

ILO, OLO, OLE and OLOi



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, OLE, OLO and OLOi

Modern and stylish supply air diffusers ILO, OLO and OLE are a perfect fit for a supply air device of suspended ceilings. The exhaust air device OLOi shares the properties and style of the supply air diffusers ILO, OLO and OLE.

ILO, OLO and OLE are extremely easy to install. One of their most prominent properties is the sideways adjustability that makes installation work remarkably easy. Even if the duct installation places the diffuser off-centre in the ceiling opening, the sideways adjustability allows shifting it exactly into place without moving the ducts. This adjustability ensures an always tidy installation and may save a lot of installation time.



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.

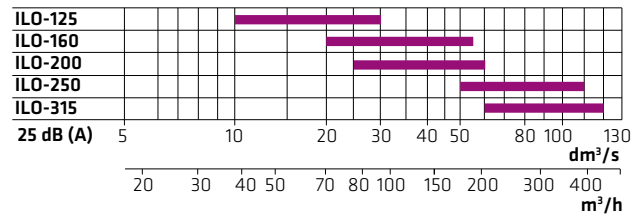


Product code

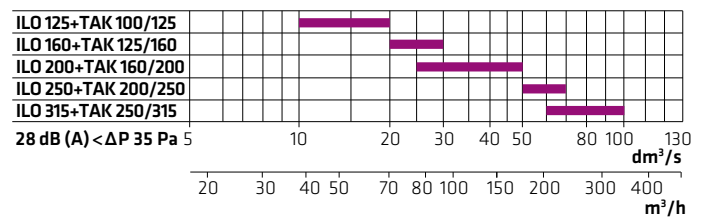
Twist-supply diffuser ILO-250-600+Z+ TAK 200/250
1 2 3 4 5 6 7

- 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

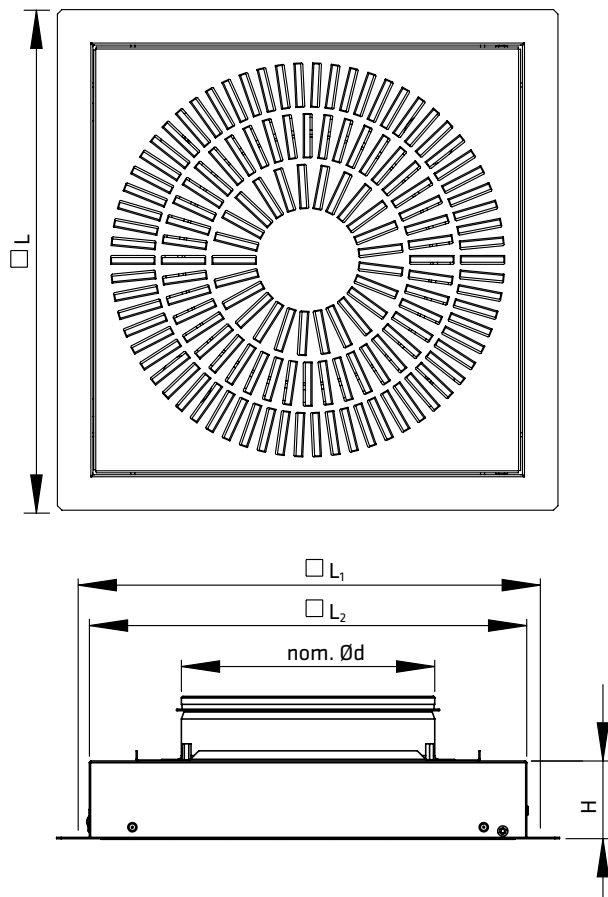


Material and surface treatment

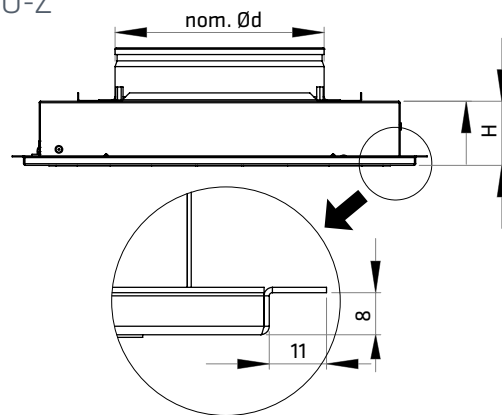
The ILO twist-supply diffuser is manufactured from sheet steel, painted in Traffic White RAL9016 as standard. Special colours available on request. For colour options, see colour chart RAL K1.

Dimensions

ILO



ILO-Z



	nom. Ød	□L	H	□L ₁	□L ₂	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.



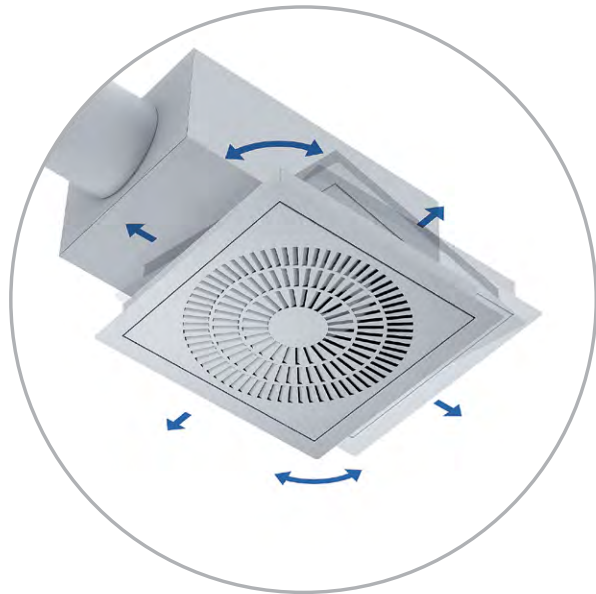
- 2.** Turn down the diffuser part.



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



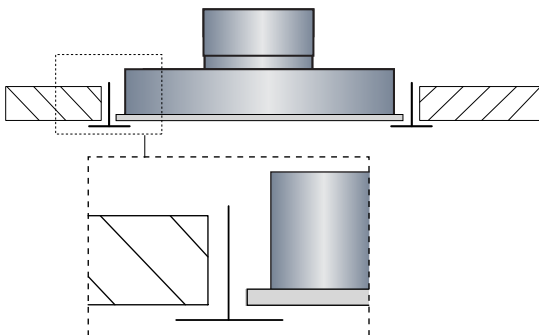
- 4.** Place the device in its correct position and tighten the locking screws.



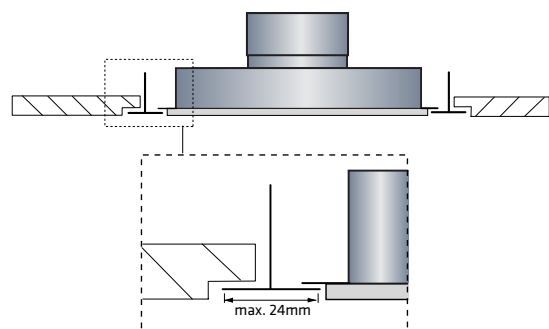
Ceiling construction options

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

- 1.** Smooth ceiling surface



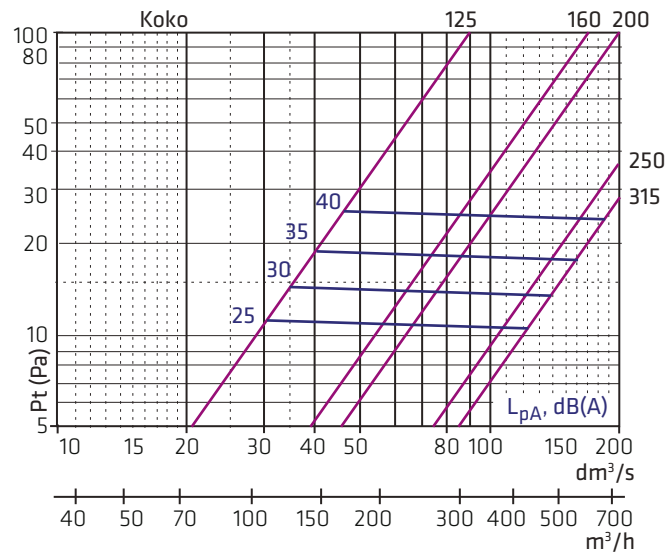
- 2.** T-grid ceiling with concealed grid



