

# ILO



Supply air diffusers and exhaust air devices for suspended and coffered ceilings, combining modern and stylish design, excellent air and sound properties, and uniquely easy installation.

# ILO

The vanes of the twist-supply diffuser **ILO** create a whirling throw pattern expanding horizontally. ILO is perfect for both constant and variable airflows, and thanks to its high mixing ratio, also for cooled air. ILO Z is a special model designed for suspended ceilings with the ceiling panels concealing the T-bar grid.

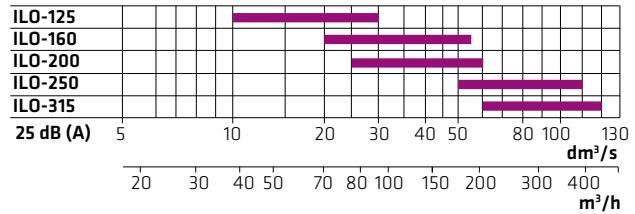


## Product code

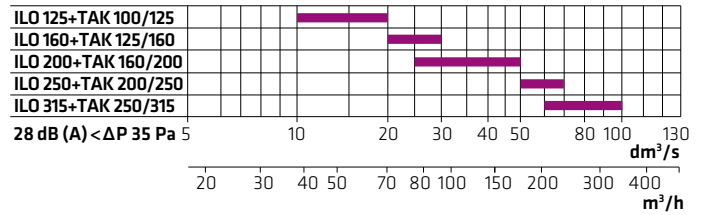
Twist-supply diffuser ILO-250-600+Z+ TAK 200/250  
 1 2 3 4 5 6 7

- 1 = Twist-supply diffuser ILO
- 2 = Connection diameter
- 3 = Panel size of suspended/coffered ceiling
- 4 = Lowered diffuser part
- 5 = Balancing plenum box TAK
- 6 = Balancing plenum box duct size
- 7 = Balancing plenum box connection to diffuser

## Quick guide ILO



## Quick guide ILO+TAK

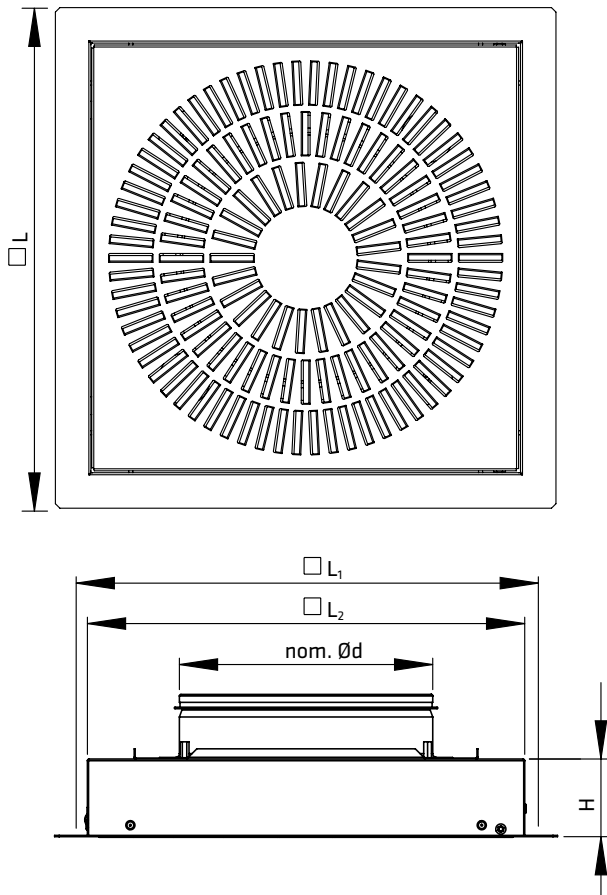


## Material and surface treatment

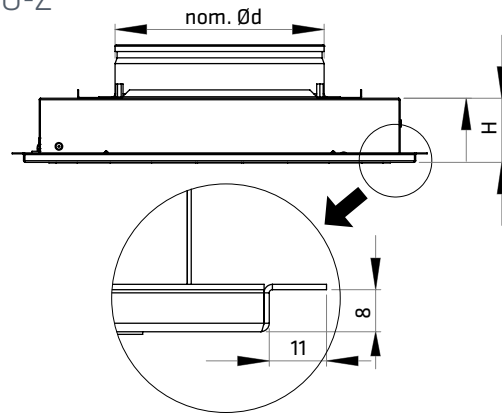
The ILO twist-supply diffuser is manufactured from sheet steel, painted in Traffic White RAL9016 as standard. Special colours available on request. For colour options, see colour chart RAL K1.

