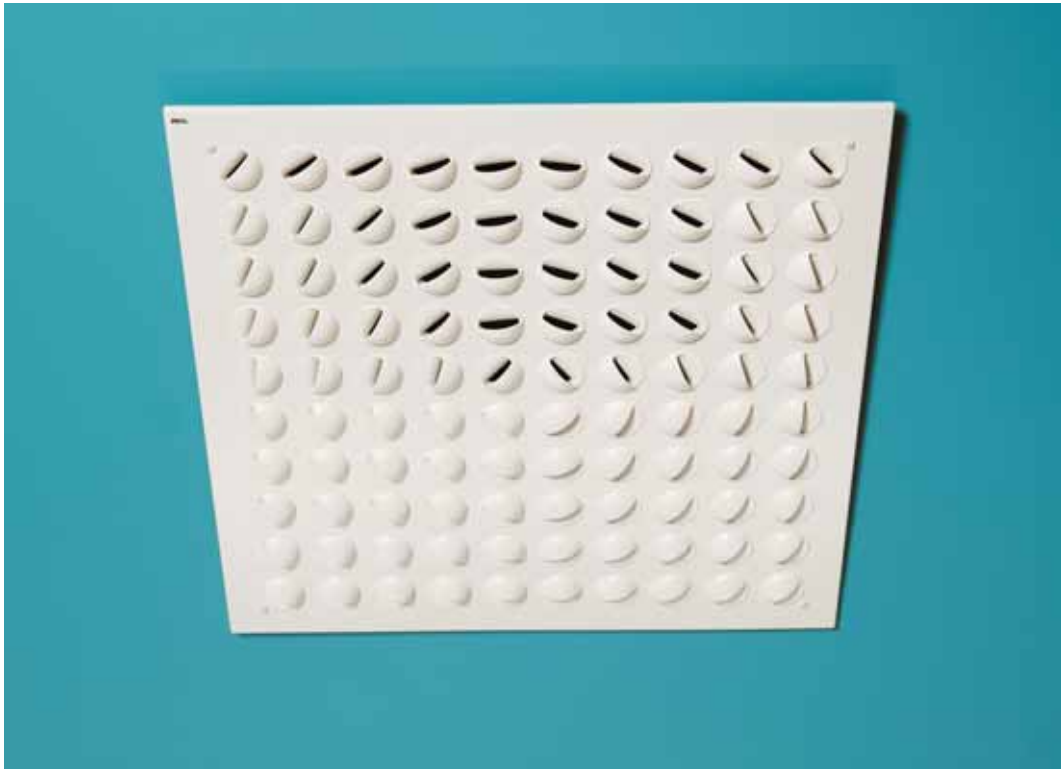


# NOZZLE DIFFUSER MOT



The air distribution pattern is flexible and can be directed by rotating the nozzles. The supply air can be at over- or under-temperature, and both horizontal and vertical patterns are possible.

Balancing plenum box TAK has a low construction height. It includes a removable adjustment and measurement unit which is easy to remove without changing the settings.

## Quick facts

	min.	max
Installation level, m - horizontal throw - vertical throw	2,6	6,0
Supply air temperature, °C		-10

## Material and surface treatment

Manufactured of sheet steel, the nozzles are plastic. As standard painted white RAL 9010. Other RAL colours are available at additional costs (not the nozzles). Colour options for the plastic nozzles are white or black.

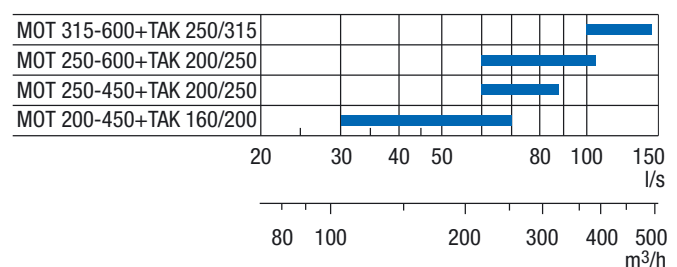
Plenum box TAK is made of galvanised sheet steel with acoustic lining.