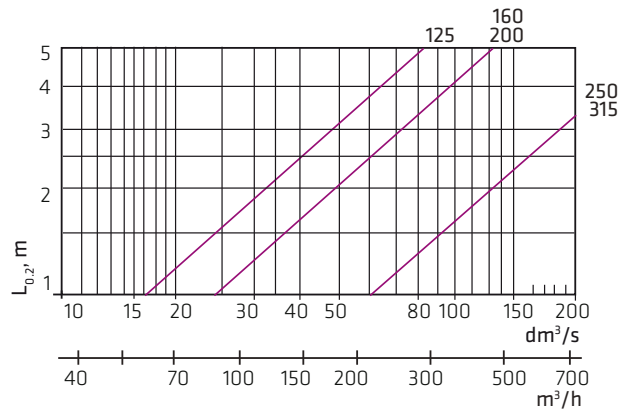
Dimensioning ILO

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

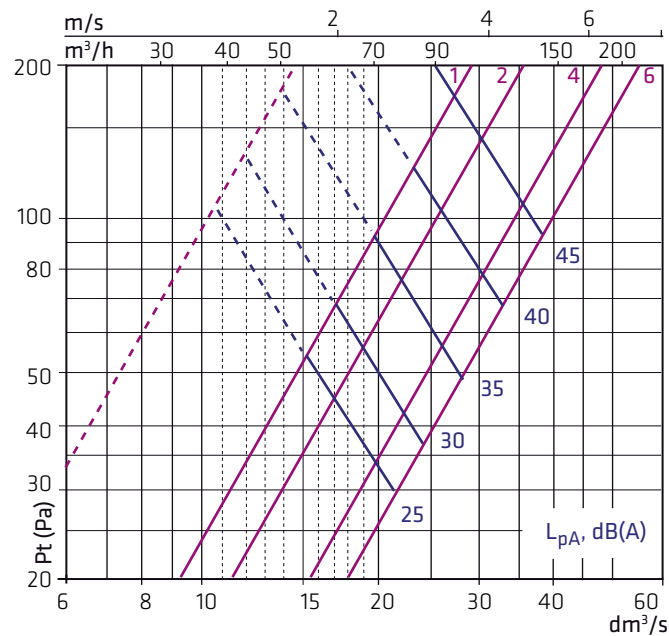
Airflow – pressure loss – sound level



Airflow – throw length – twist supply



ILO-125 + TAK-100/125



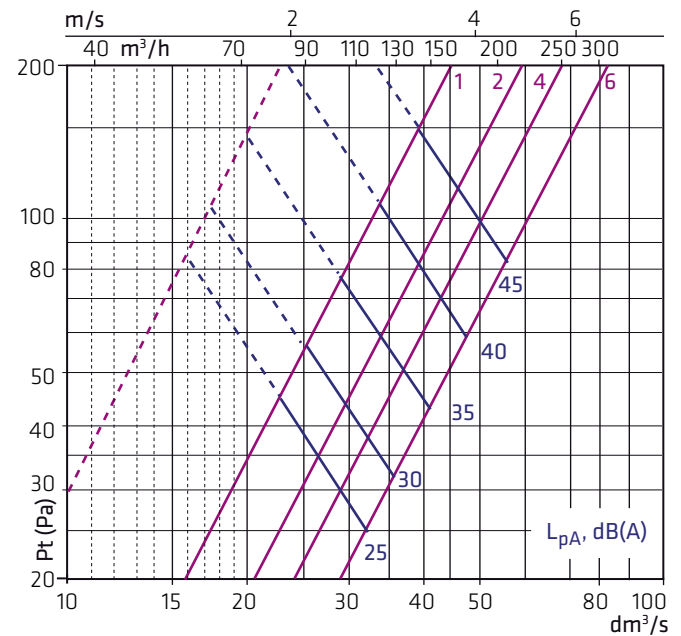
$$L_{w\text{okt}} = L_{pA10} + K$$

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

ΔL (dB)

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

ILO-160 + TAK-125/160



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

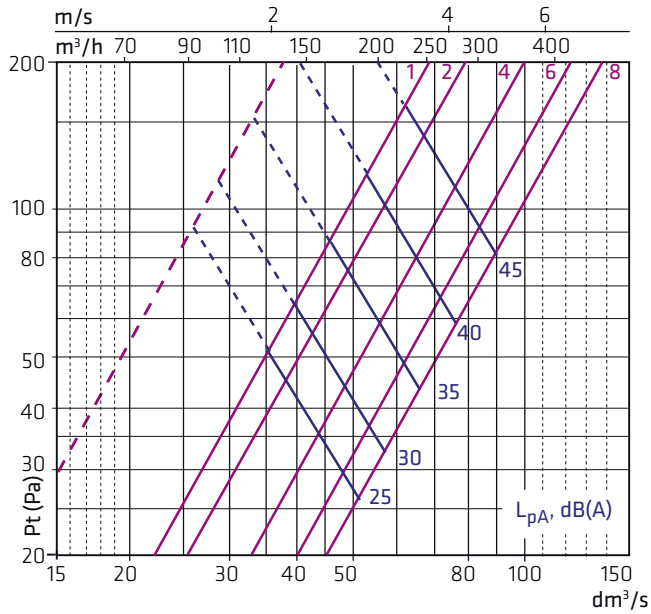
	f, Hz	63	125	250	500	1k	2k	4k	8k
ILO-160	K, dB	-13	-4	2	3	2	-6	-15	-16
ILO-160+TAK	K, dB	2	7	5	-1	-1	-4	-12	-14

ΔL (dB)

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

Wider adjustment range = adjustment plate nozzles partly plugged

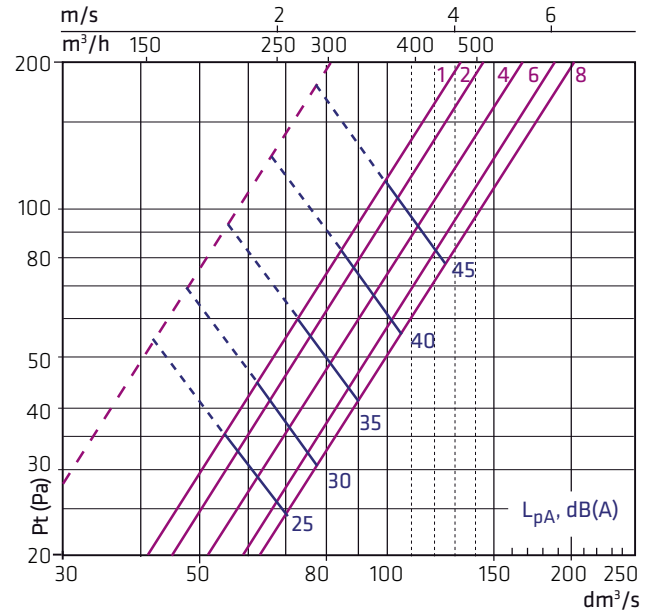
ILO-200 + TAK-160/200



$L_{w\text{okt}} = L_{pA10} + K$		f, Hz	63	125	250	500	1k	2k	4k	8k
ILO-200	K, dB	-14	-6	2	4	3	-9	-20	-22	
ILO-200 + TAK	K, dB	1	6	3	3	3	-8	-16	-16	

ΔL (dB)		f, Hz	63	125	250	500	1k	2k	4k	8k
ILO-200	ΔL , dB	16	9	3	0	3	1	2	3	
ILO-200 + TAK	ΔL , dB	15	7	6	9	15	12	14	15	

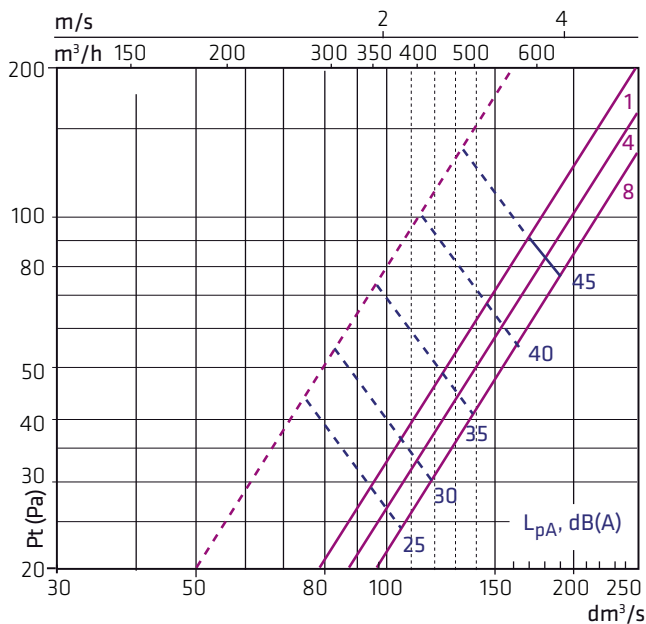
ILO-250 + TAK-200/250



$L_{w\text{okt}} = L_{pA10} + K$		f, Hz	63	125	250	500	1k	2k	4k	8k
ILO-250	K, dB	-12	-3	6	7	1	-5	-15	-20	
ILO-250 + TAK	K, dB	4	10	2	2	-2	-8	-14	-18	

ΔL (dB)		f, Hz	63	125	250	500	1k	2k	4k	8k
ILO-250	ΔL , dB	11	7	1	1	0	1	1	4	
ILO-250 + TAK	ΔL , 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
ILO-315	K, dB	-12	-3	5	8	1	-5	-15	-18	
ILO-315 + TAK	K, dB	3	11	2	2	-4	-4	-12	-16	

ΔL (dB)		f, Hz	63	125	250	500	1k	2k	4k	8k
ILO-315	ΔL , dB	11	8	1	1	0	1	1	3	
ILO-315 + TAK	ΔL , dB	15	6	6	13	14	13	12	12	

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

OLO

OLO, equipped with fully directable nozzles and designed for large air volumes, creates a wide horizontal throw pattern as standard. Thanks to its directable nozzles, the throw pattern of OLO is easy to change after installation, for example if the purpose of the room is changed. The OLO is suitable for both constant and variable airflows, and its high mixing ratio also allows cooled supply air. OLO Z is designed for suspended ceilings with a concealed T-grid.



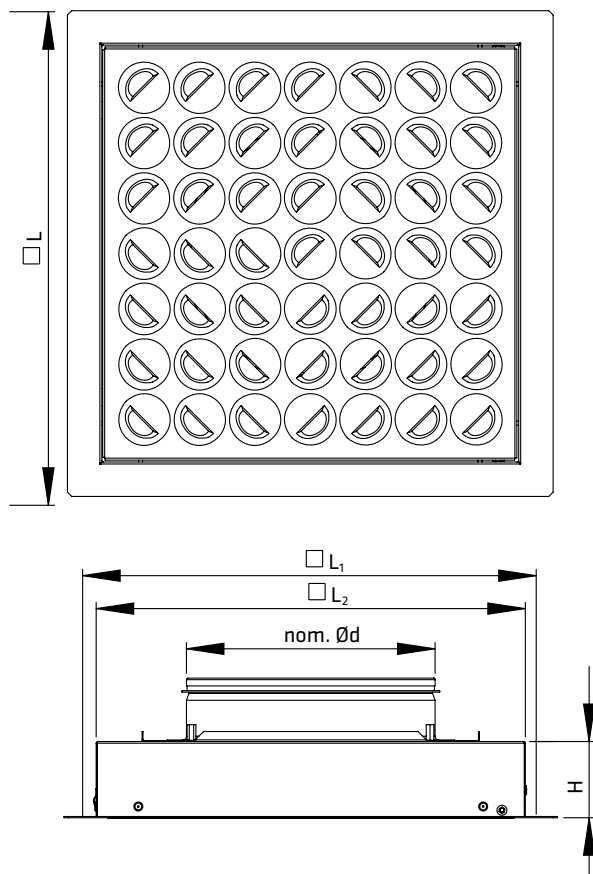
Product code

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

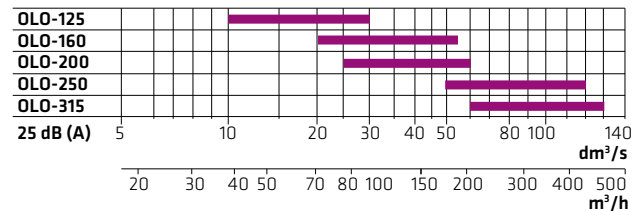
- 1 = Twist-supply diffuser OLO
- 2 = Connection diameter
- 3 = Panel size of suspended/coffered ceiling
- 4 = Lowered diffuser part
- 5 = Balancing plenum box TAK
- 6 = Balancing plenum box duct size
- 7 = Balancing plenum box connection to diffuser

