Supply air terminal

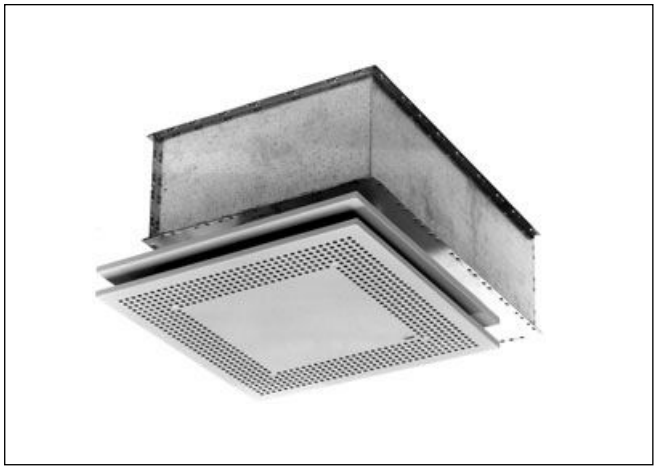
RATT

RITT

RC-Linja Oy

P.O.Box 80, FIN-00701 Helsinki • Tel: +358 20 198 6600 • Fax: +358 20 198 6609 • www.rcl.fi

9.05



RATT

RITT

Supply air terminals RATT and RITT consists of a balancing plenum box and a square air diffuser (RATT) or circular air diffuser (RITT). Throw pattern can be directed in 1-, 2-, 3- or 4-ways. The terminals can handle large air flows and are suitable for both constant and variable air flows.

Balancing plenum box includes a adjustment and measurement unit. The unit is easy to remove without changing the settings.

Quick facts

	min.	max
Installation level, m		
- ceiling installed	3,0	5,5
- without suspended ceiling	3,0	4,5
Max. cooling temp., °C		
- ceiling installed		12
- without suspended ceiling		10

Quick guide

Size	Airflow l/s	
	min	max
100	15	40
125	20	50
160	30	80
200	50	130
250	100	220

Material and surface treatment

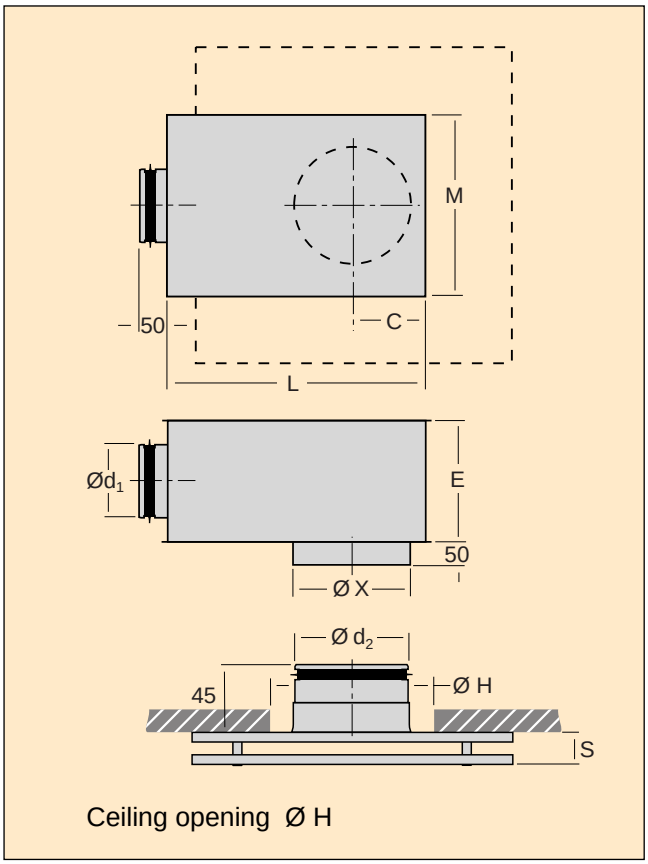
The diffusers are manufactured from sheet steel. As standard painted white RAL 9010. Other RAL colours are available at additional costs.
The balancing plenum box TAK is manufactured from galvanised sheet steel with acoustic lining.

