SUPPLY AIR DIFFUSER RUL

Suitable for ventilation and heating supermarkets and industrial premises. The air distribution pattern can be adjusted to either horizontal or vertical. The surrounding air will be mixed into the vertical pattern.

Quick facts

	min.	max
Installation level, m - horizontal throw - vertical throw	2,6	 6,0
Supply air temperature, °C		+15

Order key

Supply air diffuser RUL-160 + TAK 125/160
1 2

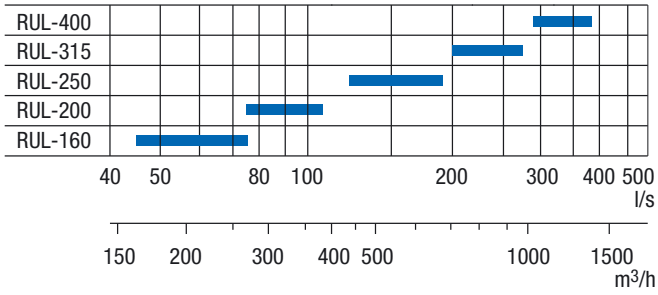
1 = size 160 - 400
2 = accessories: balancing plenum box TAK

Material and surface treatment

Manufactured of sheet steel. As standard painted white RAL 9010. Other RAL colours are available at additional costs.
The plenum box TAK is manufactured of galvanised sheet steel with acoustic lining.

Quick guide

Recommended air flow for heating

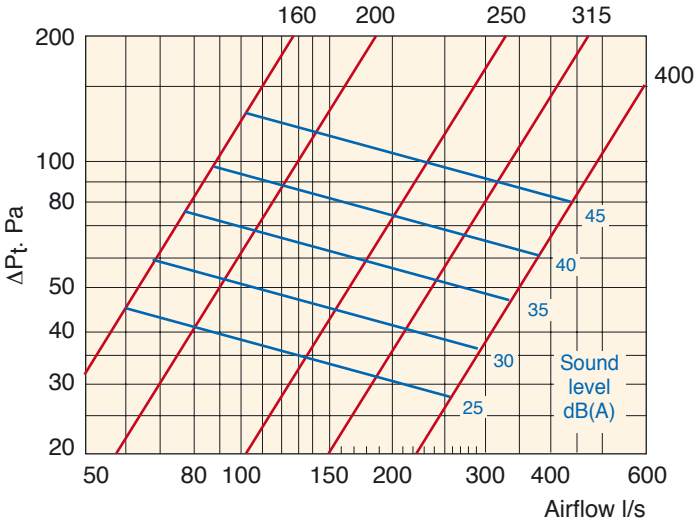


Performance

The graphs are not to be used for commissioning.

For a proper vertical pattern is at least 40 Pa needed.

Airflow - pressure drop - sound level



Sound power level L_W, dB

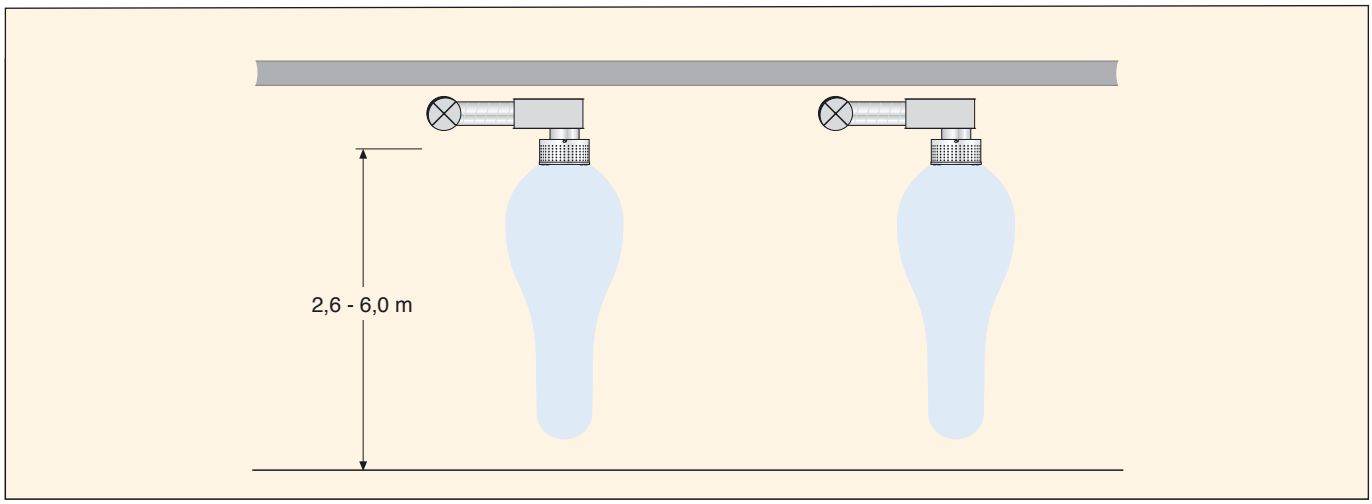
Correction factor K_{okt}

Size	Hz 125	250	500	1k	2k	4k	8k
160	-4	-1	0	0	-1	-8	-17
200	-2	1	2	1	-5	-12	-12
250	-3	1	2	1	-6	-14	-14
315	-2	1	1	0	-6	-15	-17
400	-2	1	0	0	-7	-16	-16