Dimensions

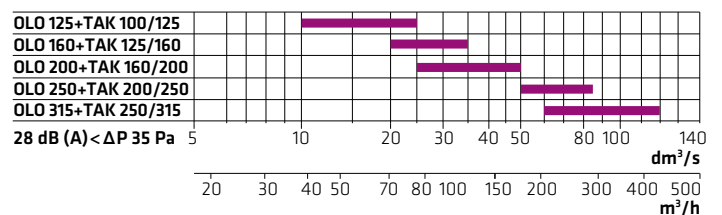
OLO



Quick guide OLO



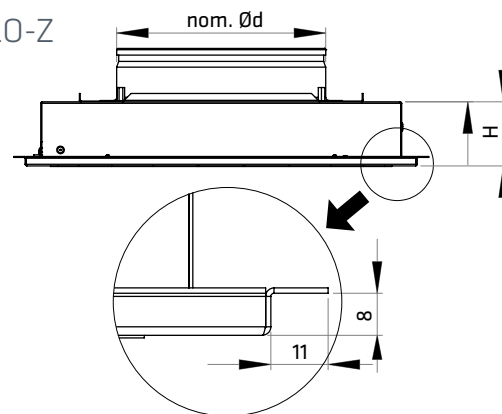
Quick guide OLO+TAK



Materials and surface treatment

The directable-nozzle twist-supply diffuser OLO is manufactured from sheet steel with the nozzles made of plastics. The standard colour is Traffic White RAL 9016. Special colours available on request. For colour options, see colour chart RAL K1. Nozzles are available in white, black and metallic grey.

OLO-Z



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

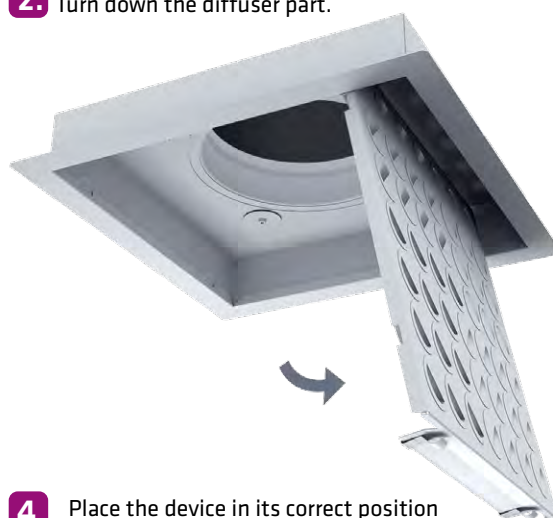
Superior installability

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

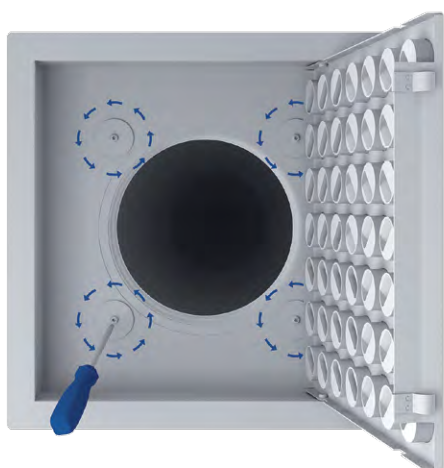
- 1.** Open the diffuser lock.



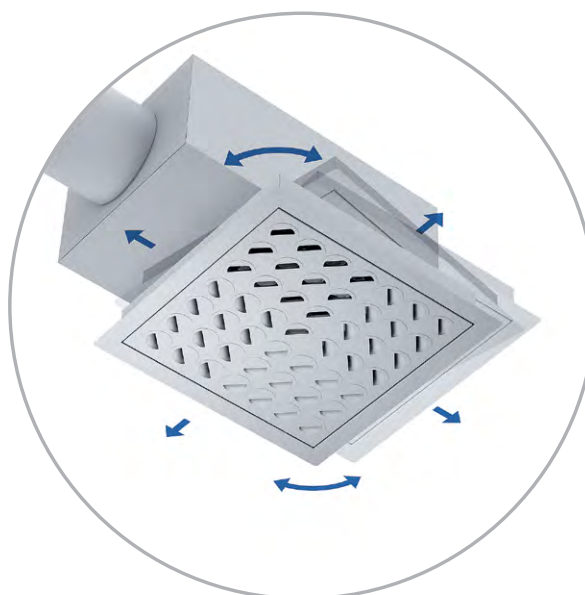
- 2.** Turn down the diffuser part.



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



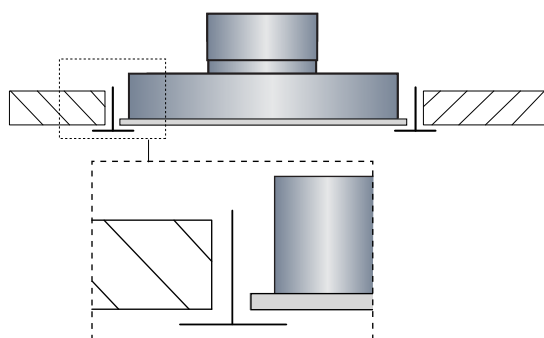
- 4.** Place the device in its correct position and tighten the locking screws.



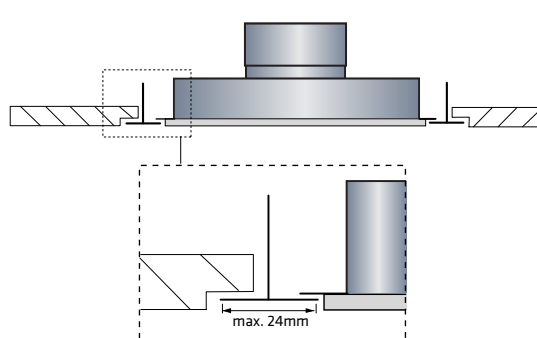
Ceiling construction options

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

- 1.** Smooth ceiling surface



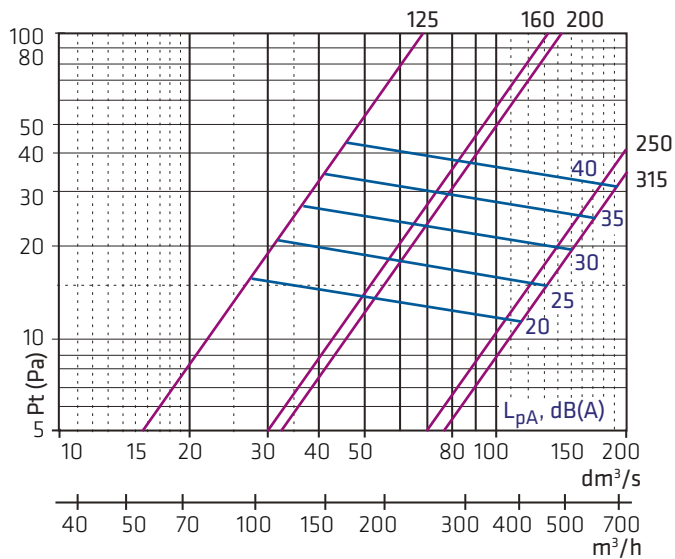
- 2.** T-grid ceiling with concealed grid



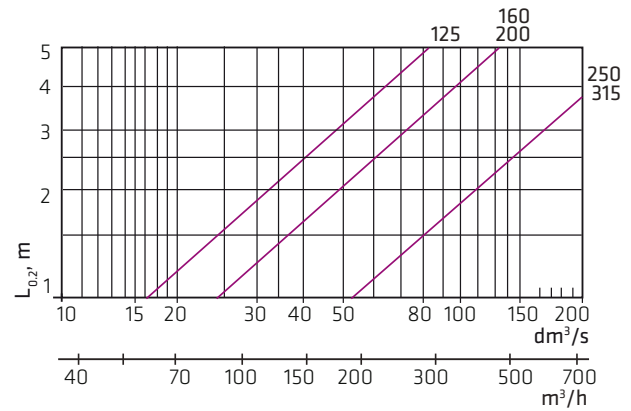
Dimensioning OLO

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

Airflow - pressure loss - sound level



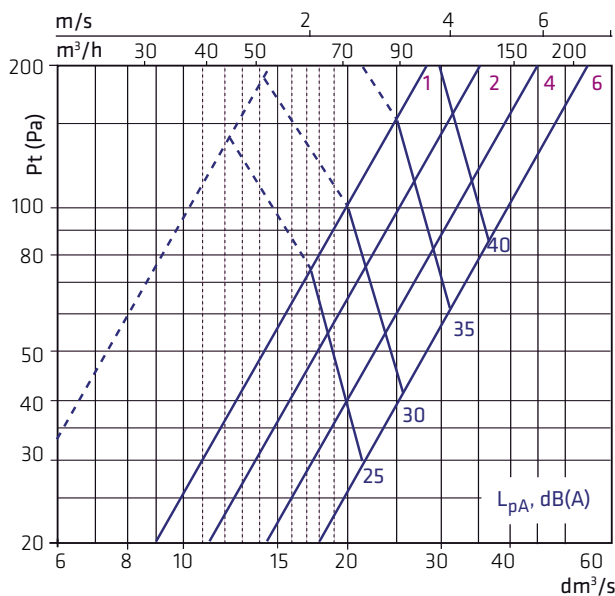
Airflow - throw length - twist supply



Conversion factors OLO

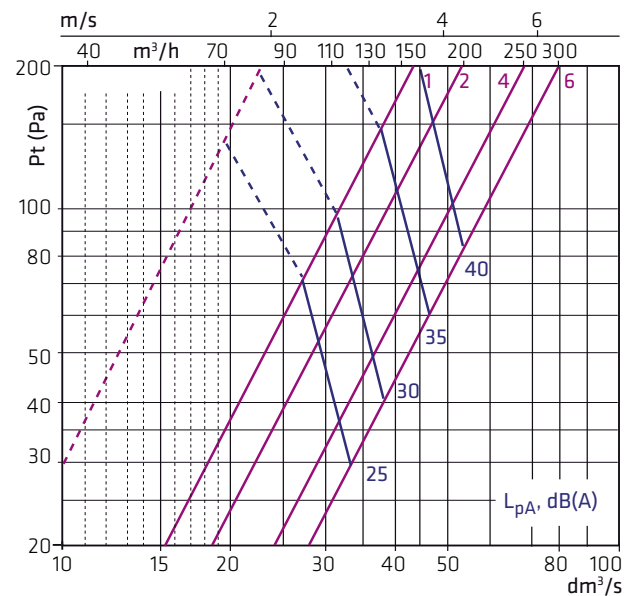
Blow direction	Throw length L _{0,2}
4 directions	1,5
3 directions	2,0
2 directions	2,5
1 directions	4,0

