

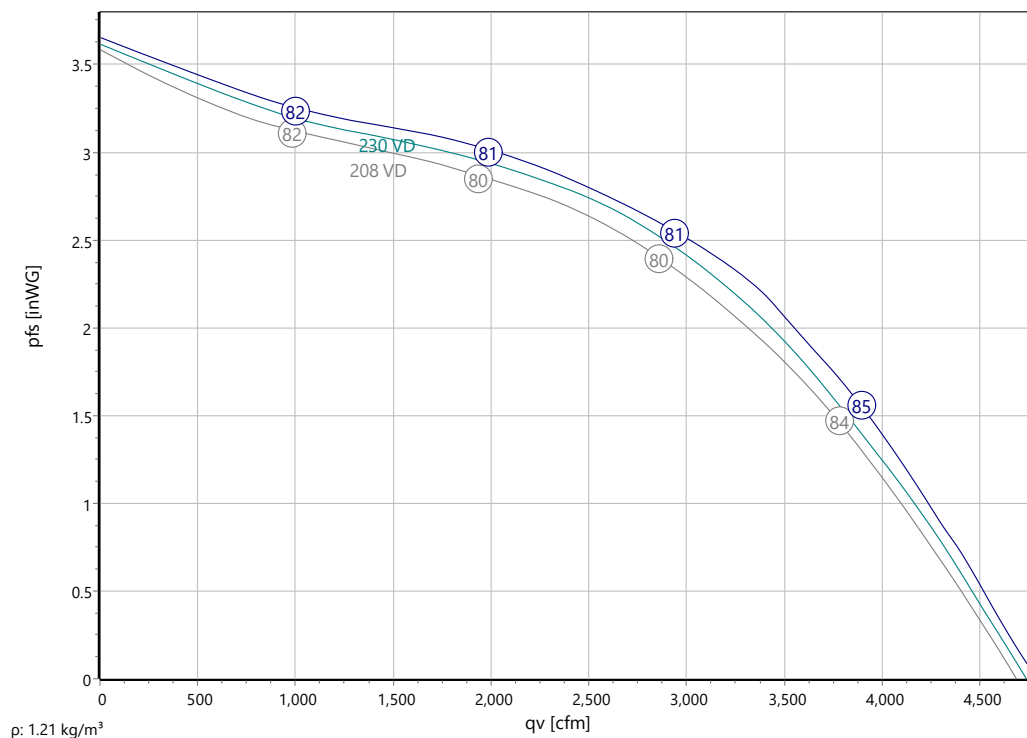


Type: **DKHM 450-4SW.138.6HF**

Module Classic

Part no.: N73-45044

Curve:



Nominal Data:

ΔI 17 %

U [V]	f [Hz]	C [μF]	P _e [kW]	I _N [A]	n _N [r/min]	t _R [°C]	k ₁₀ [m²s/h]	I _A / I _N	IP	m [kg]
208 D	60	-	1.6	5.4	1660	-25 .. +60	-	6.2	IP 54	33.9
460 Y			1.79	3.4	1710					

Sound Data:

