Typenschlüssel *Fan type code*

RVS 225 -2/2 E

- Motorversion / *Motor type*
  - E = Einphasenwechselstrom *Single-phase A.C.*
  - D = Drehstrom *Three-phase A.C.*
- Polzahl / *Number of poles*
- Nennweite *Impeller diameter*
- mit integrierter Schalldämmhaube *with built-in sound attenuation hood*
- Ausführung / *Discharge orientation*
  - H = Horizontal ausblasend *horizontal discharge*
  - V = vertikal ausblasend *vertical discharge*
- Dachventilator / *Roof fan*

Eigenschaften und Ausführung

Wolter Dachventilatoren eignen sich zum Aufbau auf Flach-, Pult-, Sattel-, Bogen- und Shed-Dächern. Man unterscheidet zwischen:

- **horizontal ausblasenden Dach-Ventilatoren RH**
  für die Absaugung weniger stark verunreinigter Luft und
- **vertikal ausblasenden Dach-Ventilatoren RV**
  für die Absaugung stärker verschmutzter Luft

Gehäuse

RH Haube bis Baugröße 500 aus seewasserbeständigem Aluminium, ab Baugröße 560 aus verzinktem Stahlblech.

RV Gehäuse aus seewasserbeständigem Aluminium.

RVS mit integrierter Schalldämmhaube.

Laufrad

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

Motor

Spannungssteuerbare Aussenläufermotoren in Schutzart IP44 (bis Baugröße 310L) bzw. IP 54 (ab Baugröße 355) mit Feuchteschutzimprägnierung und mit in der Wicklung eingebauten Thermokontakten.

Elektrischer Anschluß

Die Antriebsmotoren sind mit einem aufgebauten Anschlußkasten in Schutzart IP54 versehen, der für den elektrischen Anschluß nach Abnahme der Regenschutzhaube leicht zugänglich ist.

Montage

Wolter Dachventilatoren werden montagebereit ausgeliefert, jeweils in Einzelversandkartons oder Verschlägen.

Empfohlen wird die Verwendung von Flachdachsockeln aus unserem Zubehör-Programm. Sie sparen sich dadurch Kosten bei der Planung, bei der Ausführung und Montage. Sofern die Sockel bauseitig erstellt werden, so sind die von uns angegebenen Maße einzuhalten. Auf waagerechten Einbau und einwandfreie Abdichtung der Dachkante ist zu achten. Gegebenenfalls müssen Unebenheiten durch Distanzscheiben, Moosgummi oder ähnlich dichtendes Material behoben werden.

Luftleistungskennlinien

Die Kennlinien für diese Typenreihe wurden mittels einem saugseitigen Kammerprüfstand entsprechend der DIN 24 163 in der Einbauart A (frei ansaugend, frei ausblasend) aufgenommen. Sie zeigen die statische Druckerhöhung Δp_{st} (statisch, frei ausblasend) in Abhängigkeit des Volumenstroms. Die Bezugsdichte ist 1,2 kg/m³.

Schallentwicklung

Die Messung und deren Darstellung erfolgt nach DIN 45 635, Teil 38, gemäß dem dort beschriebenen Hüllflächenverfahren, nach dem über eine quaderförmige Meßfläche mehrere Meßpunkte erfasst werden. In den Kennlinienfeldern ist der **A-bewerteten Schallleistungspegel L_{WA}** in dB(A) angegeben, der dem **Frei-Ausblas-Schallleistungspegel L_{WA8}** entspricht.

Die Katalogangaben beziehen sich auf die Dachlüfter der Typenreihe **RH**. Bei den Ventilatoren der Typenreihe **RV** sind von den angegebenen Werten 2 dB(A) zu subtrahieren. Der Freiansaug-Schallleistungspegel L_{WA5} kann über die relativen Schallleistungspegel genau ermittelt, oder nach folgender Formel näherungsweise bestimmt werden:

$$L_{WA5} = L_{WA} - 3\ dB$$

Für genauere Berechnungen bei Schallschutzmaßnahmen ist der Schallleistungspegel der Oktavbänder von Bedeutung:

$$L_{Wokt} = L_{WA} + L_{Wrel}$$

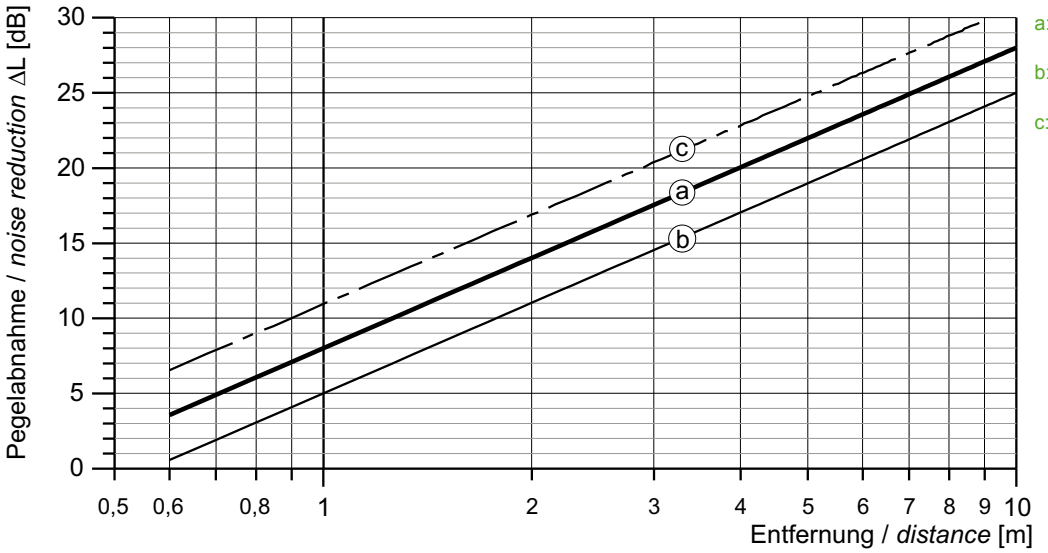
Der austrittseitige zu erwartende A-bewertete Schalldruckpegel kann nur annähernd ermittelt werden, da die Umgebungseinflüsse zu starken Abweichungen führen können:

$$L_{PA} = L_{WA} - \Delta L$$

Bei ungünstigen Verhältnissen kann das in der Anlage zustande kommende Geräusch von den Katalogangaben abweichen, etwa durch unterschiedliche Schallabsorption oder durch ungünstige Körperschallübertragung auf die Dachkonstruktion.

Pegelabnahme Halbkugel

Sound level reduction half sphere



a: ohne Reflexionen
without reflexion

b: mit Reflexionen
with reflexion

c: Vollkugel ohne Reflexionen
full sphere without reflexion

4

Types and design features

Wolter roof fan units are suitable for mounting on different roof types. There are two versions available:

- **Type RH with horizontal discharge**
  for the exhaust of mildly polluted air
- **Type RV with vertical discharge**
  for the exhaust of more heavily polluted air

Casing

RH up to size 500, the cowl is made of salt-water proof aluminium, from size 560 onwards, the cowl is manufactured from galvanised sheet steel

RV housing is made of salt-water proof aluminium

RVS with built-in sound attenuation hood

Impeller

The backward-curved impellers are mounted directly onto the rotor of the external rotor motors. The motorised impeller unit is balanced in two plains according to G 2,5 (DIN ISO 1940.)

Motor

Speed controllable external rotor motor, protection class IP44 (up to size 310L) or IP54 (from size 355), moisture-proof impregnation, thermal contacts mounted in motor winding.

Electrical connection

The motors are connected to a terminal box of protection class IP54, easily accessible after disassembly of the cowl.

Installation

All fans are delivered ready for installation and are packed in separate boxes or crates. We recommend the use of matching Wolter roof sockets. If other roof sockets are used, dimensions given in our catalogue should be followed to achieve proper sealing and avoid air-leakage.

Fan performance curves

The performance curves for these roof fans have been tested according to DIN 24 163. The curves indicate the static pressure increase Δp_{st} (static, free outlet) as a function of the volume flow. The reference air density is 1,2 kg/m³.

Sound levels

The sound data was measured according to DIN 45 635, part 38. The figures shown in the performance curves are the **A-weighted sound power levels (L_{WA})** in dB(A). They are equal to the **free outlet sound power level L_{WA8}**.

The catalogue data is valid for RH-type fans. In order to obtain the noise levels of **RV** series fans, reduce listed noise levels by **2 dB(A).** The free inlet **sound power level L_{WA5}** can be calculated by the following approximation formula:

$$L_{WA5} = L_{WA} - 3\ dB$$

If sound protection measures require exact calculation, it is important to know the the sound power level of the octave band:

$$L_{Wokt} = L_{WA} + L_{Wrel}$$

The A-weighted sound pressure level at the outlet side can only be approximated, since environmental conditions will affect noise levels.

$$L_{PA} = L_{WA} - \Delta L$$

The actual noise levels will vary, depending on system characteristics such as reflexion, resonant frequencies or structure-borne noise transfer.

Sockelschalldämpfer SD

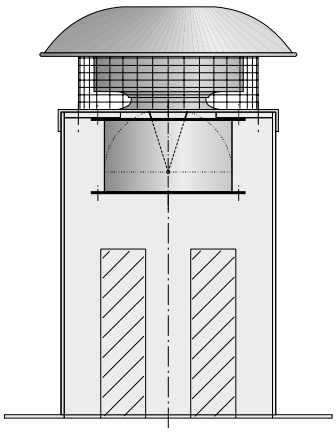
Der Sockelschalldämpfer kann anstelle des Flachdachsockels für die Montage des Lüfters verwendet werden. Er reduziert den Schallpegel im saugseitigen Kanalsystem.

Bei der Verwendung eines Sockelschalldämpfers sind die zusätzlichen Druckverluste zu berücksichtigen. Diese sind aus der nebenstehenden Grafik ersichtlich.

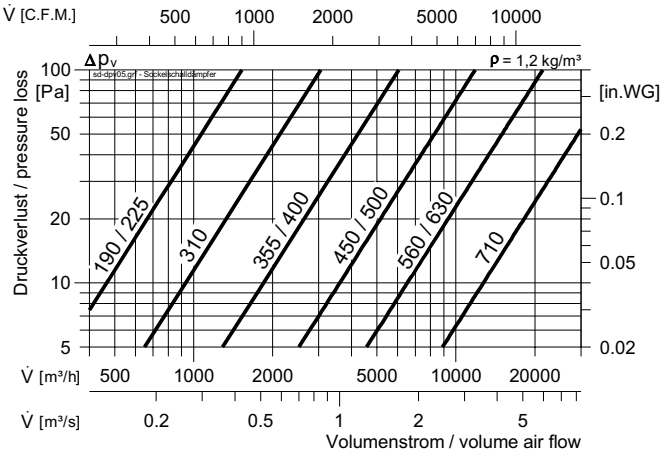
Socket silencer SD

A socket silencer can be used instead of the flat roof socket for mounting the fan. It reduces the sound propagation on the suction side.

When a socket silencer is used, additional pressure loss has to be taken into account. These can be found in the following diagram.



Druckverluste **Pressure losses**



Dämpfungswerte **Attenuation capacity**

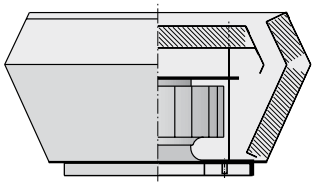
Typ SD	Dämpfung [dB] bei Mittenfrequenz [Hz] Attenuation [dB] at medium frequency [Hz]						
	125	250	500	1k	2k	4k	8k
190 / 225	5	8	12	18	22	20	14
310K / 310L	5	8	12	19	23	21	15
355 / 400	5	8	12	19	21	21	15
450 / 500	5	8	13	20	22	21	15
560 / 630	5	7	12	18	21	20	14
710	5	7	11	18	20	19	13

Integrierte Schalldämmhaube LVS

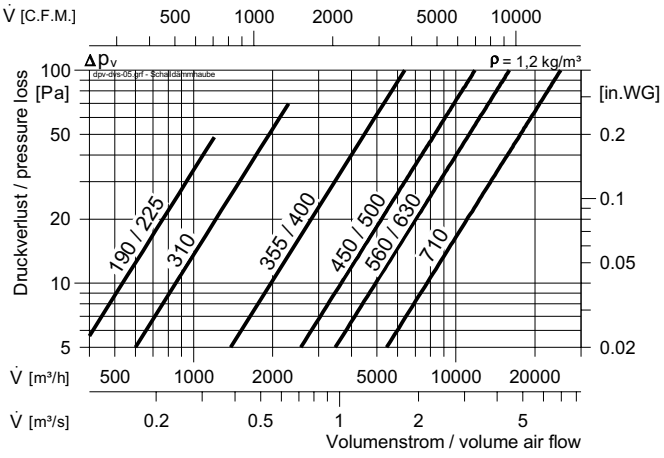
Die integrierte Schalldämmhaube der Lüfterbaureihe RVS ermöglicht es, den druckseitigen Schallpegel zu verringern. Diese Lüfterhaube hat im Vergleich zur normalen ungedämmten Haube (RV) etwas erhöhte Widerstände. Für exakte Berechnungen sind diese hier als Diagramm dargestellt.

Insulated sound attenuation cowl LVS

In order to reduce the sound emissions radiated from the roof fan, the use of a RVS attenuation cowl is recommended. Compared to the non-attenuated roof fan cowl (RV), the RVS cowl has slightly higher pressure losses. For exact calculations, these additional losses are shown in the following diagram.

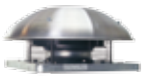


Druckverluste **Pressure losses**



Dämpfungswerte **Attenuation capacity**

Typ RVS / RHS	Dämpfung [dB] bei Mittenfrequenz [Hz] Attenuation [dB] at medium frequency [Hz]						
	125	250	500	1k	2k	4k	8k
190 / 225	5	8	12	16	20	17	13
310K / 310L	5	8	12	17	20	17	14
355 / 400	5	8	11	16	19	16	13
450 / 500	5	8	12	17	20	17	14
560 / 630	5	8	11	16	19	16	13
710	5	7	10	16	18	16	12


RH


RV, RVS

Dachhaube without motorised impeller LH / LV

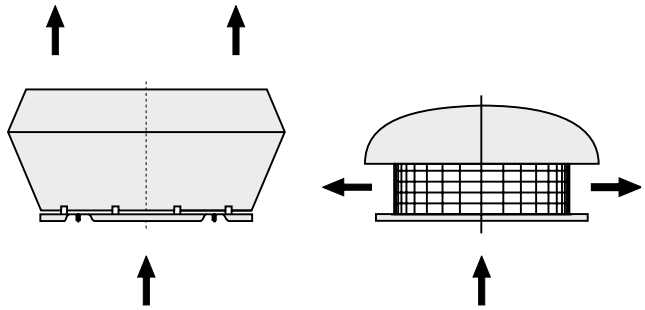
Die leere Dachhaube kann zum Abschluß eines Kanalsystems verwendet werden. Sie hat je nach Luftrichtung unterschiedliche Druckverluste.

Roof cowl without motor LH / LV

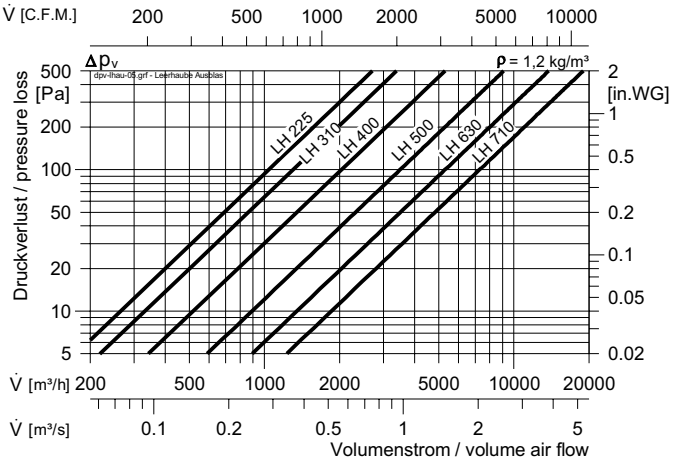
The empty roof cowl can be used to close a ducted system on the inlet or outlet side. Depending on the direction of air flow, it has different pressure losses.

