

Kanalventilatoren

- direktgetrieben

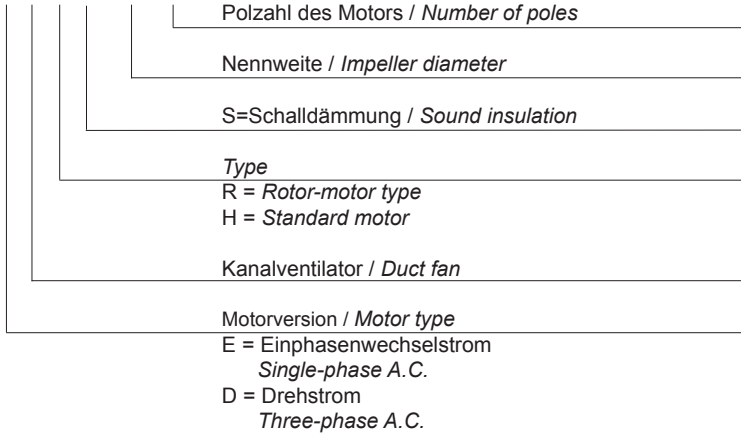
Duct Fans

- direct driven

Typenschlüssel

Fan type code

E K H S 315-4



Relativer A-bewerteter OktavSchalleistungspegel

Relative octave sound power level A-weighted

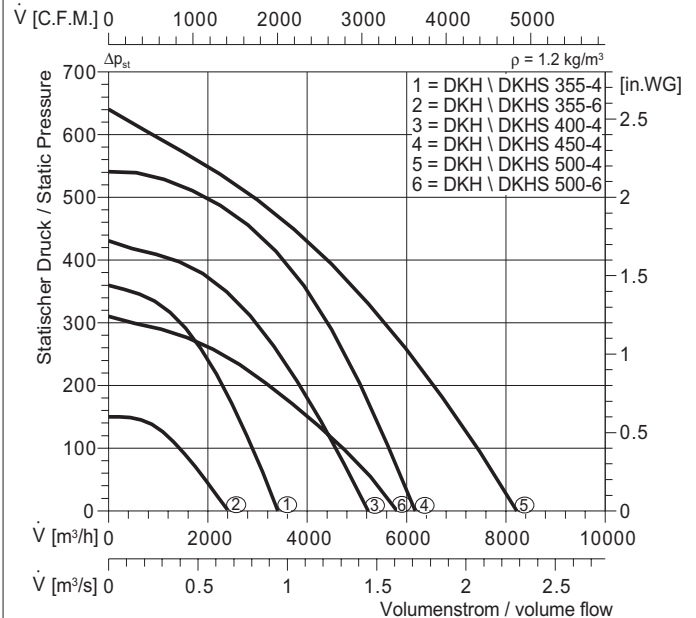
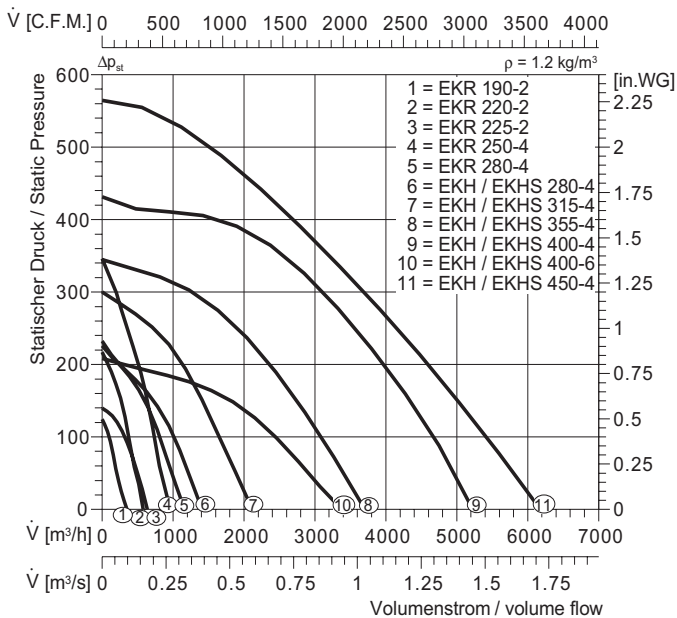
f_M [Hz]		L _{WA}	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
280/315/355	L _{WA6rel} [dB] Ausblasseite Outlet side	0	-20	-11	-6	-4	-7	-13	-19
	L _{WA5rel} [dB] Ansaugseite Inlet side	-3	-16	-10	-10	-7	-8	-14	-21
	L _{WA2rel} [dB] Gehäuseabstr. EKH/DKH Casing EKH/DKH	-17	-26	-21	-24	-23	-30	-40	-43
	L _{WA2rel} [dB] Gehäuseabstr. EKHS/DKHS Casing EKHS/DKHS	-25	-34	-29	-32	-31	-38	-48	-51
400/450	L _{WA6rel} [dB] Ausblasseite Outlet side	0	-16	-10	-6	-5	-6	-13	-22
	L _{WA5rel} [dB] Ansaugseite Inlet side	-3	-18	-13	-12	-9	-7	-14	-21
	L _{WA2rel} [dB] Gehäuseabstr. EKH/DKH Casing EKH/DKH	-17	-22	-20	-24	-24	-29	-40	-46
	L _{WA2rel} [dB] Gehäuseabstr. EKHS/DKHS Casing EKHS/DKHS	-25	-30	-28	-32	-32	-37	-48	-54
500	L _{WA6rel} [dB] Ausblasseite Outlet side	0	-16	-8	-6	-5	-8	-14	-23
	L _{WA5rel} [dB] Ansaugseite Inlet side	-3	-17	-11	-11	-8	-9	-15	-21
	L _{WA2rel} [dB] Gehäuseabstr. EKH/DKH Casing EKH/DKH	-17	-22	-18	-24	-24	-31	-41	-47
	L _{WA2rel} [dB] Gehäuseabstr. EKHS/DKHS Casing EKHS/DKHS	-25	-30	-26	-32	-32	-39	-49	-55

Schnellauswahl

Quick selection

230 V, 1AC, 2- 4- 6-pole

400 V, 3AC, 4- 6-pole





EKR, EKH, EKHS, DKH, DKHS

Vorteile:

- schnelle Montage an 20 mm Normflansch
- in allen Einbaulagen einsetzbar
- einfacher elektrischer Anschluß durch außenliegenden Klemmkasten in Schutzart IP54 (bei explosionsgeschützter Version mit ausgeführten Kabeln)
- transformatorisch und elektronisch 100 % steuerbar
- serienmäßig mit Motorvollschutz durch Thermokontakte ausgerüstet (bei Ex-Motoren mit Kaltleitern)
- extrem niedriger Anlaufstrom
- kompakte, raumsparende Bauart

Eigenschaften und Ausführung:

Der Kanalventilator vereinigt die Vorteile des Axialventilators - die gerade Durchströmung - mit der hohen Druckstabilität, dem niedrigen Schallniveau und dem ausgezeichneten Wirkungsgrad des Radialventilators.

Gehäuse:

- EKH, DKH - Gehäuse aus verzinktem Stahlblech als rechteckiger Luftkanal ausgebildet, mit Norm-Luftkanalflanschen (20mm breit) druck- und saug-seitig.
- EKHS, DKHS - Die Paneele werden aus verzinktem Stahlblech mit schallabsorbierenden Acrylnitril-Butadien-Kautschuk isoliert gemacht.

Laufrad

EKH/DKH - Rückwärts gekrümmte Radiallaufräder aus Stahlblech.

Die Laufräder sind direkt auf die Rotoren der Außenläufermotoren aufgebaut und zusammen mit diesen entsprechend Gütestufe G 2,5 nach DIN ISO 1940 auf zwei Ebenen gewuchtet.

Elektrischer Anschluß

Die Motoren sind auf einen außen am Gehäuse angebrachten Klemmkasten verdrahtet.

Luftleistungskennlinien

Die Kennlinien für diese Typenreihe wurden mit einem saugseitigen Kammerprüfstand entsprechend der AMCA 210 in Einbauart D (saugend angeschlossen, druckseitig angeschlossen) aufgenommen und zeigen die Gesamtdruckserhöhung Δp_{st} als Funktion des Volumenstroms. Der Luftgeschwindigkeit im Ventilator c (m/s) ist auf den Flanschquerschnitt des Ventilatorgehäuses bezogen.