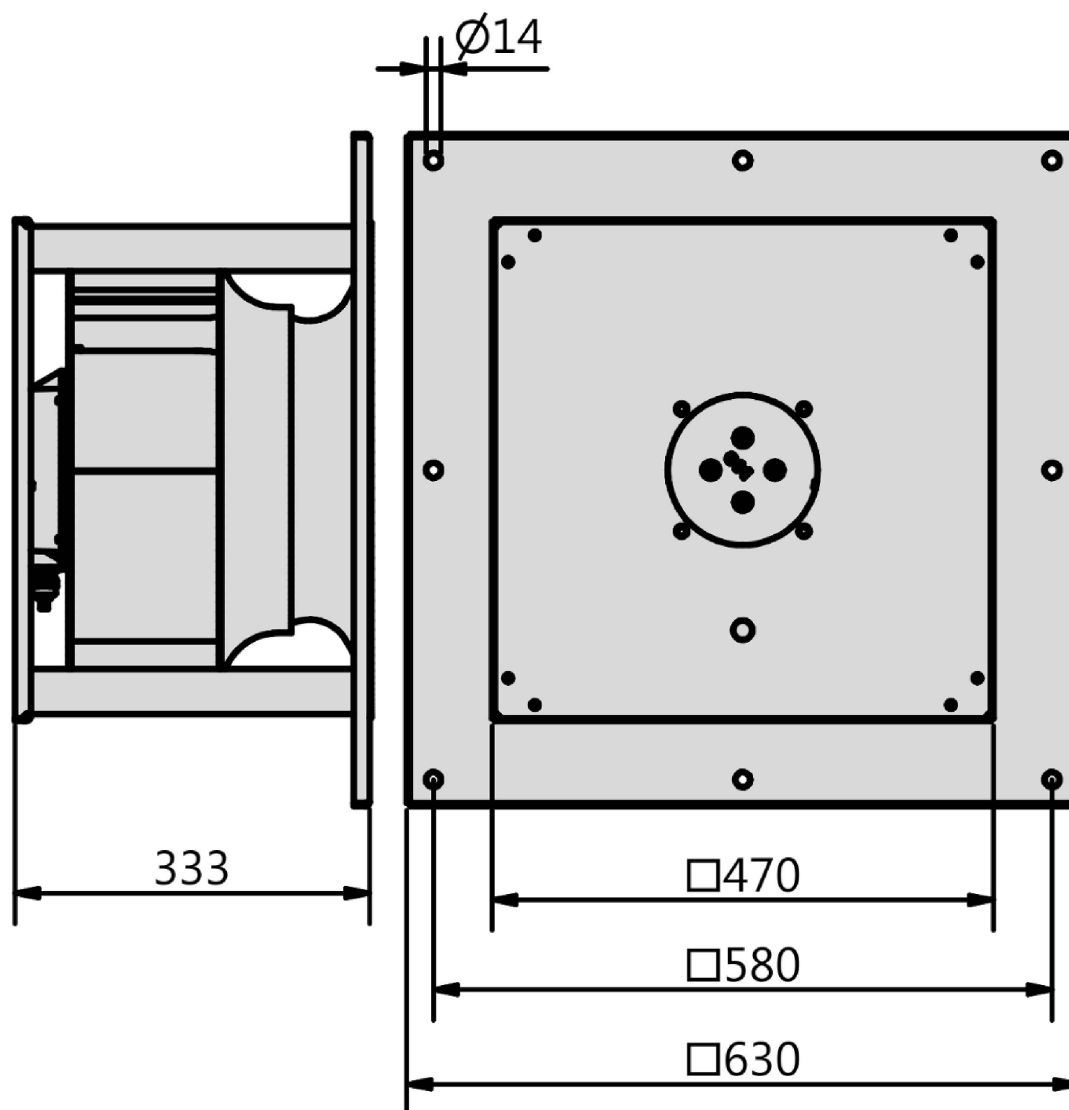
Frequency	Σ		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Distances	1 m	4 m
LwA(A,in) [dB(A)]		-	-20	-9	-5	-6	-7	-11	-19	LpA(A,in) [dB(A)]	-7	-17
LwA(A,out) [dB(A)]	6	-	-13	-3	0	1	-1	-5	-14	LpA(A,out) [dB(A)]	-1	-11



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TK3-20076

Drehstrommotor mit einer Drehzahl und Thermoschalter (TB).
Drehrichtungsänderung durch Vertauschen von 2 Phasen.

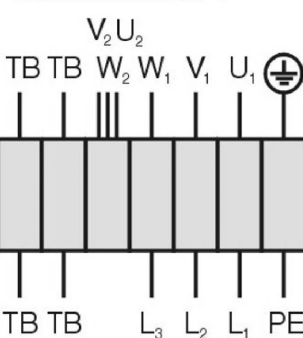
Three phase single speed motor with thermostatic switch (TB). Changing of rotation direction by interchanging of 2 phases.

Moteurs triphasés avec une vitesse de rotation et de commutateurs thermiques (TB). Modification du sens de rotation par la confusion des 2 phases.