## Order key

Nozzle diffuser MOT-250-450+TAK 200/250  
1 2 3 4 5

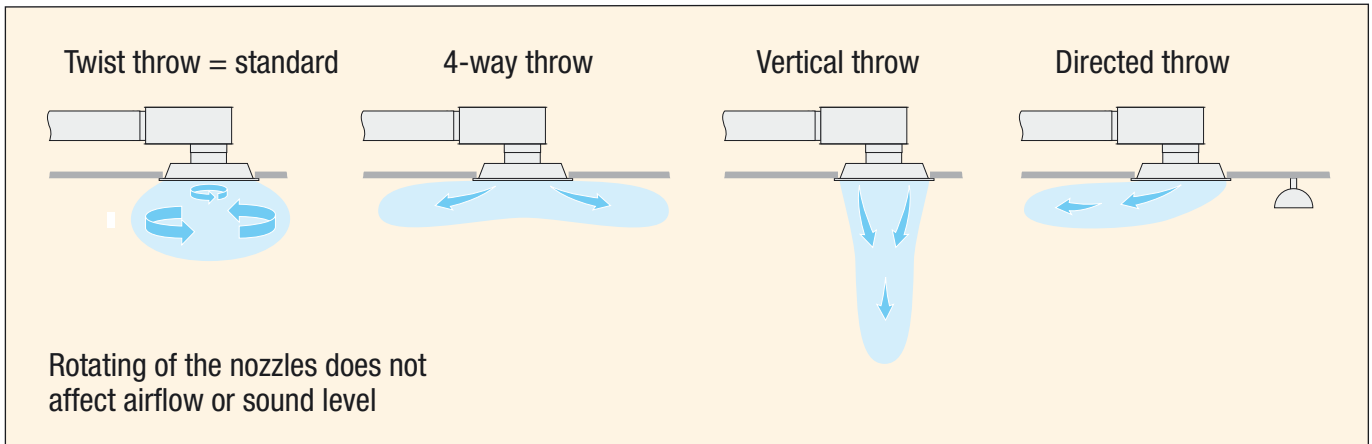
- 1 = diffuser connecting size
- 2 = diffuser outer size
- 3 = balancing plenum TAK
- 4 = connecting duct size
- 5 = connecting diffuser size

## Quick guide



# NOZZLE DIFFUSER MOT

## The flow pattern is flexible

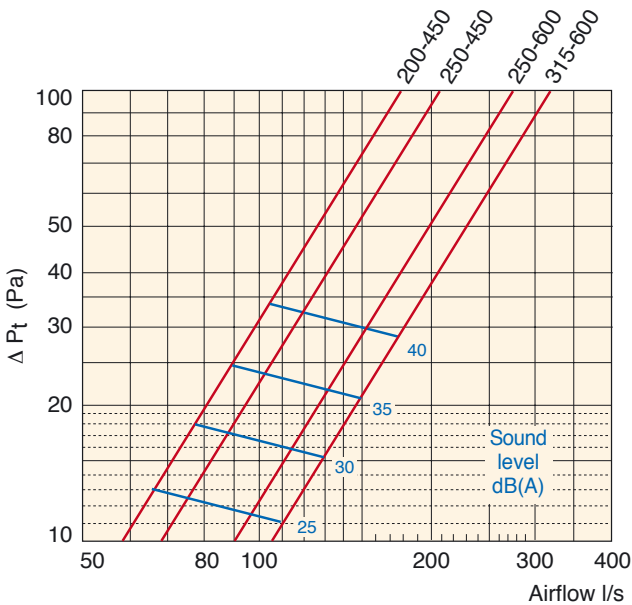


## Performance

### MOT diffuser without plenum box TAK

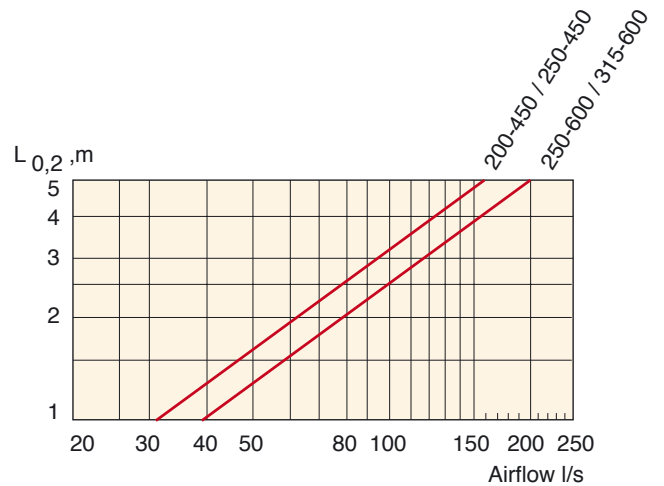
The graphs are not to be used for commissioning.