Schallentwicklung

In den Luftleistungskennlinien ist der A-bewertete Freiausblas-Schallleistungspegel L_{WA6} angegeben. Der A-bewertete Freiausaug-Schallleistungspegel L_{WA5} nach AMCA 300 kann über die relativen Schalleistungspegel genau ermittelt werden, oder nach folgender Berechnung näherungsweise bestimmt werden:

$$L_{WA5} \approx L_{WA6} - 3 \text{ dB(A)}$$

Der A-bewertete Gehäuse-Schalleistungspegel L_{WA2} nach DIN 45 635, Teil 38 kann über die relativen Schalleistungspegel genau ermittelt werden, oder nach folgender Berechnung näherungsweise bestimmt werden:

$$L_{WA2} \approx L_{WA6} - 17 \text{ dB(A)} \text{ - für EKH oder DKH}$$

$$L_{WA2} \approx L_{WA6} - 25 \text{ dB(A)} \text{ - für EKHS oder DKHS}$$

Den A-bewerteten Schalldruckpegel L_{PA} in 1m Abstand erhält man annähernd, indem man vom A-Schalleistungspegel 7 db(A) abzieht:

$$L_{PA(1m)} \approx L_{WA2} - 7 \text{ dB(A)}$$

Zu beachten ist, dass Reflexionen und Raumcharakteristik sowie Eigenfrequenzen die Größe des Schalldruckpegels unterschiedlich beeinflussen.

Advantages:

- easy installation via 20 mm standard flange
- fans can be installed in any position
- simple electrical connection via terminal box fitted to the outside, terminal box in protection class IP 54 (explosion-proof executions with wires led to the outside)
- 100% speed controllable by auto transformer or electronic controller
- motor protection by thermal contacts as standard (Explosion-proof motors with PTC thermistors)
- extremely low starting currents
- compact design

Design features:

Duct fans combine the advantages of axial fans, straight airflow and easy installation, with those of centrifugal fans, such as high pressure stability, low noise level and high efficiency.

Casing:

- EKH, DKH - Casing made of galvanised sheet steel formed as a rectangular air duct, with standard tube flanges (20 mm width) at inlet and outlet sides.
- EKHS, DKHS - Panels are made from galvanised sheet steel insulated with sound absorbing acrylonitrilebutadiene rubber.

Motorized impeller

EKH/DKH - Backward-curved radial centrifugal made of sheet steel.

EKR - Backward-curved radial centrifugal made of galvanized plate, impellers are fitted directly onto the rotor of the external rotor motor. All impellers are balanced at two levels according to G 2.5 (DIN ISO 1940).

Electrical connection

The motors are wired to an external terminal box.

Fan Performance Curves

The performance curves of these fans have been established using a test chamber according to AMCA 210, mounting position D (connected at both sides). The curves indicate the static pressure increase Δp_{st} as a function of the volume flow. The outlet velocity increase c (m/s) shown in the performance curves refers to the flange cross-sectional area of the fan housing.

Sound levels

The figures given in the performance curves represent the A-weighted sound power levels L_{WA6} in decibel at the outlet side in duct systems. The A-weighted sound power level at the inlet side L_{WA5} , according to AMCA 300, can be calculated via the relative sound power levels or can be obtained by the following approximation calculation:

$$L_{WA5} \approx L_{WA6} - 3 \text{ dB(A)}$$

The A-weighted sound power level radiated from the casing L_{WA2} , according to DIN 45 635, part 38, can be calculated via the relative sound power levels (see below) or is obtained approximately as follows:

$$L_{WA2} \approx L_{WA6} - 17 \text{ dB(A)} \text{ - for EKH or DKH}$$

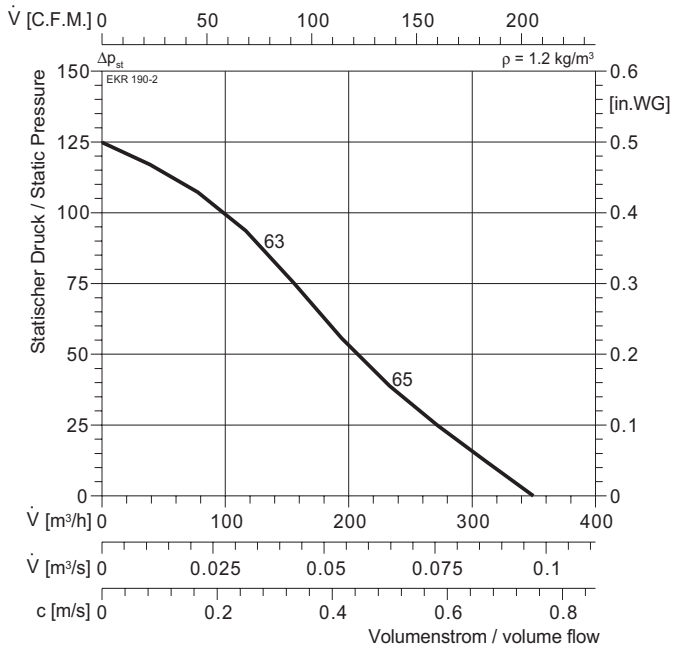
$$L_{WA2} \approx L_{WA6} - 25 \text{ dB(A)} \text{ - for EKHS or DKHS}$$

The A-weighted sound pressure level L_{PA} at a distance of 1 metre is obtained approximately by deducting 7 dB(A) from the A-weighted sound power level:

$$L_{PA(1m)} \approx L_{WA2} - 7 \text{ dB(A)}$$

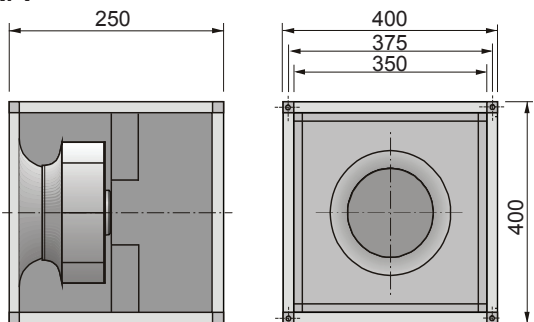
It is important to note that reflexion and environmental characteristics as well as resonant frequencies influence the sound pressure levels in different ways.

EKR 190-2



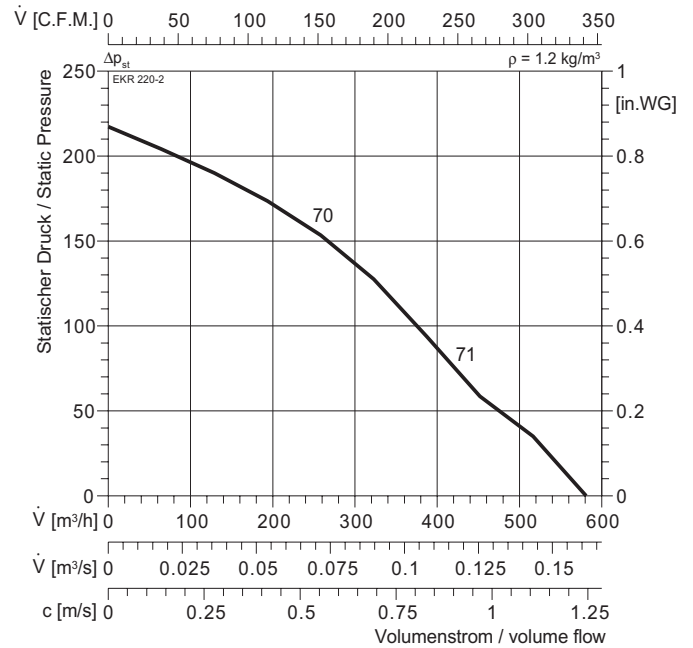
Typ :	EKR 190-2		IP 54	$L_{WA,rel}$ ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :			E11	$L_{WA,tot}$	-20	-1	0
	6,8 kg		GS 1	125 Hz	-28	-13	-12
U :	230 V 50 Hz		NE 0,5	250 Hz	-31	-5	-4
P_1 :	0,07 kW		RPE 02	500 Hz	-27	-6	-5
I_N :	0,3 A			1 kHz	-27	-13	-12
n :	2450 min ⁻¹			2 kHz	-26	-10	-9
C_{400V} :	2 μF			4 kHz	-31	-21	-20
t_R :	40 °C			8 kHz	-37	-27	-26

