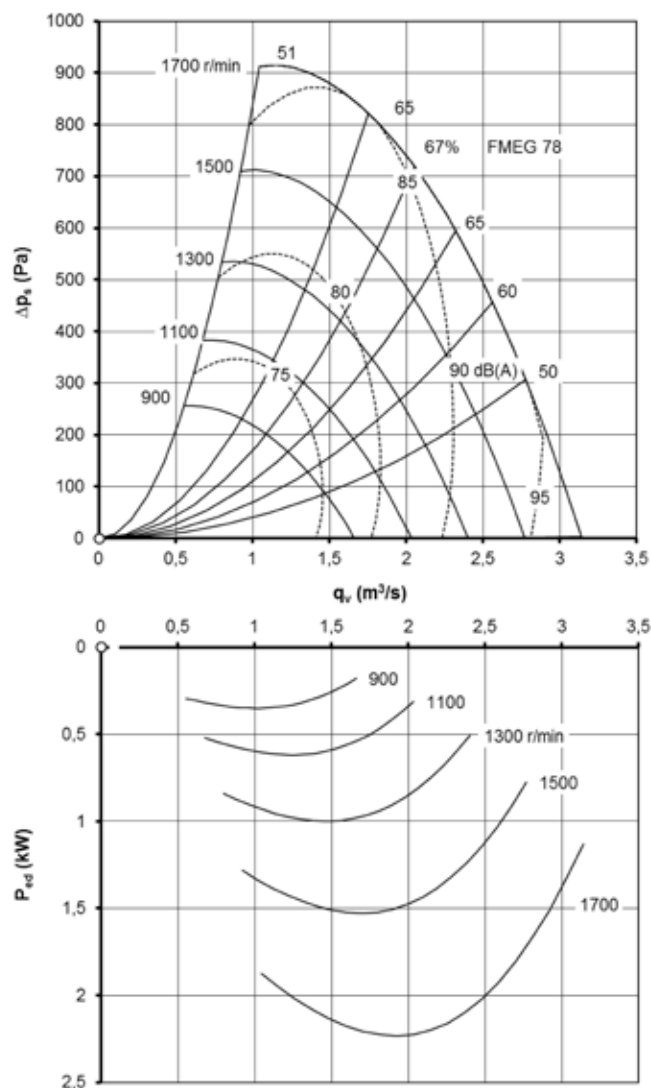
GPPM-1-00-045		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path	Speed range	Octave band, mid-frequency,								
Schallweg	Drehzahlbereich	Oktavband, Mittenfrequenz,								
Ljudväg	Varvtalsområde	Oktavband, centerfrekvens, Hz								
(s)	r/min	63	125	250	500	1000	2000	4000	8000	
To outlet	0 - 1533	-16	-3	-4	-3	-4	-9	-12	-14	0
An Austritt	1534 - 3042	-18	-16	0	-4	-4	-9	-12	-15	0
Till utlopp	3043 - 3100	-18	-17	-7	-3	-3	-9	-14	-17	0
s = 1										
To inlet	0 - 1533	-17	-2	-6	-10	-10	-18	-17	-21	-5,9
An Eintritt	1534 - 3042	-22	-19	-8	-11	-11	-15	-18	-20	-6,7
Till inlopp	3043 - 3100	-20	-23	-5	-3	-10	-15	-19	-21	-3,4
s = 2										

Technical Data – GPPM-1-00-050-09-0 PM 2.2 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Q_v	Pressure	Speed
	FC101	%	N	Ped kW	m^3/s	psf	r/min
GPPM-1-00-050-09-0	APPM-17-0220-30-02	66,5	77,6	2,223	2,037	726	1700

Sound data, Schalldaten, Ljuddata

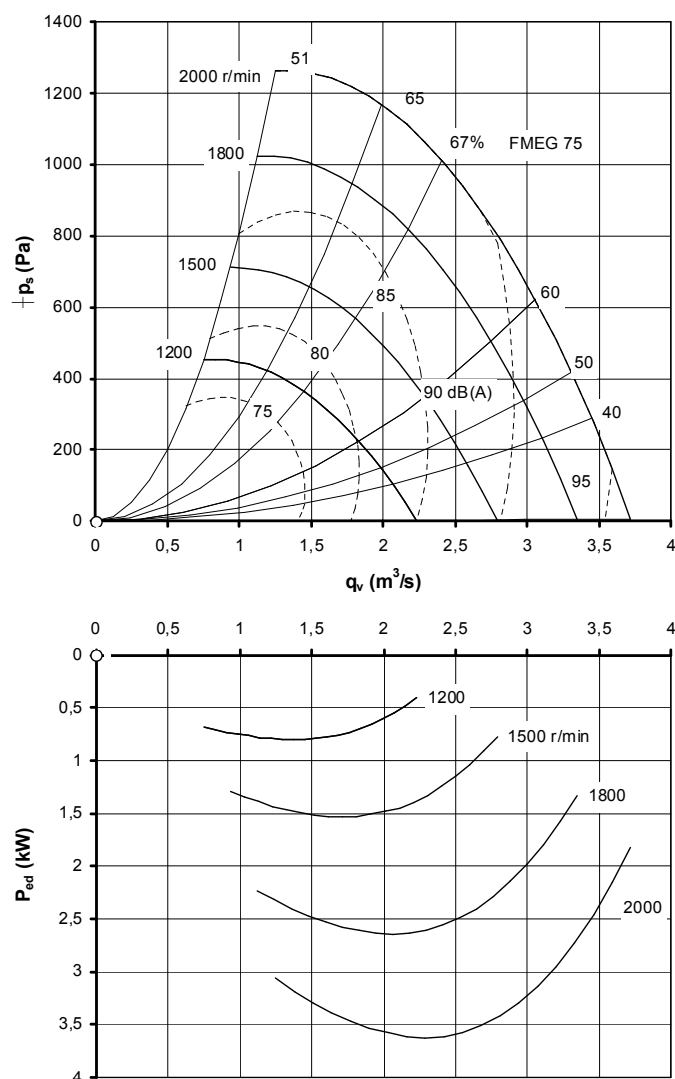
GPPM-1-00-050		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 1533	-14	-1	0	-3	-5	-9	-12	-14	0
	1534 - 2630	-20	-19	-1	-2	-4	-10	-14	-16	0
To inlet An Eintritt Till inlopp s = 2	0 - 1533	-16	-2	-4	-11	-14	-16	-18	-20	-6,8
	1534 - 2630	-25	-22	-5	-9	-13	-15	-20	-20	-6,7

Technical Data – GPPM-1-00-050 PM 3.6 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Q_v	Pressure	Speed
	FC101	%	N	P_{ed} kW	m^3/s	psf	r/min
GPPM-1-00-050-09-0	APPM-18-0360-30-02	67,3	74,7	3,61	2,419	1005	2000