OLO-125 + TAK-100/125



$L_{w\text{okt}} = L_{pA10} + K$									
	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-125	K, dB	-9	-3	2	3	-1	-5	-9	-13
OLO-125+TAK	K, dB	1	7	6	-1	-1	-5	-9	-14
ΔL (dB)									
	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-125	ΔL , dB	18	12	5	-1	4	1	1	2
OLO-125+TAK	ΔL , dB	15	8	5	8	16	14	14	15

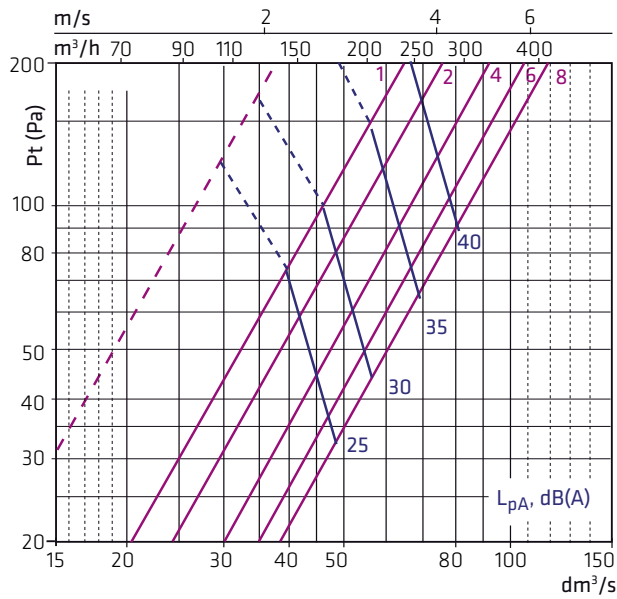
OLO-160 + TAK-125/160



$L_{w\text{okt}} = L_{pA10} + K$									
	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-160	K, dB	-9	-4	2	3	-1	-6	-9	-14
OLO-160+TAK	K, dB	2	7	5	-1	-1	-4	-12	-14
ΔL (dB)									
	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-160	ΔL , dB	18	12	6	-1	3	1	1	1
OLO-160+TAK	ΔL , dB	15	7	6	8	16	13	13	15

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

OLO-200 + TAK-160/200



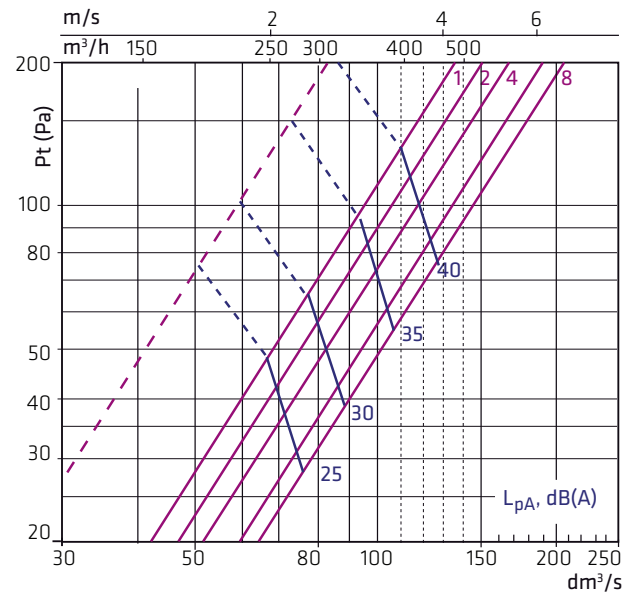
$$L_{w\text{okt}} = L_{pA10} + K$$

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-200	K, dB	-10	-6	-5	-2	-2	-14	-22	-27
OLO-200+TAK	K, dB	-2	3	-1	-1	-4	-14	-20	-24

ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-200	ΔL, dB	15	10	4	1	1	1	1	3
OLO-200+TAK	ΔL, dB	16	7	8	9	16	16	17	17

OLO-250 + TAK-200/250



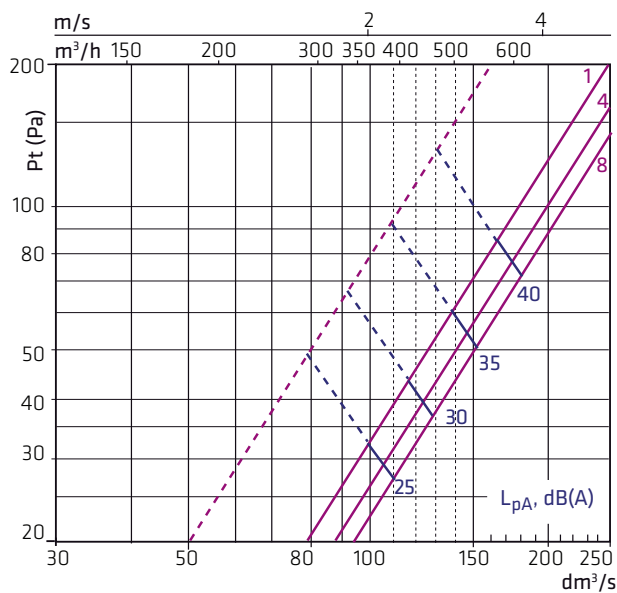
$$L_{w\text{okt}} = L_{pA10} + K$$

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-250	K, dB	-8	-4	6	7	1	-5	-11	-20
OLO-250+TAK	K, dB	4	10	-1	-2	-2	-8	-14	-18

ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-250	ΔL, dB	11	7	1	1	0	1	1	4
OLO-250+TAK	ΔL, dB	15	6	6	8	15	14	13	15

OLO-315 + TAK-250/315



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

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-315	K, dB	-8	-5	5	8	1	6	-11	-18
OLO-315+TAK	K, dB	3	11	-1	2	-4	-4	-12	-16

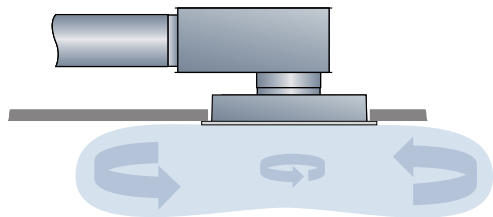
ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLO-315	ΔL, dB	11	8	1	1	0	1	1	3
OLO-315+TAK	ΔL, dB	15	6	6	13	14	13	12	12

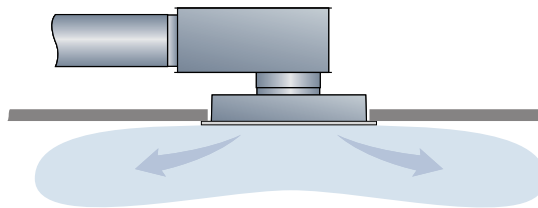
Wider adjustment range ----- = adjustment plate nozzles partly plugged

The throw pattern of OLO can be changed

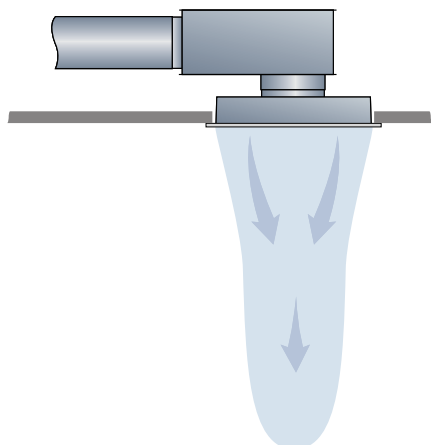
Twist supply = standard



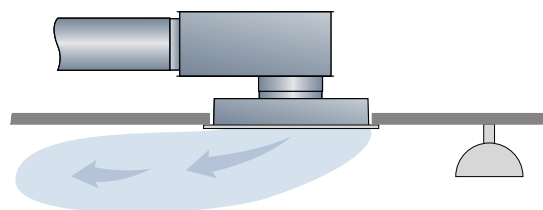
4 directions 360°



Vertical



Directed



The direction of the nozzles has no effect on the airflow or sound level.

OLE

OLE, equipped with fully directable nozzles, creates a whirling horizontal throw pattern. Thanks to its directable nozzles, the throw pattern of OLE is easy to change after installation, for example if the purpose of the room is changed. The OLE is suitable for both constant and variable airflows, and its high mixing ratio also allows cooled supply air. OLE Z is designed for suspended ceilings with a concealed T-grid.