EKR



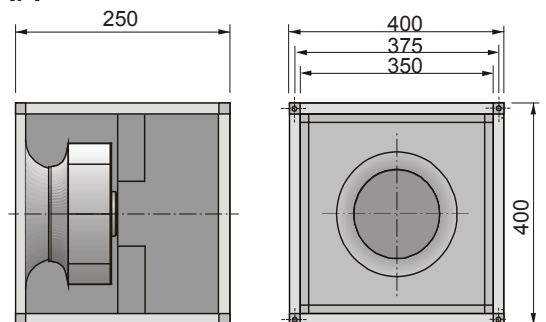
Mounting Feet as Optional

EKR 220-2



Typ :	EKR 220-2		IP54	$L_{WA,rel}$ ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :			E11	$L_{WA,tot}$	-13	-1	0
	8,5 kg		GS 1	125 Hz	-35	-18	-17
U :	230 V 50 Hz		NE 0,5	250 Hz	-33	-5	-4
P_1 :	0,100 kW		RPE 02	500 Hz	-17	-6	-5
I_N :	0,47 A			1 kHz	-18	-7	-6
n :	2580 min ⁻¹			2 kHz	-24	-13	-12
C_{400V} :	3 μF			4 kHz	-20	-18	-17
t_R :	40 °C			8 kHz	-24	-26	-25

EKR



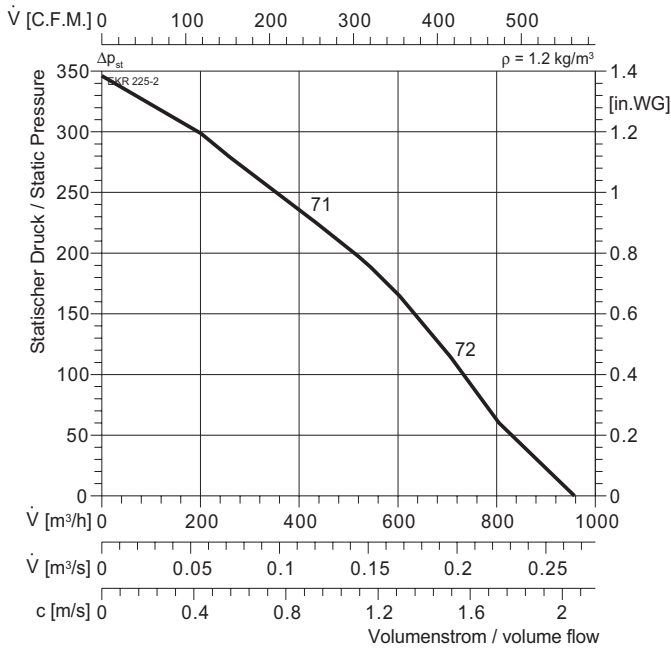
Mounting Feet as Optional



EKR, EKH, EKHS, DKH, DKHS

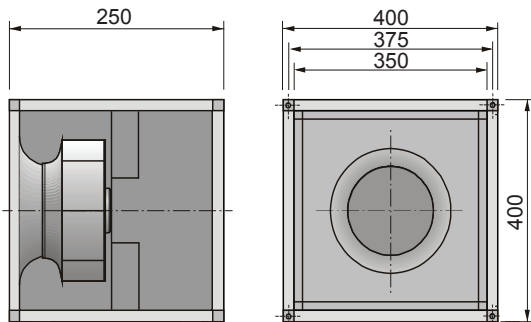


EKR 225-2



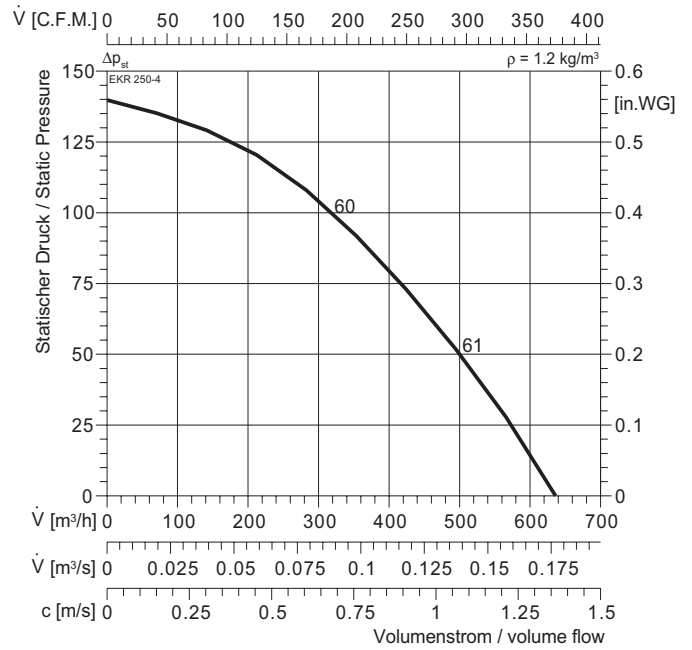
Typ :	EKR 225-2		IP54	$L_{WA\ rel} \Delta dB$	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :			E11	$L_{WA\ tot}$	-14	-1	0
■ :	10 kg		GS 1	125 Hz	-14	-1	0
U :	230 V 50 Hz		NE 1,5	250 Hz	-31	-8	-7
P₁ :	0,15 kW		RPE 02 A	500 Hz	-21	-7	-6
I_N :	0,7 A			1 kHz	-16	-8	-7
n :	2600 min ⁻¹			2 kHz	-21	-9	-8
C_{400V} :	4 μF			4 kHz	-28	-11	-10
t_R :	40 °C			8 kHz	-38	-15	-14

EKR



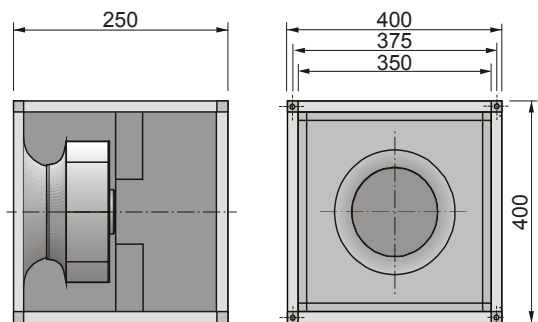
Mounting Feet as Optional

EKR 250-4



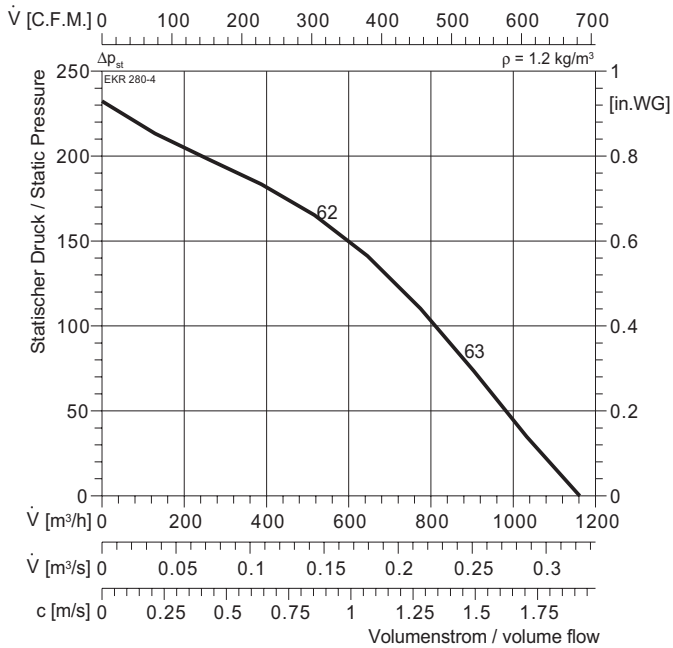
Typ :	EKR 250-4		IP54	$L_{WA\ rel} \Delta dB$	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :			E11	$L_{WA\ tot}$	-6	-1	0
■ :	12 kg		GS 1	125 Hz	-29	-21	-20
U :	230 V 50 Hz		NE 0,5	250 Hz	-22	-14	-13
P₁ :	0,065 kW		RPE 02 A	500 Hz	-15	-13	-12
I_N :	0,29 A			1 kHz	-7	-7	-6
n :	1392 min ⁻¹			2 kHz	-17	-5	-4
C_{400V} :	2 μF			4 kHz	-20	-8	-7
t_R :	40 °C			8 kHz	-30	-11	-10

