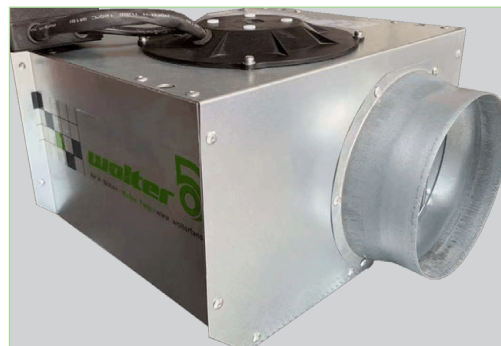
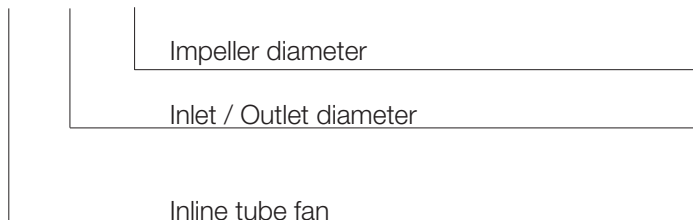


Fan type code

RA 150 - 13



Design features

Wolter RA-series tube fans are centrifugal fans with circular connections at inlet and outlet sides. Both sides can easily be fitted into the tube by means of RSV fastening clamps.

Casing

The housing is made of galvanized sheet steel. The fans correspond to protection class IP 54

Impeller

The forwardcurved centrifugal impellers are made of galvanised sheet, guarantees high efficiency and minimal noise emissions.

All impellers are balanced at two levels according to G 6.3 (ISO 21940-11 / VDI 2060 / AMCA 204).

Motor

RA 150 are fitted with a 2 or 3 steps single-phase motor.

Installation

The RA-type inline tube fans are directly mounted into the tube and fixed by clamps. Due to it's very low height the RA-type is ideal for use in false ceilings.

Fan performance curves

The performance curves in this catalogue have been established using the inlet test method in the test chamber according to DIN 24163 / AMCA 210 Figure 12, installation type D - Ducted Inlet, Ducted Outlet. The curves indicate the static pressure increase Δp_{st} as a function of the volume flow.

Sound levels

The figures quoted in the performance curves are the "A" decibel figures which are the sound power levels L_{WA5} at the inlet side in duct systems.

The "A" sound power level at the outlet side L_{WA6} , according to DIN 45635 / AMCA 300, can be calculated via the relative sound power levels (see below) or is obtained approximately as follows:

$$L_{WA6} \approx L_{WA5} + 2 \text{ dB}$$

The "A" casing sound power level L_{WA2} , according to DIN 24635 / AMCA 300, can be calculated via the relative sound power levels (see below) or is obtained approximately as follows:

$$L_{WA2} \approx L_{WA6} - 17 \text{ dB}$$

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

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

It is important to note that reflexion and environmental characteristic as well as natural frequencies differently influence the sound pressure levels. In order to avoid structure-borne noise transfer to a connected duct system we recommend the use of flexible duct connection.

The A-weighted octave sound power level is important for the choice of suitable sound attenuators. It is obtained as follows:

$$L_{WAokt} = L_{WA6} + L_{WArel}$$

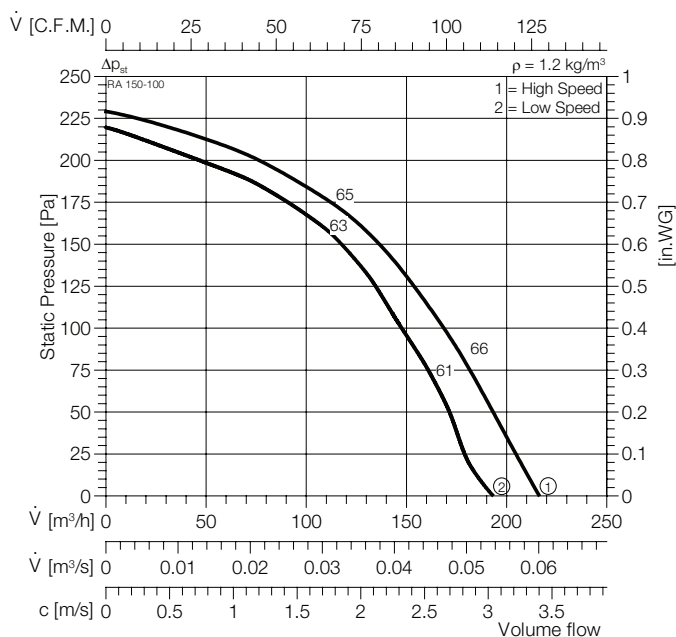
The relative octave sound power level L_{WArel} at octave medium frequency can be taken from the tables at respective fan. These levels has been established at 0.5 x Vmax.