Order key

Supply air terminal RATT - 100
1 2

1 = supply air terminal RATT or RITT
2 = size 100 - 250
(= duct size of the plenum box)

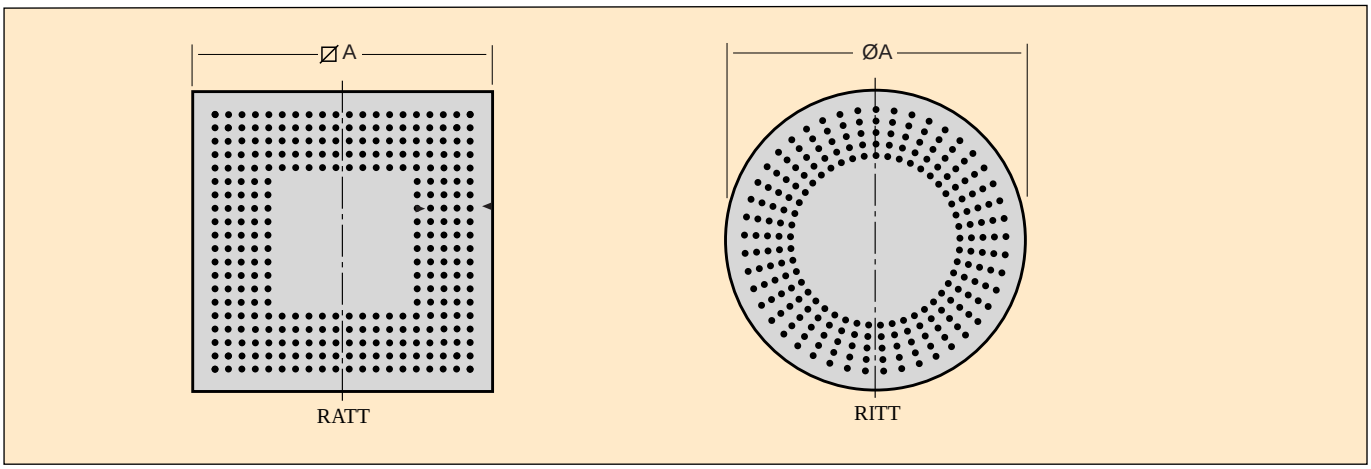
Dimensions



Ceiling opening Ø H

Weight kg

Size	RATT	RITT
100	7,3	6,2
125	8,6	7,5
160	13,0	10,6
200	15,8	13,4
250	18,1	17,0

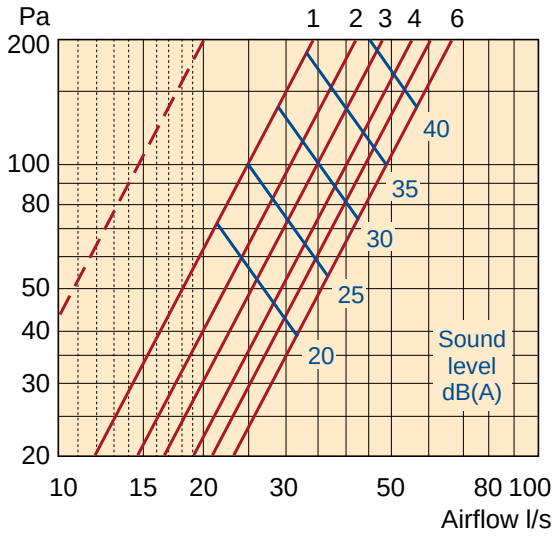


Size	ød1	øX	L	M	E	C	ød2	⧄A	øA	øH	S
100	99	160	450	270	140	110	159	450	475	210	44
125	124	200	490	340	165	130	199	450	475	250	44
160	159	250	550	400	200	155	249	595	580	300	65
200	199	315	630	450	240	187	314	595	580	365	65
250	249	400	780	550	290	230	399	595	638	450	65