Sound data, Schalldaten, Ljuddata

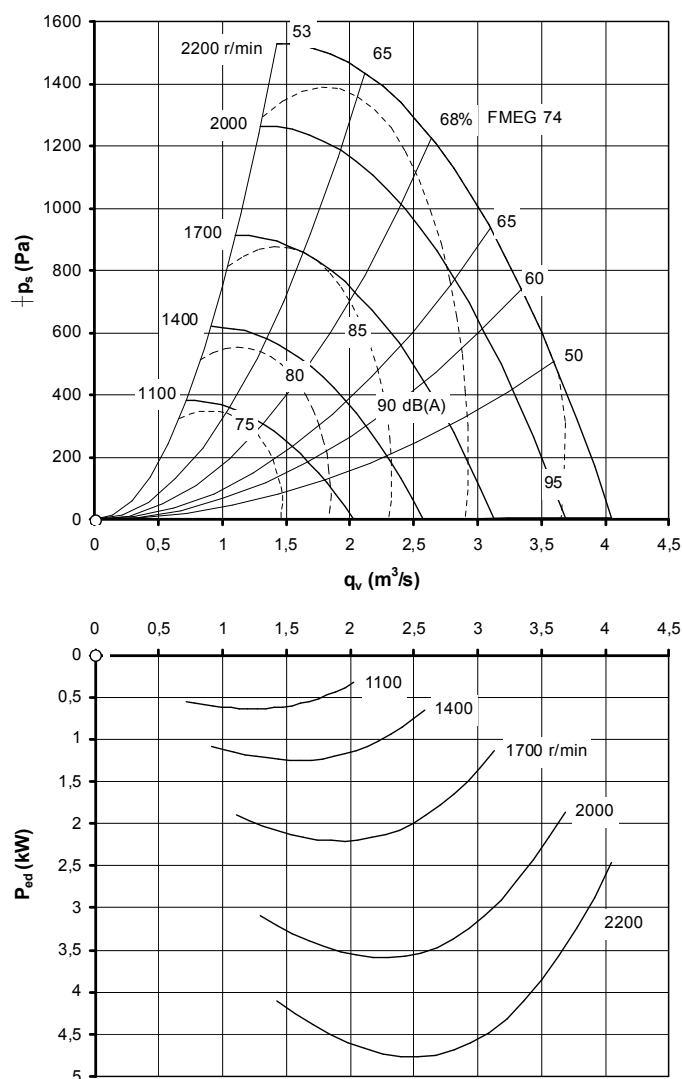
GPPM-1-00-050		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 1533	-14	-1	0	-3	-5	-9	-12	-14	0
	1534 - 2630	-20	-19	-1	-2	-4	-10	-14	-16	0
To inlet An Eintritt Till inlopp s = 2	0 - 1533	-16	-2	-4	-11	-14	-16	-18	-20	-6,8
	1534 - 2630	-25	-22	-5	-9	-13	-15	-20	-20	-6,7

Technical Data – GPPM-1-00-050 PM 4.8 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-050-09-0	APPM-18-0480-30-02	68	74,1	4,746	2,67	1209	2200

Sound data, Schalldaten, Ljuddata

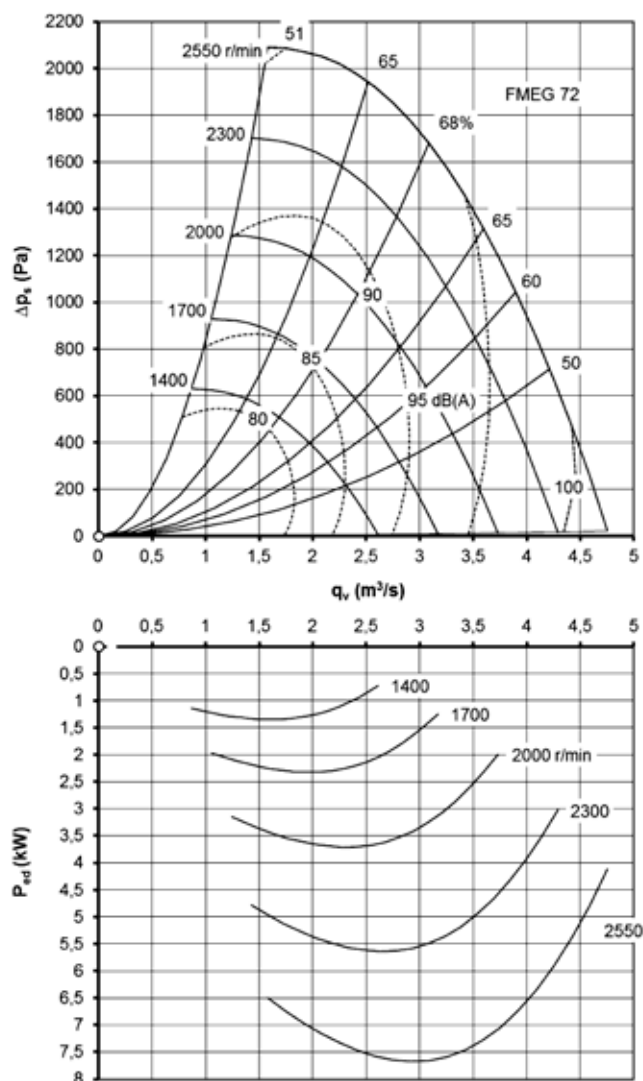
GPPM-1-00-050		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 1533	-14	-1	0	-3	-5	-9	-12	-14	0
	1534 - 2630	-20	-19	-1	-2	-4	-10	-14	-16	0
To inlet An Eintritt Till inlopp s = 2	0 - 1533	-16	-2	-4	-11	-14	-16	-18	-20	-6,8
	1534 - 2630	-25	-22	-5	-9	-13	-15	-20	-20	-6,7

Technical Data – GPPM-1-00-050-11-0 PM 7.5 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-050-11-0	APPM-26-0750-30-02	67,7	71,6	7,653	3,085	1680	2550