Y - Schaltung

Y - connection

Commutation Y

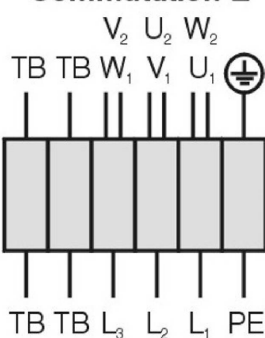


01.425

Δ - Schaltung

Δ - connection

Commutation Δ

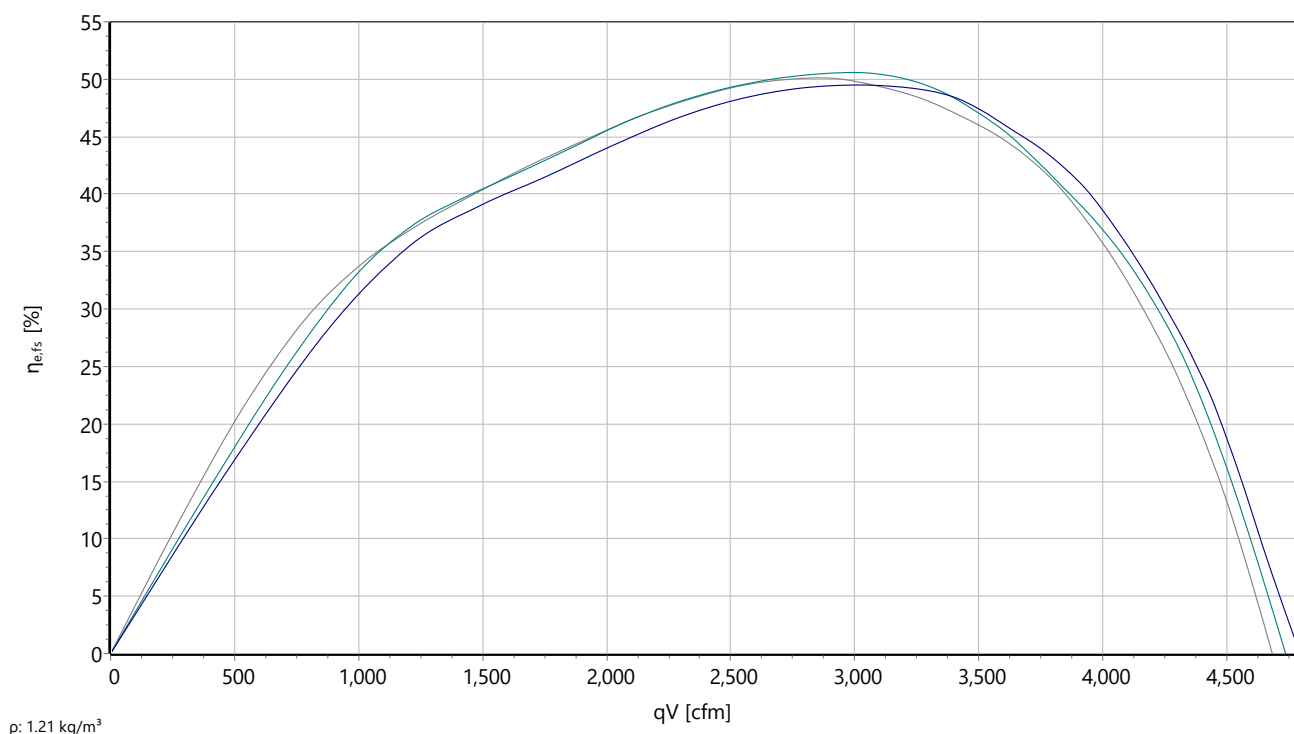


U₁ braun / brown / brun
 V₁ blau / blue / bleu
 W₁ schwarz / black / noir
 U₂ rot / red / rouge
 V₂ grau / grey / gris
 W₂ orange / orange / orange
 TB weiß / white / blanc
 PE gelb-grün / yellow-green / jaune-vert