Sound attenuation ΔL, dB

Size	Hz 125	250	500	1k	2k	4k	8k
160	13	8	3	3	2	2	2
200	11	5	2	4	2	2	2
250	10	4	2	4	3	3	2
315	8	3	1	1	2	3	2
400	6	2	1	1	0	0	0

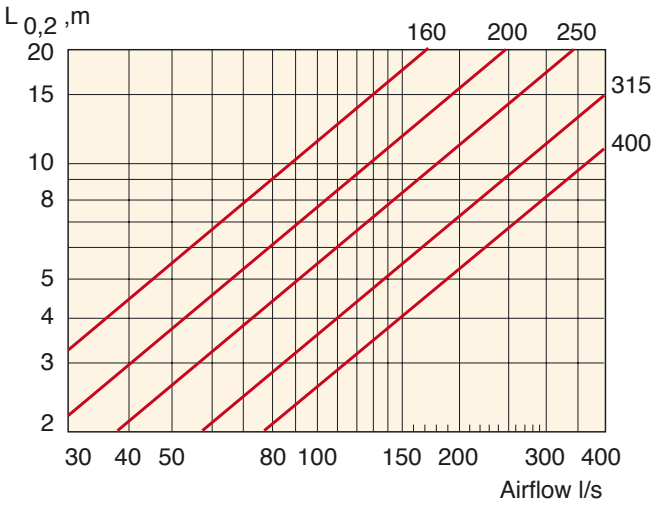
Installation example



Air flow - throw

The throw data is shown with isothermal supply air.

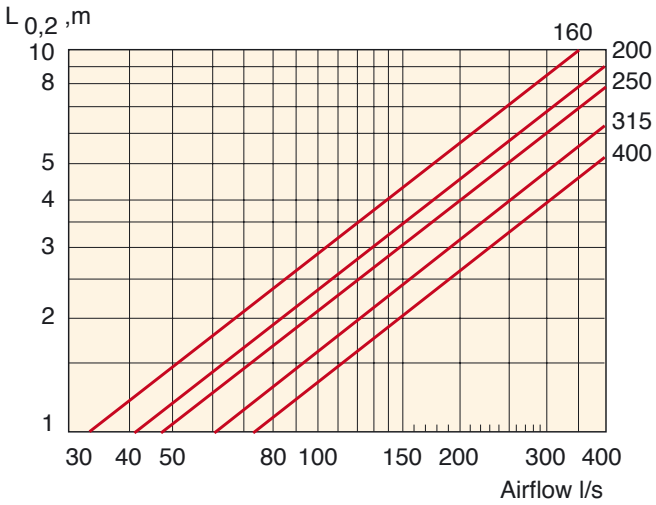
Vertical throw



The supply air temperature will affect the vertical throw.

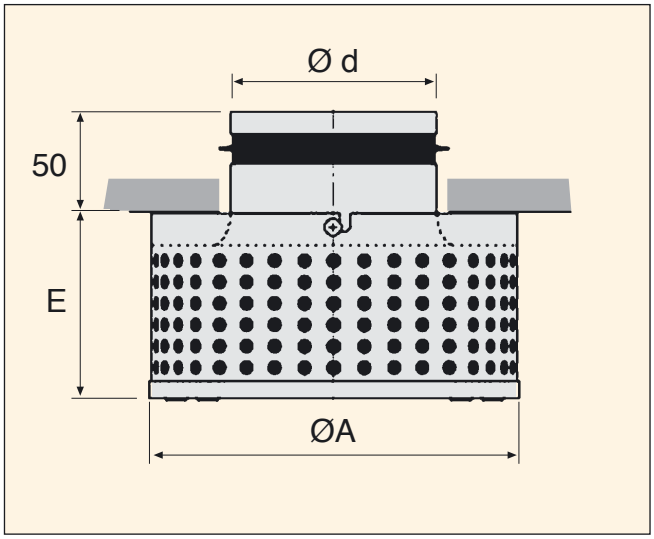
Adjusting the air distribution pattern does not affect the pressure drop or sound level.