Sound data, Schalldaten, Ljuddata

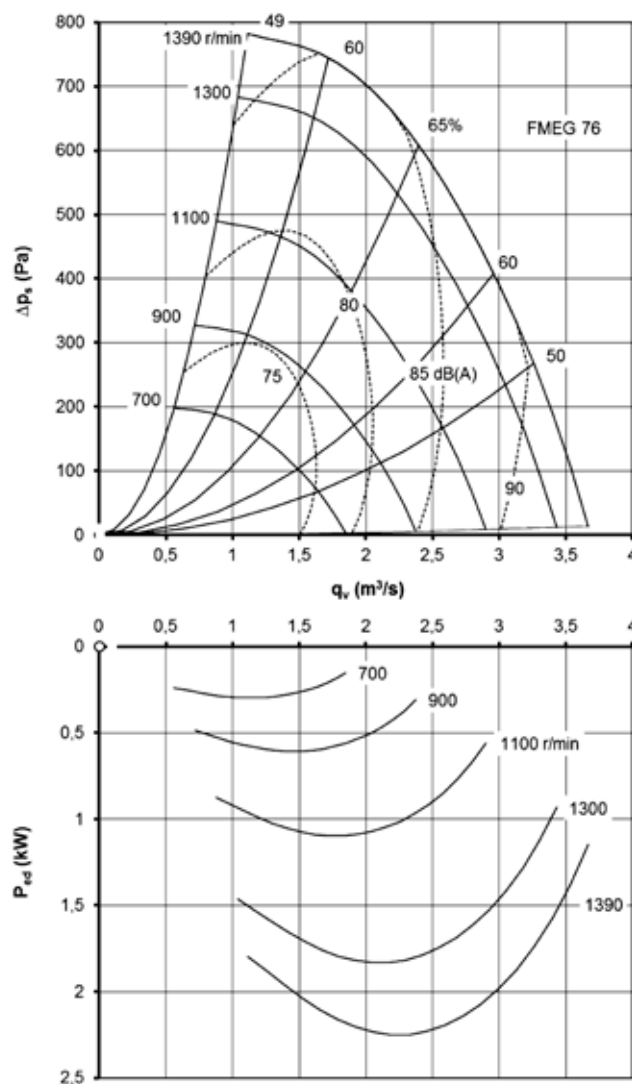
GPPM-1-00-050		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 1533	-14	-1	0	-3	-5	-9	-12	-14	0
	1534 - 2630	-20	-19	-1	-2	-4	-10	-14	-16	0
To inlet An Eintritt Till inlopp s = 2	0 - 1533	-16	-2	-4	-11	-14	-16	-18	-20	-6,8
	1534 - 2630	-25	-22	-5	-9	-13	-15	-20	-20	-6,7

Technical Data – GPPM-1-00-056-09-0 PM 2.2 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-056-09-0	APPM-14-0220-30-02	65	76	2,23	2,457	590	1390

Sound data, Schalldaten, Ljuddata

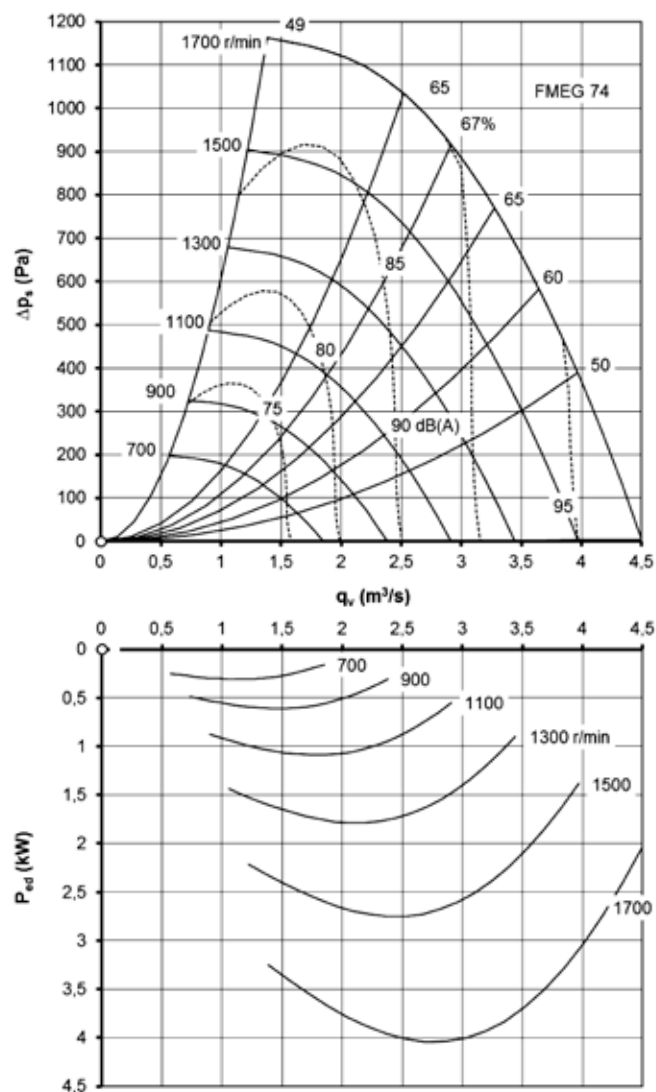
GPPM-1-00-056		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 1533 1534 - 2400	-15 -19	-1 -18	1 1	-2 -2	-5 -4	-11 -11	-15 -17	-16 -19	0 0
To inlet An Eintritt Till inlopp s = 2	0 - 1533 1534 - 2400	-16 -25	1 -21	-3 -7	-11 -10	-13 -12	-18 -17	-20 -22	-23 -24	-6,5 -7,6

Technical Data – GPPM-1-00-056-09-0 PM 4 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-056-09-0	APPM-17-0400-30-02	66,3	73,5	4,039	3,024	877	1700

Sound data, Schalldaten, Ljuddata

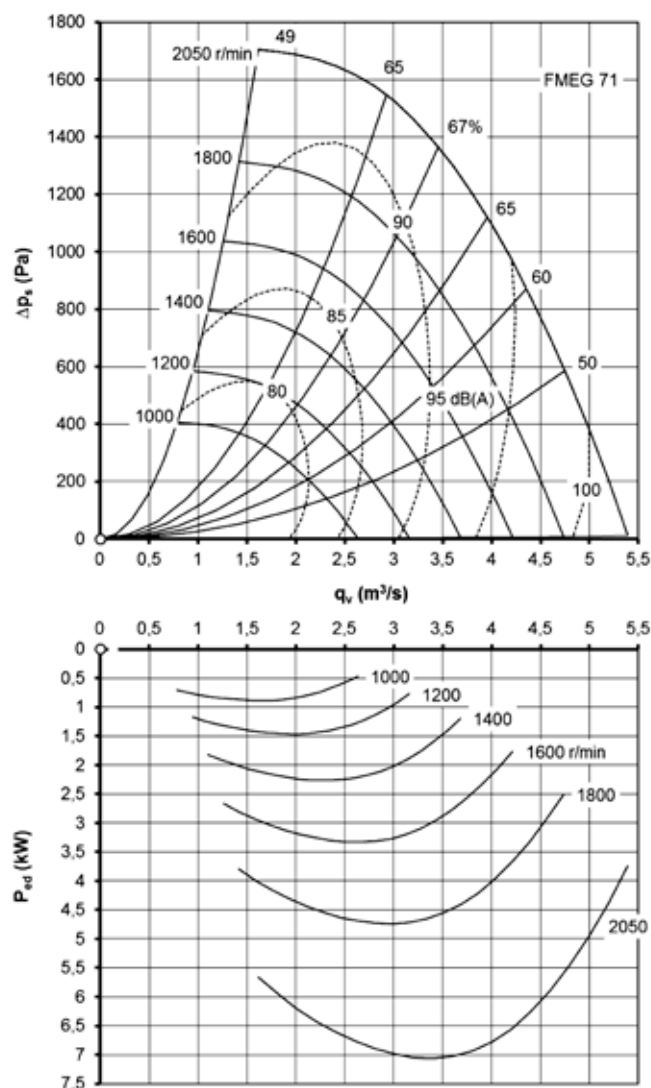
GPPM-1-00-056		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 1533	-15	-1	1	-2	-5	-11	-15	-16	0
	1534 - 2400	-19	-18	1	-2	-4	-11	-17	-19	0
To inlet An Eintritt Till inlopp s = 2	0 - 1533	-16	1	-3	-11	-13	-18	-20	-23	-6,5
	1534 - 2400	-25	-21	-7	-10	-12	-17	-22	-24	-7,6