## Dimensions

ILO



ILO-Z



	nom. Ød	□L	H	□L <sub>1</sub>	□L <sub>2</sub>	kg
ILO-125-400	125	395	61	365	344	6,5
ILO-160-400	160	395	61	365	344	6,5
ILO-200-400	200	395	61	365	344	6,5
ILO-125-600	125	595	81	565	544	6,5
ILO-160-600	160	595	81	565	544	6,5
ILO-200-600	200	595	81	565	544	6,5
ILO-250-600	250	595	81	565	544	6,5
ILO-315-600	315	595	81	565	544	6,5
ILO-125-400Z	125	395	61	365	344	6,5
ILO-160-400Z	160	395	61	365	344	6,5
ILO-200-400Z	200	395	61	365	344	6,5
ILO-125-600Z	125	595	81	565	544	6,5
ILO-160-600Z	160	595	81	565	544	6,5
ILO-200-600Z	200	595	81	565	544	6,5
ILO-250-600Z	250	595	81	565	544	6,5
ILO-315-600Z	315	595	81	565	544	6,5

## Superior installability

ILO includes a unique sideways adjustable diffuser part to make installation easier.

- 1.** Open the diffuser lock.



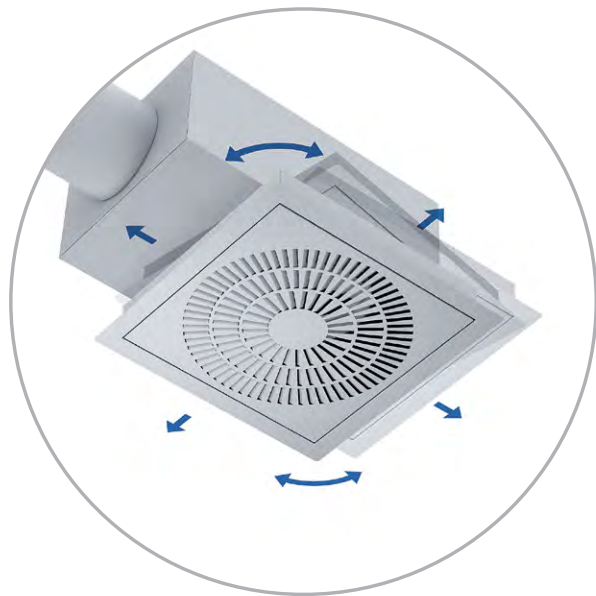
- 2.** Turn down the diffuser part.



- 3.** Loosen the locking screws (two revolutions) to enable adjustment.



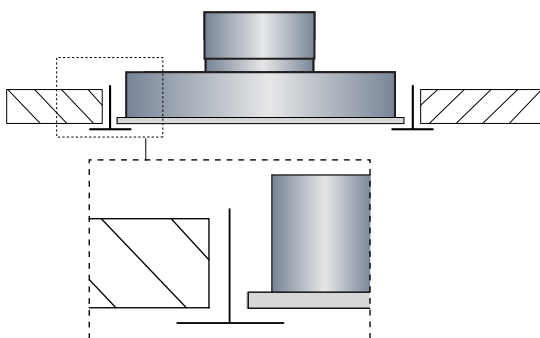
- 4.** Place the device in its correct position and tighten the locking screws.