### Airflow - pressure drop - sound level



Valid for ceiling installation with isothermal supply air and twist throw.

### Airflow - throw (twist)



### Sound power level $L_w$ , dB

Correction factor  $K_{okt}$

Size	Hz							
	63	125	250	500	1k	2k	4k	8k
200-450	-4	1	3	5	3	-8	-13	-23
250-450	-3	1	3	5	2	-9	-14	-23
250-600	-6	0	3	7	0	-10	-16	-23
315-600	-7	0	3	7	0	-11	-17	-25

### Sound attenuation $\Delta L$ , dB

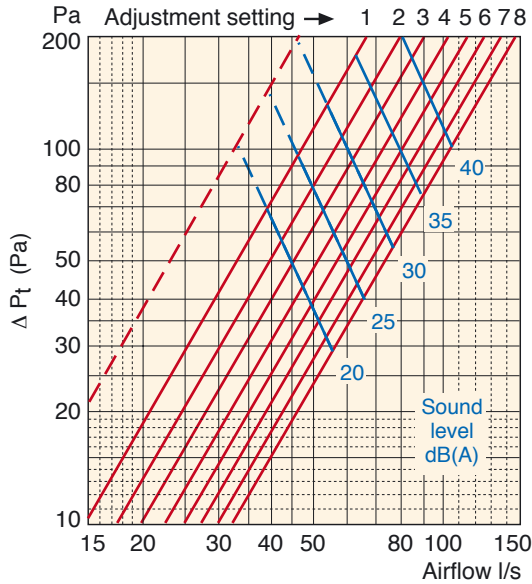
Size	Hz							
	63	125	250	500	1k	2k	4k	8k
200-450	16	11	5	4	4	6	8	8
250-450	16	10	4	3	4	6	7	7
250-600	14	8	2	3	4	5	6	8
315-600	12	6	1	2	3	5	5	7

## Performance

The graphs are not to be used for commissioning.

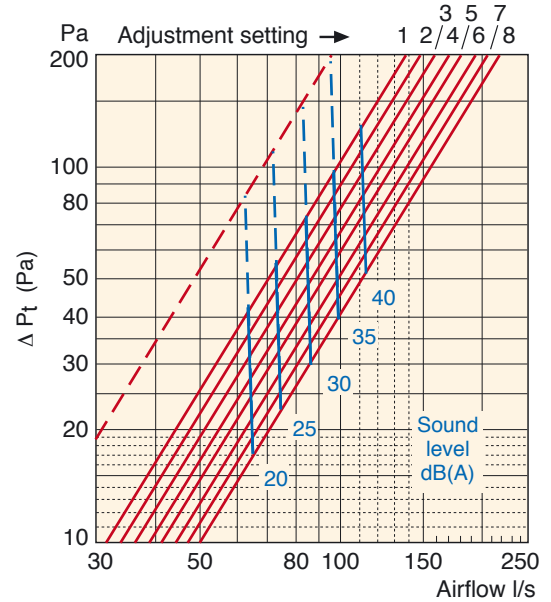
### MOT diffuser with balancing plenum box TAK

#### MOT 200-450 + TAK-160/200



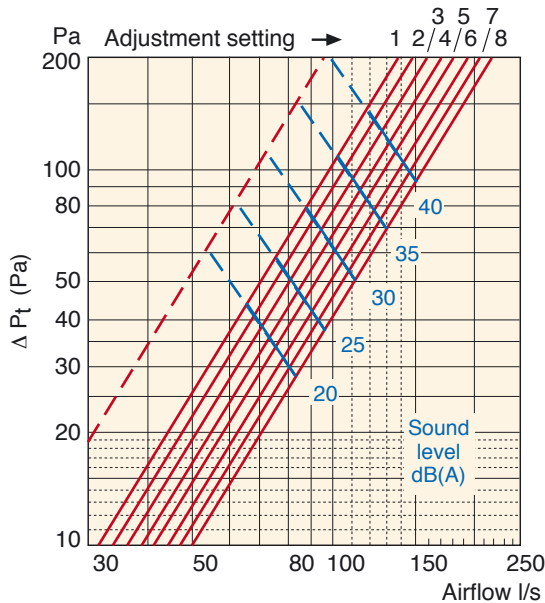
		Sound power level							
f, Hz		63	125	250	500	1 k	2 k	4 k	8 k
K <sub>okt</sub> , dB		10	12	7	1	-2	-8	-13	-15
tol, dB±		3	3	2	1	2	3	3	4
		Sound attenuation							
ΔL, dB		15	8	5	9	20	15	13	11