EKR



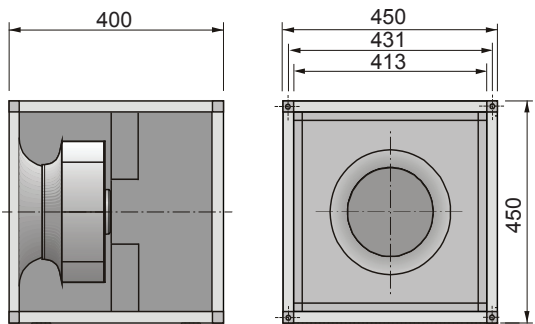
Mounting Feet as Optional

EKR 280-4



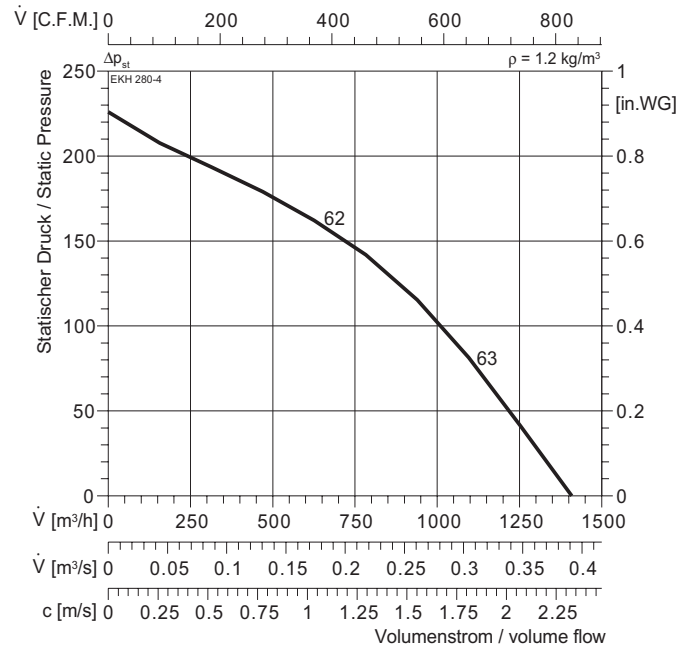
Typ :	EKR 280-4		IP54	$L_{WA,rel}$	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :			E11	$L_{WA,tot}$	-9	-1	0
	24 kg		GS 1	125 Hz	-37	-23	-22
U :	230 V 50 Hz		NE 0,5	250 Hz	-28	-14	-13
P_1 :	0,085 kW		RPE 02 A	500 Hz	-20	-11	-10
I_N :	0,38 A			1 kHz	-10	-8	-7
n :	1395 min ⁻¹			2 kHz	-17	-7	-6
C_{400V} :	2 μF			4 kHz	-21	-9	-8
t_R :	40 °C			8 kHz	-28	-11	-10

EKR



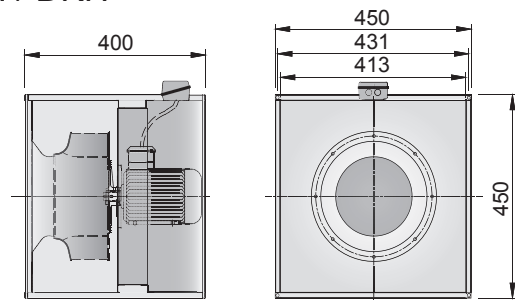
Mounting Feet as Optional

EKH / EKHS 280-4

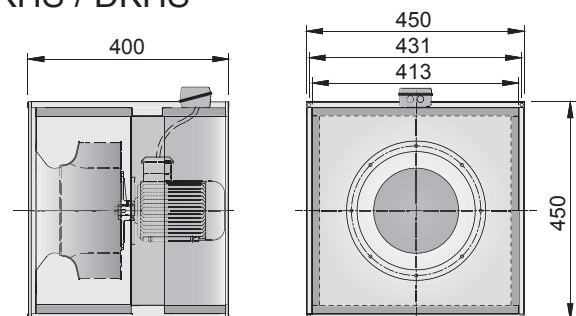


Typ :	EKH / EKHS 280-4		IP54	$L_{WA,rel}$	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :			E13	$L_{WA,tot}$	-9	-1	0
	24/25 kg		GS 1	125 Hz	-37	-23	-22
U :	220 V 50 Hz		NE 1,5	250 Hz	-28	-14	-13
P_1 :	0,18 kW		RPE 02	500 Hz	-20	-11	-10
I_N :	1,54 A			1 kHz	-10	-8	-7
n :	1360 min ⁻¹			2 kHz	-17	-7	-6
C_{400V} :	8 μF			4 kHz	-21	-9	-8
t_R :	40 °C			8 kHz	-28	-11	-10

EKH / DKH



EKHS / DKHS



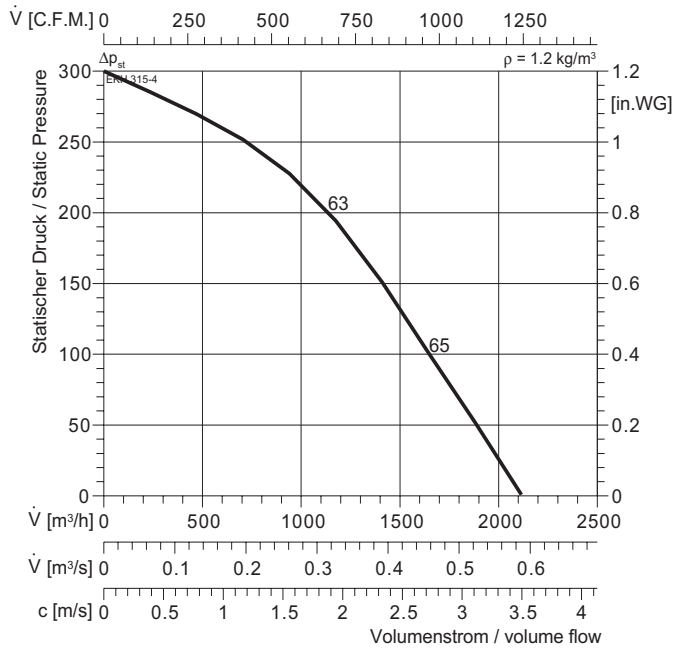
Mounting Feet as Optional



EKR, EKH, EKHS, DKH, DKHS

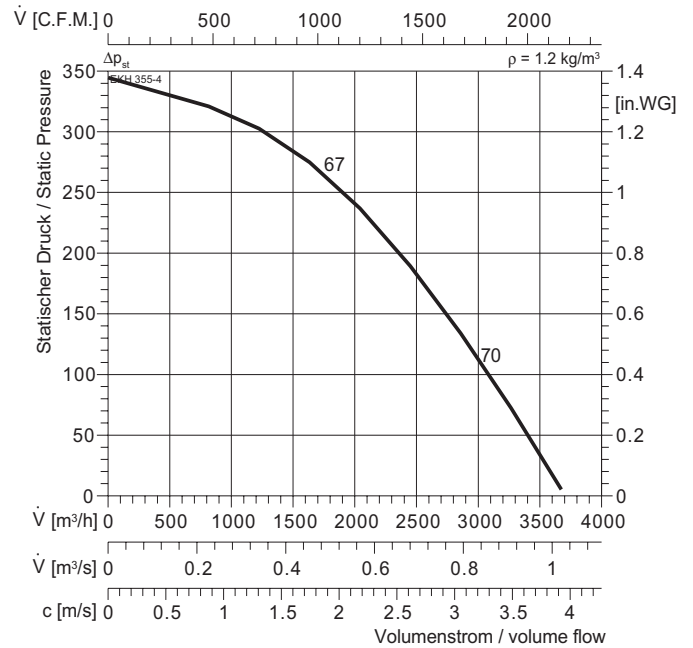


EKH / EKHS 315-4



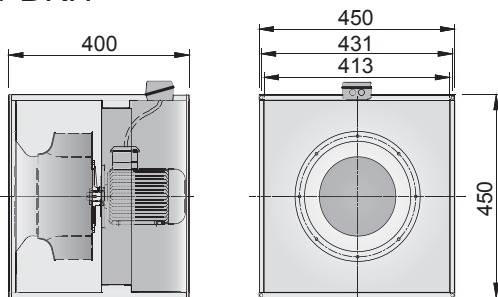
Typ : EKH / EKHS 315-4		IP 54
ArtNr :		E13
: 28/29	kg	GS 1
U :	220 V 50 Hz	NE 1,5
P ₁ :	0,25 kW	RPE 06
I _N :	2,02 A	
n :	1370 min ⁻¹	
C _{400V} :	12 μF	
t _R :	40 °C	