Performance

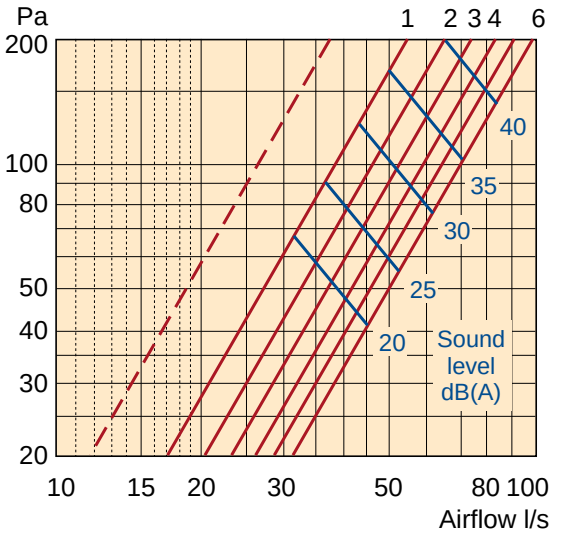
The graphs are not to be used for commissioning.
Commissioning are shown on page 8.

Supply air terminal RATT / RITT - 100



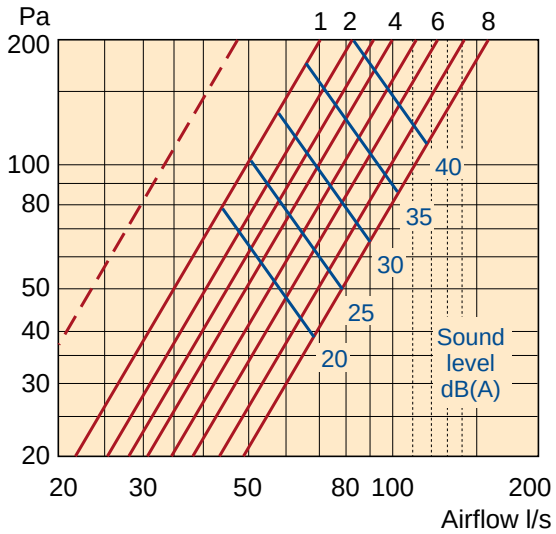
	Sound power level							
f, Hz	63	125	250	500	1 k	2 k	4 k	8 k
K_{okt}, dB	- 3	7	7	2	-3	-5	-9	-12
	Sound attenuation, ceiling installation							
ΔL, dB	21	9	9	12	20	20	16	12

Supply air terminal RATT / RITT - 125



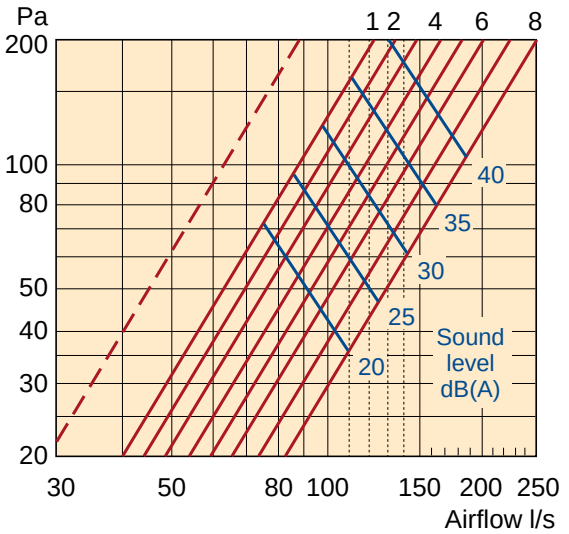
	Sound power level							
f, Hz	63	125	250	500	1 k	2 k	4 k	8 k
K_{okt}, dB	1	10	5	1	-2	-5	-10	-14
	Sound attenuation, ceiling installation							
ΔL, dB	18	10	9	13	18	15	15	12