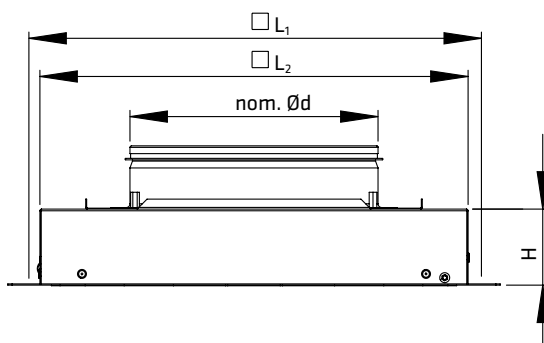
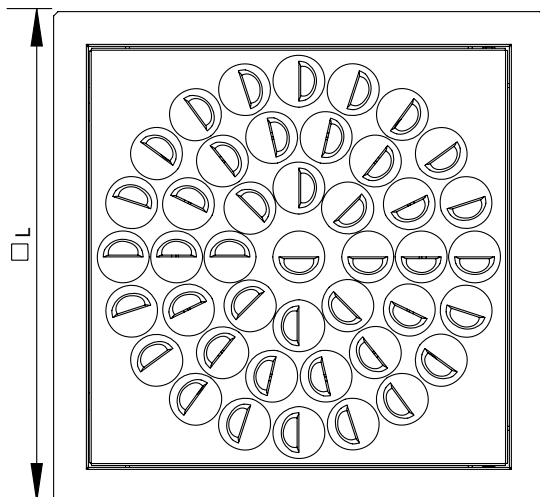
Product code

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

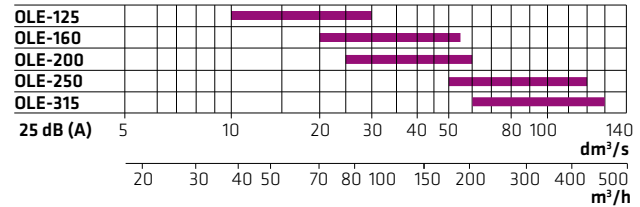
- 1 = Twist-supply diffuser OLE
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- 5 = Balancing plenum box TAK
- 6 = Balancing plenum box duct size
- 7 = Balancing plenum box connection to diffuser

Dimensions

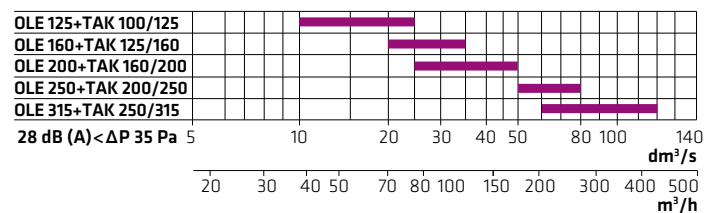
OLE



Quick guide OLE



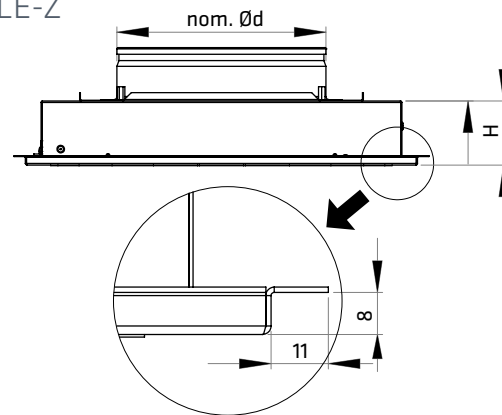
Quick guide OLE+TAK



Materials and surface treatment

The directable-nozzle twist-supply diffuser OLE is manufactured from sheet steel with the nozzles made of plastics. The standard colour is Traffic White RAL 9016. Special colours available on request. For colour options, see colour chart RAL K1. Nozzles are available in white, black and metallic grey.

OLE-Z



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

Superior installability

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

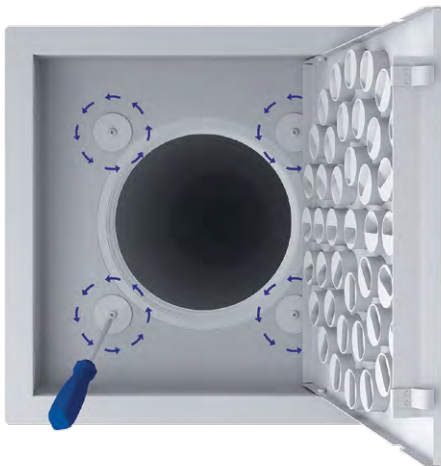
- 1.** Open the diffuser lock.



- 2.** Turn down the diffuser part.



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



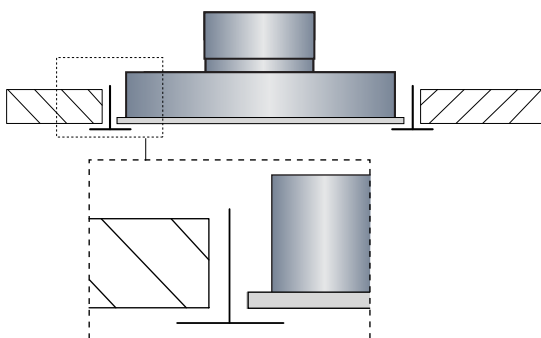
- 4.** Place the device in its correct position and tighten the locking screws.



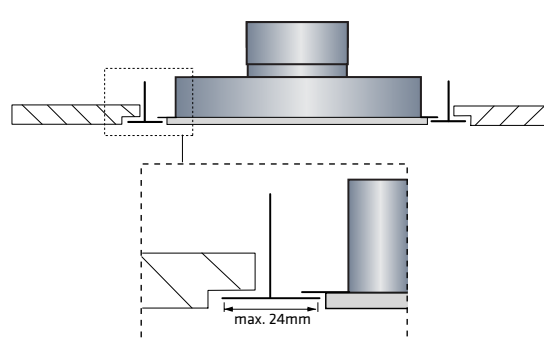
Ceiling construction options

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

- 1.** Smooth ceiling surface



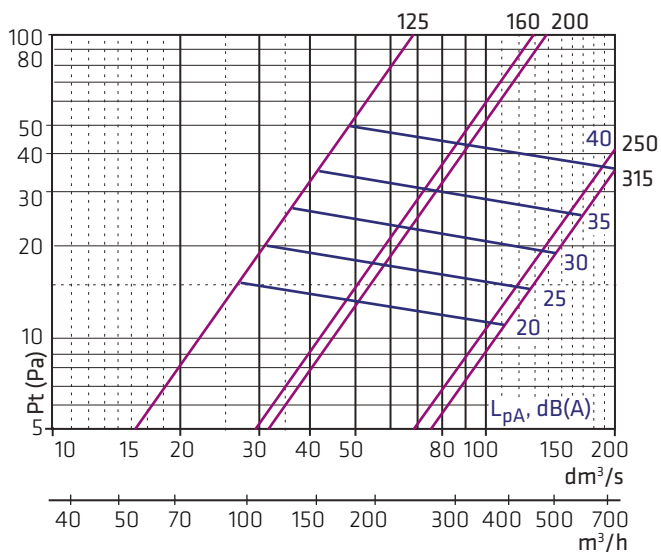
- 2.** T-grid ceiling with concealed grid



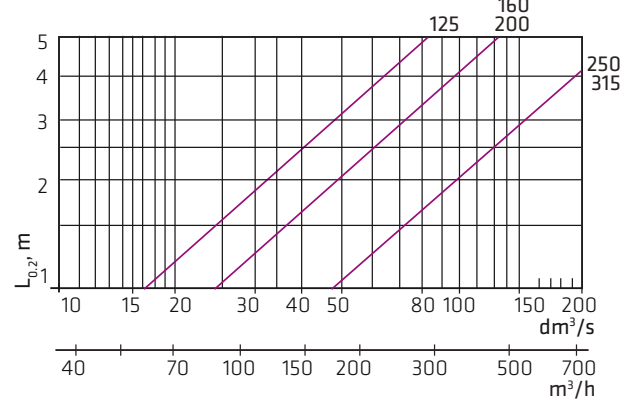
Dimensioning OLE

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

Airflow – pressure loss – sound level



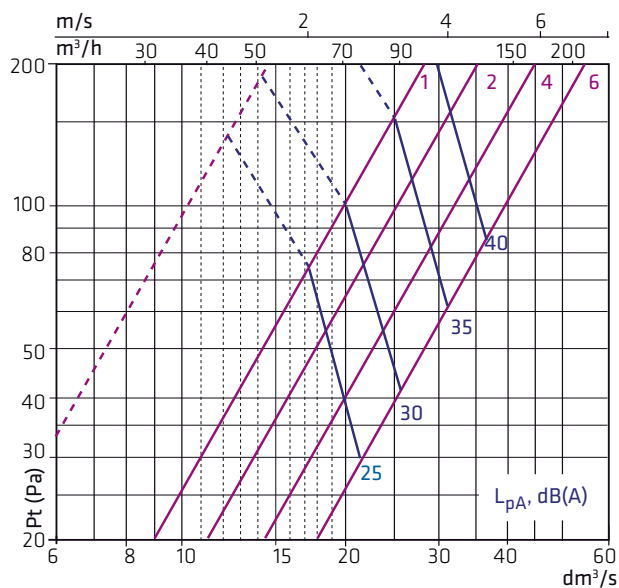
Airflow – throw length – twist supply



Conversion factors OLE

Blow direction	Throw length L _{0,2}
4 directions	1,5
3 directions	2,0
2 directions	2,5
1 directions	4,0

OLE-125 + TAK-100/125



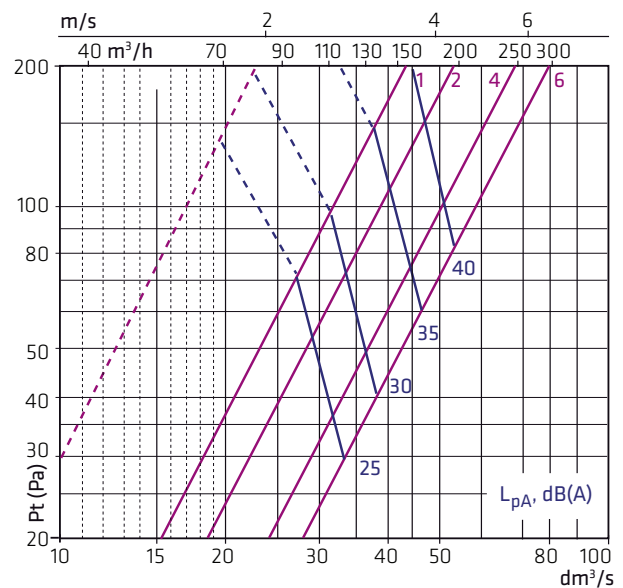
$$L_{w\text{okt}} = L_{pA10} + K$$

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-125	K, dB	-5	1	2	3	-1	-5	-9	-13
OLE-125+TAK	K, dB	1	7	6	-1	-1	-5	-9	-14

ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-125	ΔL, dB	18	12	5	-1	4	1	1	2
OLE-125+TAK	ΔL, dB	15	8	5	8	16	14	14	15