EKH / EKHS 355-4

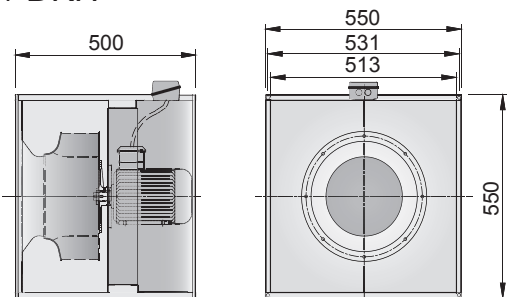


Typ : EKH / EKHS 355-4		IP54
ArtNr :		E13
: 30/31	kg	GS 1
U :	220 V 50 Hz	NE 3,2
P ₁ :	0,37 kW	RPE 06
I _N :	2,95 A	
n :	1370 min ⁻¹	
C _{400V} :	16 μF	
t _R :	40 °C	

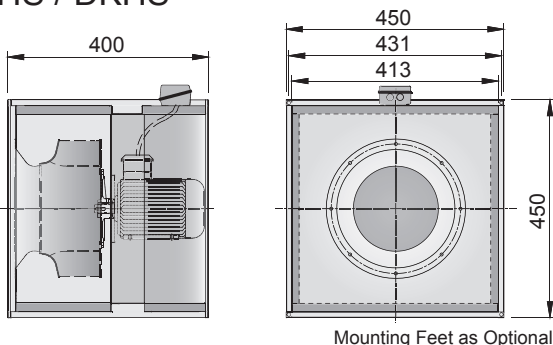
EKH / DKH



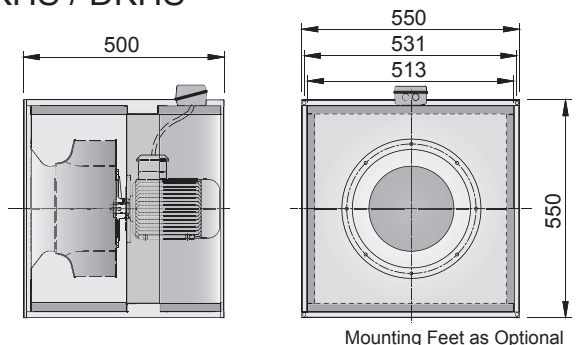
EKH / DKH



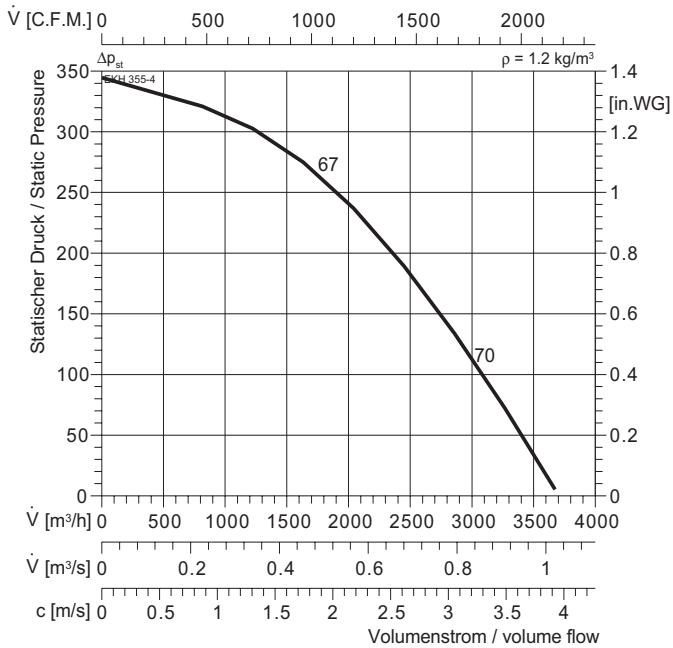
EKHS / DKHS



EKHS / DKHS

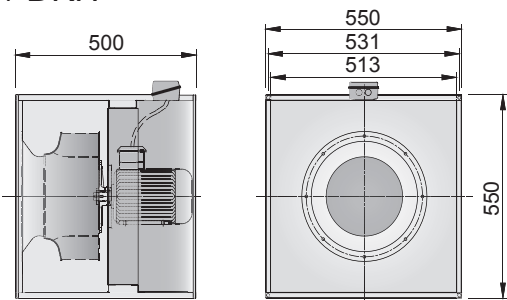


DKH / DKHS 355-4

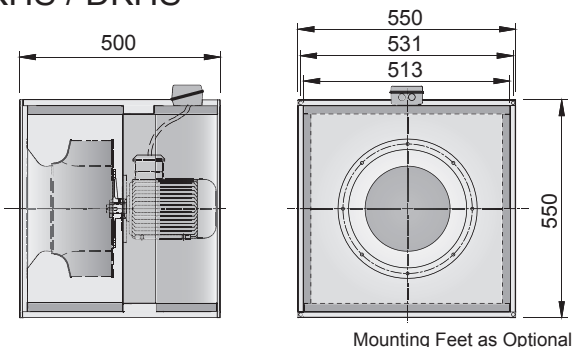


Typ : DKH / DKHS 355-4			IP 54
ArtNr :			DS3
	37/38 kg		GS 2
U :	400 V 50 Hz		RTD 1,2
P₁ :	0,37 kW		SAD 9
I_N :	1,06 A		
n :	1340 min ⁻¹		
C_{400v} :	- μF		
t_R :	40 °C		

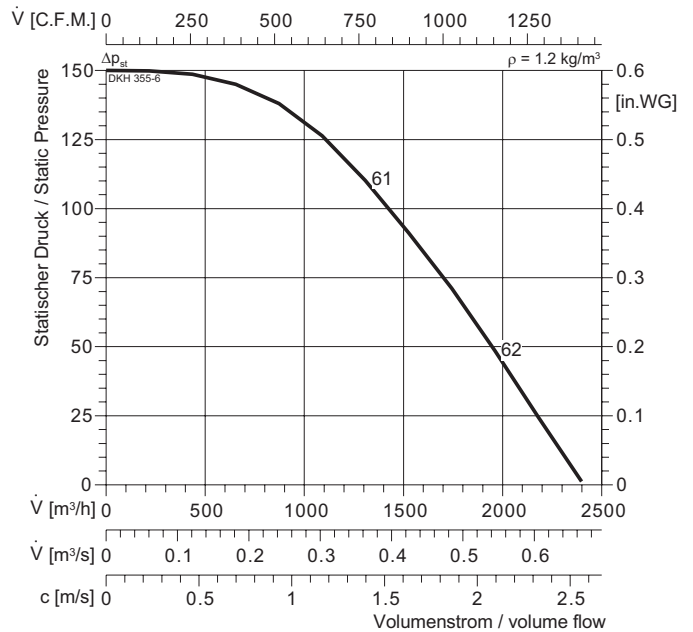
EKH / DKH



EKHS / DKHS

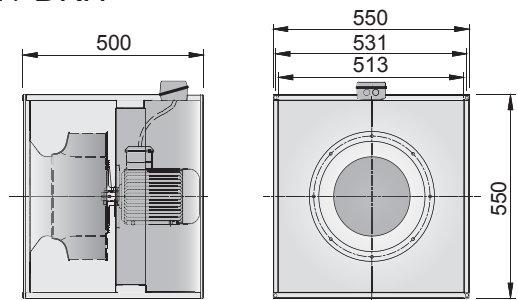


DKH / DKHS 355-6

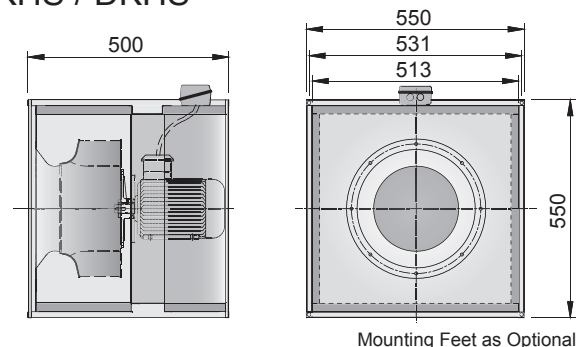


Typ : DKH / DKHS 355-6			IP 54
ArtNr :			DS3
	36/37 kg		GS 2
U :	400 V 50 Hz		RTD 1,2
P₁ :	0,18 kW		SAD 9
I_N :	0,7 A		
n :	865 min ⁻¹		
C_{400v} :	- μF		
t_R :	40 °C		