Ausblashaube

Outlet cowl

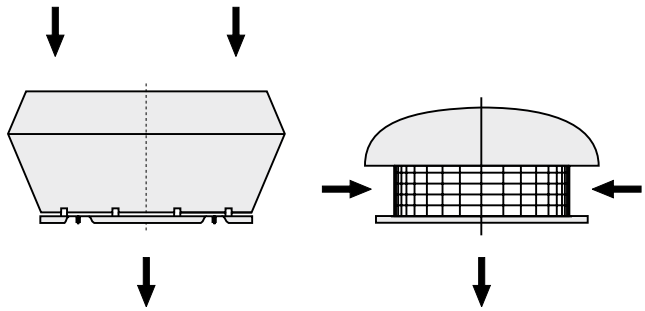


Druckverluste **Pressure losses**

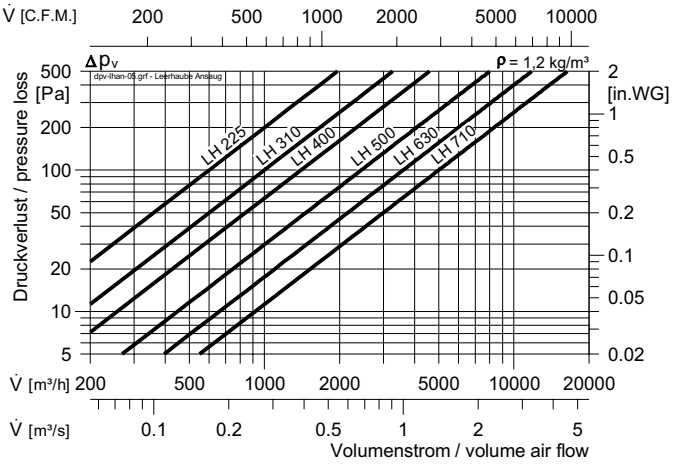


Ansaughaube

Inlet cowl

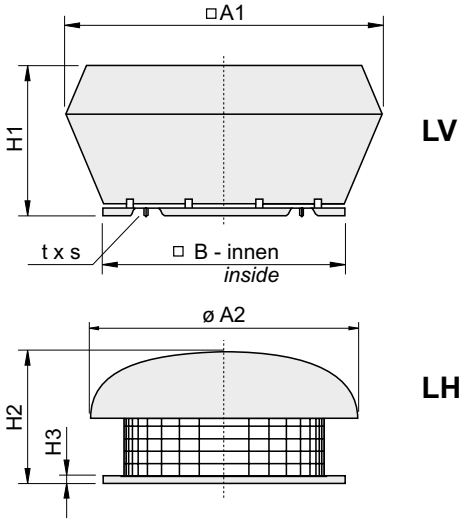


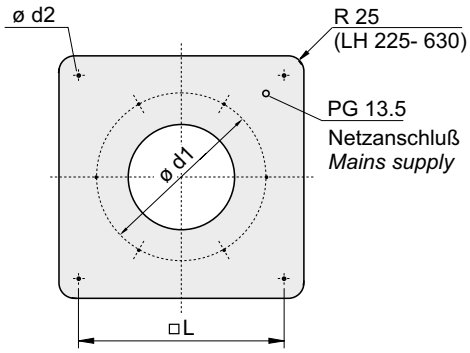
Druckverluste **Pressure losses**



Abmessungen

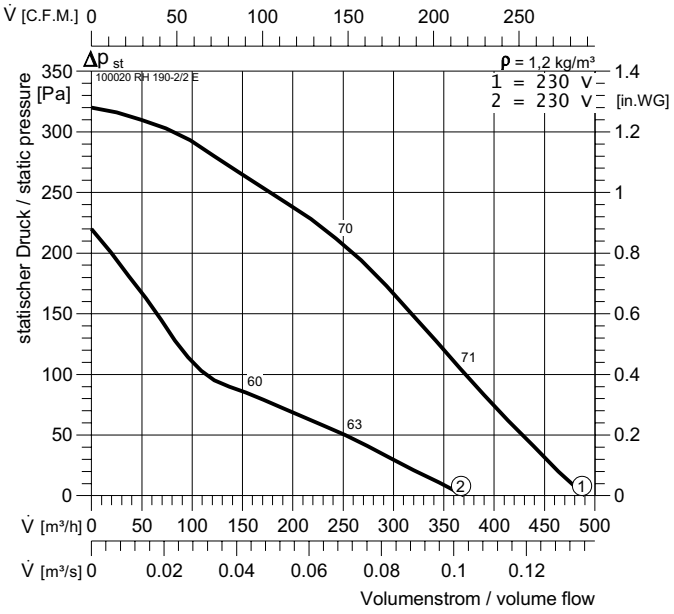
Dimensions





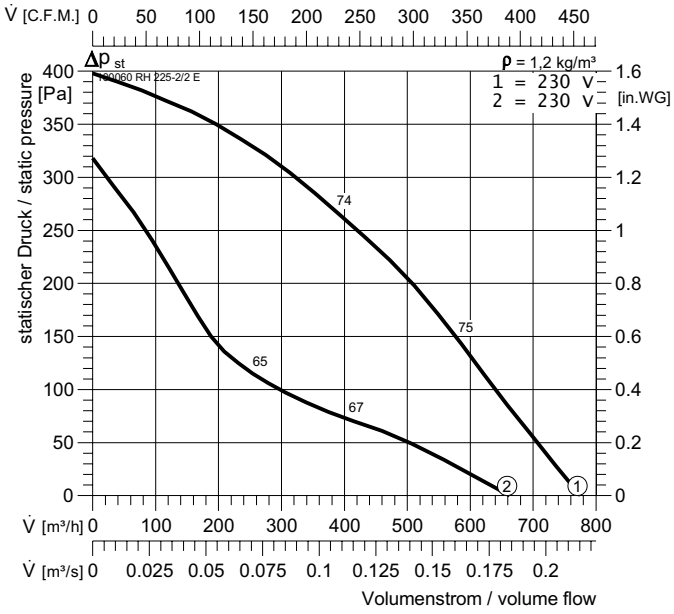
Größe size	A1 [mm]	A2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	B [mm]	L [mm]	d1 [mm]	d2 [mm]	t x s
225	370	370	170	140	30	335	245	213	10	6xM6
310	560	550	330	260	30	435	330	286	10	6xM6
400	720	720	400	340	30	595	450	438	12	6xM6
500	900	820	450	390	30	665	535	438	12	6xM6
630	1150	1100	570	460	30	939	750	605	14	8xM8
710	1350	-	680	-	40	1035	840	674	14	8xM8

RH / RV / RVS 190-2/2 E

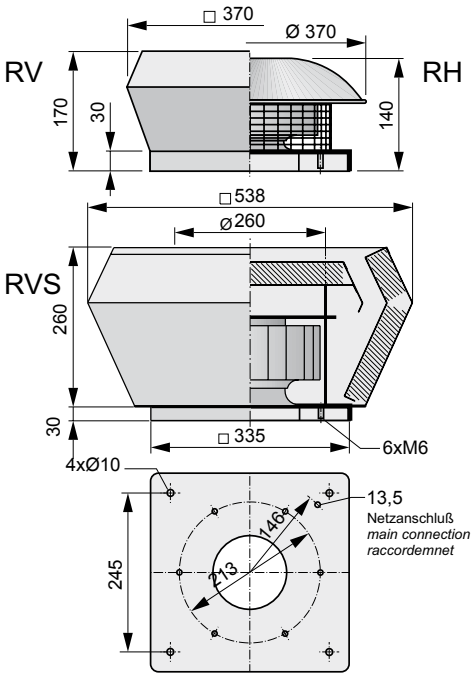


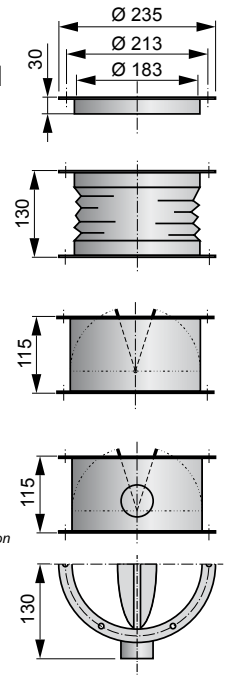
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 190-2/2 E	100020	5	kg	$L_{WA\,tot}$	-2	0
RV 190-2/2 E	102500	5,4	kg	**125 Hz**	-22	-22
RVS 190-2/2 E	100025	9,15	kg	**250 Hz**	-11	-9
U : 230 V 50 Hz		I_A / I_N :	1,4	**500 Hz**	-7	-6
P_1 : 0,07/0,04 **kW**		IP 44		**1 kHz**	-7	-6
I_N : 0,3/0,2 **A**		E14		**2 kHz**	-11	-6
n : 2420/1520 **min⁻¹**		GS 1		**4 kHz**	-13	-11
C_{400V} : 2 **µF**		NE 0,5		**8 kHz**	-19	-15
t_R : 60 **°C**		RPE 02 A				

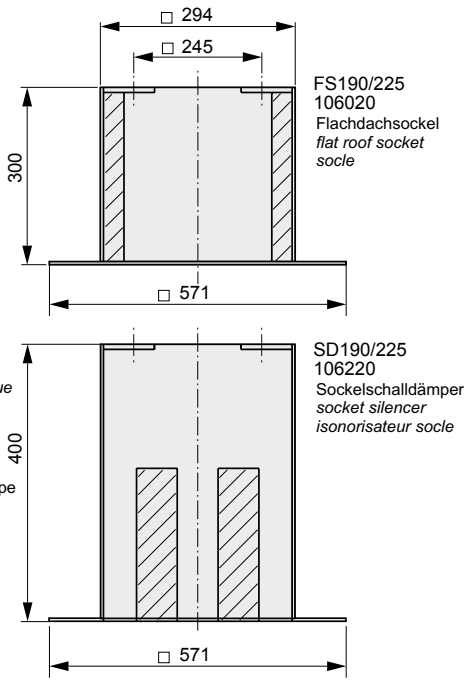
RH / RV / RVS 225-2/2 E



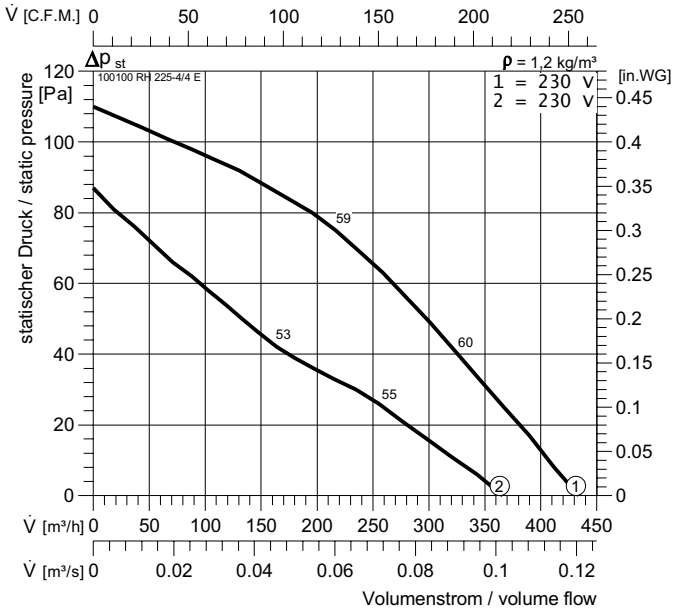
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 225-2/2 E	100060	5,6	kg	$L_{WA\,tot}$	-2	0
RV 225-2/2 E	102540	5,8	kg	**125 Hz**	-22	-22
RVS 225-2/2 E	100065	7,5	kg	**250 Hz**	-11	-9
U : 230 V 50 Hz		I_A / I_N :	1,7	**500 Hz**	-7	-6
P_1 : 0,11/0,08 **kW**		IP 44		**1 kHz**	-7	-6
I_N : 0,51/0,36 **A**		E14		**2 kHz**	-11	-6
n : 2580/1620 **min⁻¹**		GS 1		**4 kHz**	-13	-11
C_{400V} : 3 **µF**		NE 1,5		**8 kHz**	-19	-15
t_R : 50 **°C**		RPE 02 A				







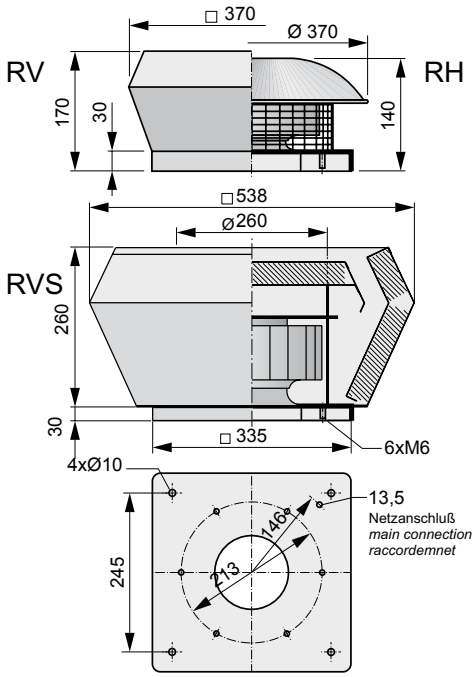
RH / RV / RVS 225-4/4 E

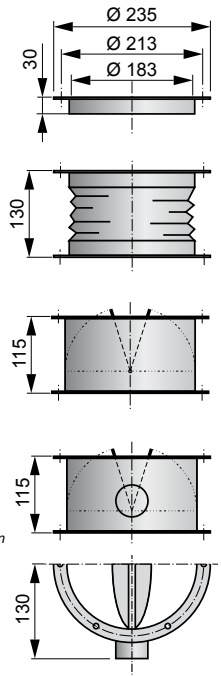


Typ	ArtNr		$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 225-4/4 E	100100	4,1 **kg**	$L_{WA\,tot}$	-2	0
RV 225-4/4 E	102580	4,7 **kg**	**125 Hz**	-22	-22
RVS 225-4/4 E	100105	7,5 **kg**	**250 Hz**	-11	-9
U : 230 V 50 Hz	**I_A / I_N :**	1,4	**500 Hz**	-7	-6
P_1 : 0,04/0,02 **kW**		IP 44	**1 kHz**	-7	-6
I_N : 0,16/0,1 **A**		E14	**2 kHz**	-11	-6
n : 1320/1000 **min^{-1}**		GS 1	**4 kHz**	-13	-11
C_{400V} : 1,5 **µF**		NE 0,5	**8 kHz**	-19	-15
t_R : 60 **°C**		RPE 02 A			

Kopfzeile

Typ	ArtNr		$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
Kurztext	Artikelnr	gew **kg**	$L_{WA\,tot}$		
		kg	**125 Hz**		
		kg	**250 Hz**		
U : Spannung	**I_A / I_N :**	Ia/In	**500 Hz**		
P_1 : Leitung **kW**		IP	**1 kHz**		
I_N : Strom **A**		schaltpl	**2 kHz**		
n : Drehzahl **min^{-1}**		Schalter	**4 kHz**		
C_{400V} : Konde **µF**		Reglertr	**8 kHz**		
t_R : tr **°C**		Reglerel			



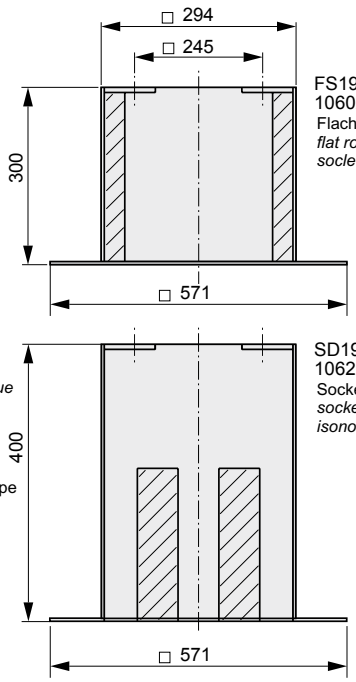


GL190/225
107220
Gegenflansch
flange
bride

EV190/225
107020
elastisches Zwischenstück
elastic connection
connexion élastique

VS190/225
106520
selbstätige Verschlußklappe
automatic shutter
volet de fermeture automatique

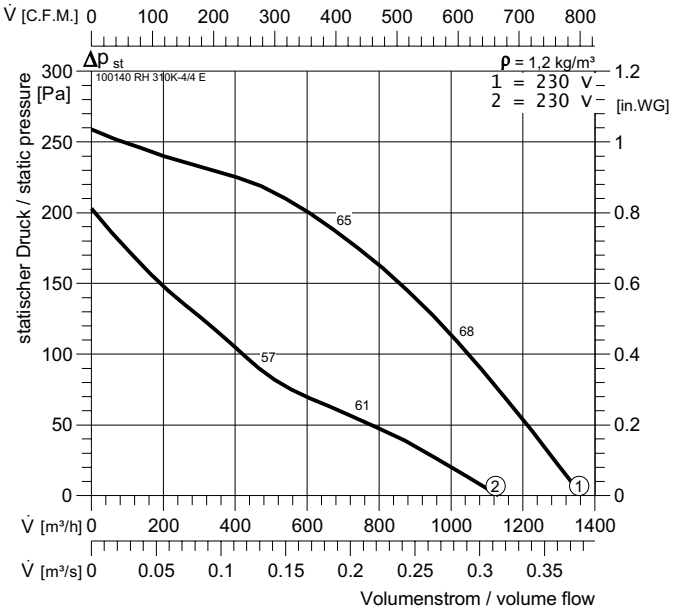
VM190/225
106820
motorbetätigte Verschlußklappe
motor shutter
volet de fermeture moteur



FS190/225
106020
Flachdachsockel
flat roof socket
socle

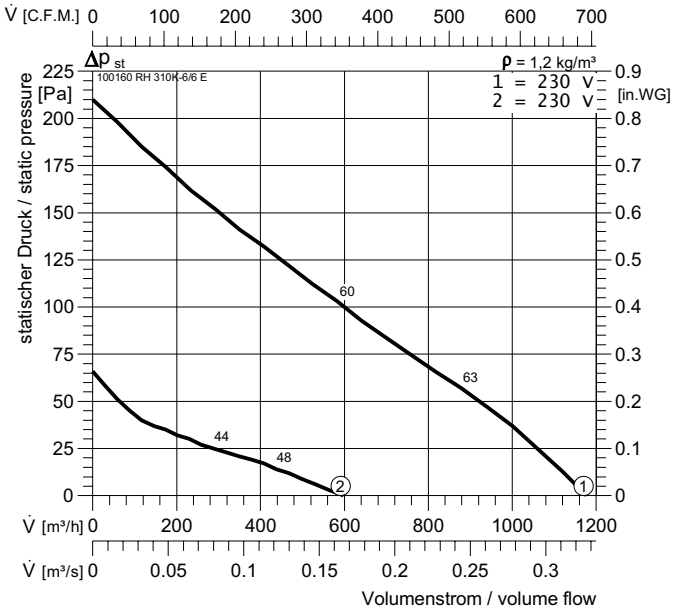
SD190/225
106220
Sockelschalldämper
socket silencer
isonorisateur socle

RH / RV / RVS 310K-4/4 E

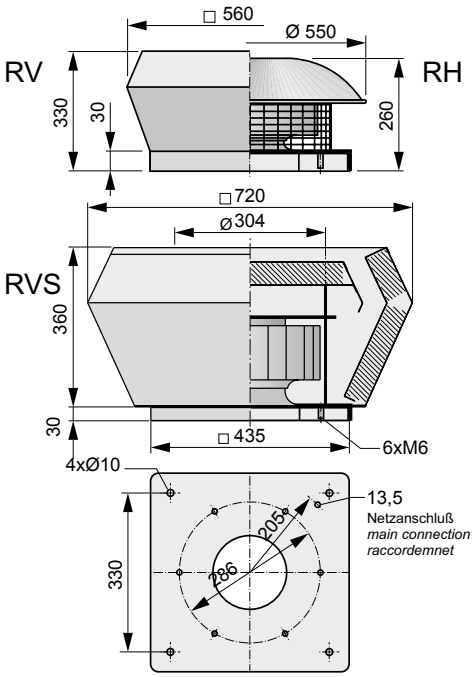


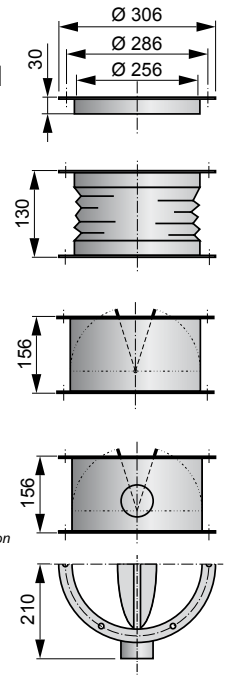
Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 310K-4/4 E	100140	12,8 kg	$L_{WA\ tot}$	-2	0
RV 310K-4/4 E	102620	15,2 kg	**125 Hz**	-16	-20
RVS 310K-4/4 E	100145	19,4 kg	**250 Hz**	-10	-11
U : 230 V 50 Hz		I_A / I_N : 2	**500 Hz**	-10	-6
P_1 : 0,12/0,08 **kW**		IP 44	**1 kHz**	-7	-4
I_N : 0,6/0,4 **A**		E14	**2 kHz**	-8	-7
n : 1360/940 **min⁻¹**		GS 1	**4 kHz**	-14	-13
C_{400V} : 4 **µF**		NE 1,5	**8 kHz**	-21	-19
t_R : 40 **°C**		RPE 02 A			