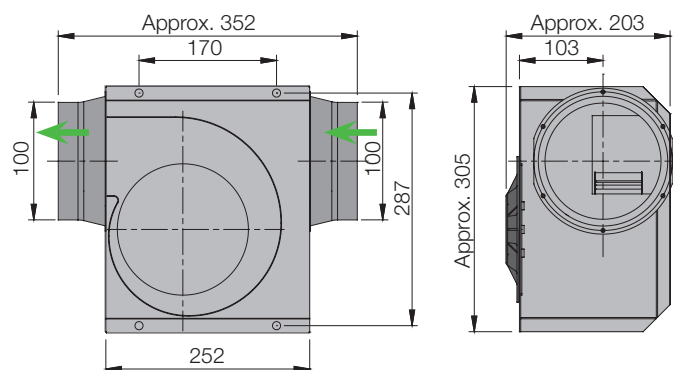
RA Series



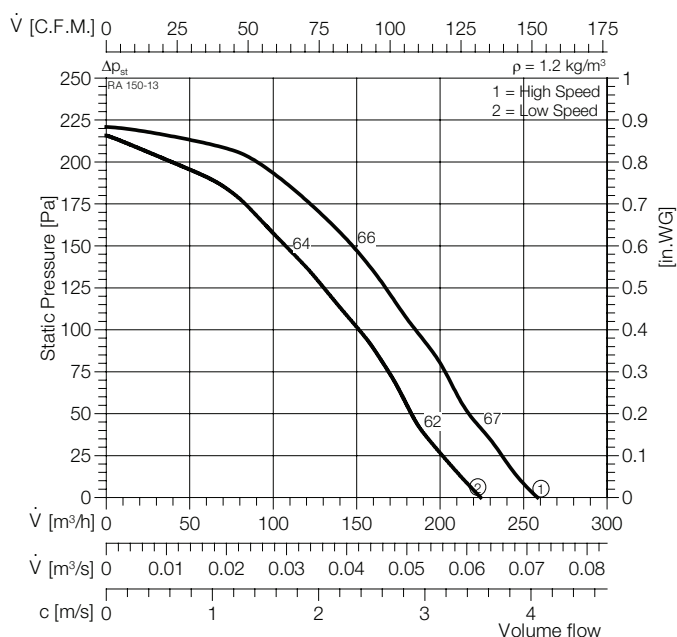
RA 150-100



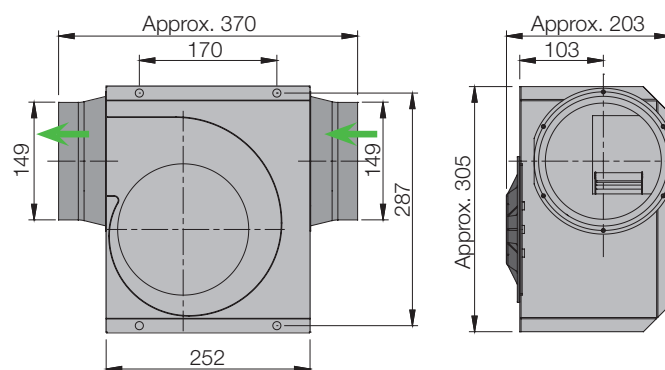
Typ :	RA 150-100	IP54	$L_{WA \text{ rel}} \Delta \text{dB}$	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :	-	E16-2	$L_{WA \text{ tot}}$	-17	-3	0
$\square$:	5,0 kg	GS 1	125 Hz	-22	-8	-5
U :	220 V 50 Hz	FWG 4	250 Hz	-27	-13	-10
P_1 :	60 W	NE 0,5	500 Hz	-35	-22	-19
I_N :	0,28 A	RPE 02	1 kHz	-37	-24	-21
n :	H / L min ⁻¹		2 kHz	-41	-28	-25
C_{400V} :	2 μF		4 kHz	-43	-30	-27
t_R :	40 °C		8 kHz	-45	-32	-29