EKH / DKH



EKHS / DKHS

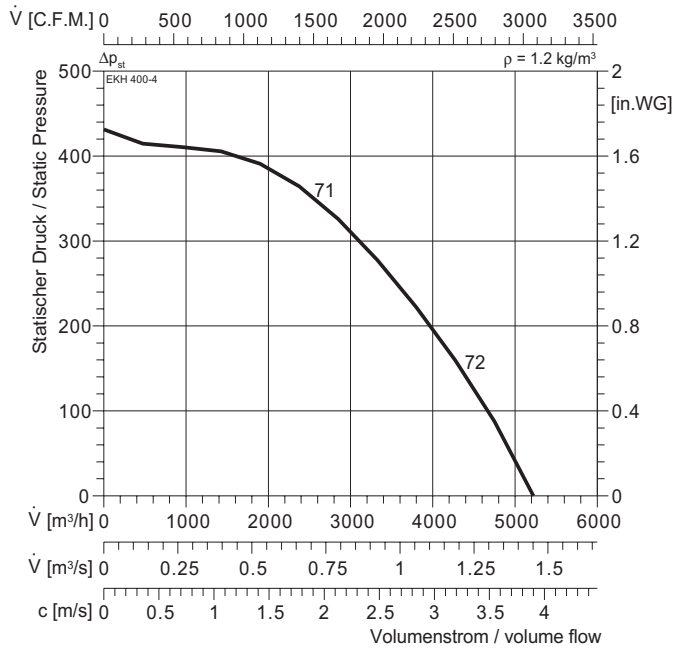




EKR, EKH, EKHS, DKH, DKHS

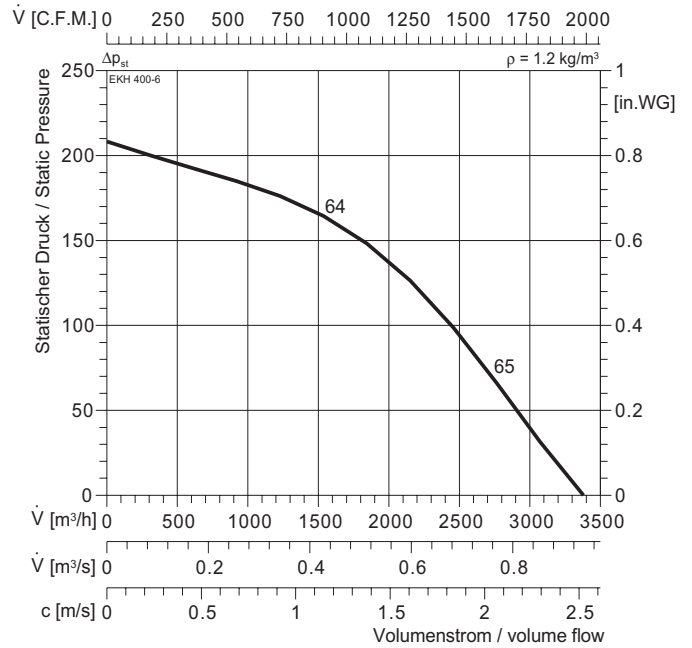


EKH / EKHS 400-4



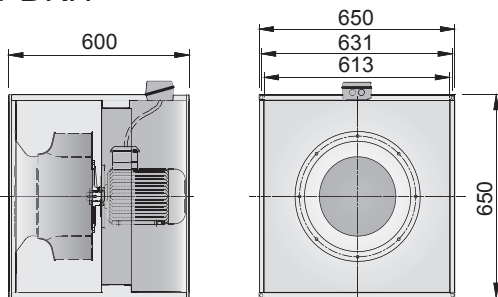
Typ : EKH / EKHS 400-4			IP 54
ArtNr :			E13
	38/40 kg		GS 1
	U : 220 V 50 Hz		NE 7,5
	P ₁ : 0,55 kW		RPE 09
	I _N : 4,25 A		
	n : 1380 min ⁻¹		
	C _{400V} : 25 μF		
	t _R : 40 °C		

EKH / EKHS 400-6

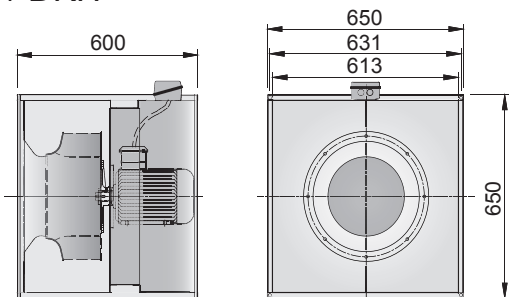


Typ : EKH / EKHS 400-6			IP54
ArtNr :			E13
	38/40 kg		GS 1
	U : 220 V 50 Hz		NE 3,2
	P ₁ : 0,25 kW		RPE 06
	I _N : 2,30 A		
	n : 860 min ⁻¹		
	C _{400V} : 10 μF		
	t _R : 40 °C		