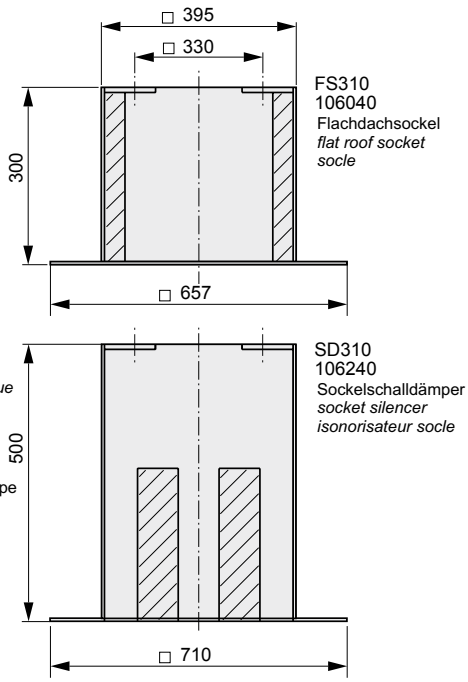
RH / RV / RVS 310K-6/6 E



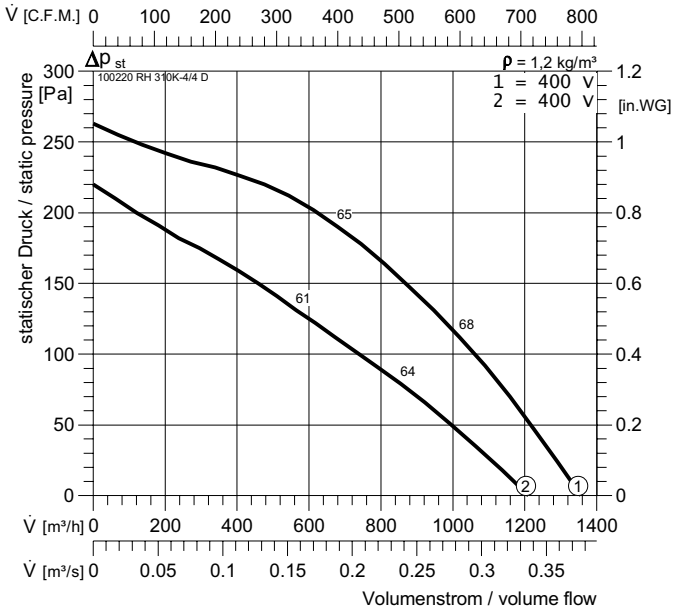
Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 310K-6/6 E	100160	11,2 kg	$L_{WA\ tot}$	-2	0
RV 310K-6/6 E	102640	14,6 kg	**125 Hz**	-16	-20
RVS 310K-6/6 E	100165	19,4 kg	**250 Hz**	-10	-11
U : 230 V 50 Hz		I_A / I_N : 1,3	**500 Hz**	-10	-6
P_1 : 0,08/0,04 **kW**		IP 44	**1 kHz**	-7	-4
I_N : 0,35/0,16 **A**		E14	**2 kHz**	-8	-7
n : 1050/480 **min⁻¹**		GS 1	**4 kHz**	-14	-13
C_{400V} : 1,5 **µF**		NE 0,5	**8 kHz**	-21	-19
t_R : 60 **°C**		RPE 02 A			





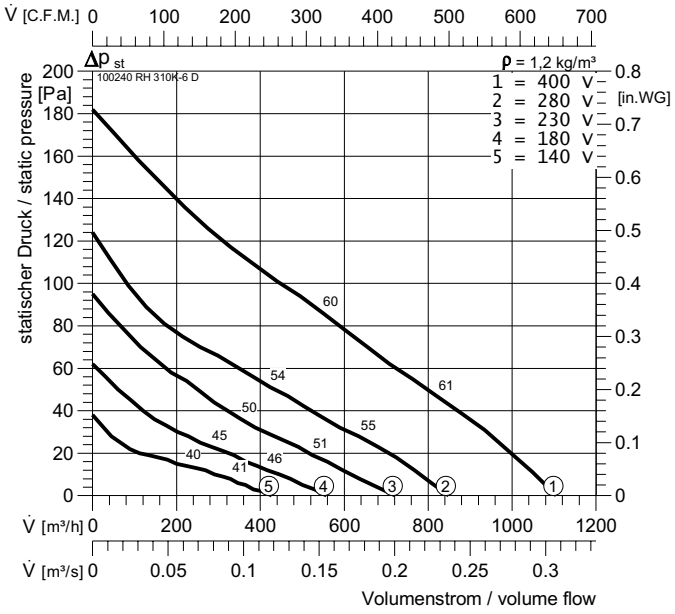


RH / RV / RVS 310K-4/4 D

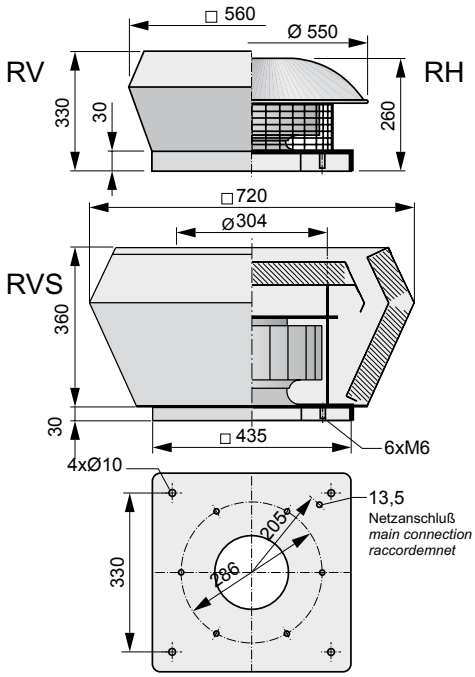


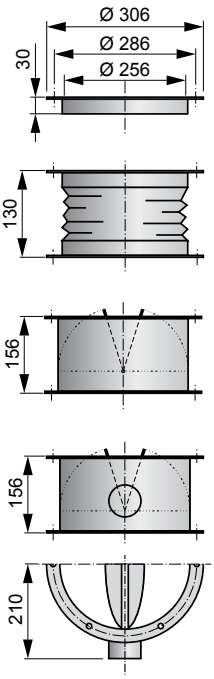
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 310K-4/4 D	100220	12	kg	$L_{WA\,tot}$	-2	0
RV 310K-4/4 D	102700	13	kg	**125 Hz**	-16	-20
RVS 310K-4/4 D	100225	19,4	kg	**250 Hz**	-10	-11
U : 400 V 50 Hz	I_A / I_N :	2,1		**500 Hz**	-10	-6
P_1 : 0,12/0,08 **kW**		IP 44		**1 kHz**	-7	-4
I_N : 0,3/0,13 **A**		DU3		**2 kHz**	-8	-7
n : 1370/1150 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 1,2		**8 kHz**	-21	-19
t_R : 55 **°C**		SAD 9				

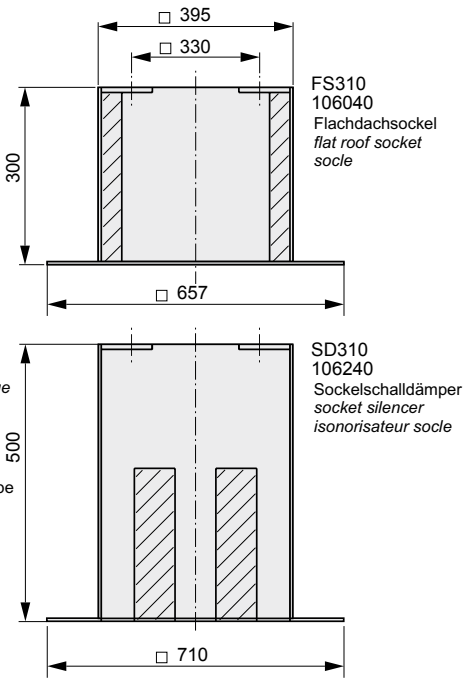
RH / RV / RVS 310K-6 D



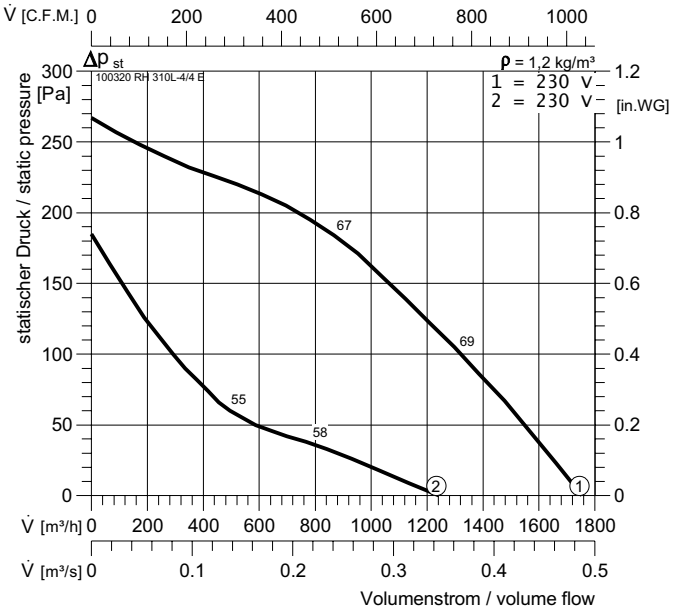
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 310K-6 D	100240	11,5	kg	$L_{WA\,tot}$	-2	0
RV 310K-6 D	102720	14	kg	**125 Hz**	-16	-20
RVS 310K-6 D	100245	14	kg	**250 Hz**	-10	-11
U : 400 V 50 Hz	I_A / I_N :	2,5		**500 Hz**	-10	-6
P_1 : 0,070 **kW**		IP 44		**1 kHz**	-7	-4
I_N : 0,12 **A**		DD0b		**2 kHz**	-8	-7
n : 970 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 1,2		**8 kHz**	-21	-19
t_R : 60 **°C**		SAD 9				





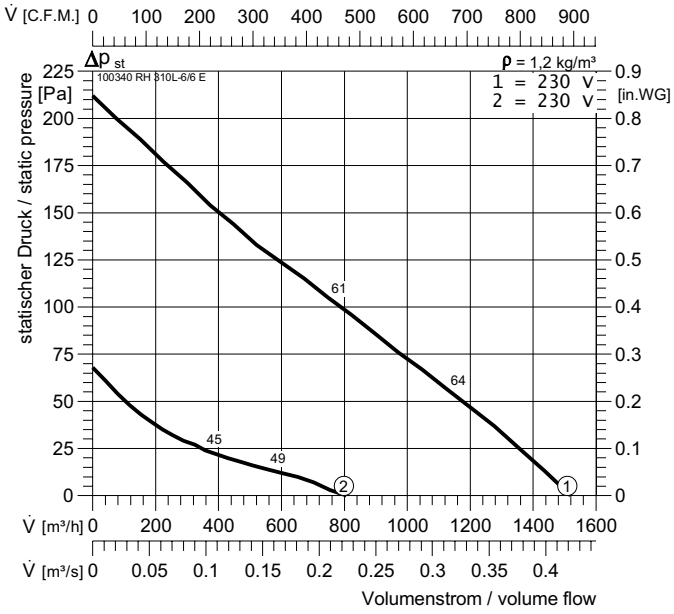


RH / RV / RVS 310L-4/4 E

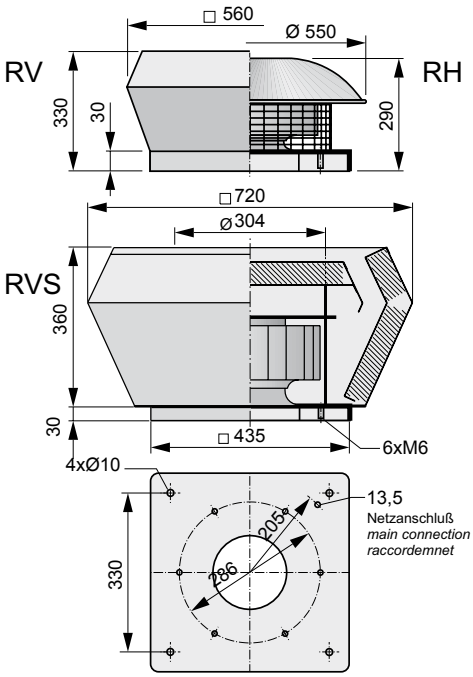


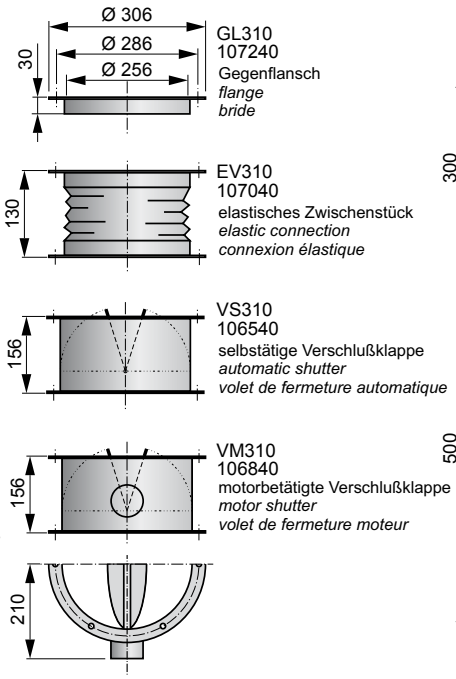
Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 310L-4/4 E	100320	13 kg	$L_{WA\ tot}$	-2	0
RV 310L-4/4 E	102800	15,4 kg	**125 Hz**	-16	-20
RVS 310L-4/4 E	100325	19,5 kg	**250 Hz**	-10	-11
U : 230 V 50 Hz		I_A / I_N : 1,8	**500 Hz**	-10	-6
P_1 : 0,15/0,07 **kW**		IP 44	**1 kHz**	-7	-4
I_N : 0,66/0,46 **A**		E14	**2 kHz**	-8	-7
n : 1300/740 **min⁻¹**		GS 1	**4 kHz**	-14	-13
C_{400V} : 4 **µF**		NE 1,5	**8 kHz**	-21	-19
t_R : 50 **°C**		RPE 02			

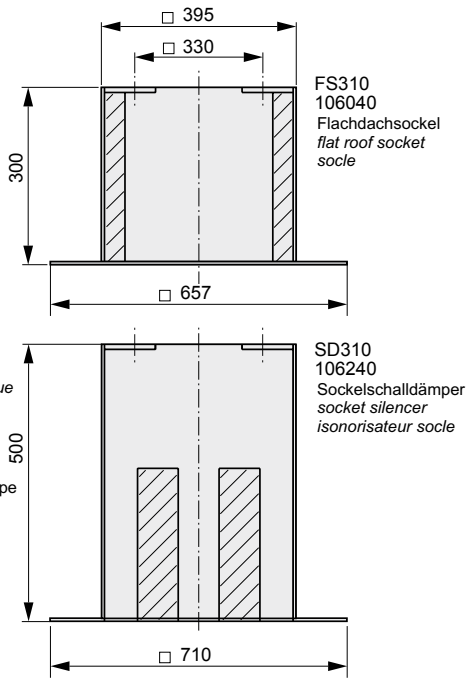
RH / RV / RVS 310L-6/6 E



Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 310L-6/6 E	100340	11,6 kg	$L_{WA\ tot}$	-2	0
RV 310L-6/6 E	102820	15 kg	**125 Hz**	-16	-20
RVS 310L-6/6 E	100345	19,4 kg	**250 Hz**	-10	-11
U : 230 V 50 Hz		I_A / I_N : -	**500 Hz**	-10	-6
P_1 : 0,1/0,055 **kW**		IP 44	**1 kHz**	-7	-4
I_N : 0,5/0,26 **A**		E14	**2 kHz**	-8	-7
n : 1020/500 **min⁻¹**		GS 1	**4 kHz**	-14	-13
C_{400V} : 2 **µF**		NE 0,5	**8 kHz**	-21	-19
t_R : 60 **°C**		RPE 02 A			



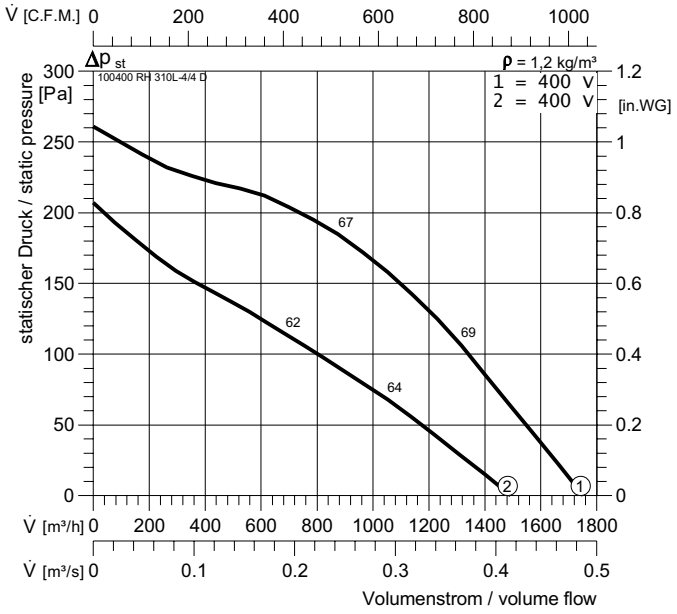




RH

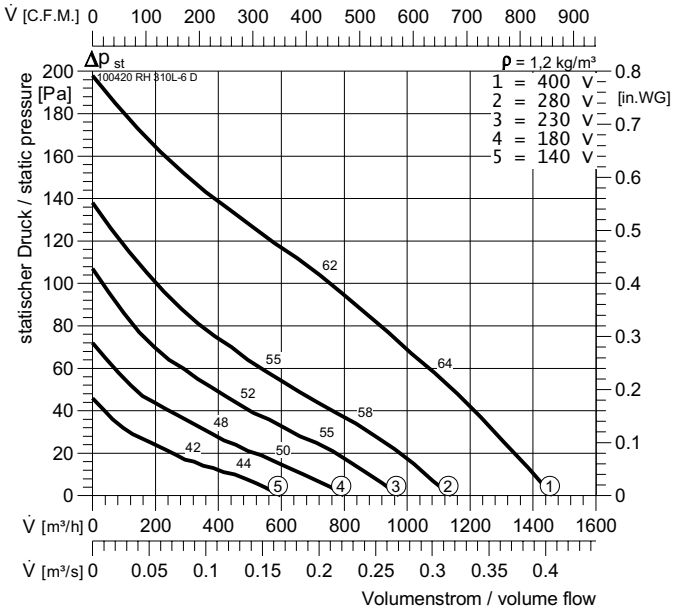
RV, RVS

RH / RV / RVS 310L-4/4 D

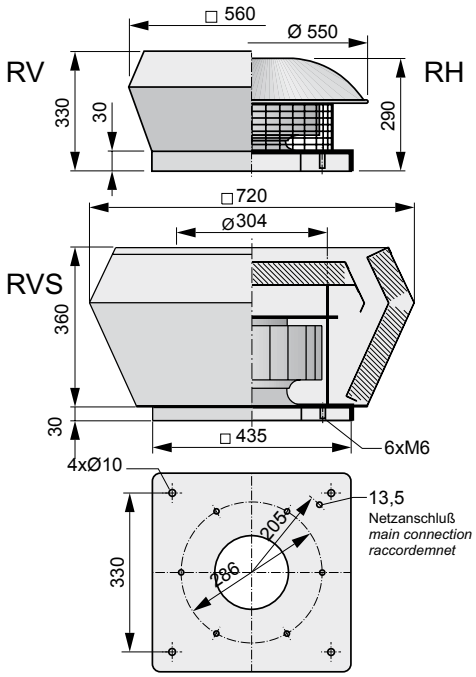


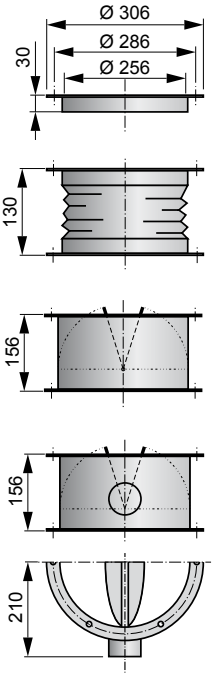
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 310L-4/4 D	100400	12,8	**kg**	$L_{WA\,tot}$	-2	0
RV 310L-4/4 D	102880	13	**kg**	**125 Hz**	-16	-20
RVS 310L-4/4 D	100405	19,4	**kg**	**250 Hz**	-10	-11
U : 400 V 50 Hz	I_A / I_N :	2,3		**500 Hz**	-10	-6
P_1 : 0,15/0,09 **kW**		IP 44		**1 kHz**	-7	-4
I_N : 0,32/0,16 **A**		DU3		**2 kHz**	-8	-7
n : 1320/1030 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 1,2		**8 kHz**	-21	-19
t_R : 50 **°C**		SAD 9				