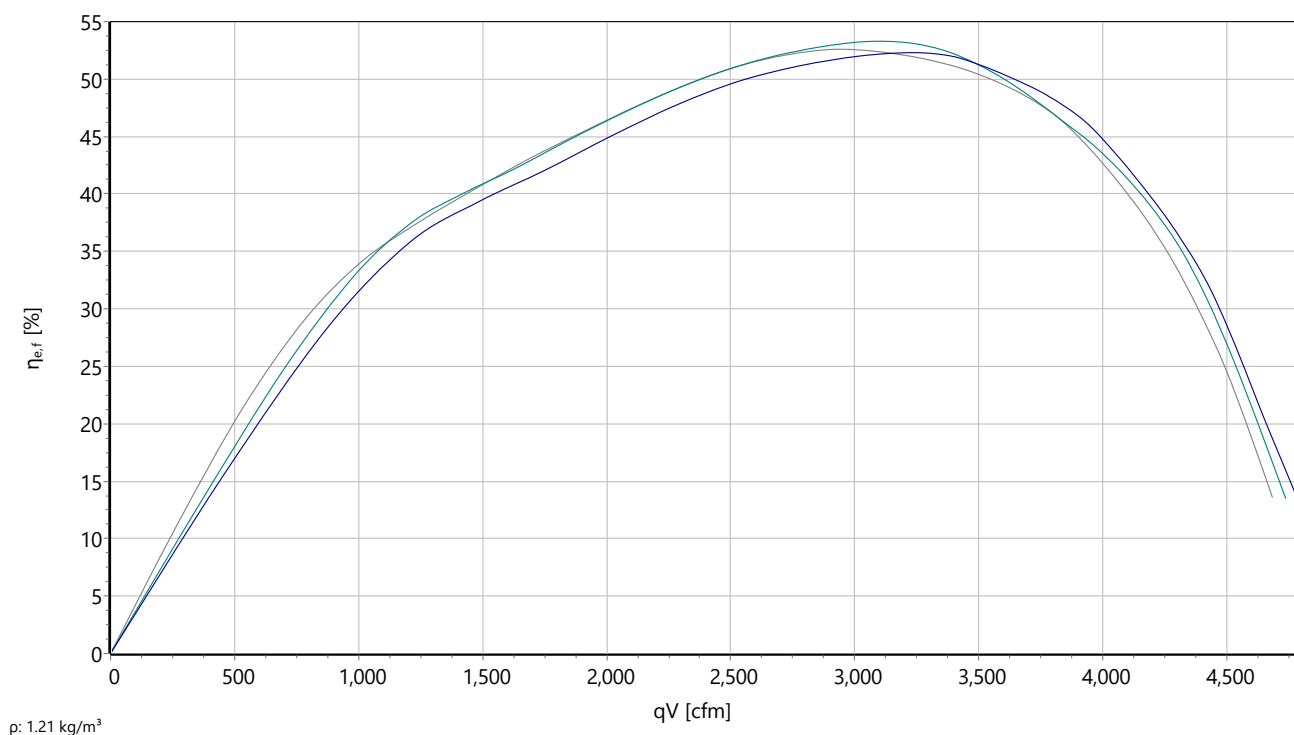


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stat. Efficiency



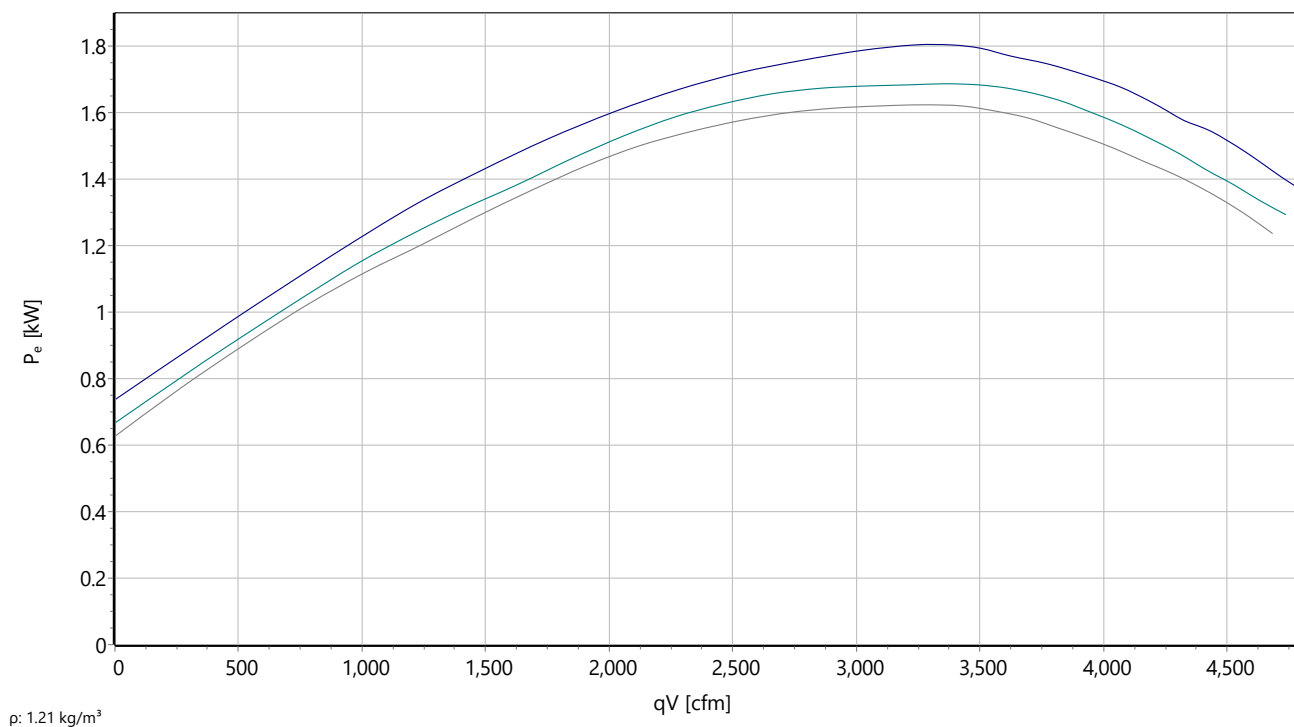
tot. Efficiency