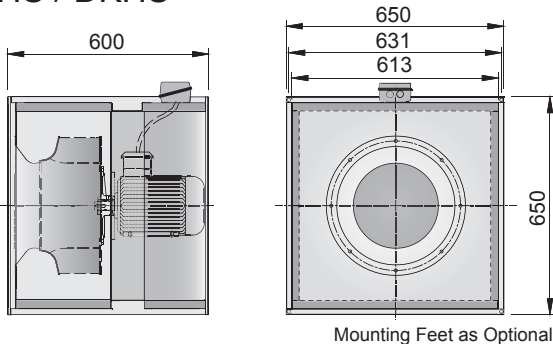
EKH / DKH



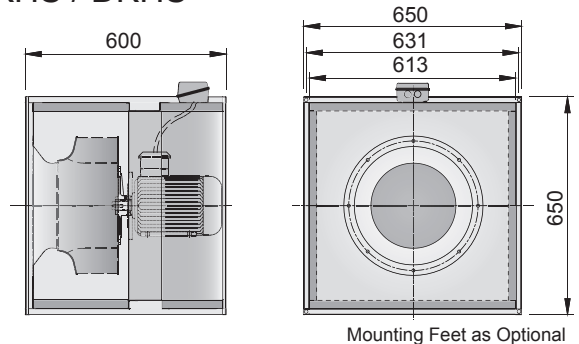
EKH / DKH



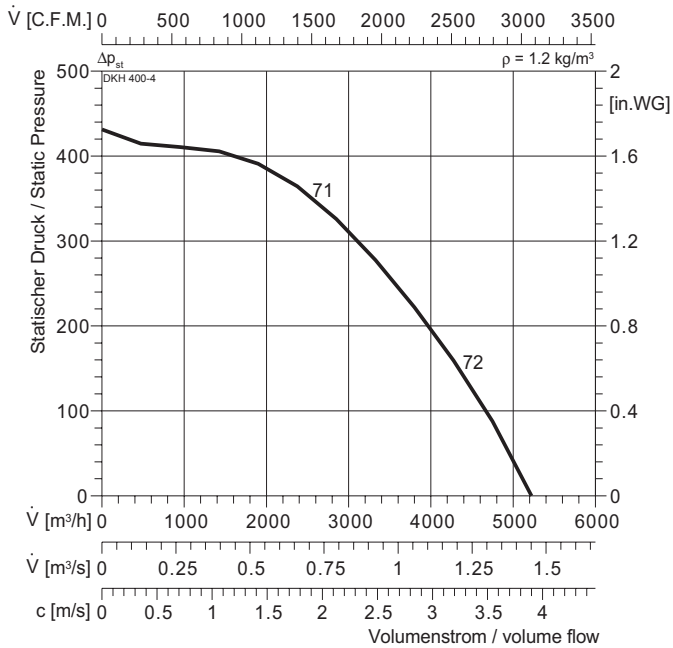
EKHS / DKHS



EKHS / DKHS

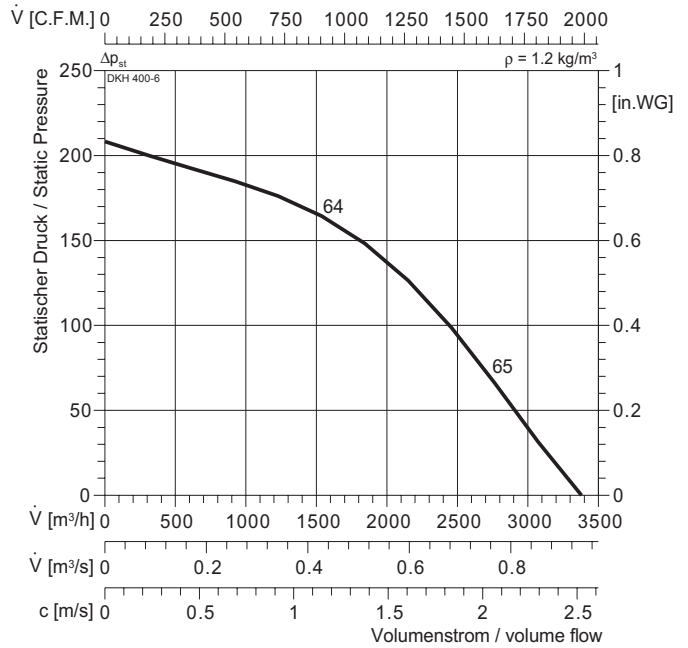


DKH / DKHS 400-4



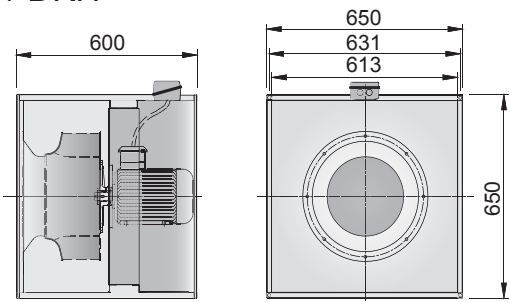
Typ : DKH / DKHS 400-4			IP 54
ArtNr :			DU1
	44/46 kg		GS 2
U :	400 V 50 Hz		RTD 2,5
P₁ :	0,55 kW		SAD 9
I_N :	1,49 A		
n :	1390 min ⁻¹		
C_{400v} :	- μF		
t_R :	40 °C		

DKH / DKHS 400-6

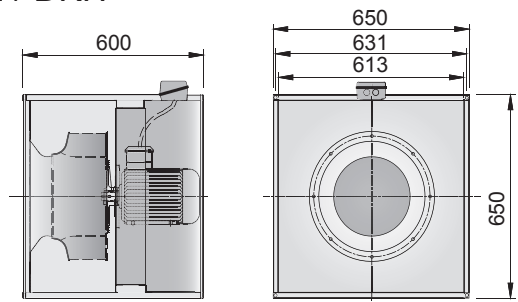


Typ : DKH / DKHS 400-6			IP 54
ArtNr :			DS3
	42/44 kg		GS 2
U :	400 V 50 Hz		RTD 1,2
P₁ :	0,25 kW		SAD 9
I_N :	0,9 A		
n :	865 min ⁻¹		
C_{400v} :	- μF		
t_R :	40 °C		

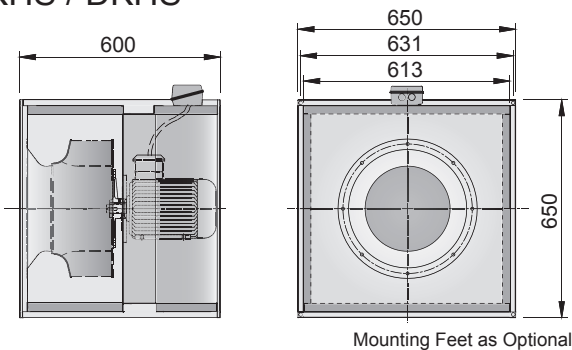
EKH / DKH



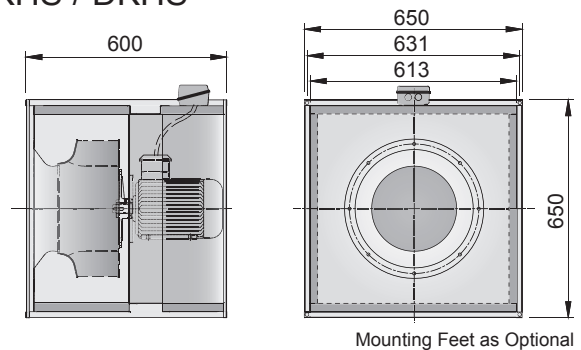
EKH / DKH



EKHS / DKHS



EKHS / DKHS

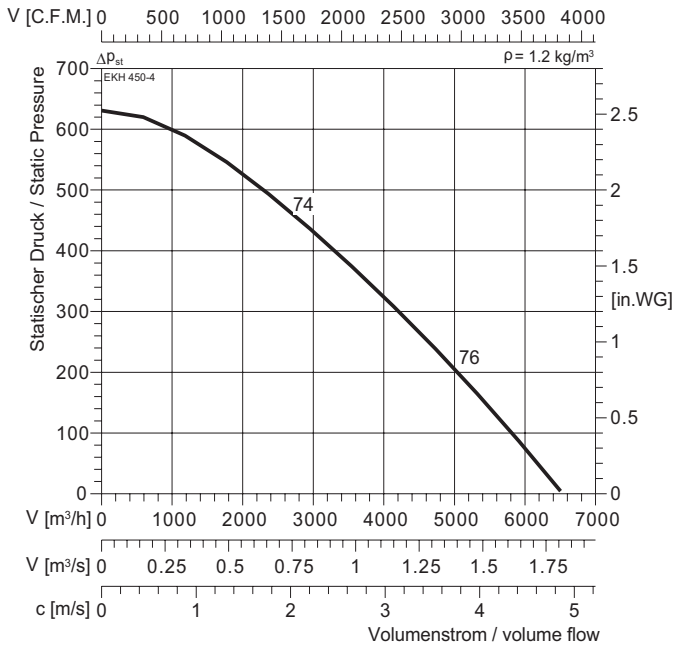




EKR, EKH, EKHS, DKH, DKHS

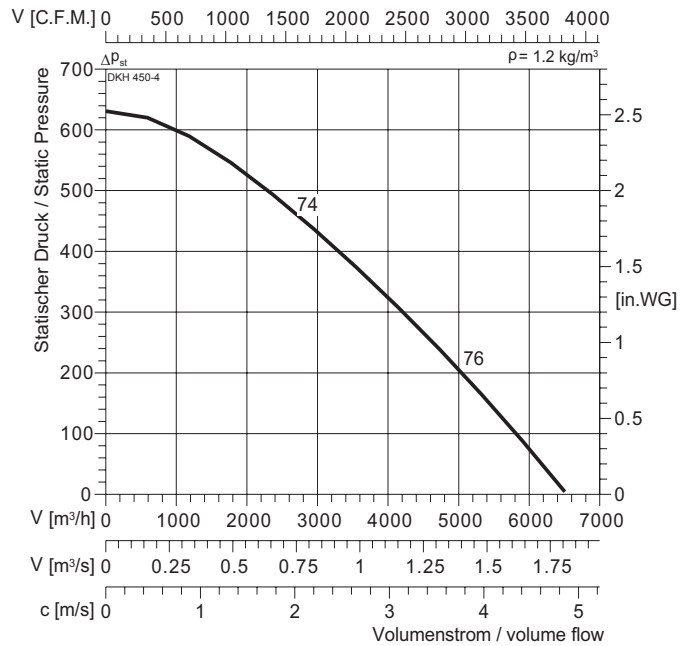


EKH / EKHS 450-4



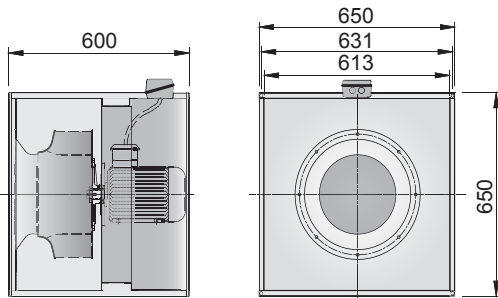
Typ : EKH / EKHS 450-4		IP 54
ArtNr :		E13
: 42/44 kg		GS 1
U : 220 V 50 Hz		NE 10
P ₁ : 0,75 kW		RPE 09
I _N : 5,45 A		
n : 1380 min ⁻¹		
C _{400V} : 30 μF		
t _R : 40 °C		