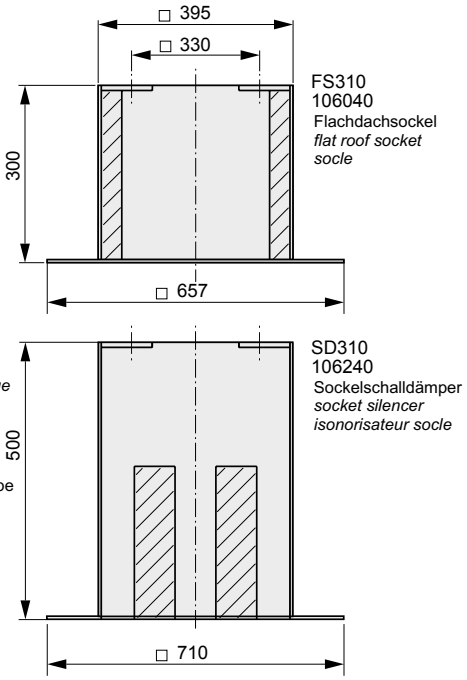
RH / RV / RVS 310L-6 D



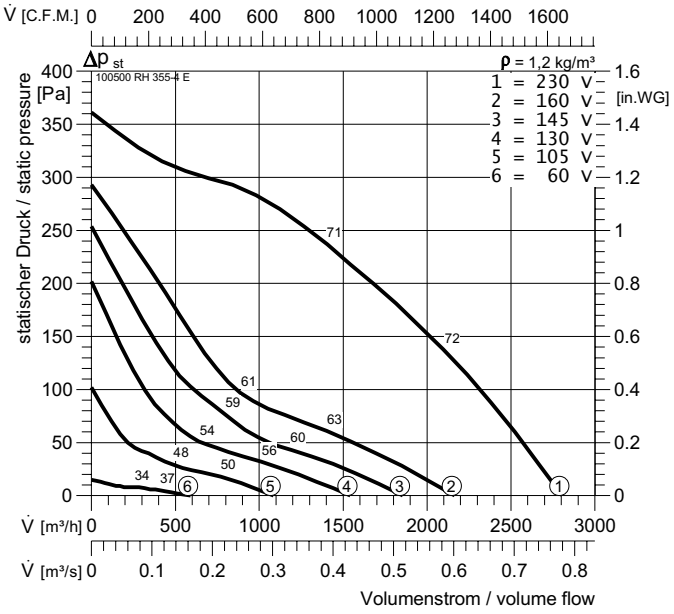
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 310L-6 D	100420	11,8	**kg**	$L_{WA\,tot}$	-2	0
RV 310L-6 D	102900	14	**kg**	**125 Hz**	-16	-20
RVS 310L-6 D	100425	14	**kg**	**250 Hz**	-10	-11
U : 400 V 50 Hz	I_A / I_N :	1,6		**500 Hz**	-10	-6
P_1 : 0,09 **kW**		IP 44		**1 kHz**	-7	-4
I_N : 0,16 **A**		DD0b		**2 kHz**	-8	-7
n : 1000 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 1,2		**8 kHz**	-21	-19
t_R : 50 **°C**		SAD 9				



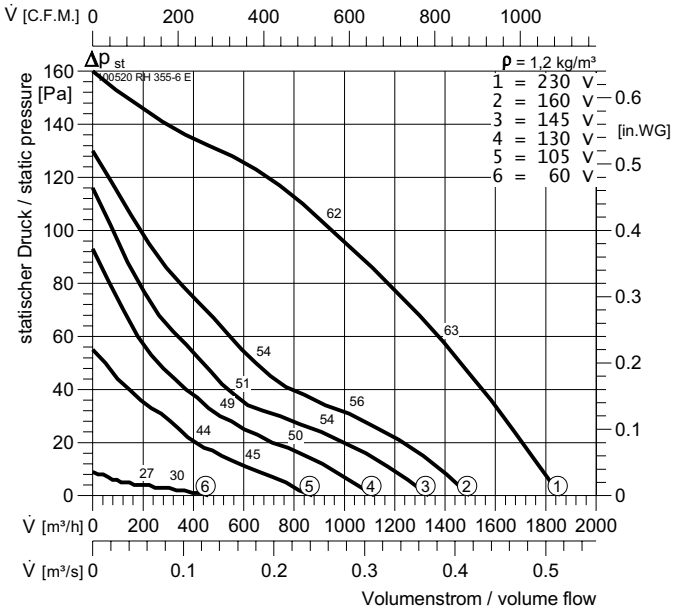




RH / RV / RVS 355-4 E

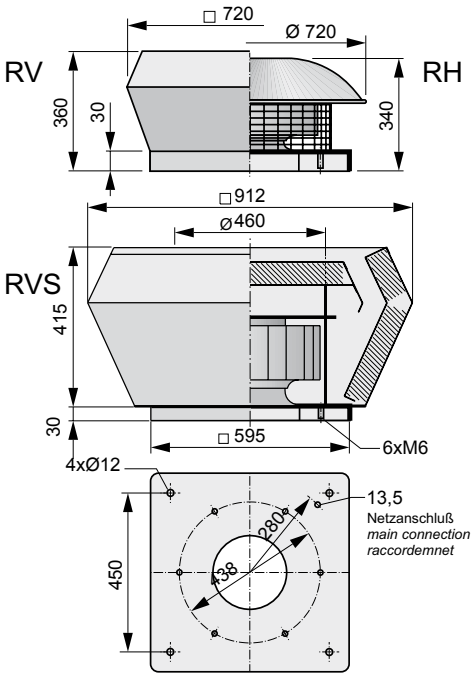


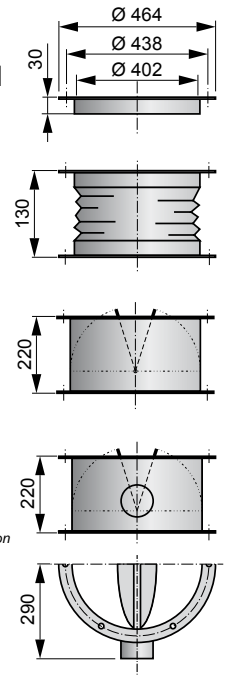
RH / RV / RVS 355-6 E

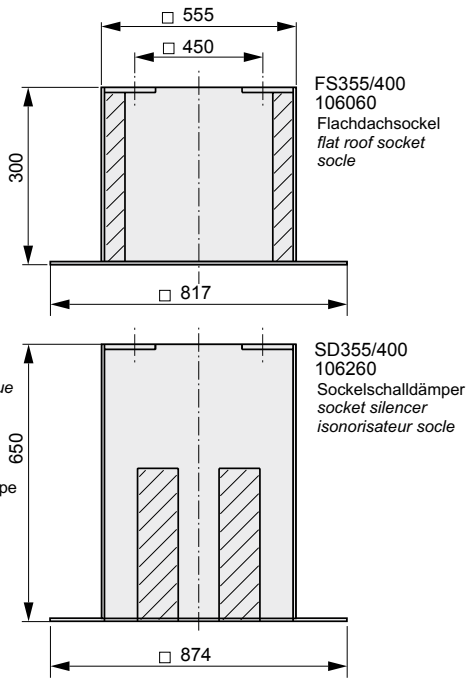


Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 355-4 E	100500	23,8 kg	$L_{WA\ tot}$	-2	0
RV 355-4 E	102980	24,2 kg	**125 Hz**	-16	-20
RVS 355-4 E	100505	28 kg	**250 Hz**	-10	-11
U : 230 V 50 Hz		I_A / I_N : 1,8	**500 Hz**	-10	-6
P_1 : 0,28 kW		IP 54	**1 kHz**	-7	-4
I_N : 1,25 A		E13	**2 kHz**	-8	-7
n : 1255 min^{-1}		GS 1	**4 kHz**	-14	-13
C_{400V} : 5 µF		NE 1,5	**8 kHz**	-21	-19
t_R : 60 °C		RPE 06			

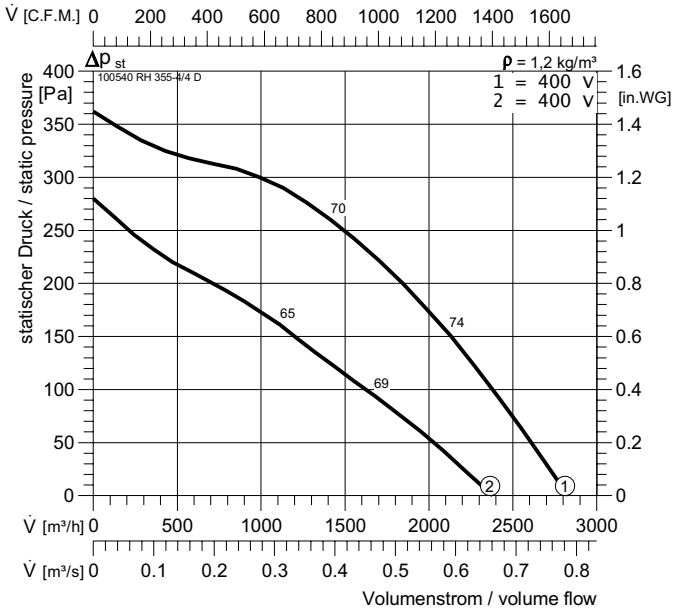
Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 355-6 E	100520	21,6 kg	$L_{WA\ tot}$	-2	0
RV 355-6 E	103000	25,8 kg	**125 Hz**	-16	-20
RVS 355-6 E	100525	28 kg	**250 Hz**	-10	-11
U : 230 V 50 Hz		I_A / I_N : 1,3	**500 Hz**	-10	-6
P_1 : 0,11 kW		IP 54	**1 kHz**	-7	-4
I_N : 0,50 A		E13	**2 kHz**	-8	-7
n : 830 min^{-1}		GS 1	**4 kHz**	-14	-13
C_{400V} : 2 µF		NE 0,5	**8 kHz**	-21	-19
t_R : 60 °C		RPE 02			





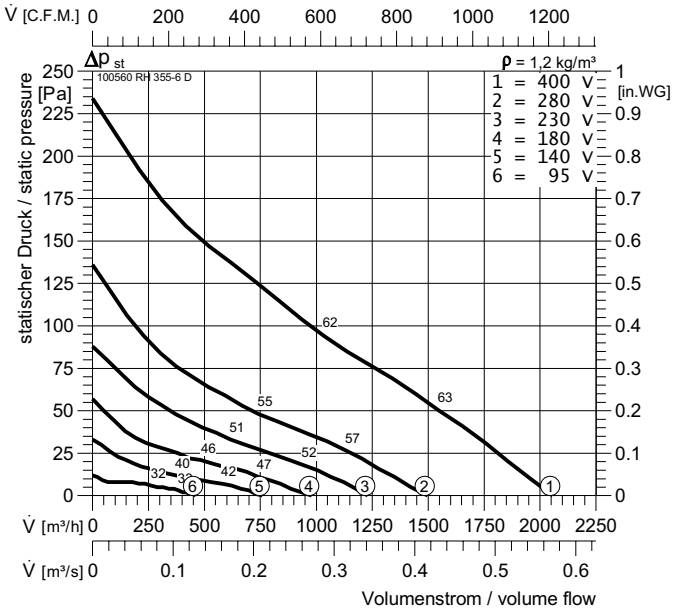


RH / RV / RVS 355-4/4 D

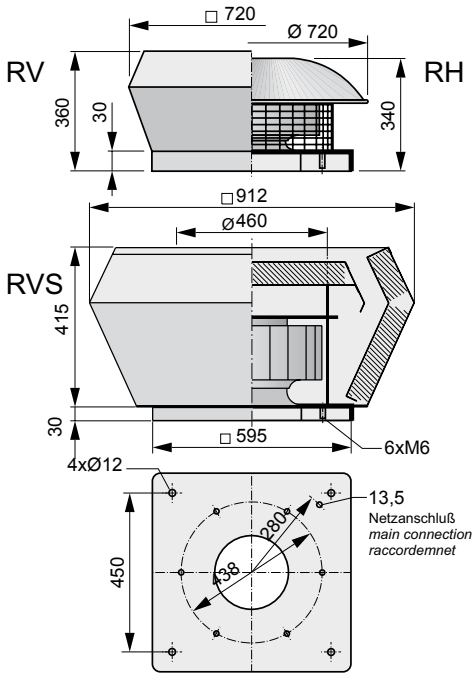


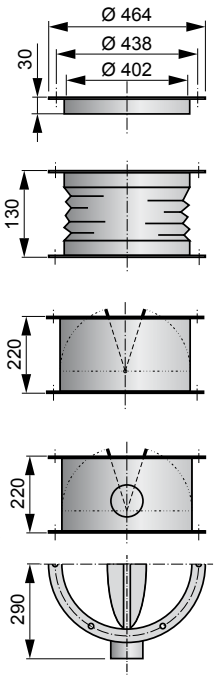
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 355-4/4 D	100540	22,2	kg	$L_{WA\,tot}$	-2	0
RV 355-4/4 D	103020	21	kg	**125 Hz**	-16	-20
RVS 355-4/4 D	100545	28	kg	**250 Hz**	-10	-11
U : 400 V 50 Hz		I_A / I_N :	2,7	**500 Hz**	-10	-6
P_1 : 0,27/0,18 **kW**		IP 54		**1 kHz**	-7	-4
I_N : 0,55/0,3 **A**		DU3		**2 kHz**	-8	-7
n : 1310/1040 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 1,2		**8 kHz**	-21	-19
t_R : 60 **°C**		SAD 9				

RH / RV / RVS 355-6 D



Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 355-6 D	100560	21,6	kg	$L_{WA\,tot}$	-2	0
RV 355-6 D	103040	20,4	kg	**125 Hz**	-16	-20
RVS 355-6 D	100565	28	kg	**250 Hz**	-10	-11
U : 400 V 50 Hz		I_A / I_N :	-	**500 Hz**	-10	-6
P_1 : 0,18 **kW**		IP 54		**1 kHz**	-7	-4
I_N : 0,3 **A**		DD0b		**2 kHz**	-8	-7
n : 1040 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 1,2		**8 kHz**	-21	-19
t_R : 60 **°C**		SAD 9				



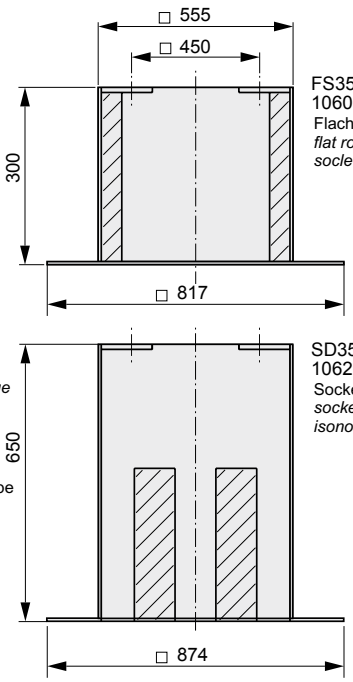


GL355/500
107260
Gegenflansch
flange
bride

EV355/500
107060
elastisches Zwischenstück
elastic connection
connexion élastique

VS355/500
106560
selbstätige Verschlußklappe
automatic shutter
volet de fermeture automatique

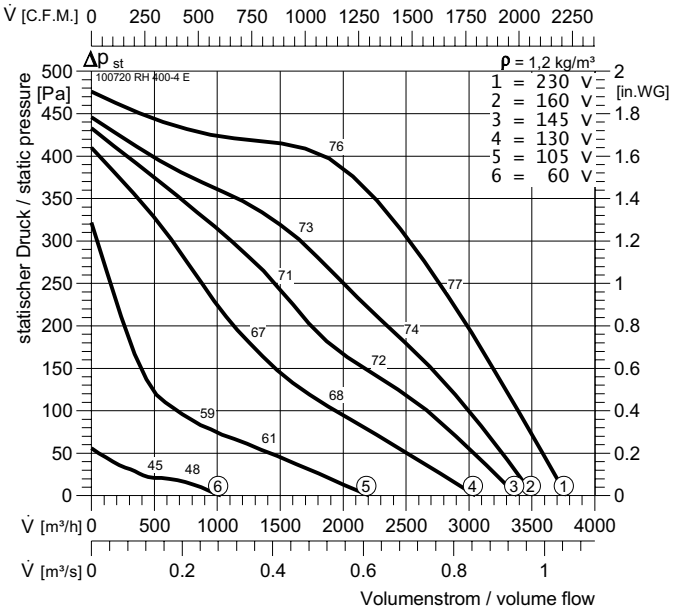
VM355/500
106860
motorbetätigte Verschlußklappe
motor shutter
volet de fermeture moteur



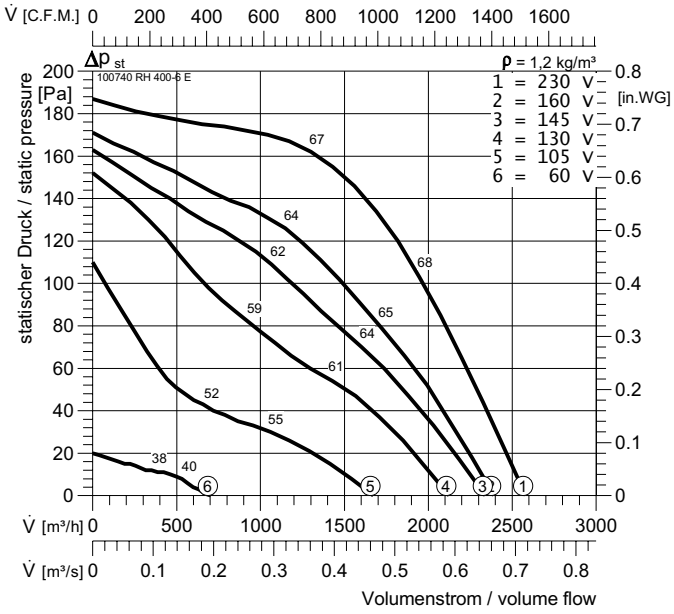
FS355/400
106060
Flachdachsockel
flat roof socket
socle