Horizontal throw

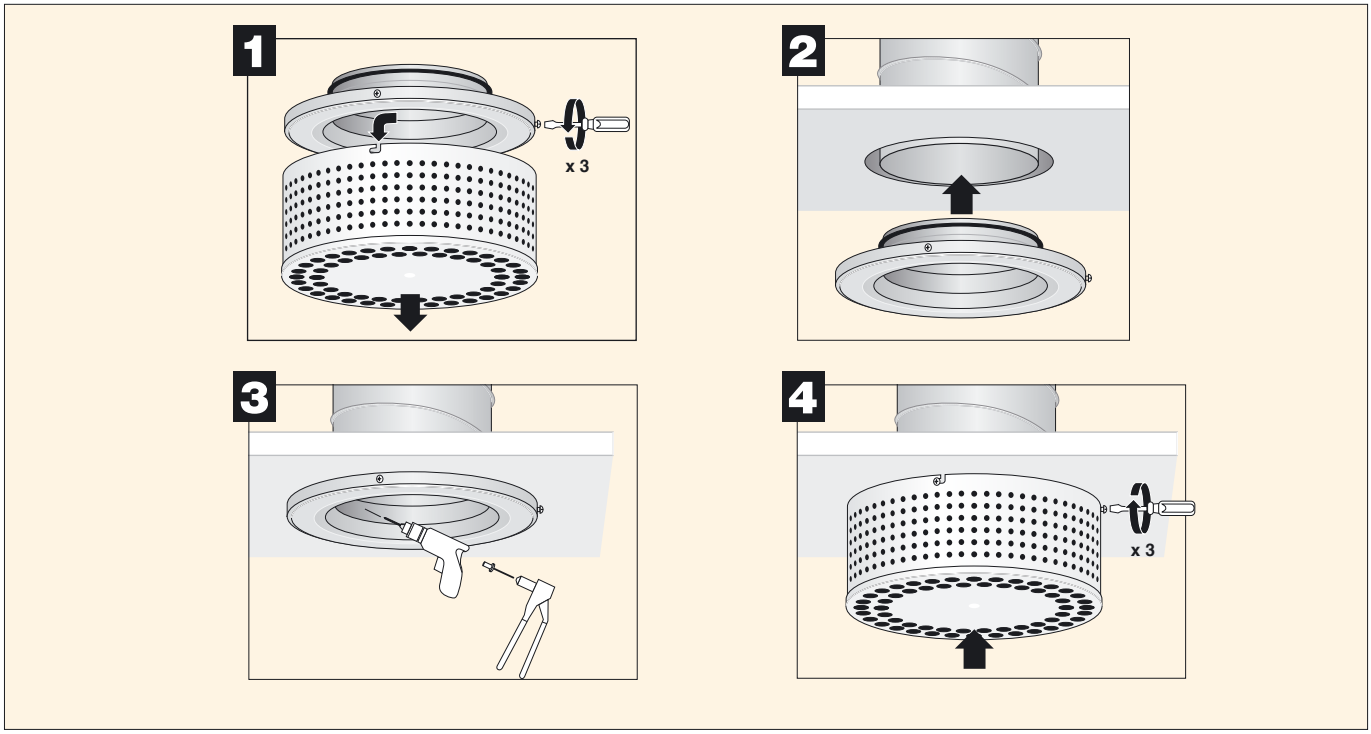


Dimensions

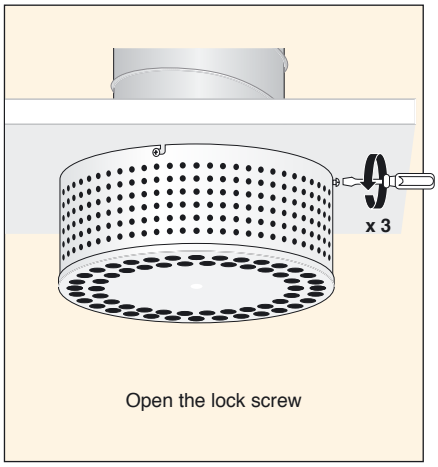
Size	ø d	Ø A	E
160	159	255	102
200	199	320	141
250	249	405	180
315	314	405	258
400	399	505	340

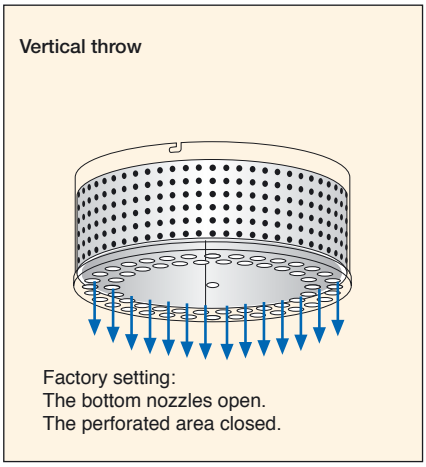


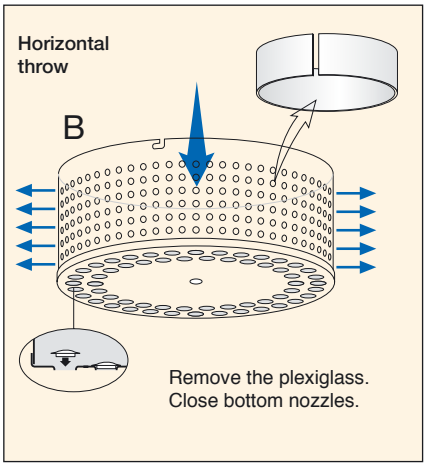
Installation



Adjusting the air distribution pattern







Measuring the air flow

Measure the pressure drop over the diffuser face.
The k-factors are shown in the RCL-commissioning guide.