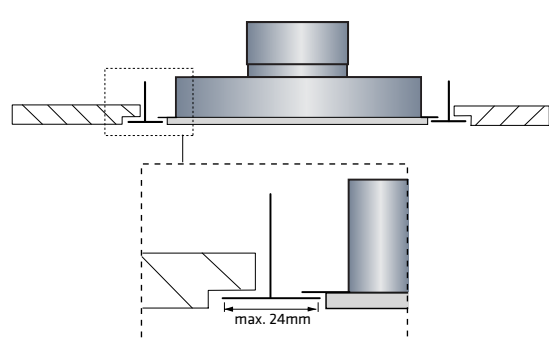
## Ceiling construction options

ILO is available for smooth ceiling surfaces and T-grid ceiling structures with both visible and concealed grids.

- 1.** Smooth ceiling surface



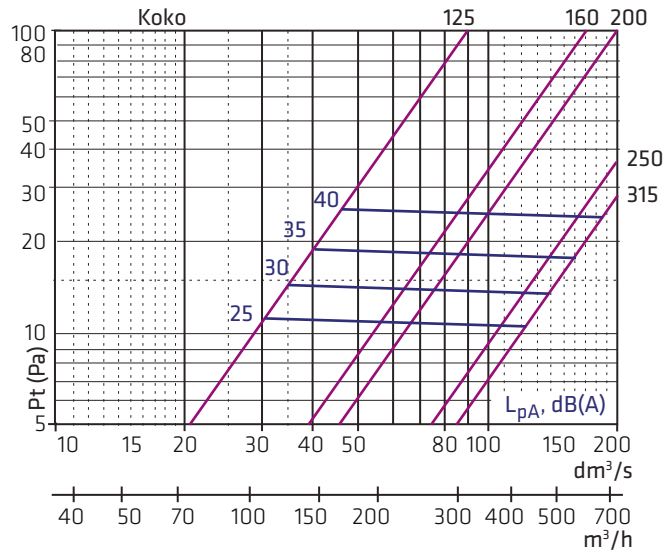
- 2.** T-grid ceiling with concealed grid



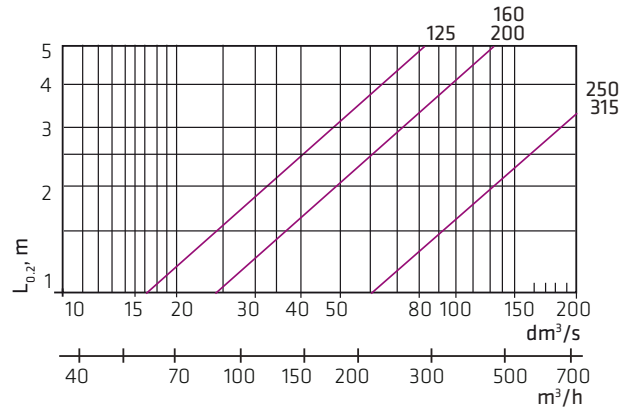
## Dimensioning ILO

The graphs are not intended for adjustment. The change of the module size doesn't affect the performance.

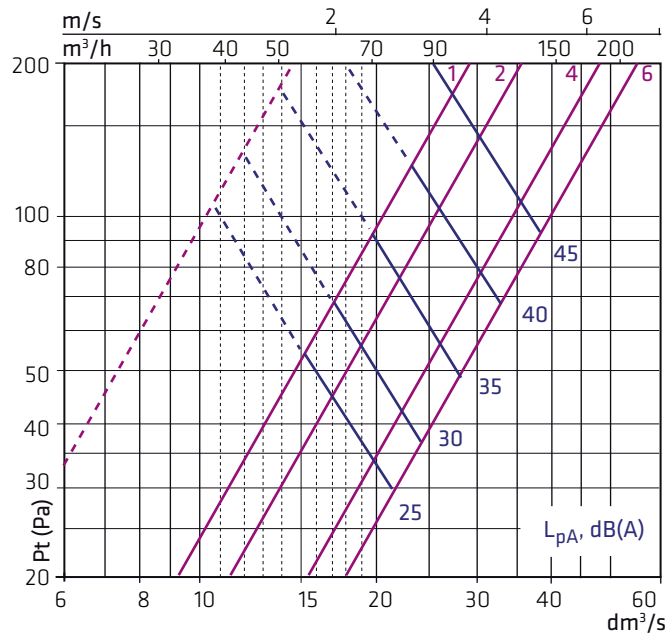
### Airflow – pressure loss – sound level