Technical Data – GPPM-1-00-056-11-0 PM 7.5 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-056-11-0	APPM-21-0750-30-02	66,8	71,1	7,06	3,404	1387	2050

Sound data, Schalldaten, Ljuddata

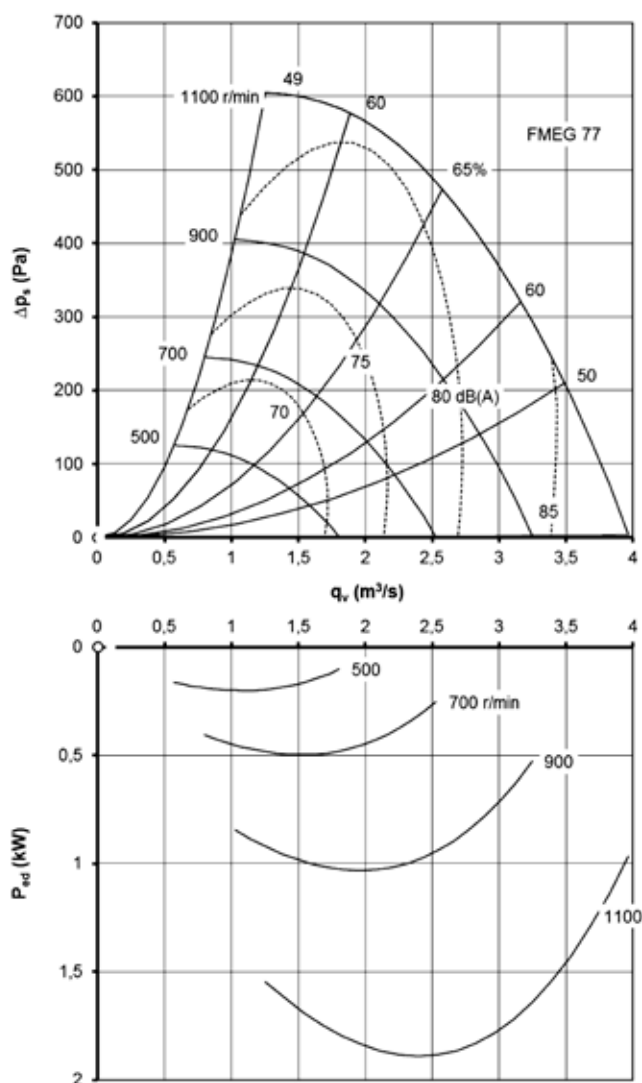
GPPM-1-00-056		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 – 1533 1534 – 2400	-15 -19	-1 -18	1 1	-2 -2	-5 -4	-11 -11	-15 -17	-16 -19	0 0
To inlet An Eintritt Till inlopp s = 2	0 – 1533 1534 – 2400	-16 -25	1 -21	-3 -7	-11 -10	-13 -12	-18 -17	-20 -22	-23 -24	-6,5 -7,6

Technical Data – GPPM-1-00-063-09-0 PM 2.2 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input Ped	Air flow Qv	Pressure	Speed
	FC101	%	N	kW	m³/s	psf	r/min
GPPM-1-00-063-09-0	APPM-11-0220-30-02	64,9	77	1,884	2,538	482	1100

Sound data, Schalldaten, Ljuddata

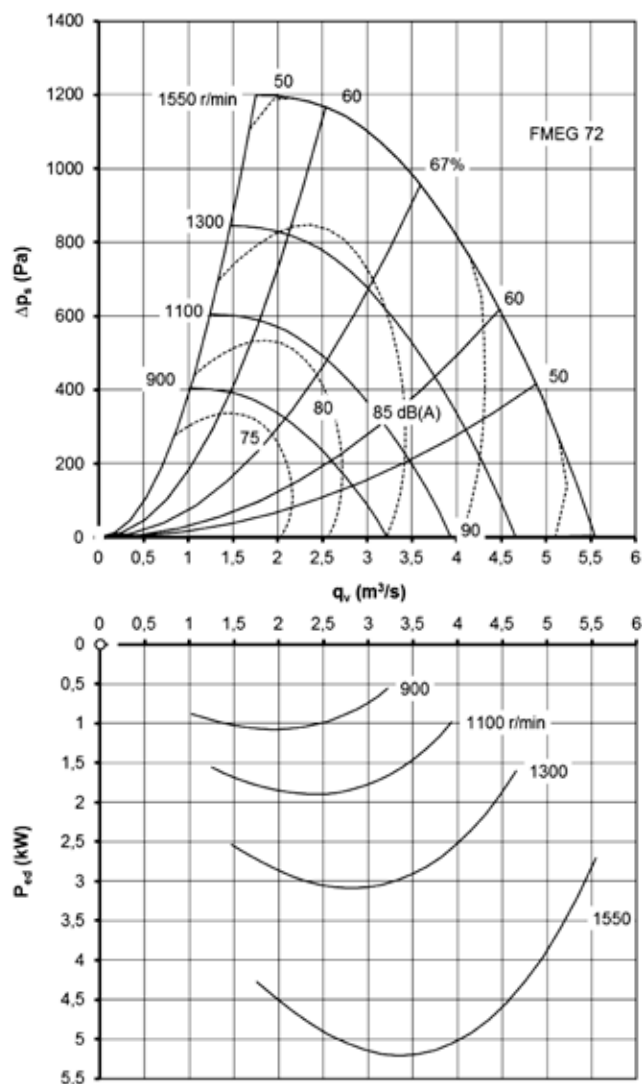
GPPM-1-00-063		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 766 767 - 1533 1534 - 2140	-4 -16 -20	-4 2 -11	-2 -1 0	0 -1 -1	-6 -5 -4	-12 -12 -13	-17 -15 -18	-18 -17 -20	0 0 0
To inlet An Eintritt Till inlopp s = 2	0 - 766 767 - 1533 1534 - 2140	-3 -12 -25	-6 -2 -14	-3 -5 1	-9 -9 -10	-14 -10 -11	-20 -18 -19	-22 -20 -23	-28 -23 -25	-6,9 -5,9 -5,1