SD355/400
106260
Sockelschalldämper
socket silencer
isonorisateur socle

RH / RV / RVS 400-4 E

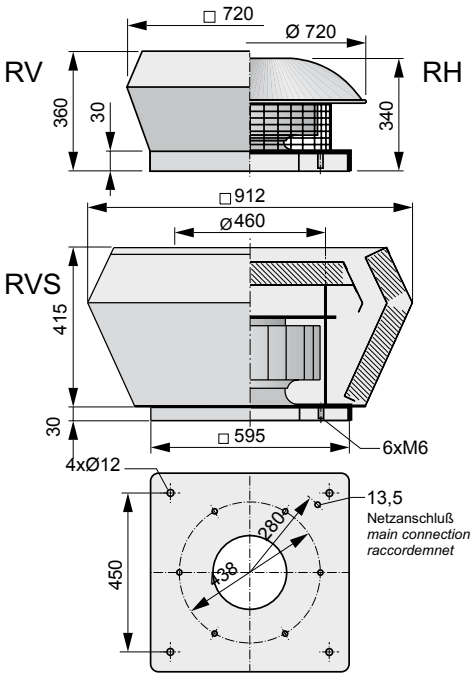


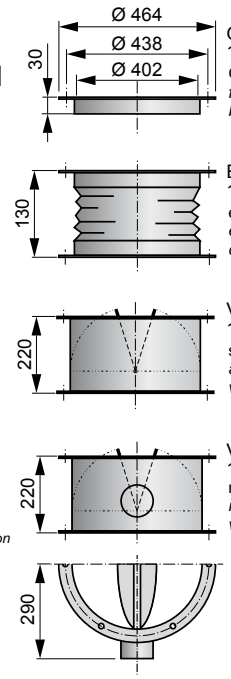
RH / RV / RVS 400-6 E

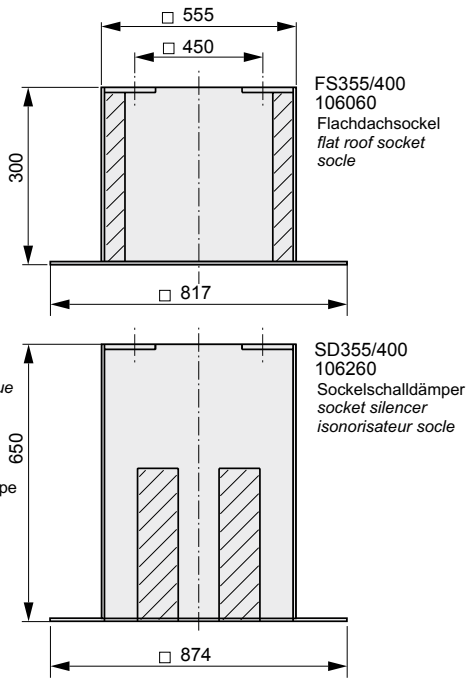


Typ	ArtNr		$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 400-4 E	100720	27 kg	$L_{WA\,tot}$	-3	0
RV 400-4 E	103200	30,8 kg	**125 Hz**	-18	-16
RVS 400-4 E	100725	32 kg	**250 Hz**	-13	-10
U : 230 V 50 Hz		I_A / I_N : 2,65	**500 Hz**	-12	-6
P_1 : 0,52 kW		IP 54	**1 kHz**	-9	-5
I_N : 2,43 A		E13	**2 kHz**	-7	-6
n : 1385 min^{-1}		GS 2	**4 kHz**	-14	-13
C_{400V} : 12 µF		NE 3,2	**8 kHz**	-21	-22
t_R : 45 °C		RPE 06			

Typ	ArtNr		$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 400-6 E	100740	22 kg	$L_{WA\,tot}$	-3	0
RV 400-6 E	103220	24,8 kg	**125 Hz**	-18	-16
RVS 400-6 E	100745	35 kg	**250 Hz**	-13	-10
U : 230 V 50 Hz		I_A / I_N : 2,5	**500 Hz**	-12	-6
P_1 : 0,19 kW		IP 54	**1 kHz**	-9	-5
I_N : 0,88 A		E13	**2 kHz**	-7	-6
n : 920 min^{-1}		GS 2	**4 kHz**	-14	-13
C_{400V} : 4 µF		NE 1,5	**8 kHz**	-21	-22
t_R : 60 °C		RPE 02			



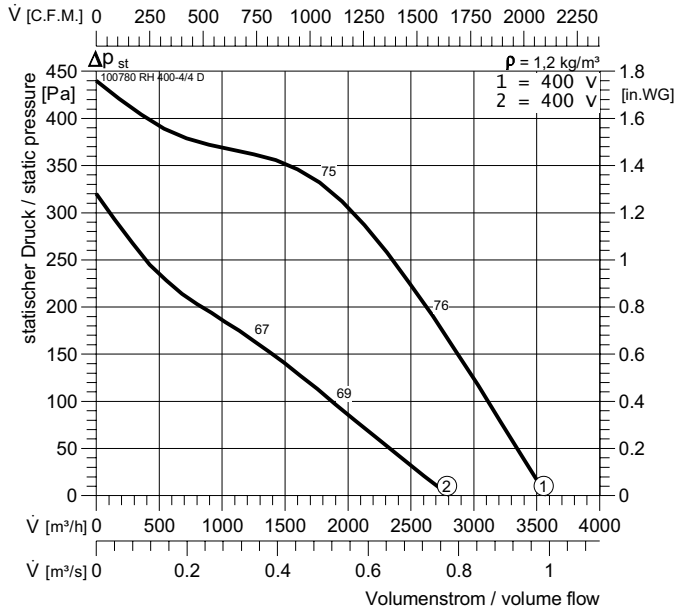





RH

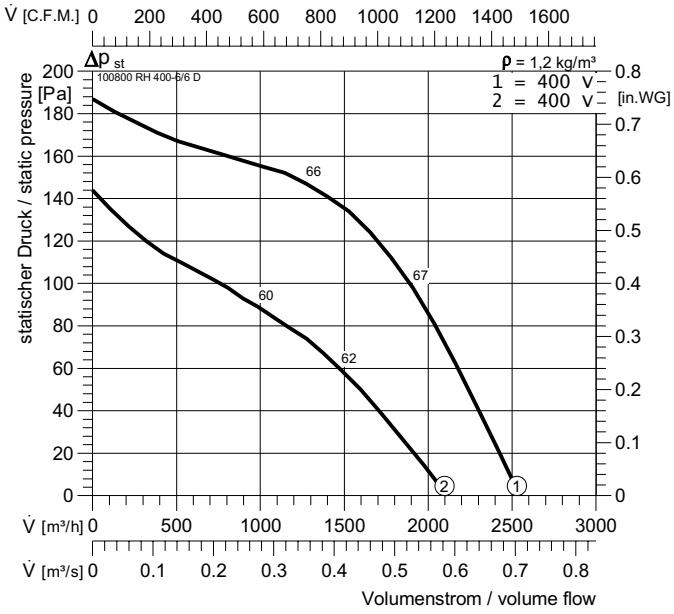

RV, RVS

RH / RV / RVS 400-4/4 D

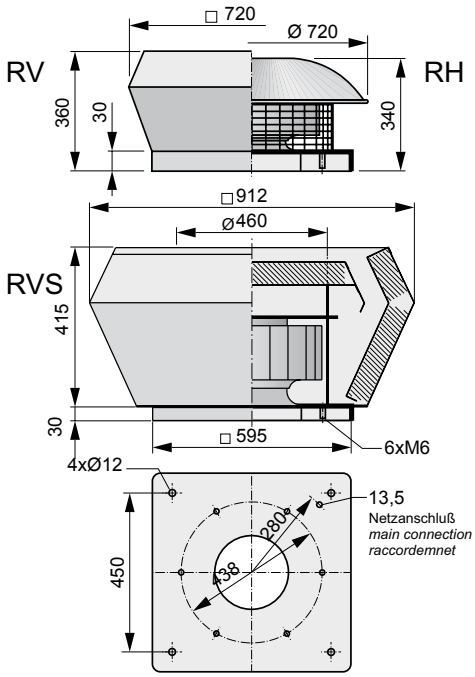


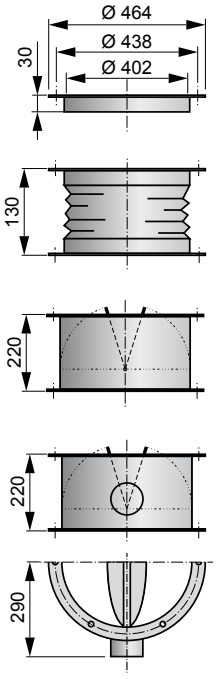
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 400-4/4 D	100780	26,2	kg	$L_{WA\,tot}$	-3	0
RV 400-4/4 D	103260	29,2	kg	**125 Hz**	-18	-16
RVS 400-4/4 D	100785	32	kg	**250 Hz**	-13	-10
U : 400 V 50 Hz	**I_A / I_N :**	2,6		**500 Hz**	-12	-6
P_1 : 0,43/0,27 **kW**		IP 54		**1 kHz**	-9	-5
I_N : 0,74/0,45 **A**		DU3		**2 kHz**	-7	-6
n : 1275/895 **min^{-1}**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 1,2		**8 kHz**	-21	-22
t_R : 40 **°C**		SAD 9				

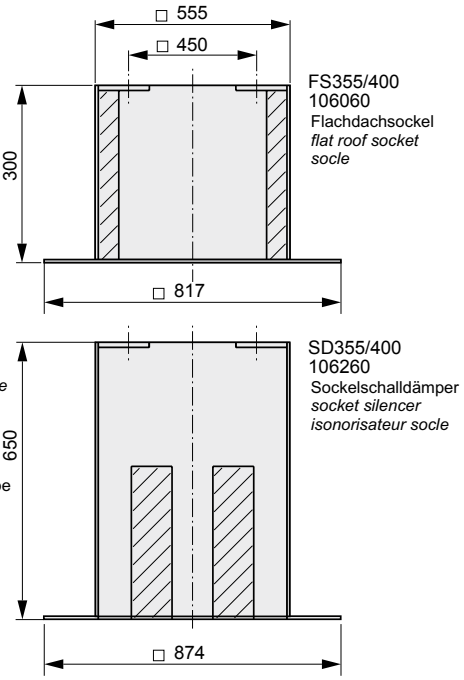
RH / RV / RVS 400-6/6 D



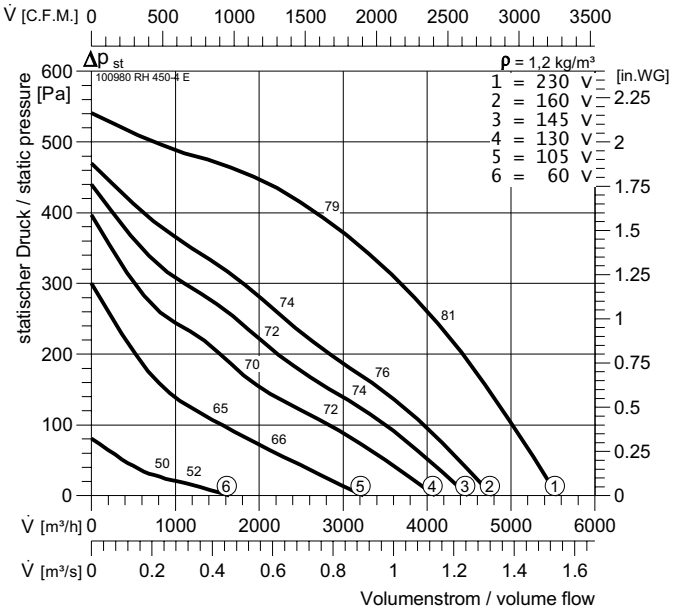
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 400-6/6 D	100800	21	kg	$L_{WA\,tot}$	-3	0
RV 400-6/6 D	103280	24,7	kg	**125 Hz**	-18	-16
RVS 400-6/6 D	100805	32	kg	**250 Hz**	-13	-10
U : 400 V 50 Hz	**I_A / I_N :**	2,8		**500 Hz**	-12	-6
P_1 : 0,15/0,1 **kW**		IP 54		**1 kHz**	-9	-5
I_N : 0,29/0,16 **A**		DU3		**2 kHz**	-7	-6
n : 880/680 **min^{-1}**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 1,2		**8 kHz**	-21	-22
t_R : 60 **°C**		SAD 9				





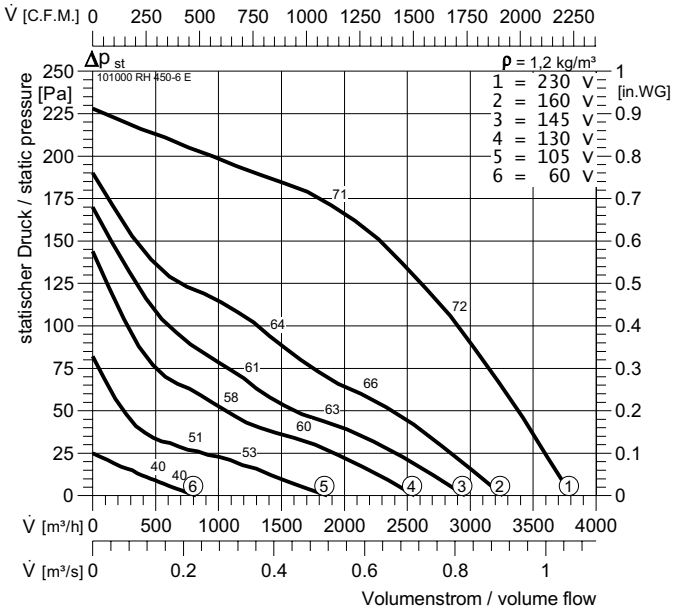


RH / RV / RVS 450-4 E

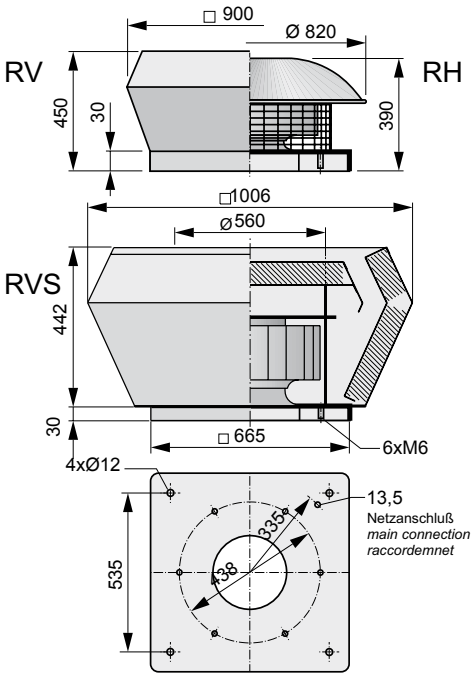


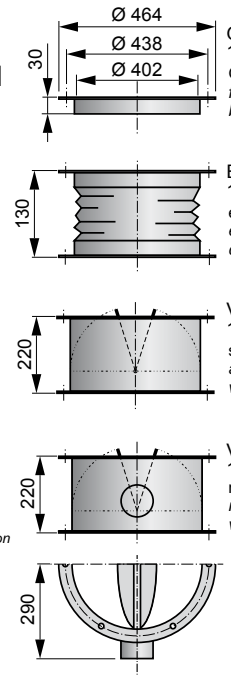
Typ	ArtNr			$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 450-4 E	100980	48	kg	$L_{WA\ tot}$	-3	0
RV 450-4 E	103460	33,2	kg	**125 Hz**	-18	-16
RVS 450-4 E	100985	56	kg	**250 Hz**	-13	-10
U : 230 V 50 Hz		I_A / I_N :	2,0	**500 Hz**	-12	-6
P_1 : 0,8	kW		IP 54	**1 kHz**	-9	-5
I_N : 3,74	A		E13	**2 kHz**	-7	-6
n : 1240	min^{-1}		GS 2	**4 kHz**	-14	-13
C_{400V} : 16	µF		NE 5	**8 kHz**	-21	-22
t_R : 50	°C		RPE 09			

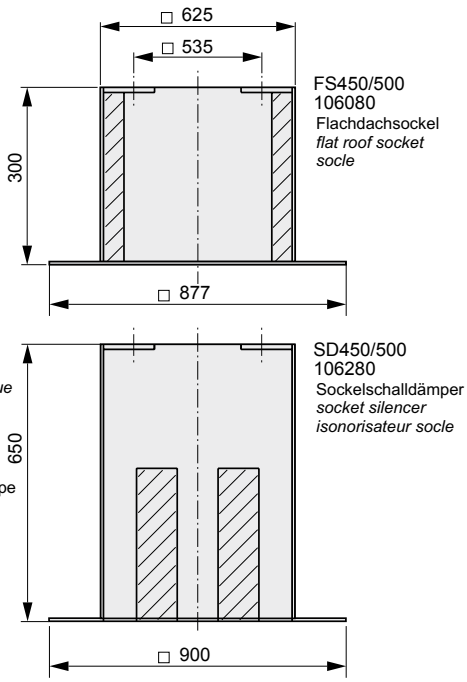
RH / RV / RVS 450-6 E



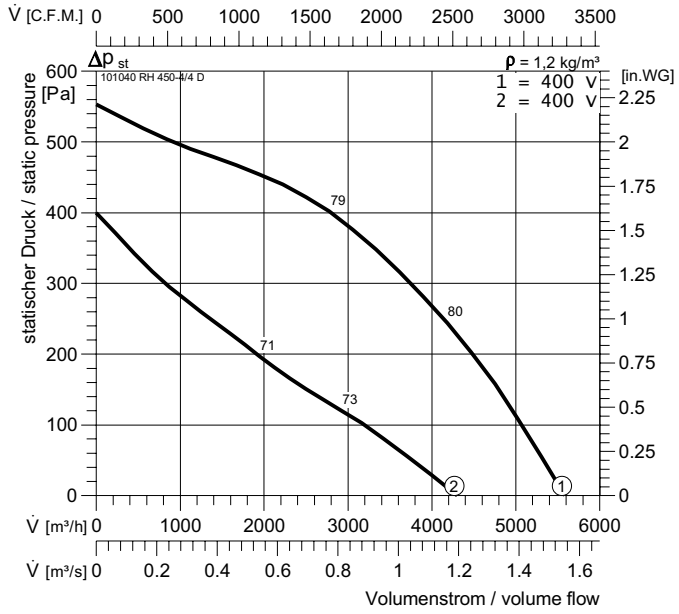
Typ	ArtNr			$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 450-6 E	101000	40	kg	$L_{WA\ tot}$	-3	0
RV 450-6 E	103480	26	kg	**125 Hz**	-18	-16
RVS 450-6 E	101005	56	kg	**250 Hz**	-13	-10
U : 230 V 50 Hz		I_A / I_N :	1,8	**500 Hz**	-12	-6
P_1 : 0,27	kW		IP 54	**1 kHz**	-9	-5
I_N : 1,2	A		E13	**2 kHz**	-7	-6
n : 860	min^{-1}		GS 2	**4 kHz**	-14	-13
C_{400V} : 5	µF		NE 1,5	**8 kHz**	-21	-22
t_R : 50	°C		RPE 06			