### Airflow – throw length – twist supply



### ILO-125 + TAK-100/125



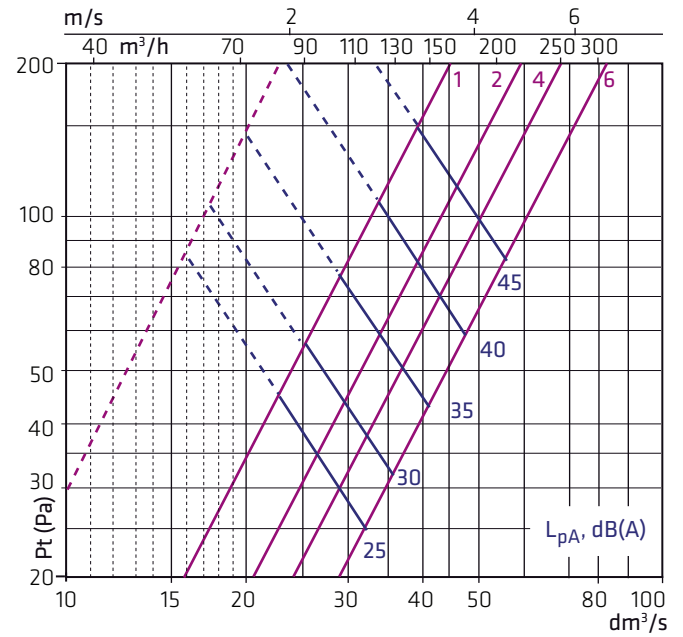
$$L_{w\text{okt}} = L_{pA10} + K$$

	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-125</b>	K, dB	-12	-2	2	3	1	-5	-12	-15
<b>ILO-125+ TAK</b>	K, dB	1	7	6	-1	-1	-5	-9	-14

#### ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-125</b>	ΔL, dB	18	9	5	-1	4	1	1	2
<b>ILO-125+ TAK</b>	ΔL, dB	15	8	5	8	16	14	14	15

### ILO-160 + TAK-125/160



$$L_{w\text{okt}} = L_{pA10} + K$$

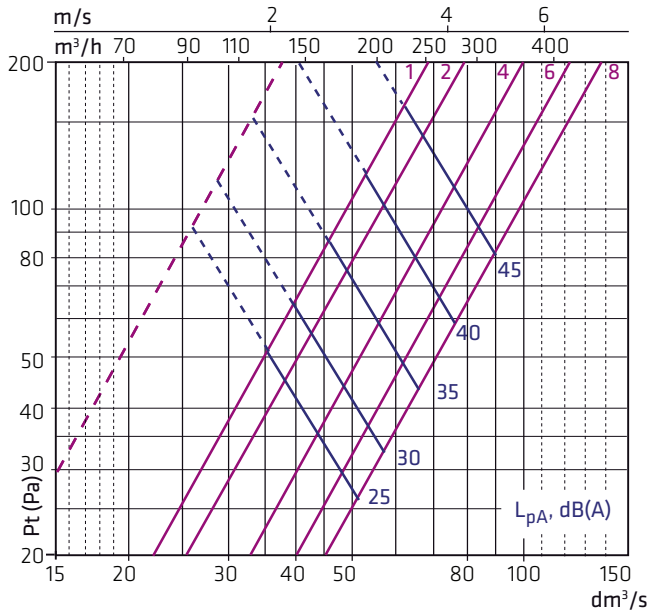
	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-160</b>	K, dB	-13	-4	2	3	2	-6	-15	-16
<b>ILO-160+TAK</b>	K, dB	2	7	5	-1	-1	-4	-12	-14

#### ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-160</b>	ΔL, dB	18	10	6	-1	3	1	1	1
<b>ILO-160+TAK</b>	ΔL, dB	15	7	6	8	16	13	13	15