OLE-160 + TAK-125/160



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

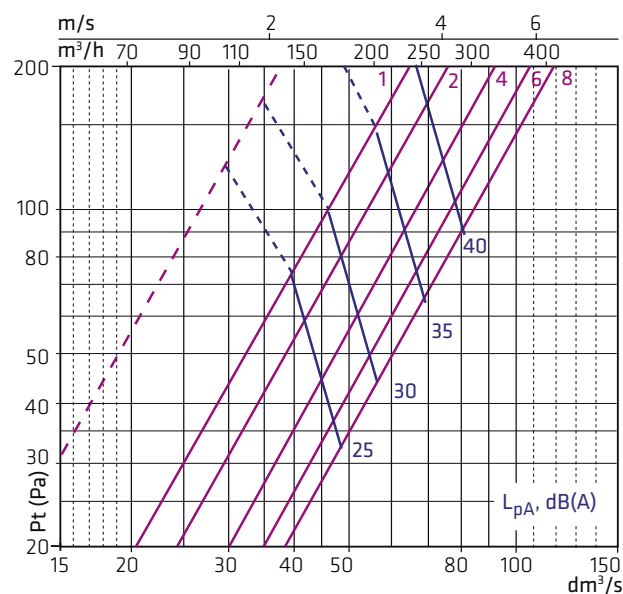
	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-160	K, dB	-5	3	2	3	-1	-6	-9	-14
OLE-160+TAK	K, dB	2	7	5	-1	-1	-4	-12	-14

ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-160	ΔL , dB	18	12	6	-1	3	1	1	1
OLE-160+TAK	ΔL , dB	15	7	6	8	16	13	13	15

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

OLE-200 + TAK-160/200



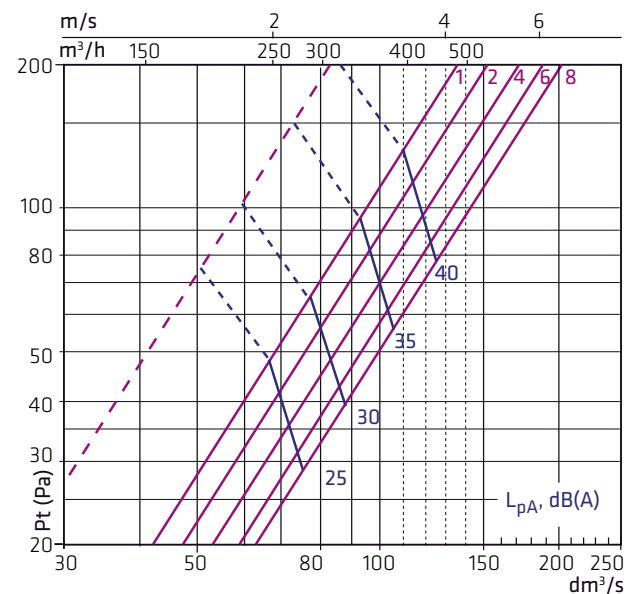
$$L_{w\text{okt}} = L_{pA10} + K$$

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-200	K, dB	-6	-4	1	4	3	-7	-15	-22
OLE-200+TAK	K, dB	3	8	4	5	1	-8	-14	-19

ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-200	ΔL, dB	15	10	4	1	1	1	1	3
OLE-200+TAK	ΔL, dB	16	7	8	9	17	16	17	16

OLE-250 + TAK-200/250



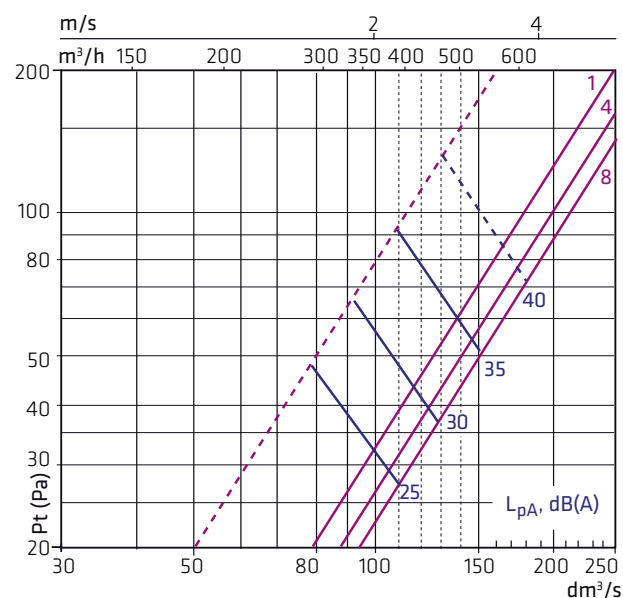
$$L_{w\text{okt}} = L_{pA10} + K$$

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-250	K, dB	-2	5	6	7	1	-5	-11	-20
OLE-250+TAK	K, dB	4	10	3	3	1	-8	-14	-18

ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-250	ΔL, dB	11	7	1	1	0	1	1	4
OLE-250+TAK	ΔL, dB	15	5	6	8	15	14	13	15

OLE-315 + TAK-250/315



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

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-315	K, dB	-2	5	5	8	1	6	-11	-18
OLE-315+TAK	K, dB	3	11	3	2	1	-4	-12	-16

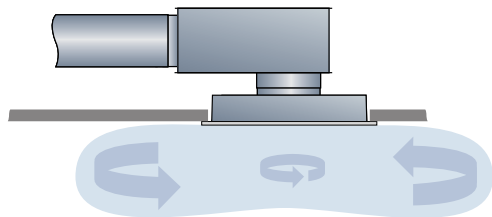
ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLE-315	ΔL, dB	11	8	1	1	0	1	1	3
OLE-315+TAK	ΔL, dB	15	6	6	13	14	13	12	12

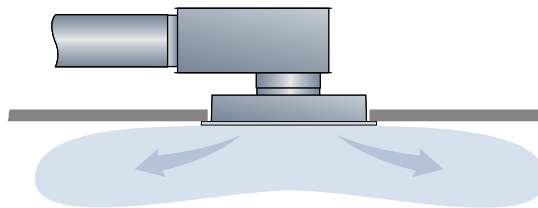
Wider adjustment range ----- = adjustment plate nozzles partly plugged

The throw pattern of OLE can be changed

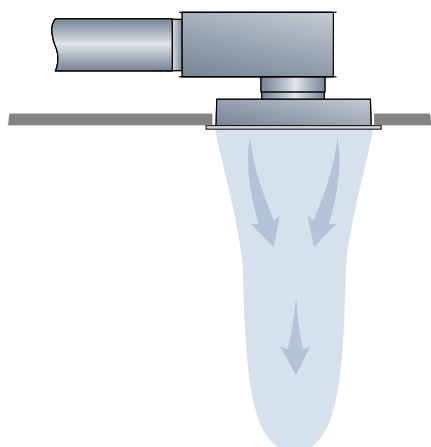
Twist supply = standard



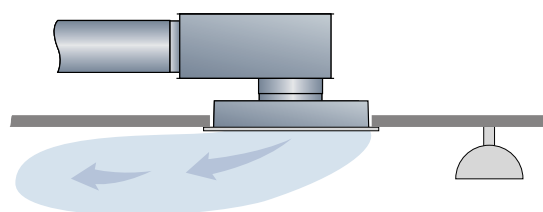
4 directions 360°



Vertical



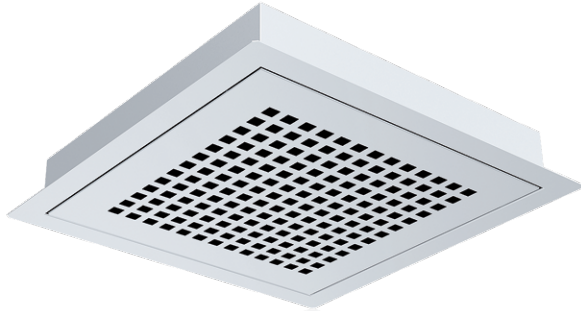
Directed



The direction of the nozzles has no effect on the airflow or sound level.

OLOi

The optimized perforation distribution and the rectangular perforations of the exhaust air device **OLOi** provide excellent air and sound properties. For high airborne sound insulation we recommend the use of the type approved balancing plenum box PAK. The uncomplicated design of the OLOi makes it easy to clean. The entire front panel of the device can be removed for easy cleaning and sweeping. OLOi Z is designed for T-grid ceiling structures with concealed grids.



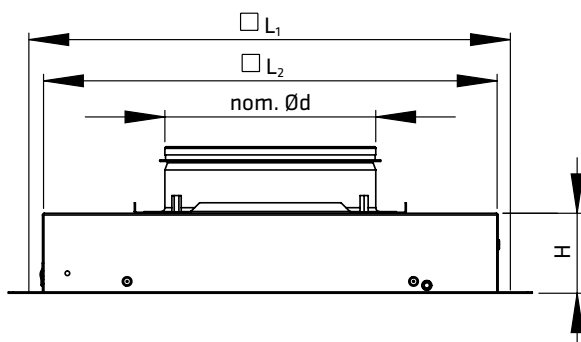
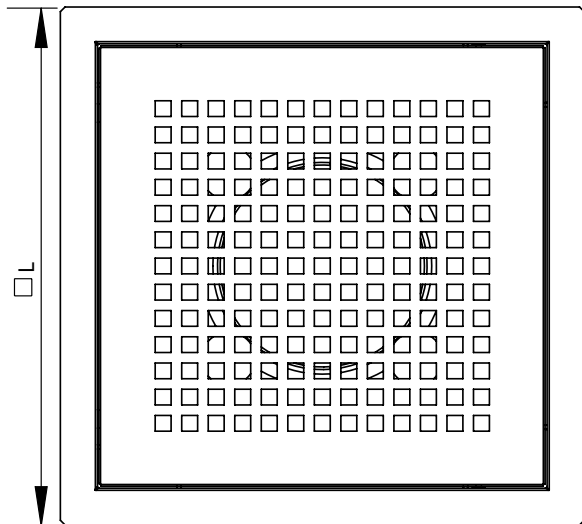
Product code