Supply air terminal RATT / RITT - 160



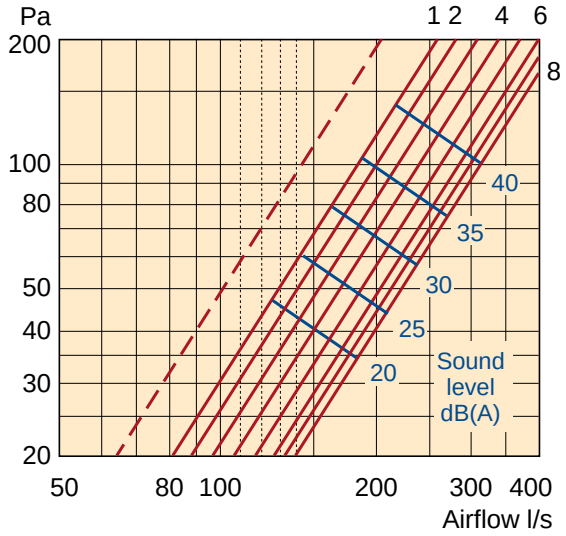
	Sound power level							
f, Hz	63	125	250	500	1 k	2 k	4 k	8 k
K_{okt}, dB	6	11	4	2	-2	-6	-12	-17
	Sound attenuation, ceiling installation							
ΔL, dB	19	4	8	13	19	13	15	12

Supply air terminal RATT / RITT - 200



	Sound power level							
f, Hz	63	125	250	500	1 k	2 k	4 k	8 k
K_{okt}, dB	9	9	5	3	2	-4	-11	-13
	Sound attenuation, ceiling installation							
ΔL, dB	16	4	8	12	15	12	14	12

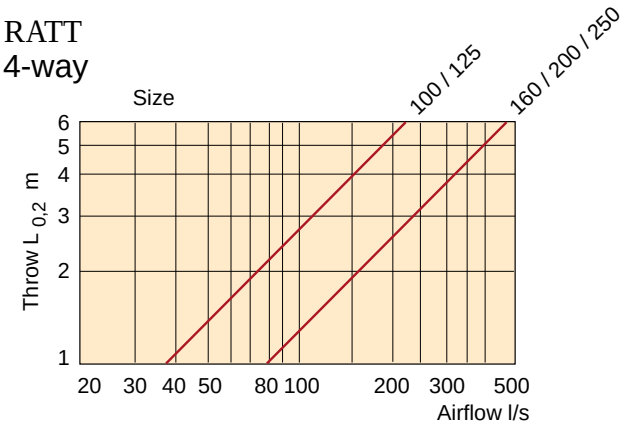
Supply air terminal RATT / RITT - 250



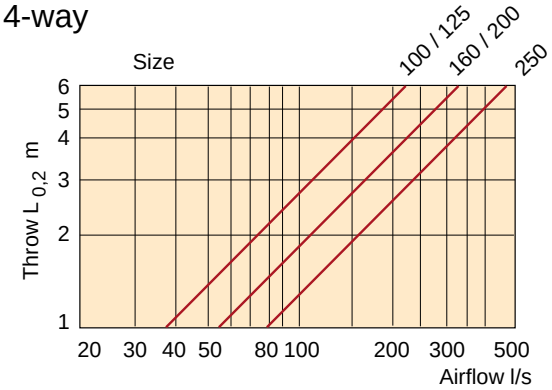
	Sound power level							
f, Hz	63	125	250	500	1 k	2 k	4 k	8 k
K_{okt}, dB	12	10	7	6	2	-4	-10	-16
	Sound attenuation, ceiling installation							
ΔL, dB	13	5	6	12	12	12	12	12