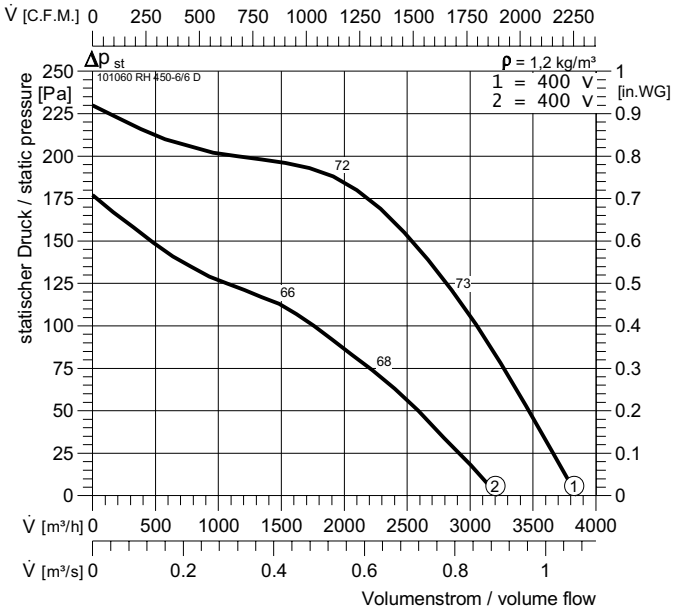


RH / RV / RVS 450-4/4 D

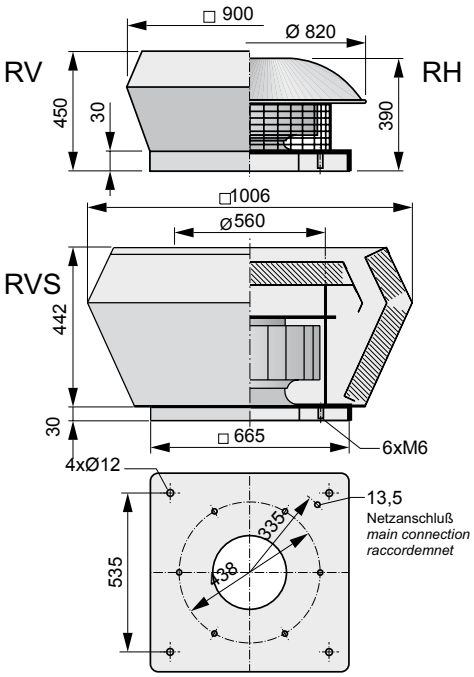


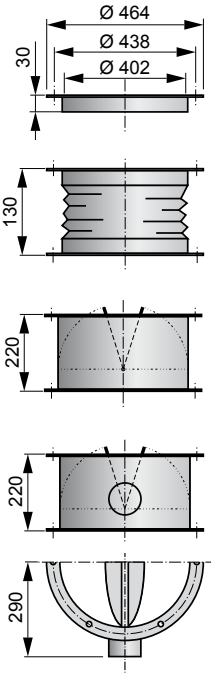
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 450-4/4 D	101040	48,4	**kg**	$L_{WA\,tot}$	-3	0
RV 450-4/4 D	103520	33	**kg**	**125 Hz**	-18	-16
RVS 450-4/4 D	101045	56	**kg**	**250 Hz**	-13	-10
U : 400 V 50 Hz		I_A / I_N : 2,4		**500 Hz**	-12	-6
P_1 : 0,74/0,39 **kW**		IP 54		**1 kHz**	-9	-5
I_N : 1,46/0,75 **A**		DU3		**2 kHz**	-7	-6
n : 1240/855 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 2,5		**8 kHz**	-21	-22
t_R : 40 **°C**		SAD 9				

RH / RV / RVS 450-6/6 D



Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 450-6/6 D	101060	26	**kg**	$L_{WA\,tot}$	-3	0
RV 450-6/6 D	103540	26	**kg**	**125 Hz**	-18	-16
RVS 450-6/6 D	101065	56	**kg**	**250 Hz**	-13	-10
U : 400 V 50 Hz		I_A / I_N : 2,9		**500 Hz**	-12	-6
P_1 : 0,27/0,18 **kW**		IP 54		**1 kHz**	-9	-5
I_N : 0,56/0,31 **A**		DU3		**2 kHz**	-7	-6
n : 895/710 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 1,2		**8 kHz**	-21	-22
t_R : 60 **°C**		SAD 9				



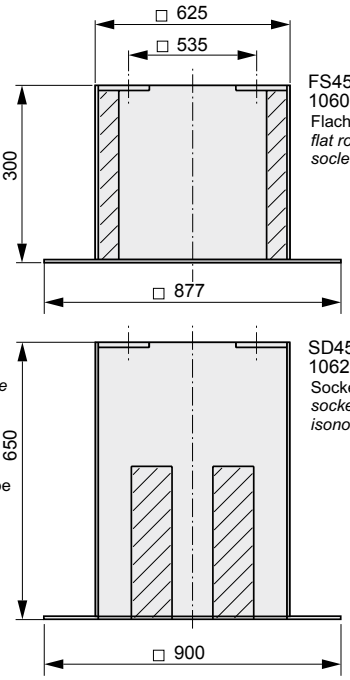


GL355/500
107260
Gegenflansch
flange
bride

EV355/500
107060
elastisches Zwischenstück
elastic connection
connexion élastique

VS355/500
106560
selbstätige Verschlußklappe
automatic shutter
volet de fermeture automatique

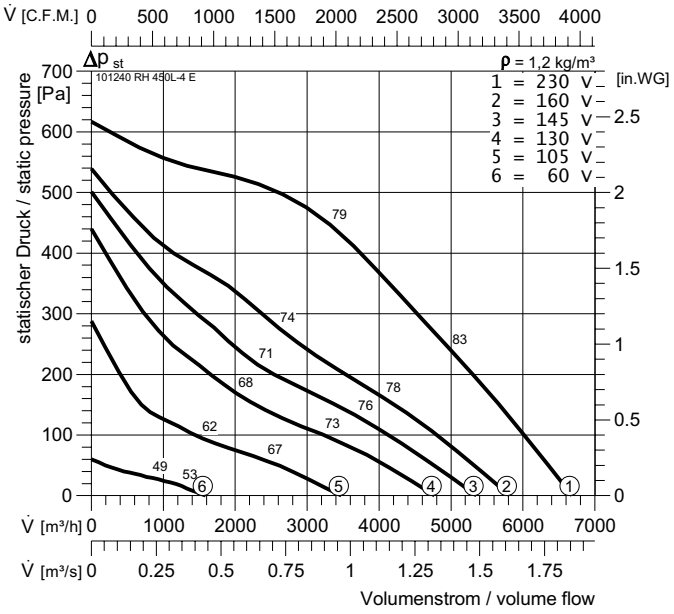
VM355/500
106860
motorbetätigte Verschlußklappe
motor shutter
volet de fermeture moteur



FS450/500
106080
Flachdachsockel
flat roof socket
socle

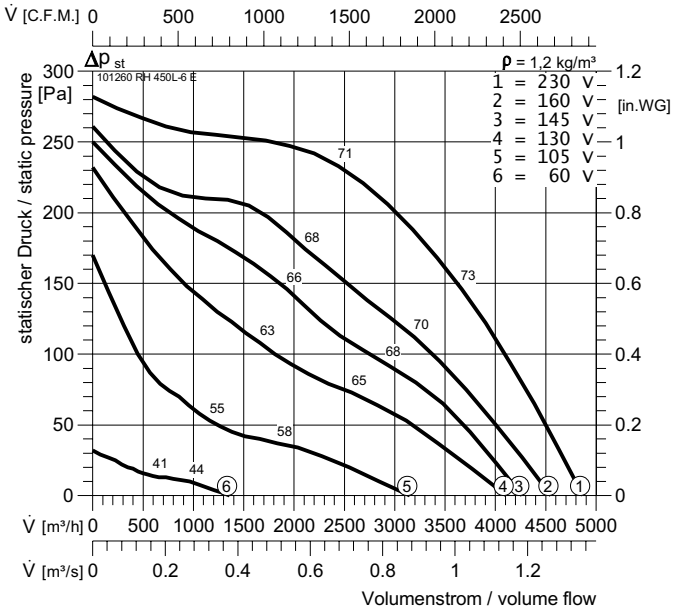
SD450/500
106280
Sockelschalldämper
socket silencer
isonorisateur socle

RH / RV / RVS 450L-4 E

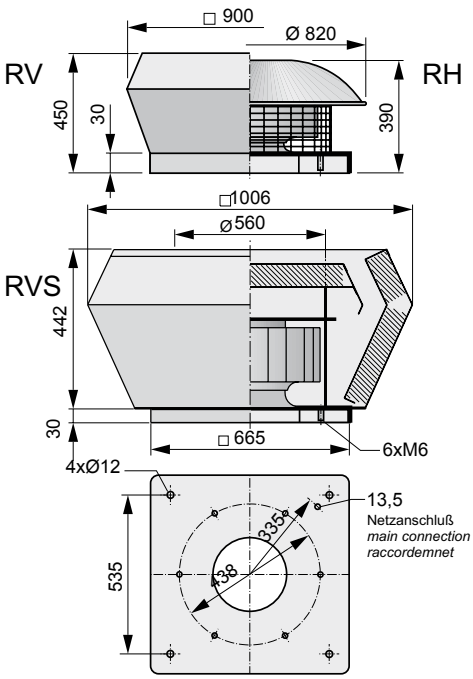


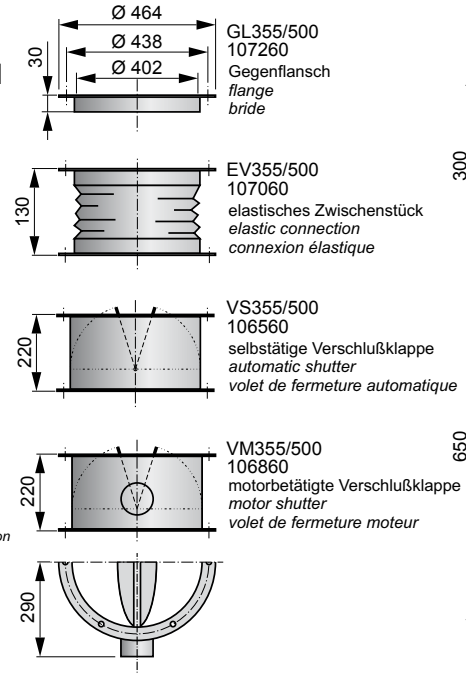
Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 450L-4 E	101240	34,8 kg	$L_{WA\ tot}$	-3	0
RV 450L-4 E	103720	39,4 kg	**125 Hz**	-18	-16
RVS 450L-4 E	101245	56 kg	**250 Hz**	-13	-10
U : 230 V 50 Hz		I_A / I_N : 2,1	**500 Hz**	-12	-6
P_1 : 1,1 kW		IP 54	**1 kHz**	-9	-5
I_N : 5,0 A		E13	**2 kHz**	-7	-6
n : 1310 min^{-1}		GS 2	**4 kHz**	-14	-13
C_{400V} : 25 µF		NE 5	**8 kHz**	-21	-22
t_R : 50 °C		RPE 09			

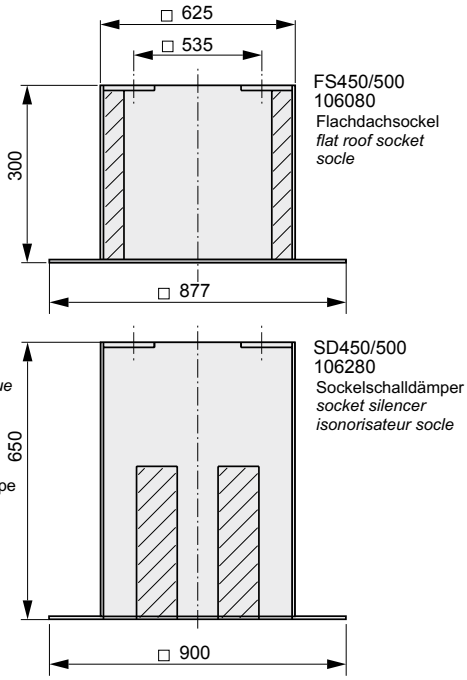
RH / RV / RVS 450L-6 E

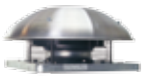


Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 450L-6 E	101260	27,1 kg	$L_{WA\ tot}$	-3	0
RV 450L-6 E	103740	45 kg	**125 Hz**	-18	-16
RVS 450L-6 E	101265	56 kg	**250 Hz**	-13	-10
U : 230 V 50 Hz		I_A / I_N : 2,4	**500 Hz**	-12	-6
P_1 : 0,43 kW		IP 54	**1 kHz**	-9	-5
I_N : 2,0 A		E13	**2 kHz**	-7	-6
n : 920 min^{-1}		GS 2	**4 kHz**	-14	-13
C_{400V} : 10 µF		NE 3,2	**8 kHz**	-21	-22
t_R : 40 °C		RPE 06			





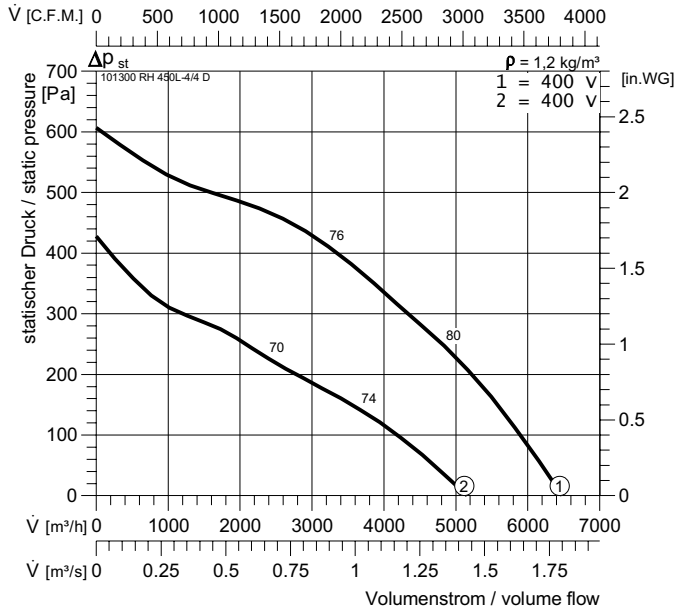




RH

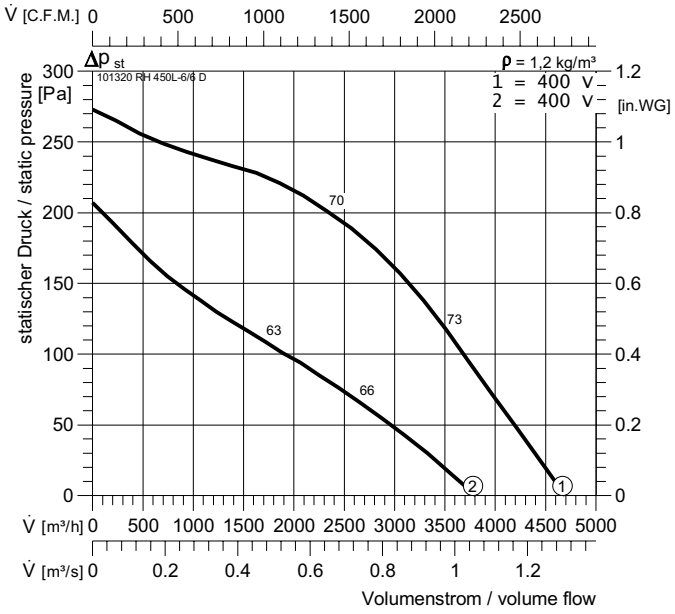
RV, RVS

RH / RV / RVS 450L-4/4 D

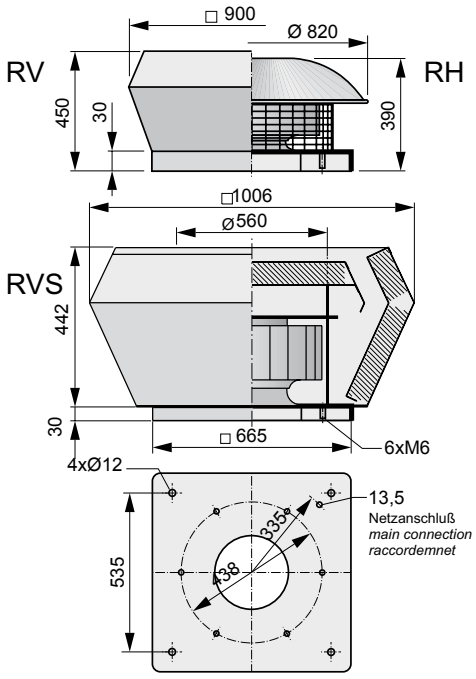


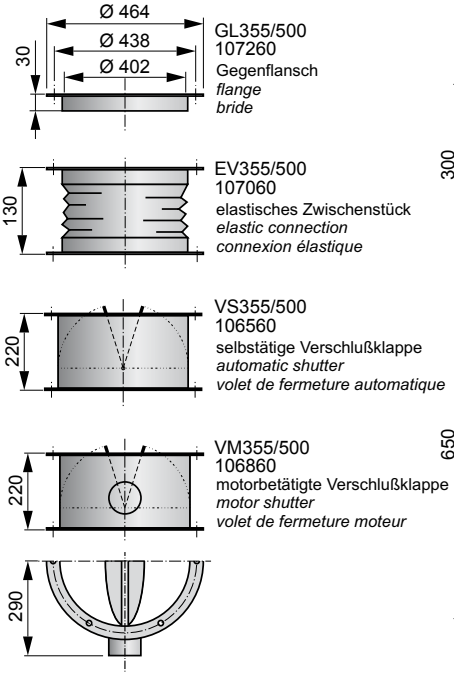
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 450L-4/4 D	101300	30,5	kg	$L_{WA\,tot}$	-3	0
RV 450L-4/4 D	103780	56,8	kg	**125 Hz**	-18	-16
RVS 450L-4/4 D	101305	56	kg	**250 Hz**	-13	-10
U : 400 V 50 Hz		I_A / I_N :	2,6	**500 Hz**	-12	-6
P_1 : 0,9/0,5 **kW**			IP 54	**1 kHz**	-9	-5
I_N : 1,78/0,86 **A**			DU3	**2 kHz**	-7	-6
n : 1185/885 **min⁻¹**			GS 2	**4 kHz**	-14	-13
C_{400V} : - **µF**			RTD 2,5	**8 kHz**	-21	-22
t_R : 40 **°C**			SAD 9			