Exhaust air device OLOi-250-400+Z+PAK 200/250
1 2 3 4 5 6 7

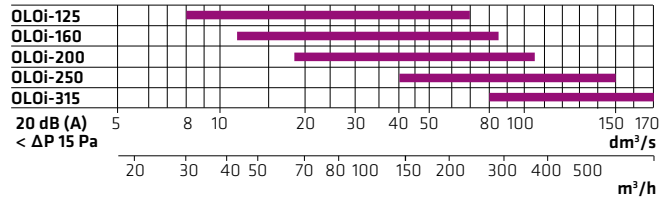
- 1 = Exhaust air device OLOi
- 2 = Exhaust air device size
- 3 = Panel size of suspended/coffered ceiling
- 4 = Lowered exhaust part
- 5 = Balancing plenum box PAK
- 6 = Balancing plenum box duct size
- 7 = Balancing plenum box connection to exhaust air device

Dimensions

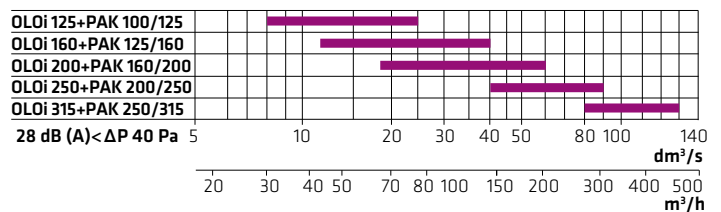
OLOi



Quick guide OLOi



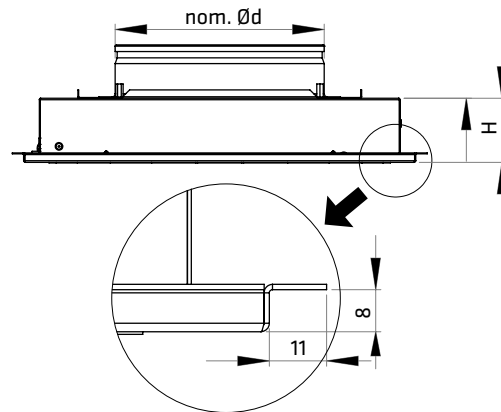
Quick guide OLOi+PAK



Materials and surface treatment

The exhaust air device OLOi is manufactured from sheet steel. The standard colour is Traffic White RAL 9016. Special colours available on request. For colour options, see colour chart RAL K1.

OLOi-Z



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

Superior installability

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

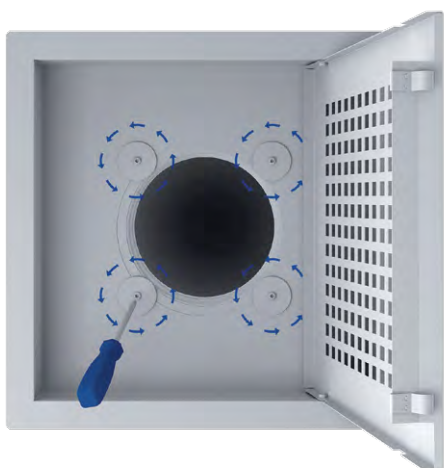
- 1.** Open the front panel lock.



- 2.** Turn down the front panel.



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



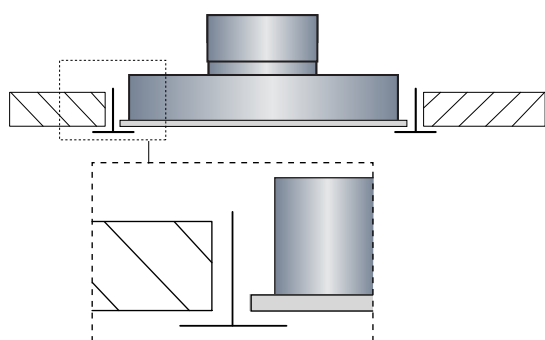
- 4.** Place the device in its correct position and tighten the locking screws.



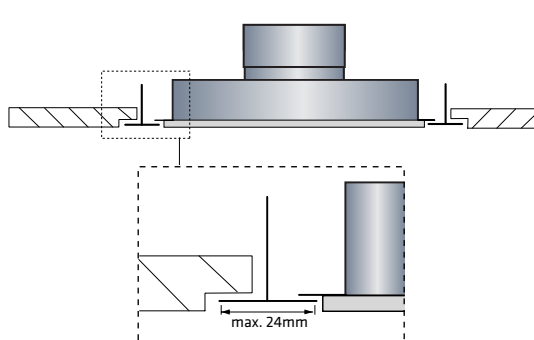
Ceiling construction options

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

- 1.** Smooth ceiling surface



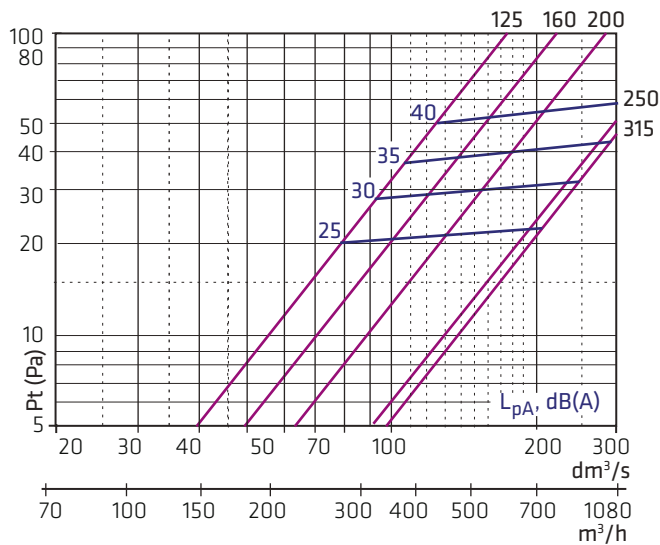
- 2.** T-grid ceiling with concealed grid



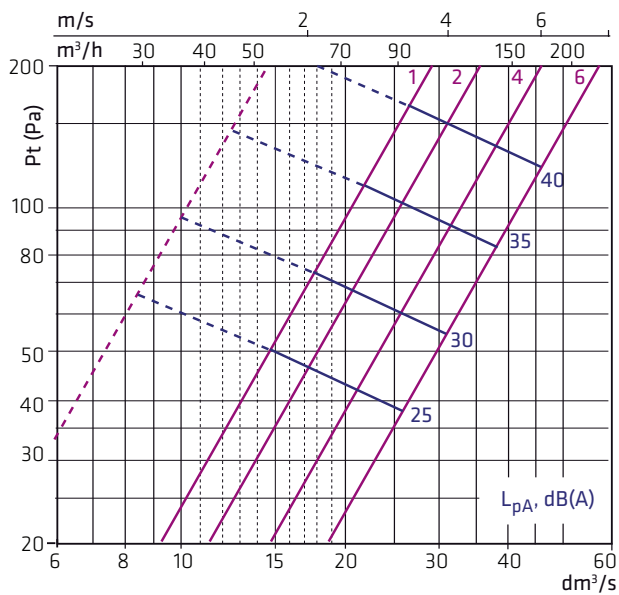
Dimensioning OLOi

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

Airflow – pressure loss – sound level



OLOi-125 + PAK-100/125



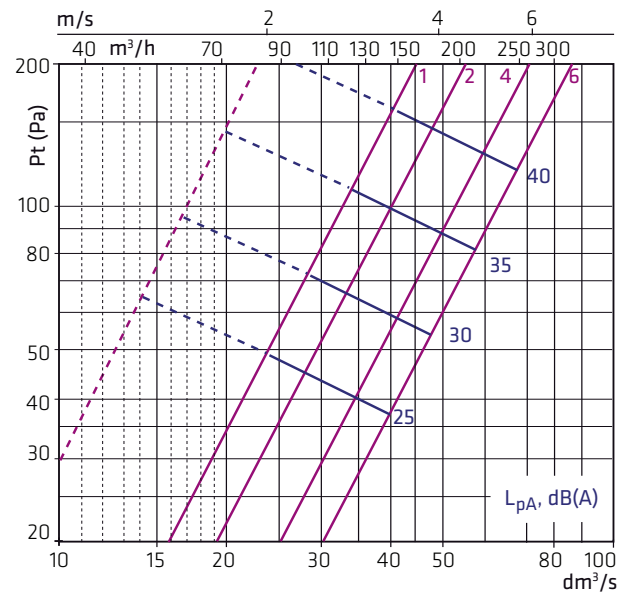
$$L_{\text{wokt}} = L_{pA10} + K$$

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-125	K, dB	-5	1	2	3	-1	-5	-9	-13
OLOi-125+PAK	K, dB	1	7	6	3	-1	-5	-9	-13

ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-125	ΔL , dB	18	12	5	-1	4	1	1	2
OLOi-125+PAK	ΔL , dB	15	8	5	8	16	14	14	15

OLOi-160 + PAK-125/160



$$L_{\text{wokt}} = L_{pA10} + K$$

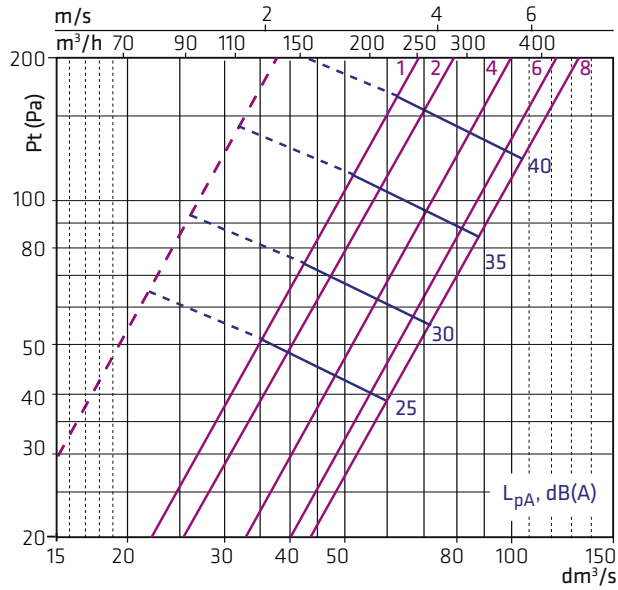
	f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-160	K, dB	-5	3	2	3	-1	-6	-9	-14
OLOi-160+PAK	K, dB	2	7	5	3	-1	-4	-9	-14

ΔL (dB)

	f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-160	ΔL , dB	18	12	6	-1	3	1	1	1
OLOi-160+PAK	K, dB	15	7	6	8	16	13	13	15