Technical Data – GPPM-1-00-063-11-0 PM 5.5 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-063-11-0	APPM-16-0550-30-02	66,3	71,9	5,189	3,549	769	1550

Sound data, Schalldaten, Ljuddata

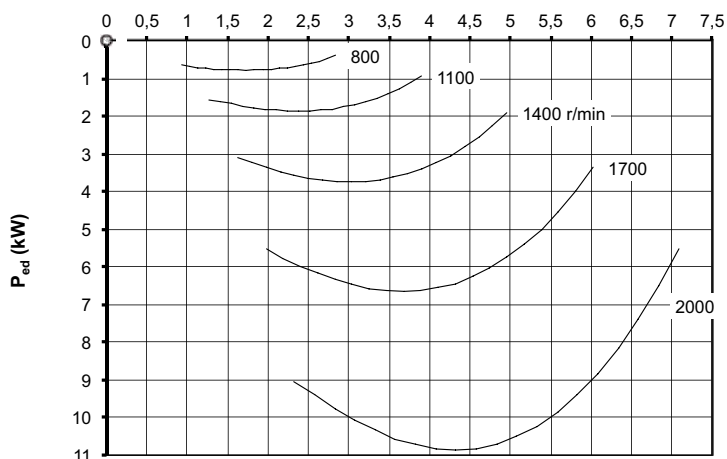
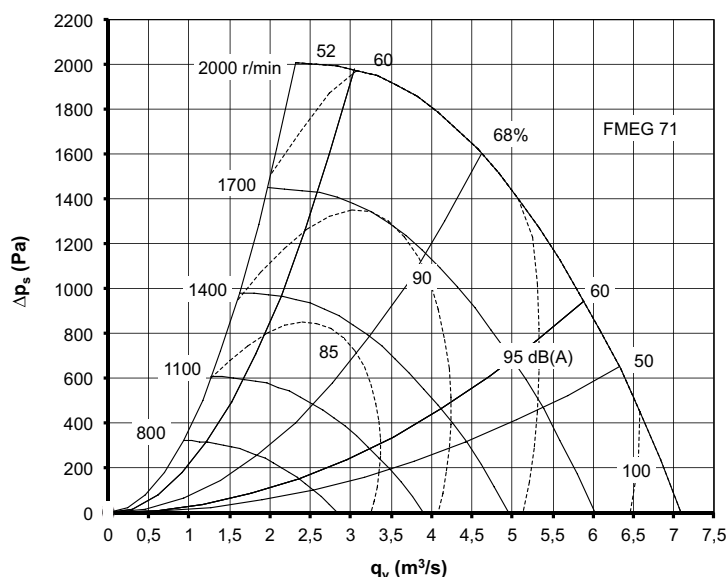
GPPM-1-00-063		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 – 766 767 – 1533 1534 – 2140	-4 -16 -20	-4 2 -11	-2 -1 0	0 -1 -1	-6 -5 -4	-12 -12 -13	-17 -15 -18	-18 -17 -20	0 0 0
To inlet An Eintritt Till inlopp s = 2	0 – 766 767 – 1533 1534 – 2140	-3 -12 -25	-6 -2 -14	-3 -5 1	-9 -9 -10	-14 -10 -11	-20 -18 -19	-22 -20 -23	-28 -23 -25	-6,9 -5,9 -5,1

Technical Data – GPPM-1-00-063-11-0 PM 11 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-063-11-0	APPM-20-1100-30-02	68,5	70,9	10,828	4,579	1620	2000

Sound data, Schalldaten, Ljuddata

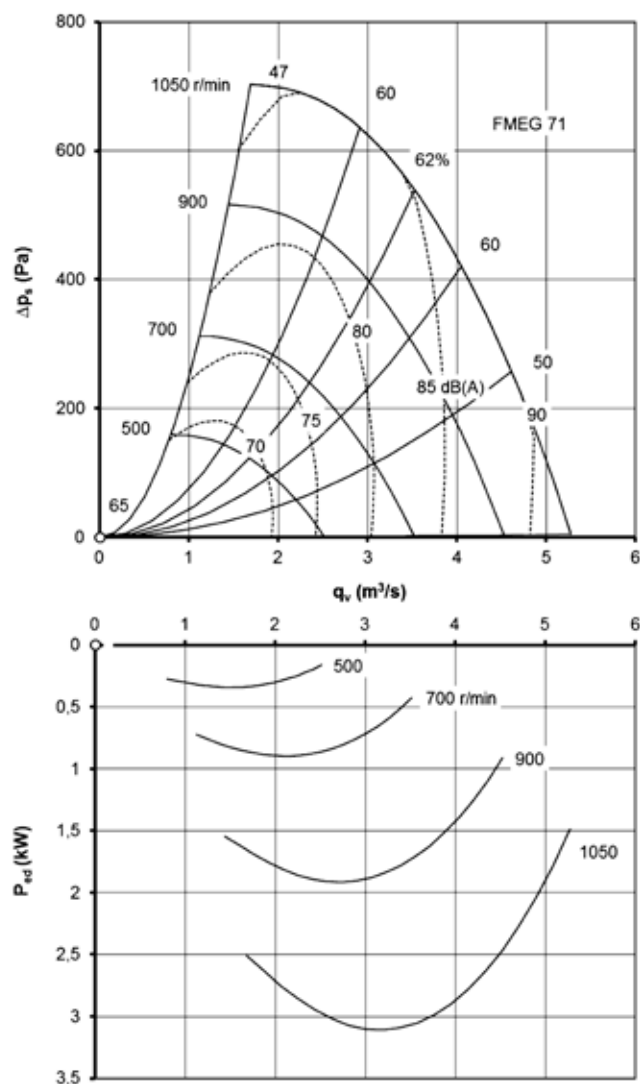
GPPM-1-00-063		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 766 767 - 1533 1534 - 2140	-4 -16 -20	-4 2 -11	-2 -1 0	0 -1 -1	-6 -5 -4	-12 -12 -13	-17 -15 -18	-18 -17 -20	0 0 0
To inlet An Eintritt Till inlopp s = 2	0 - 766 767 - 1533 1534 - 2140	-3 -12 -25	-6 -2 -14	-3 -5 1	-9 -9 -10	-14 -10 -11	-20 -18 -19	-22 -20 -23	-28 -23 -25	-6,9 -5,9 -5,1