#### MOT 250-450 + TAK-200/250



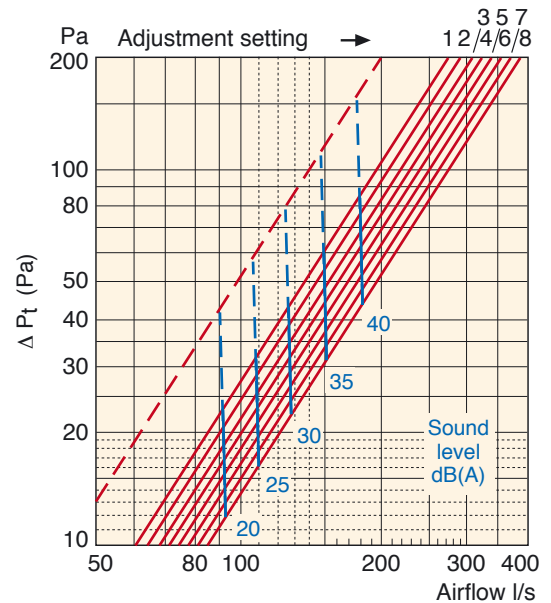
		Sound power level							
f, Hz		63	125	250	500	1 k	2 k	4 k	8 k
K <sub>okt</sub> , dB		7	10	6	1	-2	-7	-8	-13
tol, dB±		2	2	1	1	1	2	3	3
		Sound attenuation							
ΔL, dB		13	5	5	11	17	13	12	9

#### MOT 250-600 + TAK-200/250



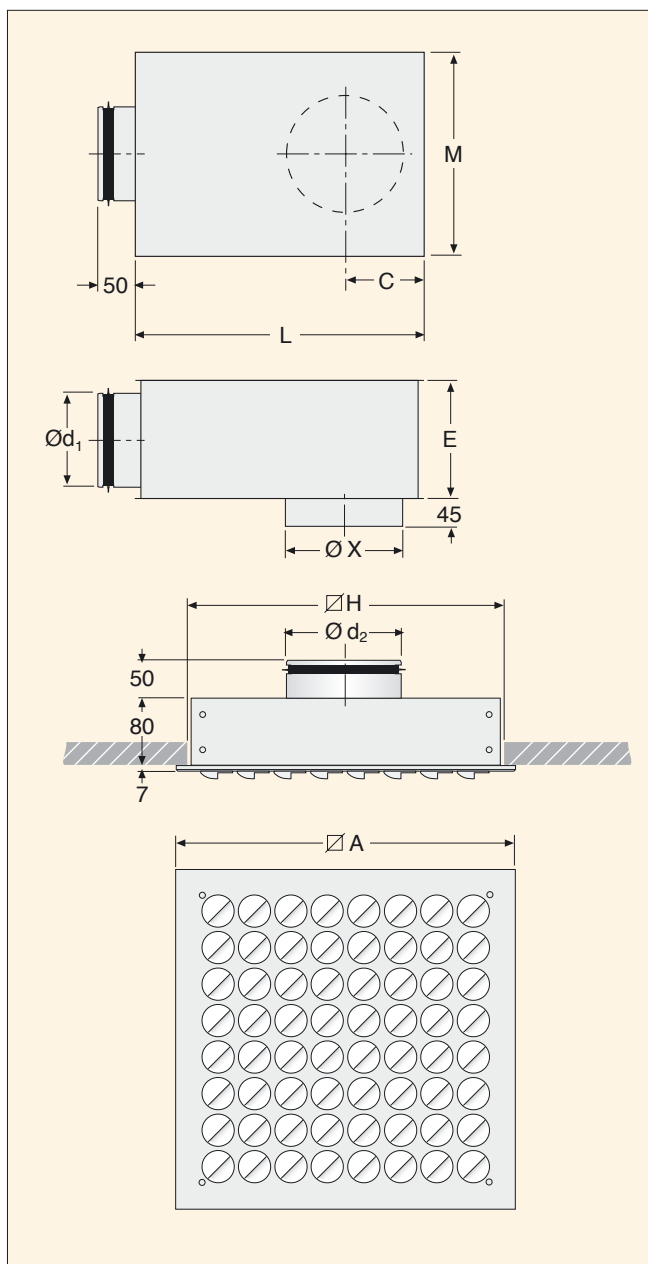
		Sound power level							
f, Hz		63	125	250	500	1 k	2 k	4 k	8 k
K <sub>okt</sub> , dB		7	10	6	1	-2	-7	-8	-13
tol, dB±		2	2	1	1	1	2	3	3
		Sound attenuation							
ΔL, dB		13	5	5	11	17	13	12	9