RA 150-13



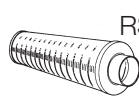
Typ :	RA 150-13	IP54	$L_{WA \text{ rel}} \Delta \text{dB}$	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :	051285	E16-2	$L_{WA \text{ tot}}$	-17	-3	0
$\square$:	5,1 kg	GS 1	125 Hz	-22	-8	-5
U :	220 V 50 Hz	FWG 4	250 Hz	-27	-13	-10
P_1 :	60 W	NE 0,5	500 Hz	-35	-22	-19
I_N :	0,28 A	RPE 02	1 kHz	-37	-24	-21
n :	H / L min ⁻¹		2 kHz	-41	-28	-25
C_{400V} :	2 μF		4 kHz	-43	-30	-27
t_R :	40 °C		8 kHz	-45	-32	-29



Accessories



RSV



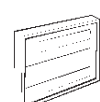
RSD



RVK



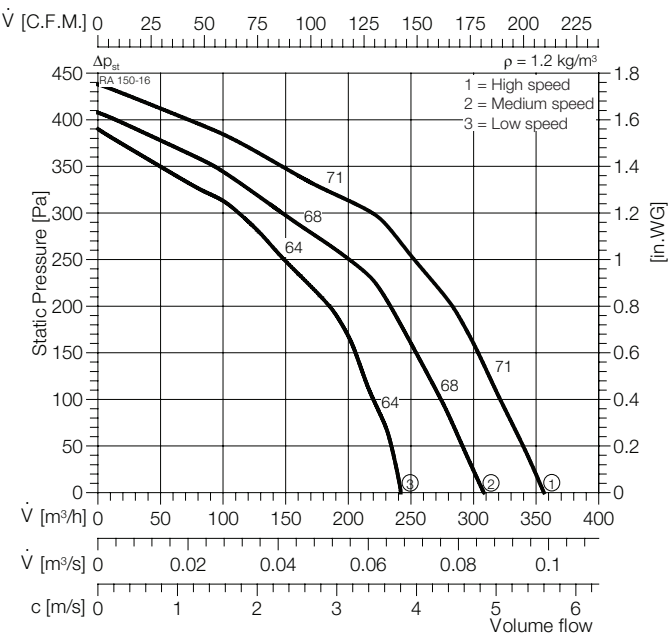
TFB-PTC



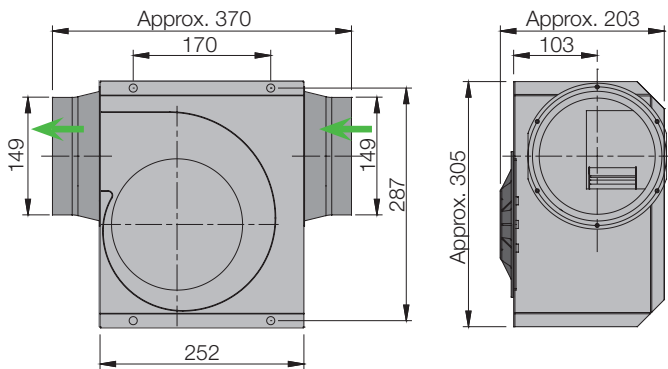
WVK

Tube Fans

RA 150-16



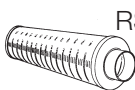
Typ :	RA 150-16		IP54	$L_{WA \text{ rel}} \Delta dB$	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :	051286		E19	$L_{WA \text{ tot}}$	-17	-3	0
:	5,5 kg		GS 1	125 Hz	-20	-6	-3
U :	220 V 50 Hz		FWG 4	250 Hz	-25	-12	-9
P ₁ :	120 W		NE 0,5	500 Hz	-33	-20	-17
I _N :	0,55 A		RPE 02	1 kHz	-35	-22	-19
n :	H / M / L min ⁻¹			2 kHz	-40	-25	-22
C _{400V} :	4 μF			4 kHz	-41	-28	-25
t _R :	40 °C			8 kHz	-44	-30	-27



Accessories



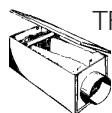
RSV



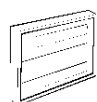
RSD



RVK



TFB-PTC



WVK