Technical Data – GPPM-1-00-071-09-0 PM 3 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-071-09-0	APPM-10-0300-30-02	61,9	70,6	3,083	3,385	566	1050

Sound data, Schalldaten, Ljuddata

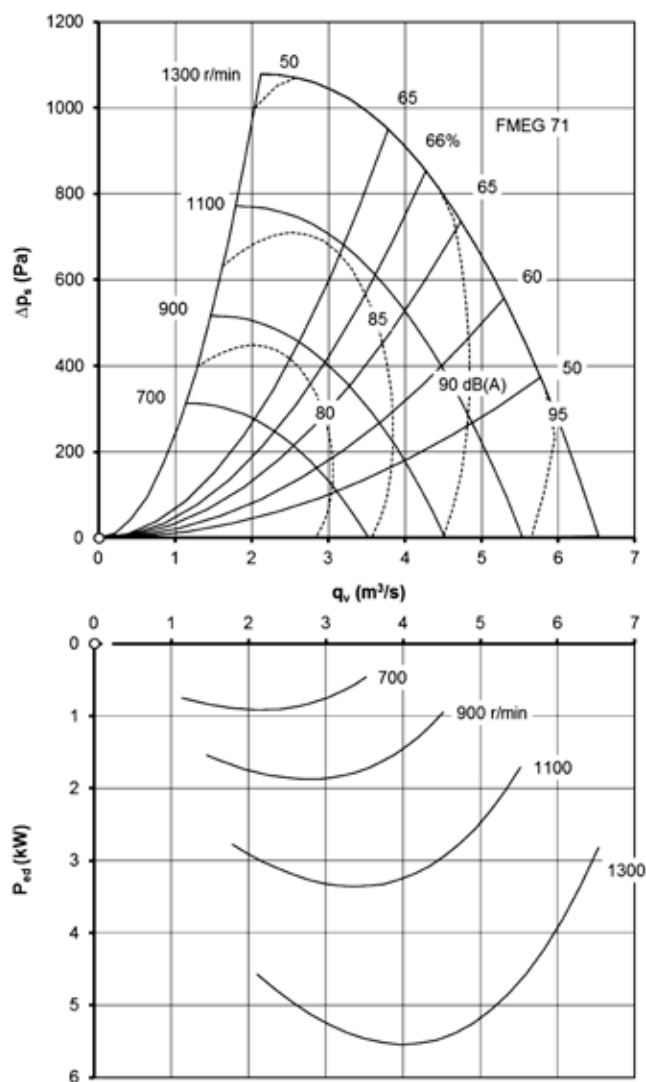
GPPM-1-00-071		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 766 0 - 1533 1534 - 1800	-3 -16 -24	-1 2 -12	0 0 1	0 -1 -1	-7 -5 -4	-11 -12 -13	-14 -15 -19	-16 -18 -22	0 0 0
To inlet An Eintritt Till inlopp s = 2	0 - 766 0 - 1533 1534 - 1800	4 -13 -23	-4 -1 -15	-9 -4 -10	-12 -9 -10	-14 -10 -11	-18 -17 -19	-20 -19 -24	-24 -22 -26	-8,7 -5,6 -7,7

Technical Data – GPPM-1-00-071-11-0 PM 5.5 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-071-11-0	APPM-13-0550-30-02	66	71,3	5,528	4,202	869	1300

Sound data, Schalldaten, Ljuddata

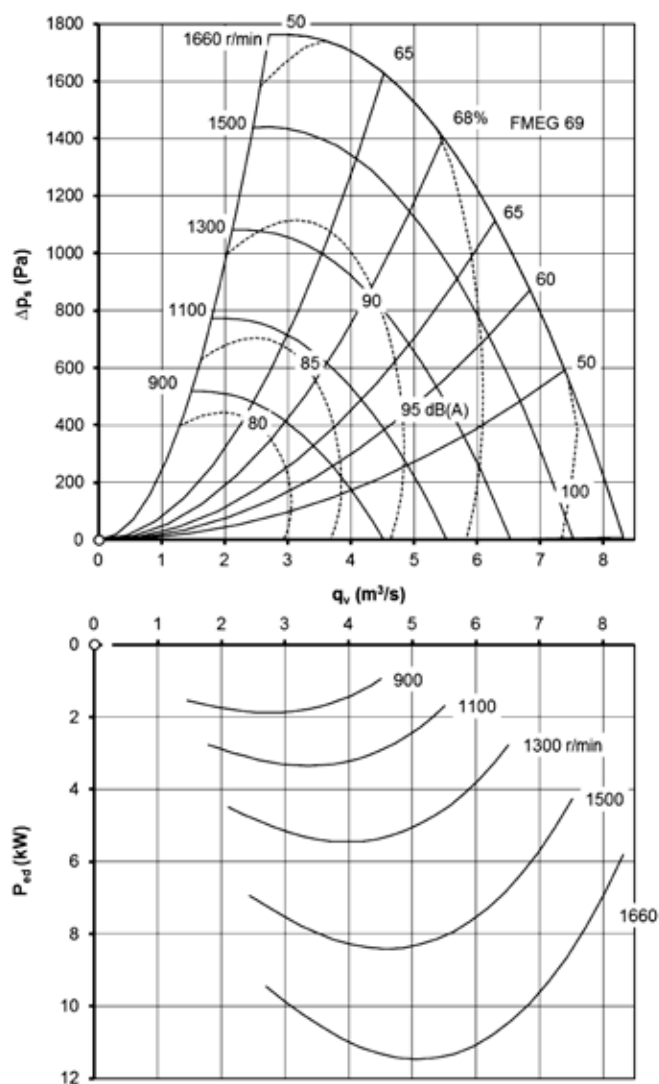
GPPM-1-00-071		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 766 0 - 1533 1534 - 1800	-3 -16 -24	-1 2 -12	0 0 1	0 -1 -1	-7 -5 -4	-11 -12 -13	-14 -15 -19	-16 -18 -22	0 0 0
To inlet An Eintritt Till inlopp s = 2	0 - 766 0 - 1533 1534 - 1800	4 -13 -23	-4 -1 -15	-9 -4 -10	-12 -9 -10	-14 -10 -11	-18 -17 -19	-20 -19 -24	-24 -22 -26	-8,7 -5,6 -7,7

Technical Data – GPPM-1-00-071-11-0 PM 11 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-071-11-0	APPM-16-1100-30-02	67,2	69,3	11,43	5,363	1432	1660