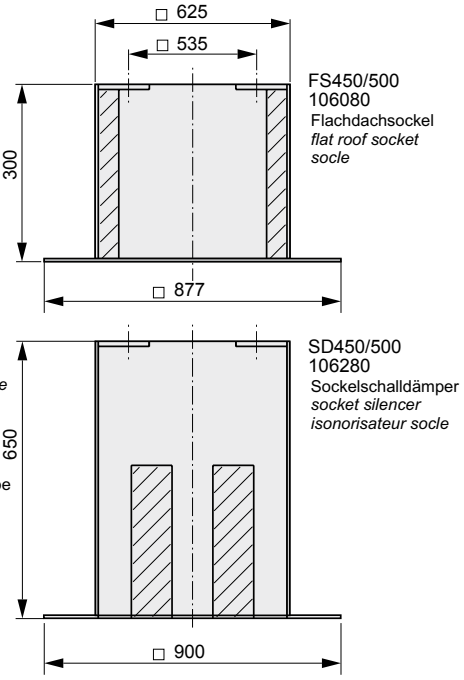
RH / RV / RVS 450L-6/6 D



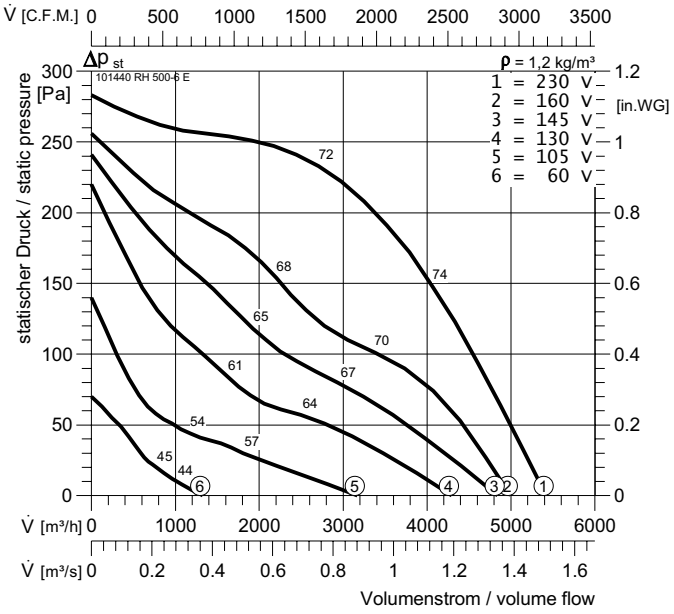
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 450L-6/6 D	101320	41	kg	$L_{WA\,tot}$	-3	0
RV 450L-6/6 D	103800	41	kg	**125 Hz**	-18	-16
RVS 450L-6/6 D	101325	56	kg	**250 Hz**	-13	-10
U : 400 V 50 Hz		I_A / I_N :	2,7	**500 Hz**	-12	-6
P_1 : 0,35/0,22 **kW**			IP 54	**1 kHz**	-9	-5
I_N : 0,64/0,35 **A**			DU3	**2 kHz**	-7	-6
n : 855/620 **min⁻¹**			GS 2	**4 kHz**	-14	-13
C_{400V} : - **µF**			RTD 1,2	**8 kHz**	-21	-22
t_R : 60 **°C**			SAD 9			





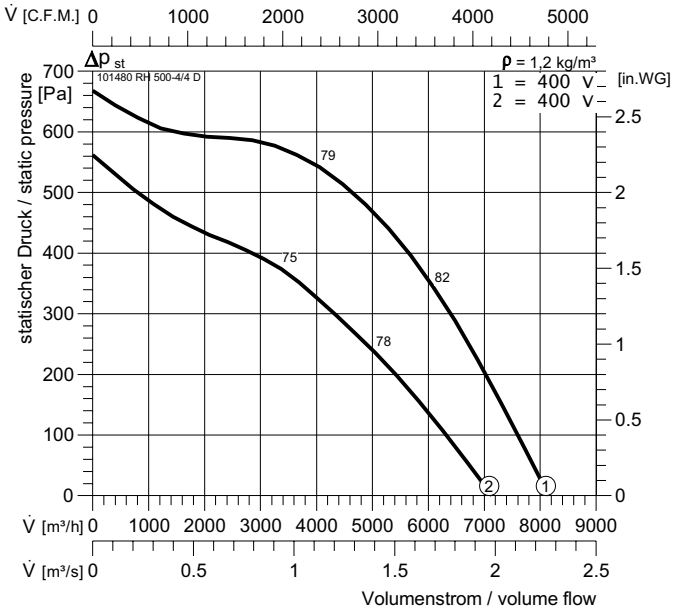


RH / RV / RVS 500-6 E

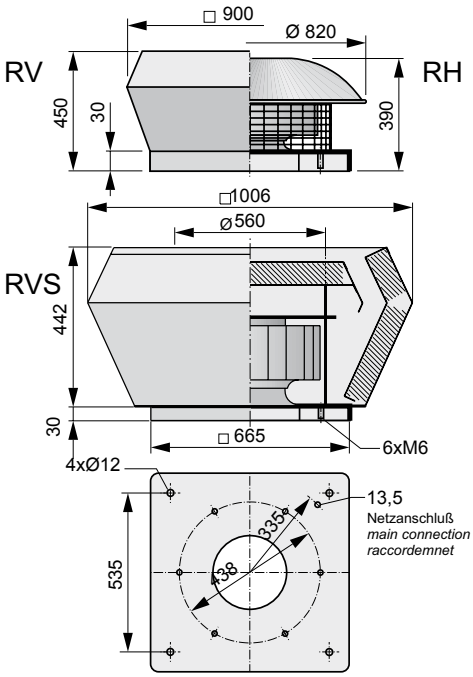


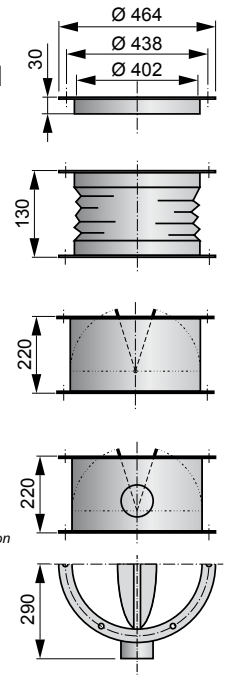
Typ	ArtNr			$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 500-6 E	101440	27	kg	$L_{WA\ tot}$	-3	0
RV 500-6 E	103920	36	kg	**125 Hz**	-17	-16
RVS 500-6 E	101445	68	kg	**250 Hz**	-11	-8
U : 230 V 50 Hz		I_A / I_N :	2,1	**500 Hz**	-11	-6
P_1 : 0,49 **kW**		IP 54		**1 kHz**	-8	-5
I_N : 2,2 **A**		E13		**2 kHz**	-9	-8
n : 900 **min⁻¹**		GS 2		**4 kHz**	-15	-14
C_{400V} : 10 **µF**		NE 3,2		**8 kHz**	-21	-23
t_R : 40 **°C**		RPE 06				

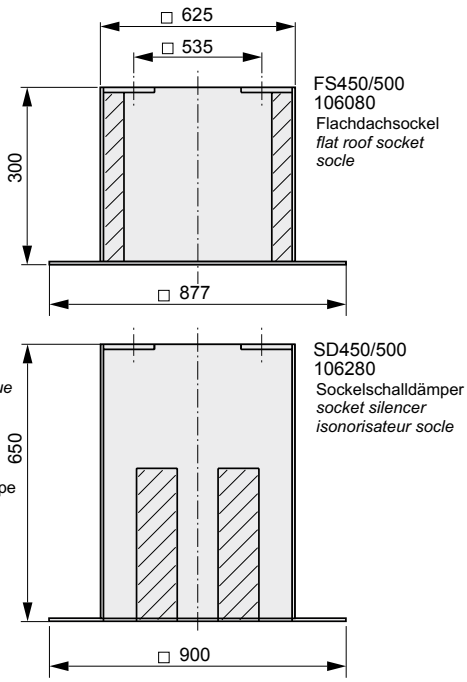
RH / RV / RVS 500-4/4 D



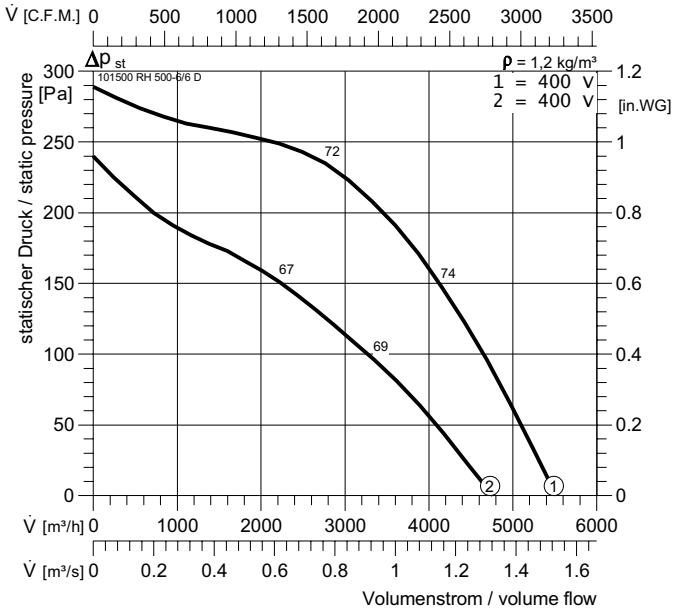
Typ	ArtNr			$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 500-4/4 D	101480	46	kg	$L_{WA\ tot}$	-3	0
RV 500-4/4 D	103960	51	kg	**125 Hz**	-17	-16
RVS 500-4/4 D	101485	51	kg	**250 Hz**	-11	-8
U : 400 V 50 Hz		I_A / I_N :	3,9	**500 Hz**	-11	-6
P_1 : 1,35/0,97 **kW**		IP 54		**1 kHz**	-8	-5
I_N : 2,6/1,6 **A**		DU3		**2 kHz**	-9	-8
n : 1360/1130 **min⁻¹**		GS 2		**4 kHz**	-15	-14
C_{400V} : - **µF**		RTD 3		**8 kHz**	-21	-23
t_R : 50 **°C**		SAD 9				





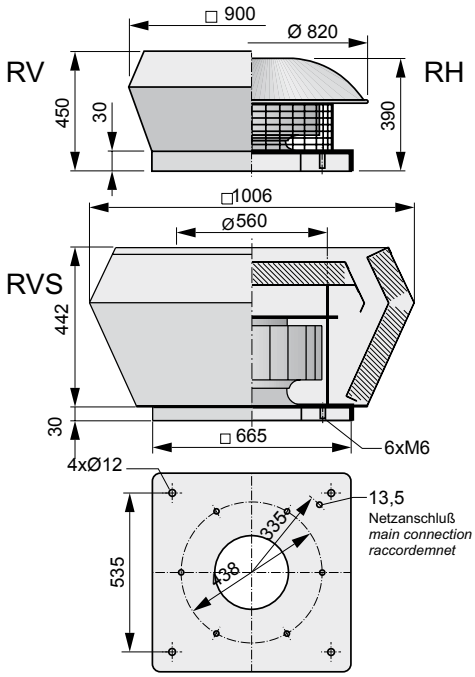


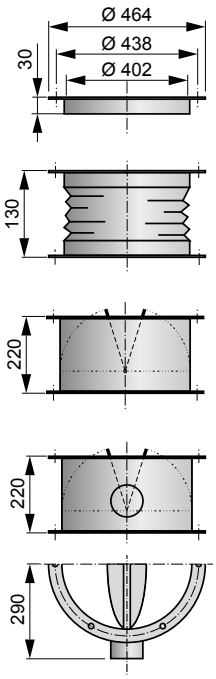
RH / RV / RVS 500-6/6 D

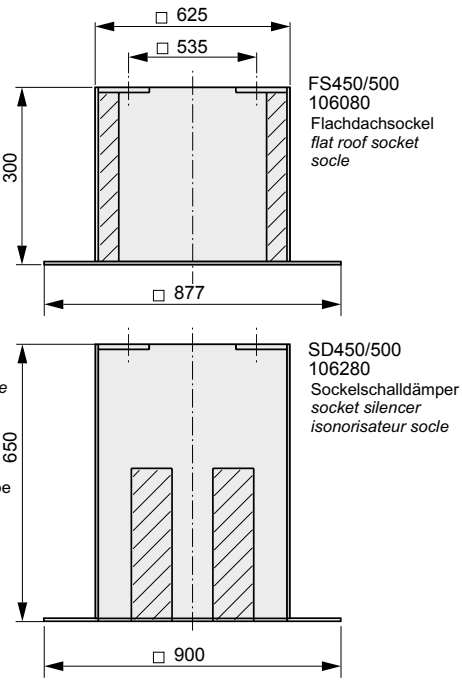


Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 500-6/6 D	101500	42 kg	$L_{WA\ tot}$	-3	0
RV 500-6/6 D	103980	42 kg	**125 Hz**	-17	-16
RVS 500-6/6 D	101505	68 kg	**250 Hz**	-11	-8
U : 400 V 50 Hz	**I_A / I_N :**	2,9	**500 Hz**	-11	-6
P_1 : 0,44/0,31 **kW**		IP 54	**1 kHz**	-8	-5
I_N : 0,86/0,52 **A**		DU3	**2 kHz**	-9	-8
n : 900/710 **min^{-1}**		GS 2	**4 kHz**	-15	-14
C_{400V} : - **µF**		RTD 1,2	**8 kHz**	-21	-23
t_R : 60 **°C**		SAD 9			

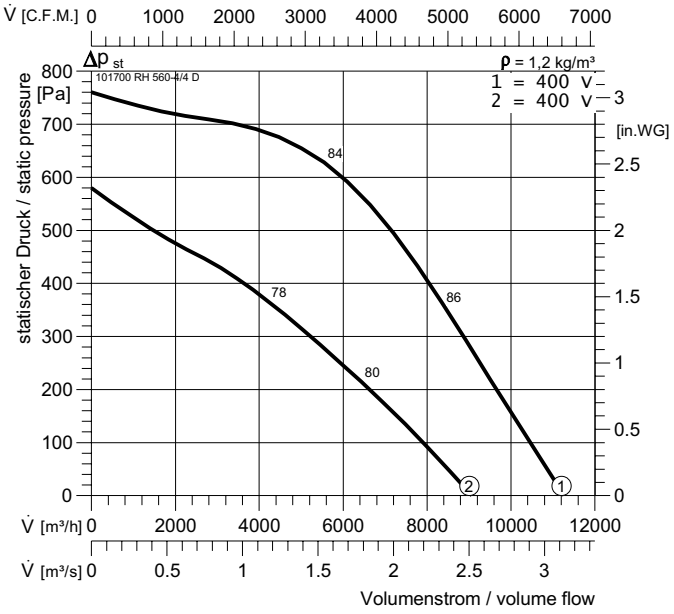
Kopfzeile



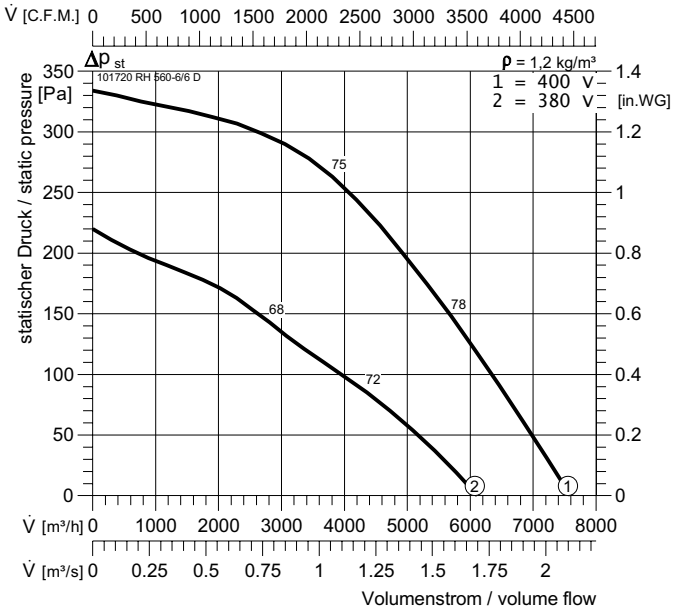




RH / RV / RVS 560-4/4 D

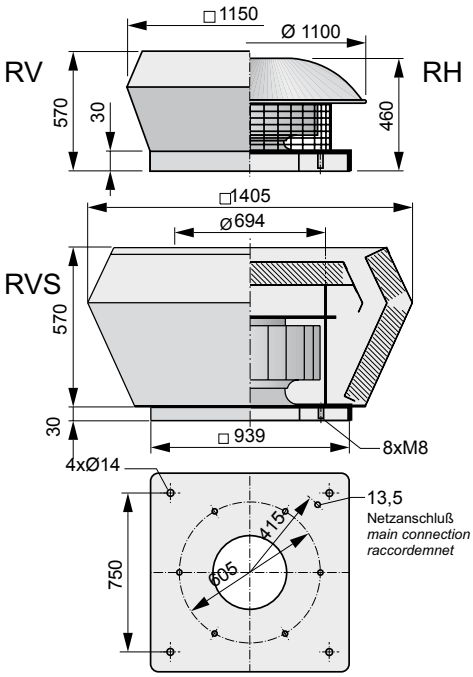


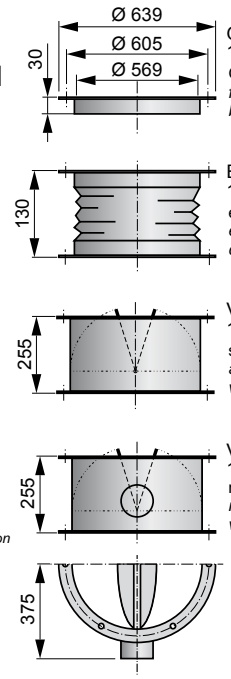
RH / RV / RVS 560-6/6 D

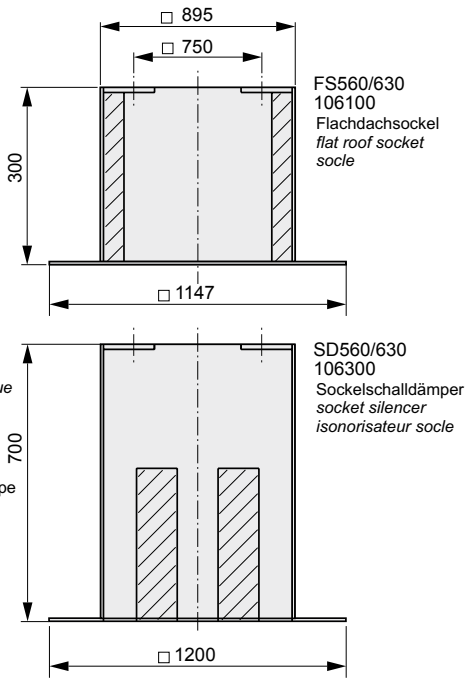


Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 560-4/4 D	101700	64 kg	$L_{WA\ tot}$	-3	0
RV 560-4/4 D	104180	64 kg	**125 Hz**	-17	-16
RVS 560-4/4 D	101705	97 kg	**250 Hz**	-11	-8
U : 400 V 50 Hz		I_A / I_N : 3,1	**500 Hz**	-11	-6
P_1 : 2,16/1,35 **kW**		IP 54	**1 kHz**	-8	-5
I_N : 4,1/2,3 **A**		DU3	**2 kHz**	-9	-8
n : 1305/985 **min⁻¹**		GS 2	**4 kHz**	-15	-14
C_{400V} : - **µF**		RTD 5	**8 kHz**	-21	-23
t_R : 40 **°C**		SAD 9			