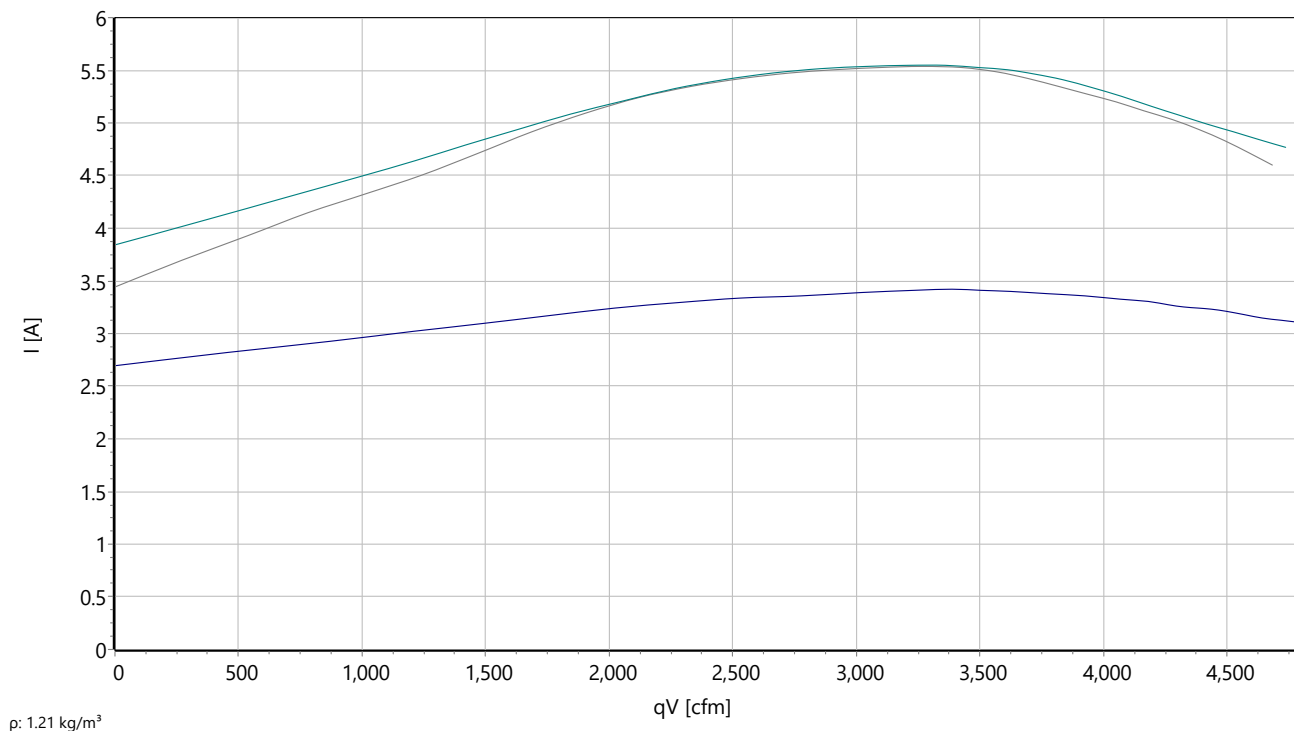


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Input power



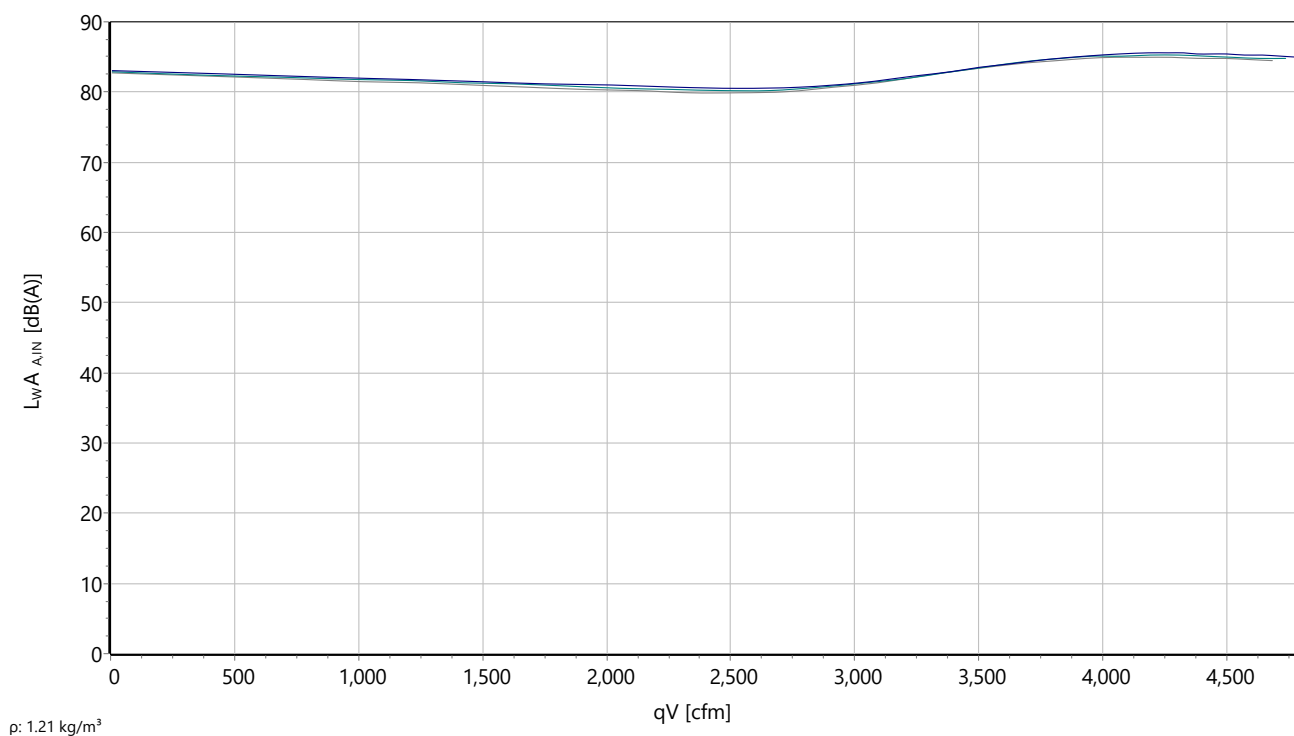
Current



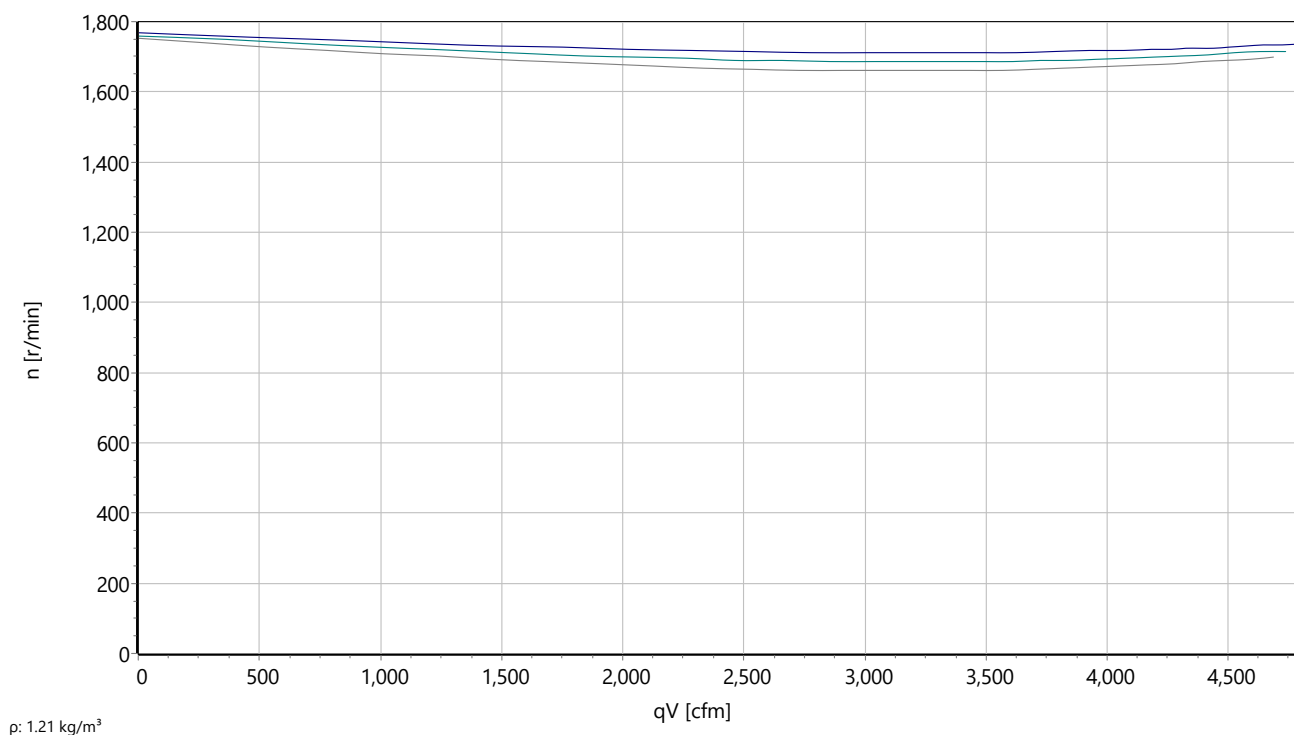


Type: **DKHM 450-4SW.138.6HF**
 Module Classic
 Part no.: N73-45044

Sound power



Speed



AC-Plug Fan

with backward curved impeller

Impeller made of aluminum (AlMg3) with 8 backward curved blades. Compact and flexible design. Fluidic optimized inlet cone made of galvanised sheet steel. Designed as a ring measuring line with a pressure measuring connection.