Sound data, Schalldaten, Ljuddata

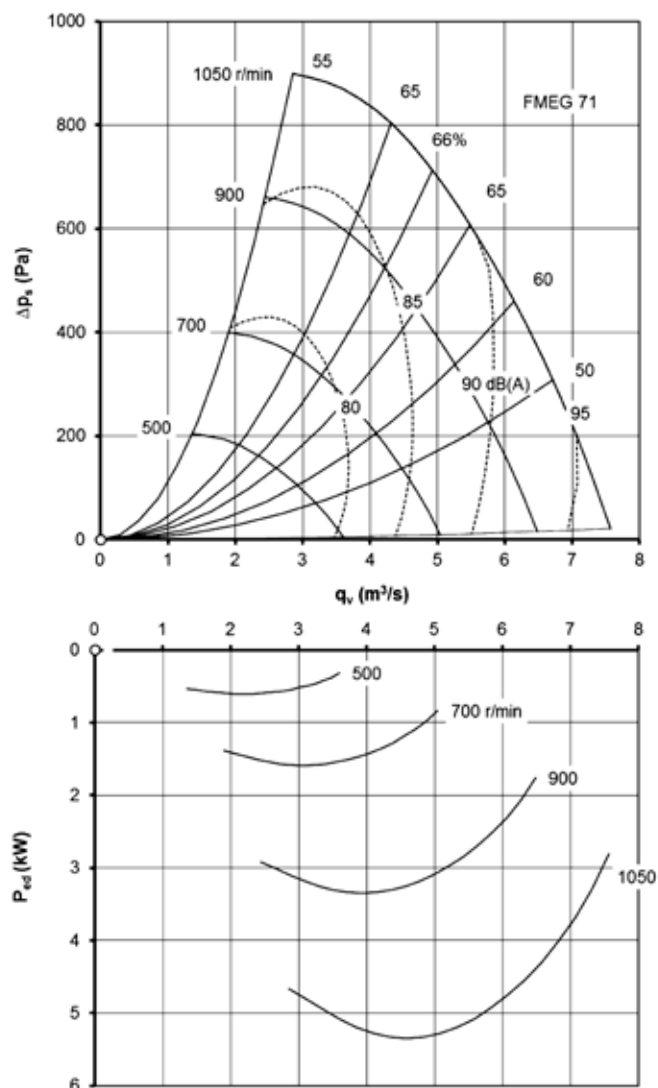
GPPM-1-00-071		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 – 766 0 – 1533 1534 – 1800	-3 -16 -24	-1 2 -12	0 0 1	0 -1 -1	-7 -5 -4	-11 -12 -13	-14 -15 -19	-16 -18 -22	0 0 0
To inlet An Eintritt Till inlopp s = 2	0 – 766 0 – 1533 1534 – 1800	4 -13 -23	-4 -1 -15	-9 -4 -10	-12 -9 -10	-14 -10 -11	-18 -17 -19	-20 -19 -24	-24 -22 -26	-8,7 -5,6 -7,7

Technical Data – GPPM-1-00-080-11-0 PM 5.5 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-080-11-0	APPM-11-0550-30-02	66	71,5	5,309	4,34	800	1050

Sound data, Schalldaten, Ljuddata

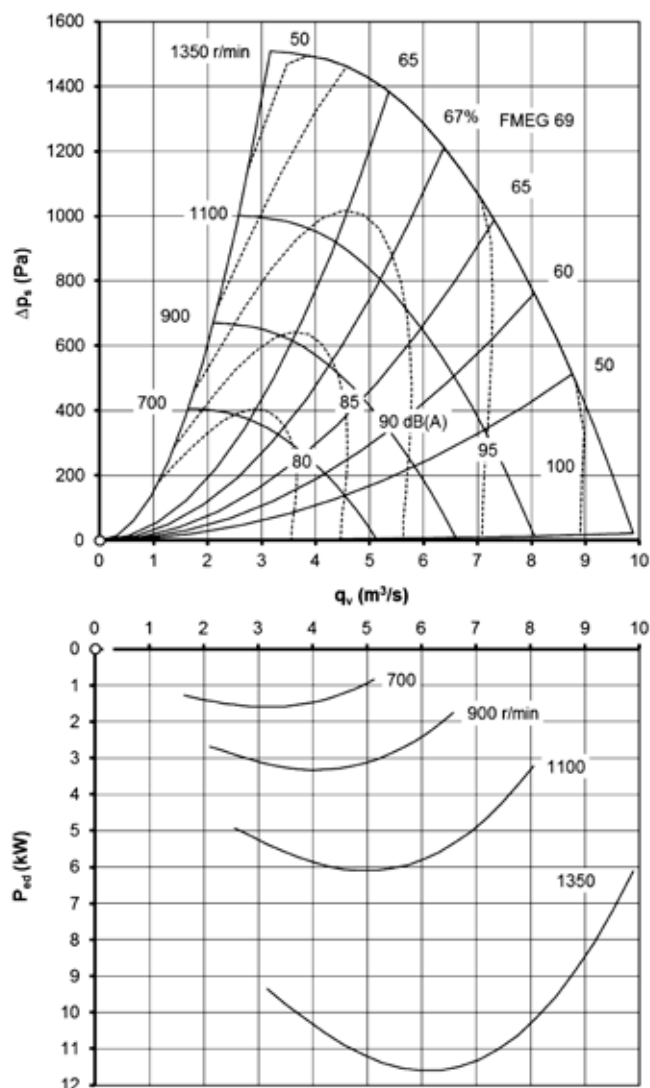
GPPM-1-00-080		Correction, Korrektur, Korrektion K _{Okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 766	-2	-1	2	0	-7	-13	-15	-17	0
	767 - 1520	-16	3	1	-1	-6	-12	-15	-19	0
To inlet An Eintritt Till inlopp s = 2	0 - 766	0	0	-7	-11	-13	-16	-20	-24	-7,4
	767 - 1520	-15	-1	-5	-10	-12	-17	-22	-24	-6,7

Technical Data – GPPM-1-00-080-13-0 PM 11 kW

Fan charts
Kennlinien
Fläkt diagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-080-13-0	APPM-13-1100-30-02	66,7	68,7	11,554	6,341	1220	1350