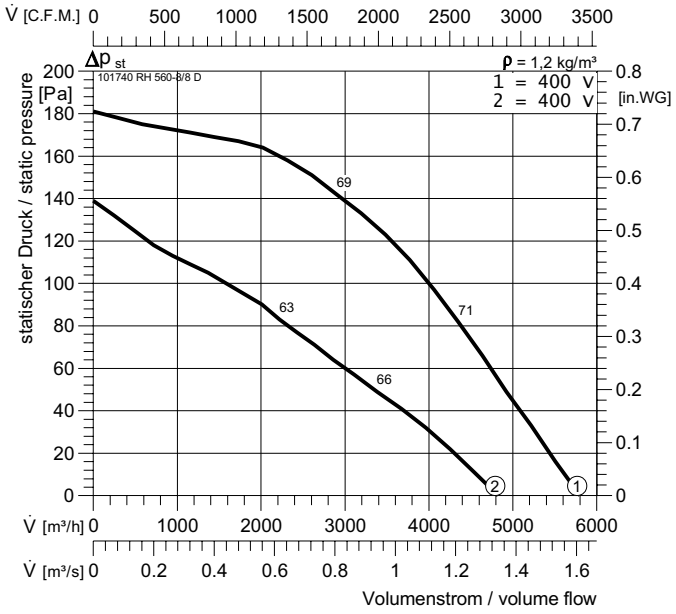
Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 560-6/6 D	101720	80 kg	$L_{WA\ tot}$	-3	0
RV 560-6/6 D	104200	81,4 kg	**125 Hz**	-17	-16
RVS 560-6/6 D	101725	87 kg	**250 Hz**	-11	-8
U : 400 V 50 Hz		I_A / I_N : 2,8	**500 Hz**	-11	-6
P_1 : 0,7/0,44 **kW**		IP 54	**1 kHz**	-8	-5
I_N : 1,4/0,77 **A**		DU3	**2 kHz**	-9	-8
n : 870/650 **min⁻¹**		GS 2	**4 kHz**	-15	-14
C_{400V} : - **µF**		RTD 2,5	**8 kHz**	-21	-23
t_R : 40 **°C**		SAD 9			



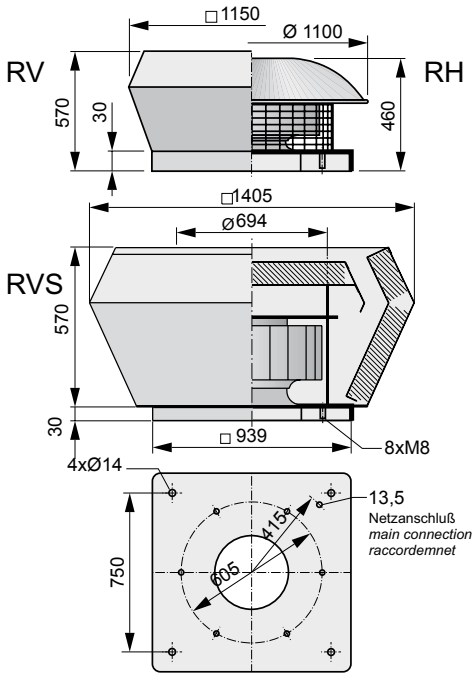


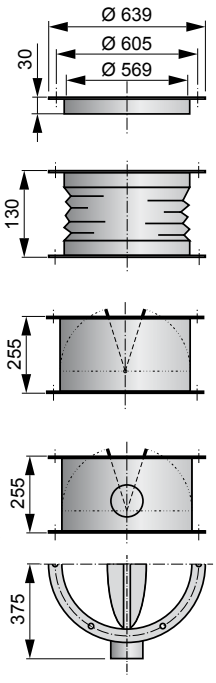


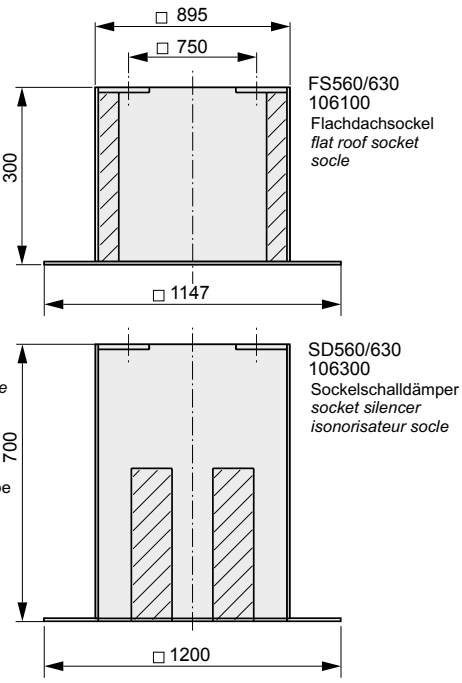
RH / RV / RVS 560-8/8 D



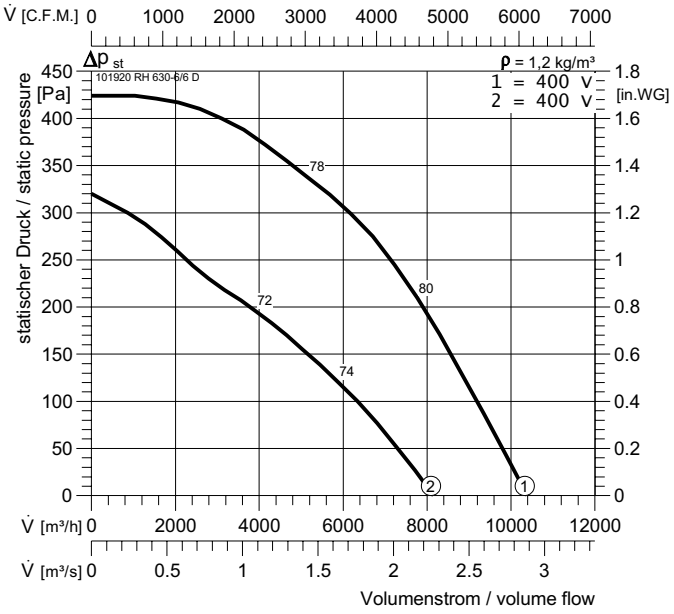
Typ	ArtNr		$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 560-8/8 D	101740	68 kg	$L_{WA\ tot}$	0	-23
RV 560-8/8 D	104220	68 kg	**125 Hz**	-28	-3
RVS 560-8/8 D	101745	87 kg	**250 Hz**	-16	-23
U : 400 V 50 Hz	**I_A / I_N :**	2,3	**500 Hz**	-8	-17
P_1 : 0,32/0,19 **kW**		IP 54	**1 kHz**	-6	-12
I_N : 0,77/0,37 **A**		DU3	**2 kHz**	-5	-11
n : 645/475 **min^{-1}**		GS 2	**4 kHz**	-8	-8
C_{400V} : - **µF**		RTD 1,2	**8 kHz**	-15	-9
t_R : 40 **°C**		SAD 9			





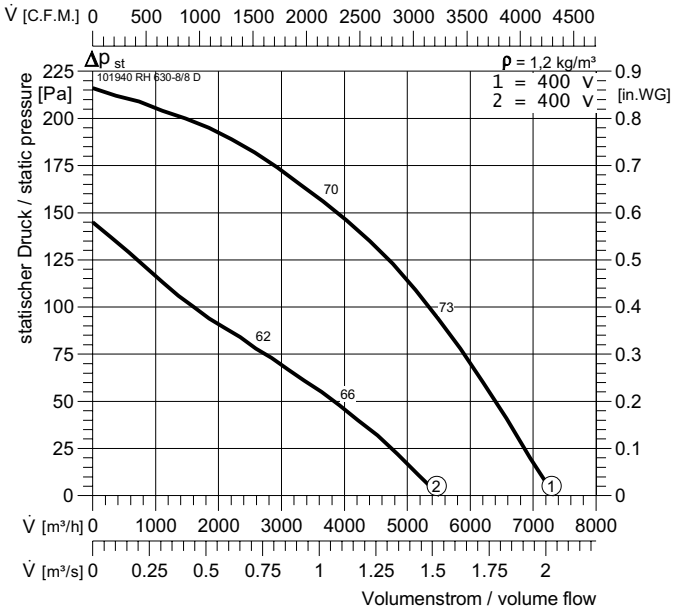


RH / RV / RVS 630-6/6 D

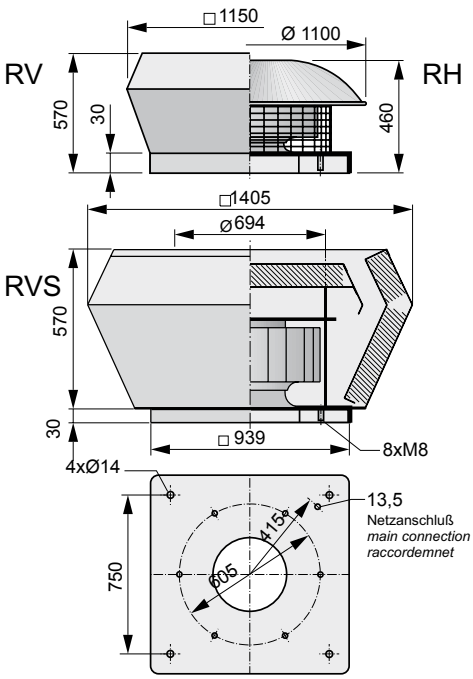


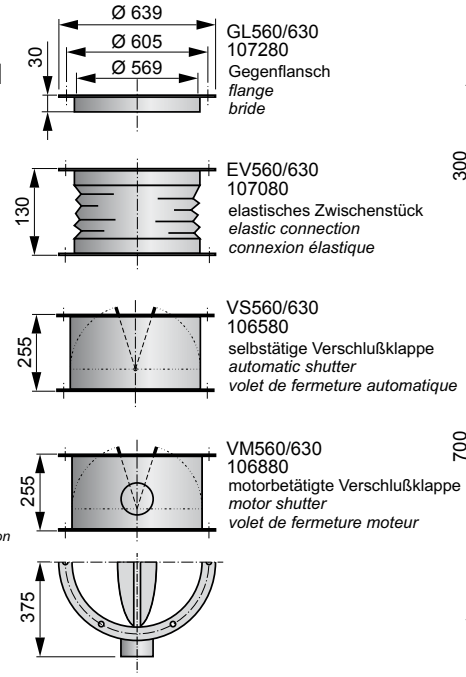
Typ	ArtNr			$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 630-6/6 D	101920	65	kg	$L_{WA\ tot}$	-3	0
RV 630-6/6 D	104400	65	kg	**125 Hz**	-18	-16
RVS 630-6/6 D	101925	97	kg	**250 Hz**	-13	-9
U : 400 V 50 Hz		I_A / I_N :	3,3	**500 Hz**	-12	-5
P_1 : 1,1/0,66 **kW**		IP 54		**1 kHz**	-7	-5
I_N : 2,1/1,15 **A**		DU3		**2 kHz**	-9	-8
n : 860/670 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 2,5		**8 kHz**	-22	-21
t_R : 50 **°C**		SAD 9				

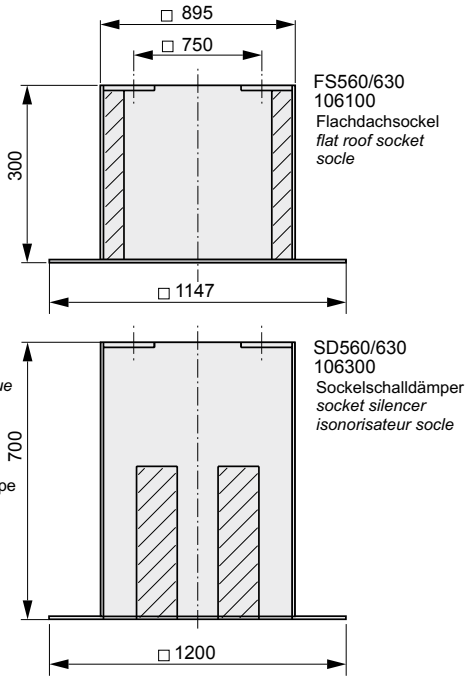
RH / RV / RVS 630-8/8 D



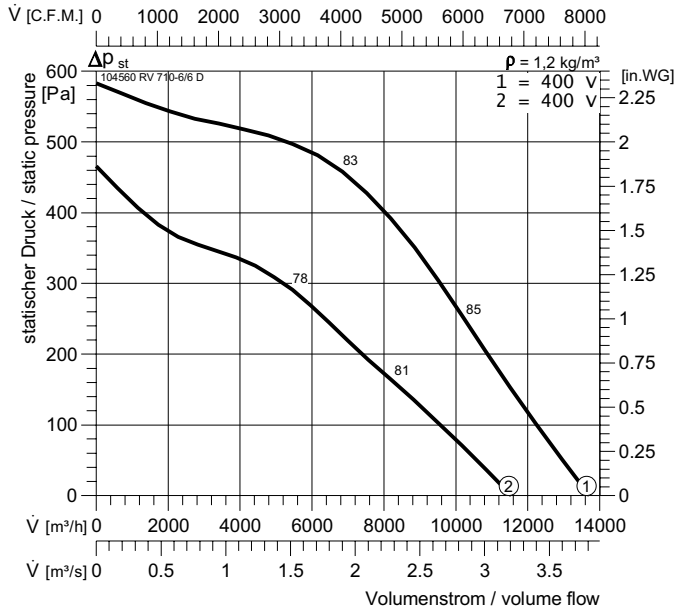
Typ	ArtNr			$L_{WA\ rel}$ ΔdB	L_{WA5}	L_{WA8}
RH 630-8/8 D	101940	65	kg	$L_{WA\ tot}$	-3	0
RV 630-8/8 D	104420	65	kg	**125 Hz**	-18	-16
RVS 630-8/8 D	101945	97	kg	**250 Hz**	-13	-9
U : 400 V 50 Hz		I_A / I_N :	-	**500 Hz**	-12	-5
P_1 : 0,47/0,24 **kW**		IP 54		**1 kHz**	-7	-5
I_N : 1,25/0,52 **A**				**2 kHz**	-9	-8
n : 600/430 **min⁻¹**		GS 2		**4 kHz**	-14	-13
C_{400V} : - **µF**		RTD 2,5		**8 kHz**	-22	-21
t_R : 50 **°C**		SAD 9				





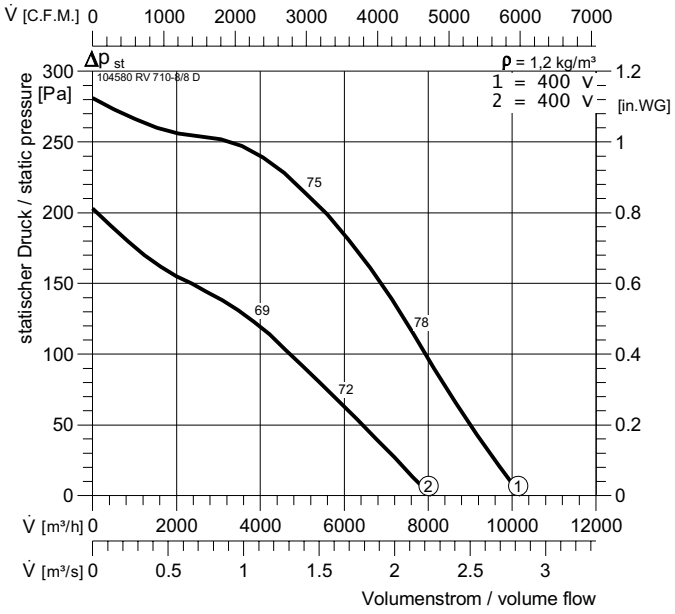


RV / RVS 710-6/6 D

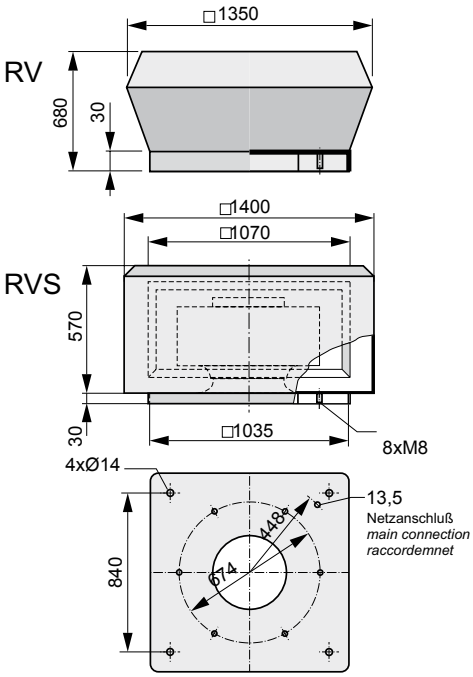


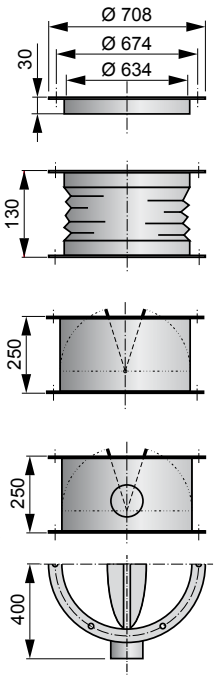
Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RV 710-6/6 D	104560	110	**kg**	$L_{WA\,tot}$	0	-20
RVS 710-6/6 D	102035	132	**kg**	**125 Hz**	-30	-2
			kg	**250 Hz**	-16	-23
U : 400 V 50 Hz		I_A / I_N :	4,6	**500 Hz**	-9	-17
P_1 : 2,1/1,4 **kW**			IP 54	**1 kHz**	-4	-12
I_N : 4,1/2,6 **A**			DD0b	**2 kHz**	-5	-11
n : 910/715 **min⁻¹**			GS 2	**4 kHz**	-8	-7
C_{400V} : - **µF**			RTD 5	**8 kHz**	-14	-8
t_R : 60 **°C**			SAD 9			

RV / RVS 710-8/8 D



Typ	ArtNr			$L_{WA\,rel}$ ΔdB	L_{WA5}	L_{WA8}
RV 710-8/8 D	104580	82	**kg**	$L_{WA\,tot}$	0	-20
RVS 710-8/8 D	102045	132	**kg**	**125 Hz**	-30	-2
			kg	**250 Hz**	-16	-23
U : 400 V 50 Hz		I_A / I_N :	2,4	**500 Hz**	-9	-17
P_1 : 0,86/0,50 **kW**			IP 54	**1 kHz**	-4	-12
I_N : 1,92/0,95 **A**			DU3	**2 kHz**	-5	-11
n : 635/480 **min⁻¹**			GS 2	**4 kHz**	-8	-7
C_{400V} : - **µF**			RTD 2,5	**8 kHz**	-14	-8
t_R : 50 **°C**			SAD 9			



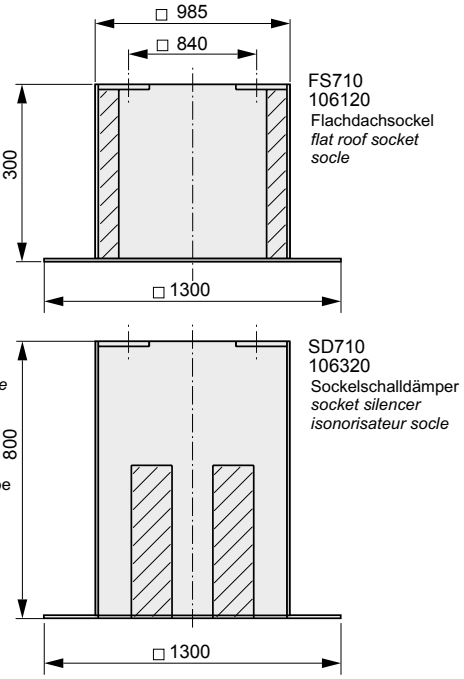


GL710
107300
Gegenflansch
flange
bride

EV710
107100
elastisches Zwischenstück
elastic connection
connexion élastique

VS710
106600
selbstätige Verschlußklappe
automatic shutter
volet de fermeture automatique

VM710
106900
motorbetätigte Verschlußklappe
motor shutter
volet de fermeture moteur



FS710
106120
Flachdachsockel
flat roof socket
socle

SD710
106320
Sockelschalldämper
socket silencer
isonorisateur socle