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

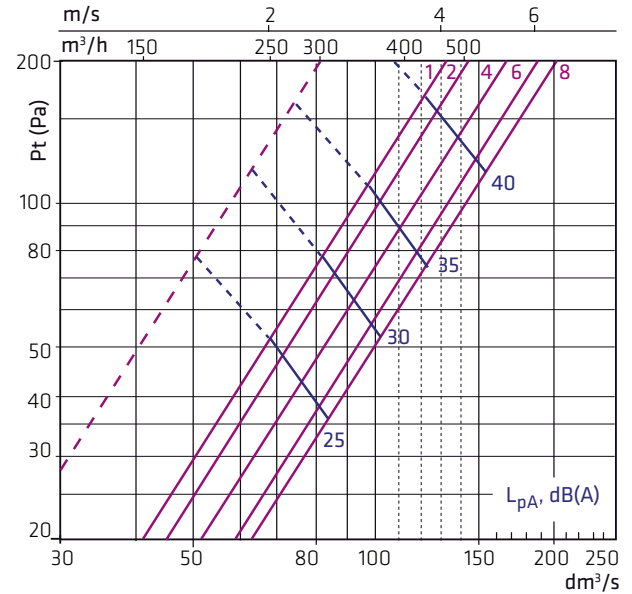
OLOi-200 + PAK-160/200



$L_{w, \text{dB(A)}} = L_{pA, \text{dB(A)}} + K$		f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-200	K, dB	-5	-2	1	4	-1	-6	-10	-15	
OLOi-200+PAK	K, dB	1	7	5	3	-4	-5	-10	-14	

ΔL (dB)		f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-200	ΔL , dB	15	10	4	1	1	1	1	3	
OLOi-200+PAK	ΔL , dB	16	8	8	9	19	14	14	15	

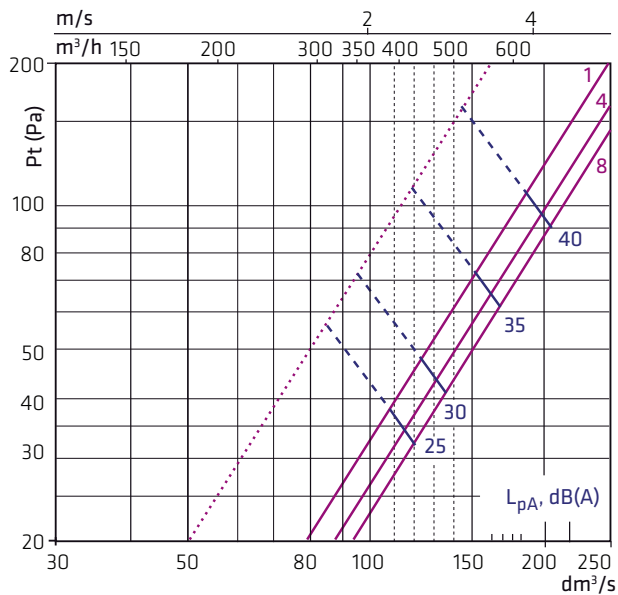
OLOi-250 + PAK-200/250



$L_{w, \text{dB(A)}} = L_{pA, \text{dB(A)}} + K$		f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-250	K, dB	-2	5	6	7	1	-5	-11	-20	
OLOi-250+PAK	K, dB	4	10	7	2	1	-4	-8	-13	

ΔL (dB)		f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-250	ΔL , dB	11	7	1	1	0	1	1	4	
OLOi-250+PAK	K, dB	15	6	6	8	15	14	13	15	

OLOi-315 + PAK-250/315



$L_{w, \text{dB(A)}} = L_{pA, \text{dB(A)}} + K$		f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-315	K, dB	-2	5	5	8	1	6	-11	-18	
OLOi-315+PAK	K, dB	3	11	7	5	2	-4	-9	-16	

ΔL (dB)		f, Hz	63	125	250	500	1k	2k	4k	8k
OLOi-315	ΔL , dB	11	8	1	1	0	1	1	3	
OLOi-315+PAK	ΔL , dB	15	6	6	13	14	13	12	12	

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

Balancing plenum boxes TAK and PAK

The balancing plenum boxes TAK and PAK are an excellent choice for balancing plenum boxes as they fulfil the accuracy class 1 of the type approval requirements ($\pm 5\%$) and feature an accurate measurement of the pressure difference over the adjustment element.

TAK and PAK fulfil the tightness class C requirements at a pressure difference of 1,000 Pa. TAK has an extremely low structural height and is easy to install. PAK, designed for exhaust air, opens easily for superior ease of cleaning, for example in connection with duct sweeping.

The TAK balancing plenum box ensures a constant, silent airflow to supply air diffusers. With TAK and PAK, you can adjust the airflow accurately, exactly to specification and at the same time efficiently dampening the sound from the ducts. The adjustment element can be locked, ensuring that the adjustment position will not change even if the adjustment element is removed, for example when cleaning the ducts.

Materials and surface treatment

TAK and PAK are manufactured from galvanised sheet steel. Their robust construction ensures tightness and secure installation, combined with perfect performance even in difficult locations. Both products are delivered with galvanised steel surface as standard. By special order, TAK and PAK can be painted in any colour in the RAL K1 colour chart, and also with antibacterial paint.



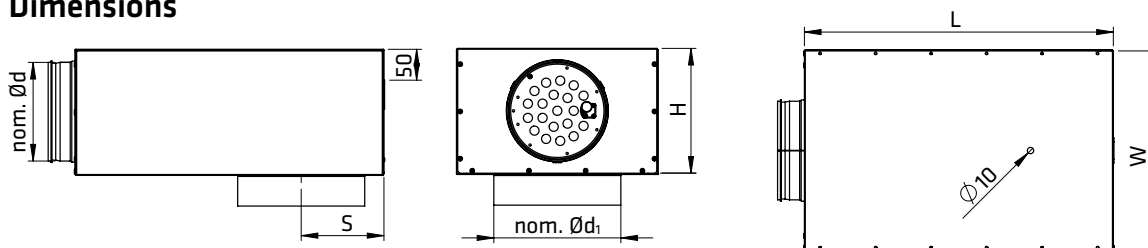
Patented adjustment element

The balancing plenum boxes TAK and PAK are high-quality airflow measurement and adjustment devices with a patented adjustment element. The TAK ensures a constant airflow to supply air diffusers, while slowing down the airflow velocity accurately and silently and dampening the sound from the ducts. The standard dampening material is polyester fibre (Dacron) that does not emit loose fibres or particles. The performance values of the type-approved TAK and PAK have been measured according to standards ISO 5135 and EN 1751, and they meet D2 and E7 requirements.

Why TAK or PAK?

- A good energy efficiency of a ventilation system is achieved through accurate, high-quality components
- Easy installation and adjustment
- Superior ease of cleaning
- Decades of manufacturing experience
- Type approved
- The choice of the professional

Dimensions



	nom. Ød	nom. Ød ₁	L	H	W	S	kg
TAK/PAK-100/125	100	125	440	140	250	92	3,7
TAK/PAK-125/160	125	160	440	165	250	110	4,0
TAK/PAK-160/200	160	200	490	200	320	130	5,3
TAK/PAK-200/250	200	250	560	240	380	155	7,4
TAK/PAK-250/315	250	315	690	290	430	187	10,2

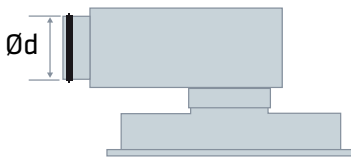
Minimum air volumes at measured pressure difference 15 Pa:

TAK and PAK 100/125	9 l/s
TAK and PAK 125/160	14 l/s
TAK and PAK 160/200	20 l/s
TAK and PAK 200/250	40 l/s
TAK and PAK 250/315	80 l/s

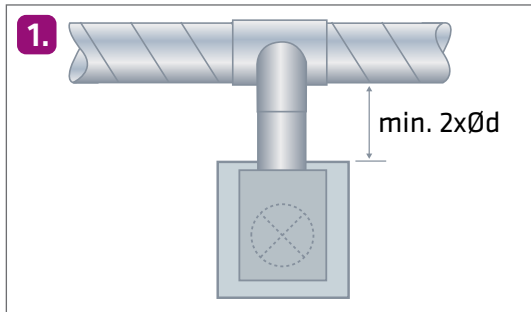
NOTE! The balancing plenum box for exhaust air is PAK. Dimensions the same as TAK.

TAK 100/125
100 = Balancing plenum box duct size
125 = Size of the connected diffuser

Safety distances

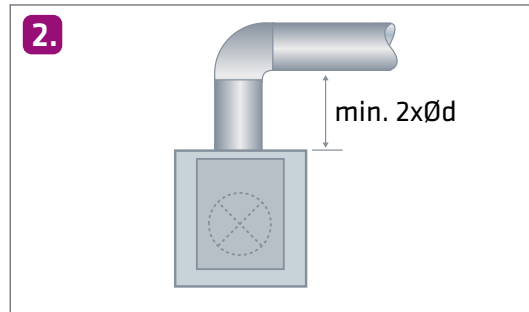


The safety distances has the following effects on the balancing plenum box sound level and airflow measuring accuracy:



1. After T joint

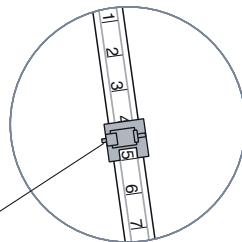
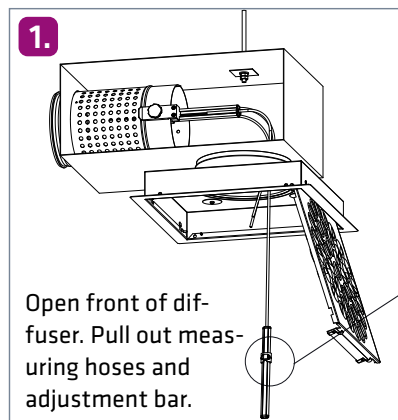
Airflow measuring accuracy class 1 ($\pm 5\%$). The sound level will increase depending on the air-flow velocity and the safety distances, as well as the combined effect of the T joint, balancing plenum box and terminal device, when the balancing plenum box is installed in the branching duct.



2. After bend

Airflow measuring accuracy class 1 ($\pm 5\%$). Sound level increase +4 dB(A).

Easy maintenance



Do not open adjustment lock.