Airflow - throw

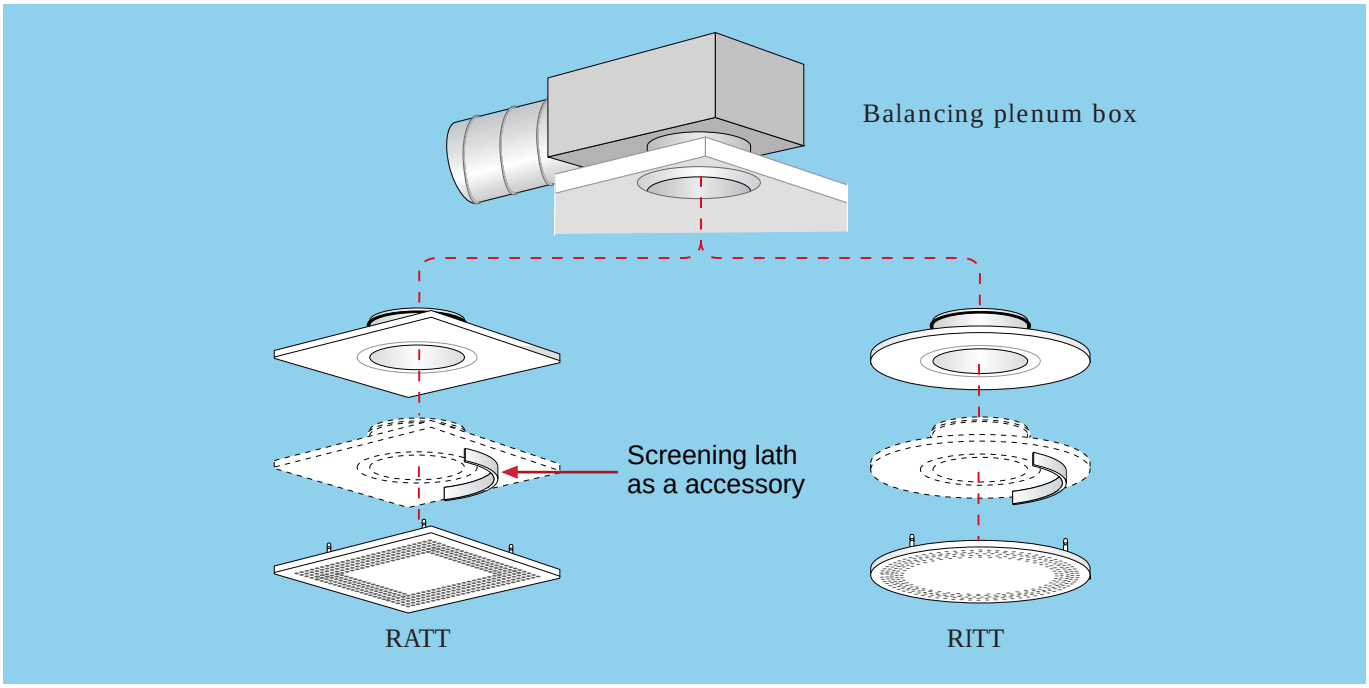
RATT
4-way



RITT
4-way

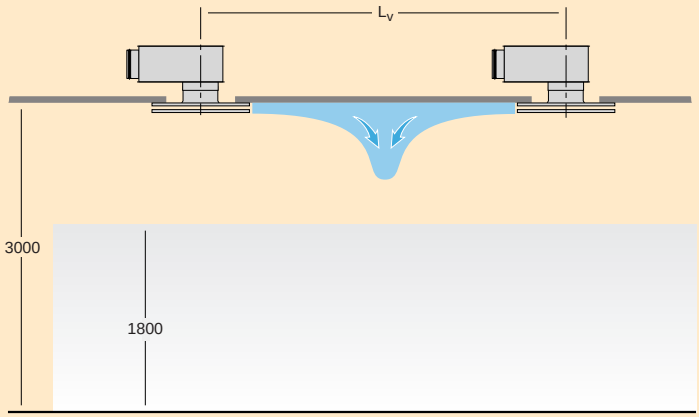


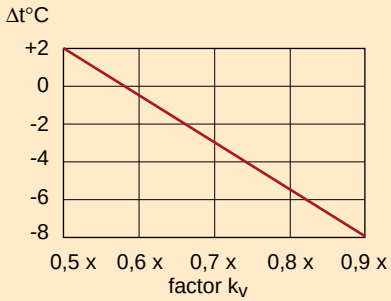
Structure



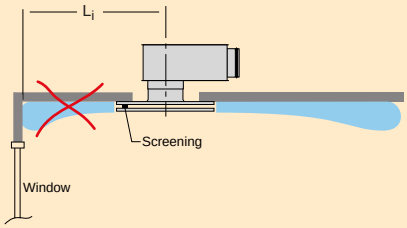
Installation examples

1 Minimum distance between two diffusers $L_v = k_v \times (L_{0,2} + L_{0,2})$

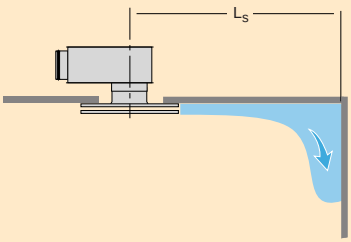