Compact, weight-reduced fan module "Classic". Consisting of motor, impeller, nozzle and module construction. Motor and nozzle support plate made of galvanized sheet steel with aluminium retaining profiles. Plug & Play. Extra coating on request. Suitable for installation in any position. Motorized Impeller statically and dynamically balanced according to DIN ISO 21940-11 at least with quality level G6.3. Voltage controllable AC external rotor motor. Maintenance free ball bearings, closed on both sides with long-term lubrication. Motor coated black and/or die casted aluminum. Standard configuration with cable. Motor protection is guaranteed by thermal contacts, which are inlaid into the motor windings. These contacts protect the motor from being overloaded through phase failure, too high medium temperature or locked rotor. Isolation Class F.

The Fan complies with the guidelines required (Machinery -, EMC- and Low Voltage Directive) to comply with installation and conformity declaration as well as CE marking. Motor complies to UL 1004 -1.

Nominal Data:

Voltage [U]

208 D / 460 Y V

Frequency [f]

60 Hz

Input power [P]

1.6 / 1.79 kW

Current [I]

5.4 / 3.4 A

Speed [n]

1660 / 1710 r/min

Medium temperature [tR]

60 °C

Protection Mode

IP 54

Weight [m]

33.9 kg

Dimensions [L / W / H]

630 mm / 630 mm / 333 mm

Contact:

Rosenberg Ventilatoren GmbH

Maybachstraße 1

D - 74653 Künzelsau - Gaisbach

www.rosenberg-gmbh.com

Type:

DKHM 450-4SW.138.6HF

Article-No.:

N73-45044

D/EKH... - Plug Fan

with AC-Motor and W-Impeller

- different mechanical configurations available
- wide range of voltage- and frequency-controlled configurations
- maintenance free operation through lifetime lubricated ball bearings



Description:

Rosenberg AC-Radial fans in combination with a voltage -controllable external -rotor motor form a very compact, efficient and optimized fan unit. They impress with low installation depth and a simple installation. Fast start-up is ensured because of well-integrated components.

Applications:

Filtration / Railway* / Compressor

*Due to the diverse requirements in rail technology, the usability must be agreed with Rosenberg in advance (railway@rosenberg-gmbh.com).

Mechanical Configuration:

Plug fans, in dependence of the fan type, are available in different mechanical designs. Mounting either with horizontal or vertical motor shaft.

_KHR, RRE	= Motorized Impeller (Inlet Cone Accessory)
_KHM, RRM	= Fan Module type "Classic" cone and supporting frame included
_KHC	= Fan Module type "Slim" cone and supporting frame included
_KHQ	= Fan Module type "Qube" cone and supporting frame included
_KHD	= Module with forwarding device "High Performance"

Impeller:

Impeller made of aluminum (AlMg3) with 8 backward curved blades. Compact and flexible design.

Product range: 225, 250, 280, 315, 355, 400, 450, 500, 560, 630 and 710 mm.

Motors:

The voltage controllable AC -motors are characterized by a compact, robust design and a good controlling behaviour in combination with Variable Frequency Drives (VFD) or a transformer.

UL-Permit:

For 60Hz Types (possible on request)

Motor Protection:

The motor protection with Rosenberg AC -motors is provided by thermal contacts put into the windings of the motor. When properly connected these protect the motor from overloading due to phase failure, excessive medium temperature or blocked rotor. If an external evaluation of the thermal contacts is required, we recommend Rosenberg motor protection devices, which are available in various versions as accessories.

Electrical connection:

The electrical connection is made via cables from the motor.

Air volume control:

For more information see accessories.

5-Step Controlling:

via transformer (RTE, RE, RTD)

Infinitely variable controlling:

via Variable Frequency Drive (VFD)

IMPORTANT NOTES:

Air performance curves:

The air performance curves have been established using the intake test method in the test chamber according to DIN EN ISO 5801. They show pressure increase as a function of the volume flow. Performance curves were recorded in installation type A.

Sound levels:

The tests and their performance curves were conducted according to DIN 45635 part 38 or. ISO 133347 -3 and DIN EN ISO 3744/ 3745 in accordance with the envelope surface method.

Erp-Information:

Rosenberg fans have a specific (pressure-) ratio $< 1,05$ (pressure < 5000 Pa).

Service life:

For maximum service life of Rosenberg products please beware of the maintenance hints on the manual for each product type.

Recycling and disposal:

For recycling and disposal of Rosenberg products comply with applicable locally requirements and regulations.