Wider adjustment range ----- = adjustment plate nozzles partly plugged

### ILO-200 + TAK-160/200



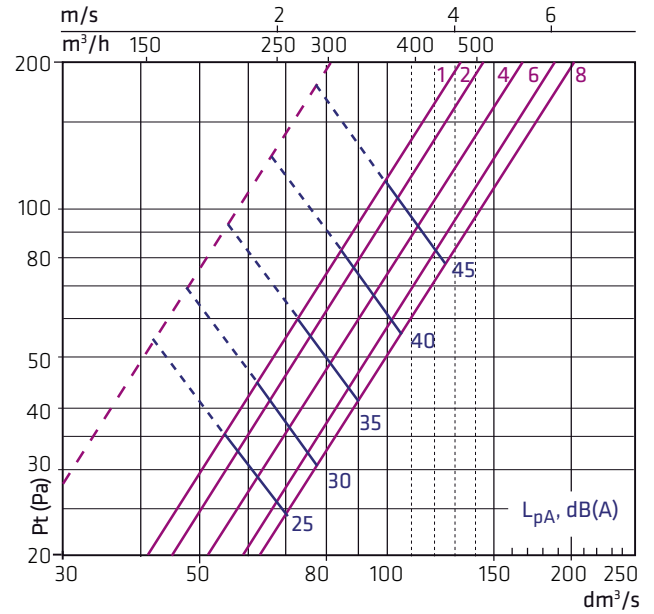
$L_{w\text{okt}} = L_{pA10} + K$

	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-200</b>	K, dB	-14	-6	2	4	3	-9	-20	-22
<b>ILO-200 + TAK</b>	K, dB	1	6	3	3	3	-8	-16	-16

$\Delta L$  (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-200</b>	$\Delta L$ , dB	16	9	3	0	3	1	2	3
<b>ILO-200 + TAK</b>	$\Delta L$ , dB	15	7	6	9	15	12	14	15

### ILO-250 + TAK-200/250



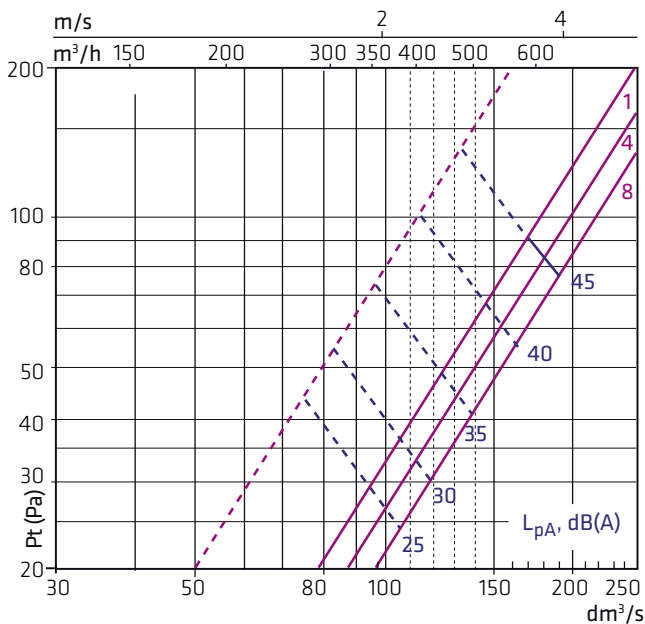
$L_{w\text{okt}} = L_{pA10} + K$

	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-250</b>	K, dB	-12	-3	6	7	1	-5	-15	-20
<b>ILO-250 + TAK</b>	K, dB	4	10	2	2	-2	-8	-14	-18

$\Delta L$  (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-250</b>	$\Delta L$ , dB	11	7	1	1	0	1	1	4
<b>ILO-250 + TAK</b>	$\Delta L$ , dB	15	6	5	8	15	14	13	15

### ILO-315 + TAK-250/315



$L_{w\text{okt}} = L_{pA10} + K$

	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-315</b>	K, dB	-12	-3	5	8	1	-5	-15	-18
<b>ILO-315 + TAK</b>	K, dB	3	11	2	2	-4	-4	-12	-16

$\Delta L$  (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
<b>ILO-315</b>	$\Delta L$ , dB	11	8	1	1	0	1	1	3
<b>ILO-315 + TAK</b>	$\Delta L$ , dB	15	6	6	13	14	13	12	12

Wider adjustment range ----- = adjustment plate nozzles partly plugged