DKH / DKHS 450-4

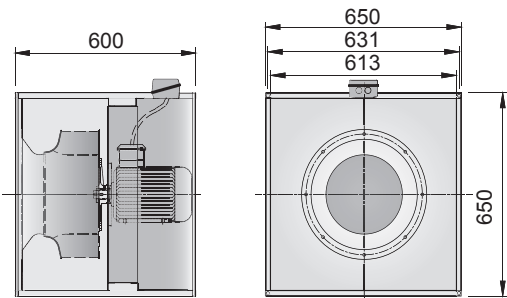


Typ : DKH / DKHS 450-4		IP54
ArtNr :		DS3
: 48/50 kg		GS 2
U : 400 V 50 Hz		RTD 3
P ₁ : 0,75 kW		SAD 9
I _N : 1,96 A		
n : 1380 min ⁻¹		
C _{400V} : - μF		
t _R : 40 °C		

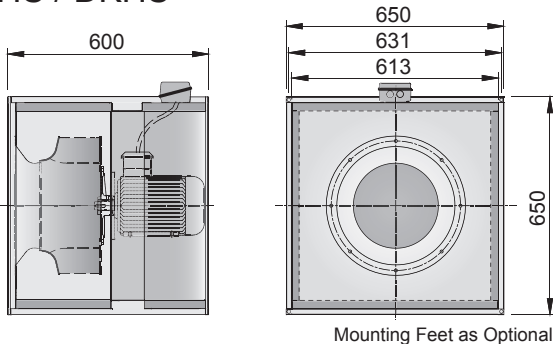
EKH / DKH



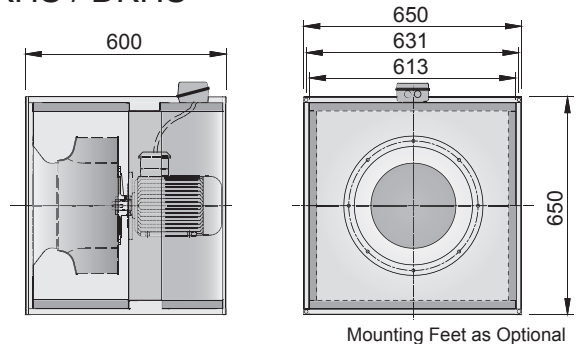
EKH / DKH



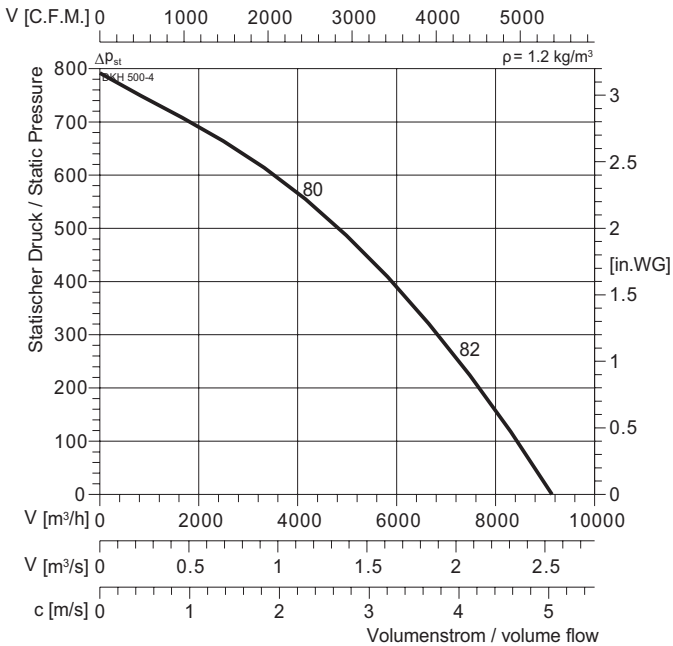
EKHS / DKHS



EKHS / DKHS

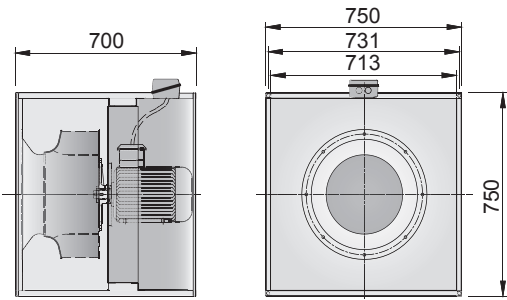


DKH / DKHS 500-4

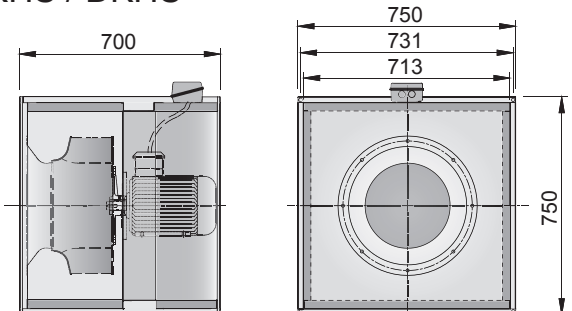


Typ : DKH / DKHS 500-4			IP 54
ArtNr :			DS3
	62/65 kg		GS 2
U :	400 V 50 Hz		RTD 3,8
P₁ :	1,5 kW		SAD 9
I_N :	3,56 A		
n :	1390 min ⁻¹		
C_{400v} :	- μF		
t_R :	40 °C		

EKH / DKH

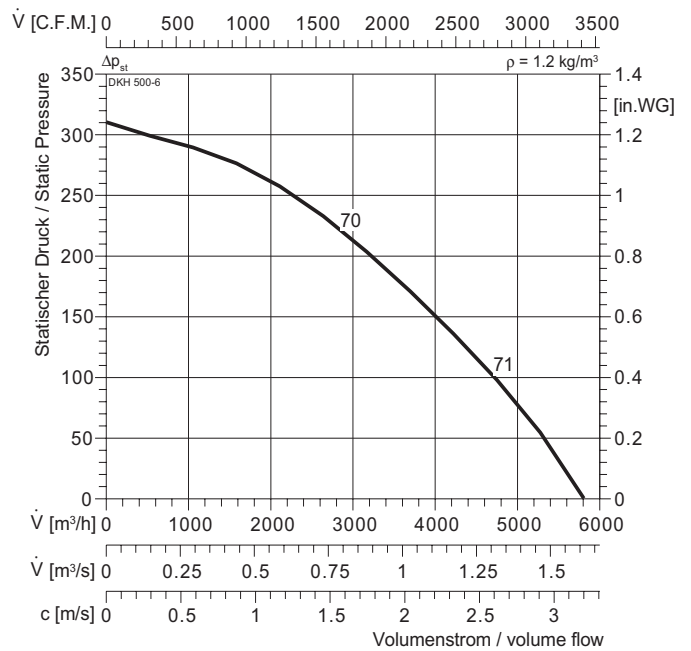


EKHS / DKHS



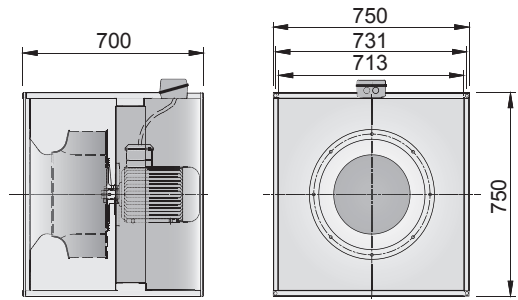
Mounting Feet as Optional

DKH / DKHS 500-6

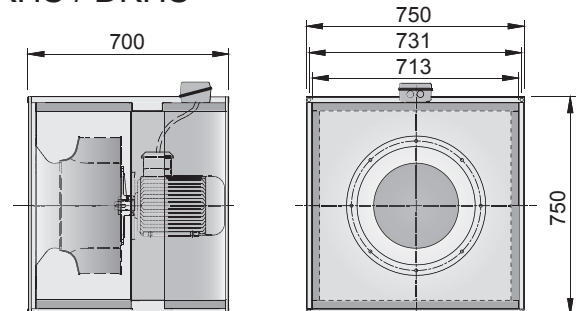


Typ : DKH / DKHS 500-6			IP 54
ArtNr :			DS3
	53/56 kg		GS 2
U :	400 V 50 Hz		RTD 2,5
P₁ :	0,55 kW		SAD 9
I_N :	1,7 A		
n :	885 min ⁻¹		
C_{400v} :	- μF		
t_R :	40 °C		

EKH / DKH



EKHS / DKHS



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