#### MOT 315-600 + TAK-250/315

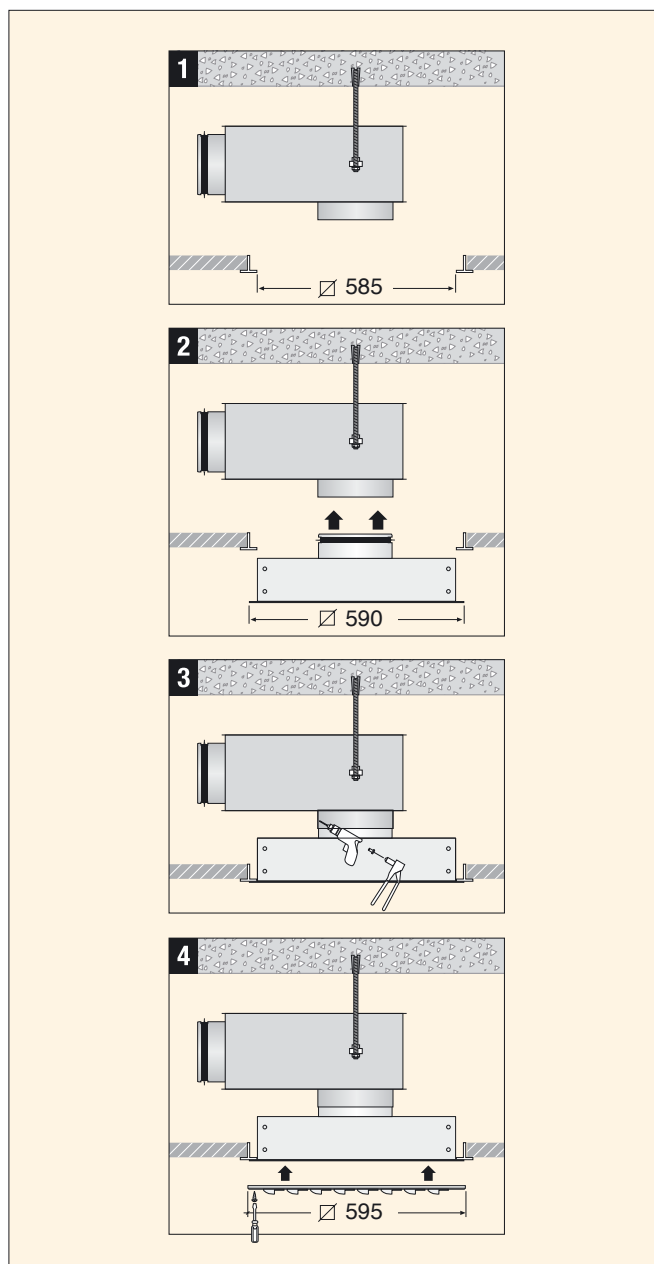


		Sound power level							
f, Hz		63	125	250	500	1 k	2 k	4 k	8 k
K <sub>okt</sub> , dB		10	9	5	3	-1	-9	-13	-18
tol, dB±		3	1	1	1	1	3	3	4
		Sound attenuation							
ΔL, dB		14	5	4	13	12	13	12	11

## Dimensions



## Installation



Nozzlediffuser MOT				Plenum box TAK						
Size	ød <sub>2</sub>	øA	øH	Size	ød <sub>1</sub>	øX	L	M	E	C
200-450	199	450	420	160/200	159	200	500	340	200	130
250-450	249	450	420	200/250	199	250	570	400	240	135
250-600	249	595	565	200/250	199	250	570	400	240	135
315-600	314	595	565	250/315	249	315	700	450	290	187

## Commissioning

The instructions for plenum box TAK is shown in the RCL-measuring guide.

The k-factors are connected to the measuring tube.