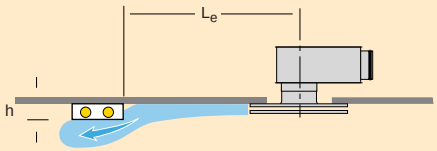
2a Avoid throw towards windows



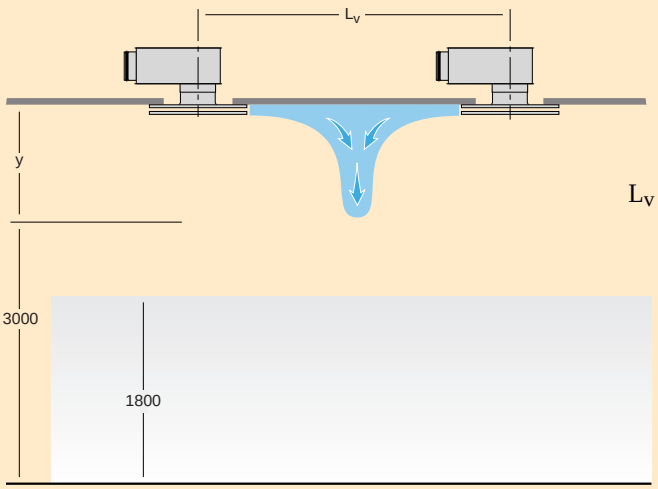
2b Distance to the wall $L_s = k_v \times L_{0,2}$



3 Distance to the light $L_e = 25 \times h$



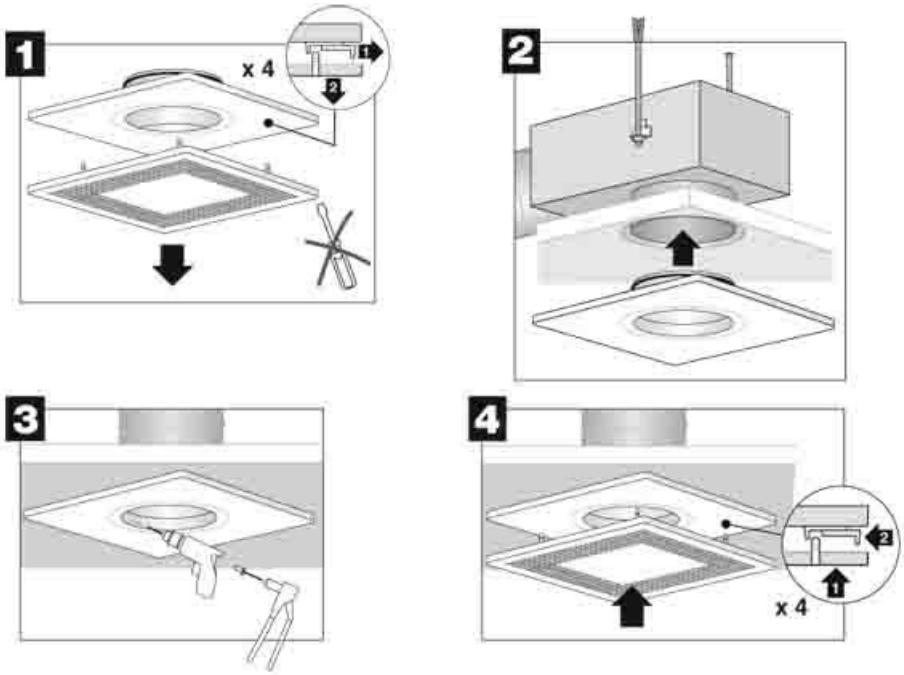
4 Distance between two diffusers when the ceiling level is over 2,8 m



$L_v = k_v \times (L_{0,2} + L_{0,2}) - y$

Installation

RATT



RITT