Sound data, Schalldaten, Ljuddata

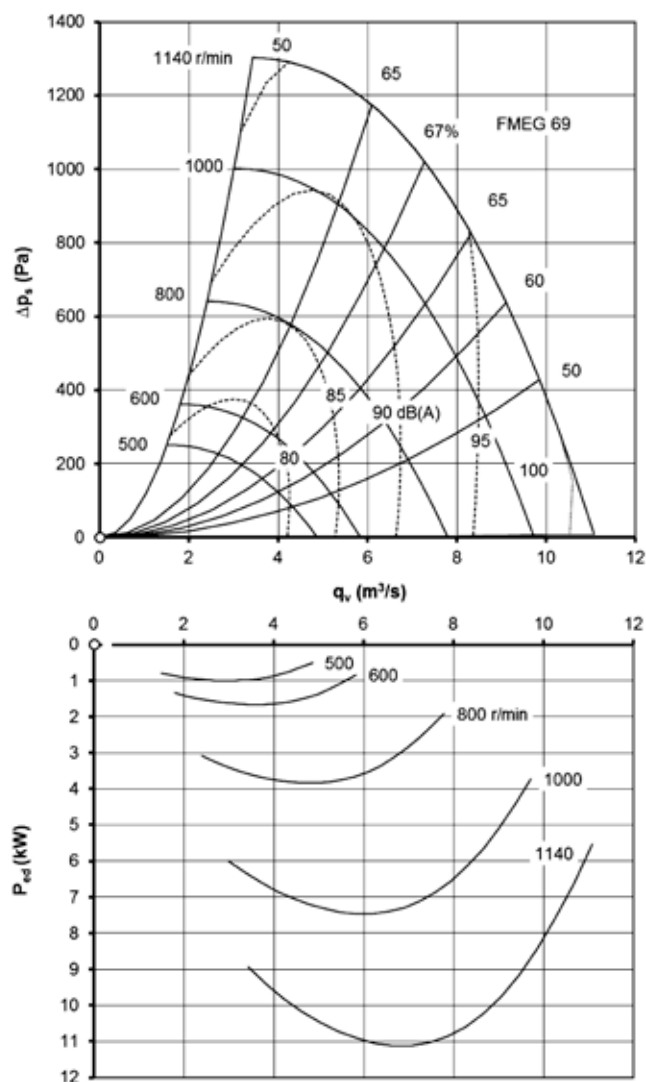
GPPM-1-00-080		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 766 767 - 1520	-2 -16	-1 3	2 1	0 -1	-7 -6	-13 -12	-15 -15	-17 -19	0 0
To inlet An Eintritt Till inlopp s = 2	0 - 766 767 - 1520	0 -15	0 -1	-7 -5	-11 -10	-13 -12	-16 -17	-20 -22	-24 -24	-7,4 -6,7

Technical Data – GPPM-1-00-090-13-0 PM 11 kW

Fan charts
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Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-090-13-0	APPM-11-1100-30-02	66,7	68,9	11,097	7,449	991	1140

Sound data, Schalldaten, Ljuddata

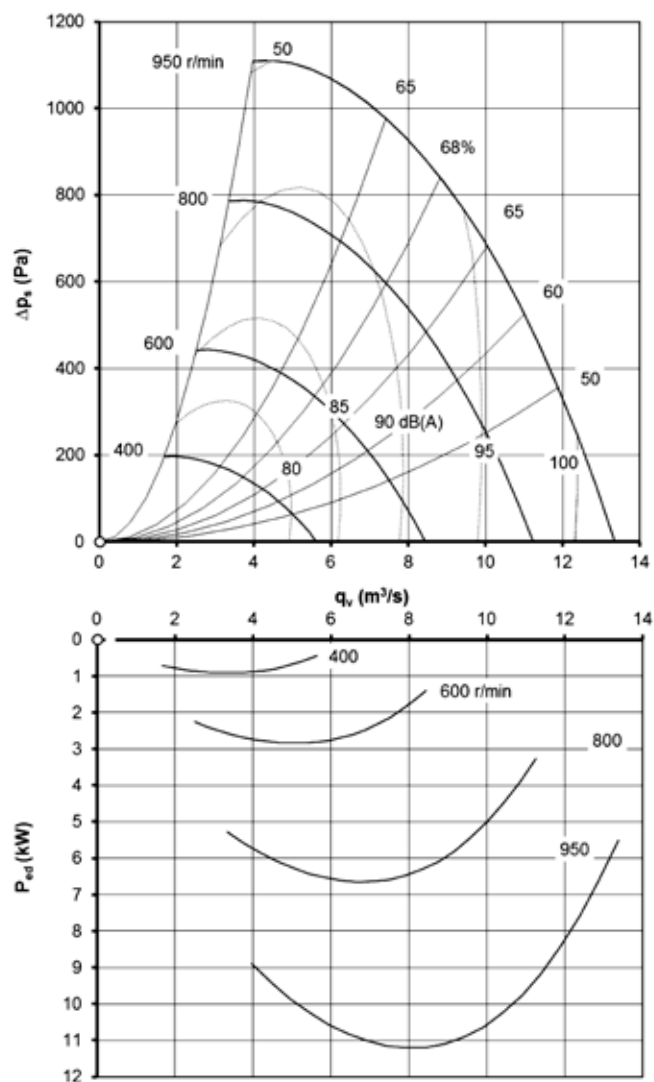
GPPM-1-00-090		Correction, Korrektur, Korrektion K _{okt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 766 767 - 1370	-4 -16	-1 -1	2 2	0 0	-8 -7	-14 -12	-19 -17	-22 -20	0 0
To inlet An Eintritt Till inlopp s = 2	0 - 766 767 - 1370	-2 -13	-2 -1	-9 -5	-13 -10	-16 -12	-21 -17	-26 -22	-30 -25	-10,2 -6,9

Technical Data – GPPM-1-00-100-13-0 PM 11 kW

Fan charts
Kennlinien
Fläktdiagram

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes



Fan code	Motor code	Overall efficiency	Efficiency grade	Power input	Air flow Qv	Pressure	Speed
	FC101	%	N	Ped kW	m³/s	psf	r/min
GPPM-1-00-100-13-0	APPM-09-1100-30-02	66,7	68,9	11,097	8,916	830	950

Sound data, Schalldaten, Ljuddata

GPPM-1-00-100		Correction, Korrektur, Korrektion K _{0kt} , dB								ΔL
Sound path Schallweg Ljudväg (s)	Speed range Drehzahlbereich Varvtalsområde r/min	Octave band, mid-frequency, Oktavband, Mittenfrequenz, Oktavband, centerfrekvens, Hz								
		63	125	250	500	1000	2000	4000	8000	
To outlet An Austritt Till utlopp s = 1	0 - 766 767 - 1150	-4 -16	-1 -1	2 2	0 0	-8 -7	-14 -12	-19 -17	-22 -20	0 0
To inlet An Eintritt Till inlopp s = 2	0 - 766 767 - 1150	-2 -13	-2 -1	-9 -5	-13 -10	-16 -12	-21 -17	-26 -22	-30 -25	-10,2 -6,9

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