

Inno



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Inno

PRODUCT DESCRIPTION

Inno is a damper for circular ducts. It is completely made from soft elastic plastic foam with good damping abilities. The damper has a number of oval openings equipped with releasable plugs.

The pressure drop across the damper is adjusted by varying the number of open holes.

Due to the special material and the design of the holes, sound generation will be low even at large pressure drops.

Inno is equipped with a measurement outlet to make adjustment faster.

The stable plastic foam has an open cellular structure and high density, which makes for an extraordinary ability to absorb sound.

Because of this, the damper acts as a simple silencer.

By placing several Inno after one another in a duct, the silencing is increased further.

Sound problems, such as overhearing between rooms, can often be solved.

MATERIAL

Inno-ERE is mainly made from a polyester fiber. This material fulfill SBI-test, pr EN 13823 B-class (B,s1,d0). Inno-ERE contains also a little amounts of the flexible polyurethane foam. The material is flame resistant and conforms FMVSS-302, the fabric flammability standard which is also used in e.g. automotive industry.

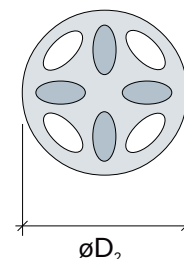
Inno-RP is mainly made from a flexible polyurethane foam.



DIMENSIONS

Size	$\varnothing D_1$	$\varnothing D_2$	S
80	80	82	50
100	100	102	50
125	125	127	50
160	160	162	50
200	200	202	50
250	250	252	75
315	315	318	75

D_1 = diameter of the duct



PRODUCT CODE

Dampers

Inno - 100 - ERE

Size

Material

ERE = Polyester fiber + flexible polyurethane foam

RP=Flexible polyurethane foam

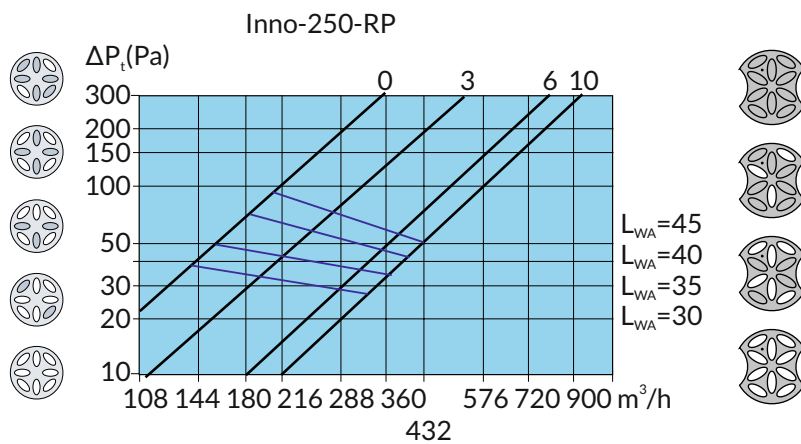
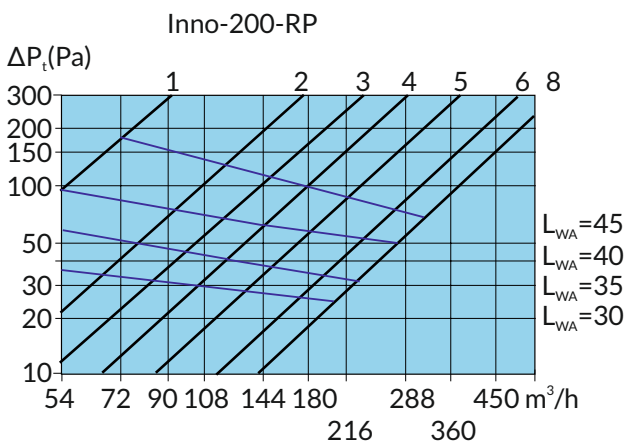
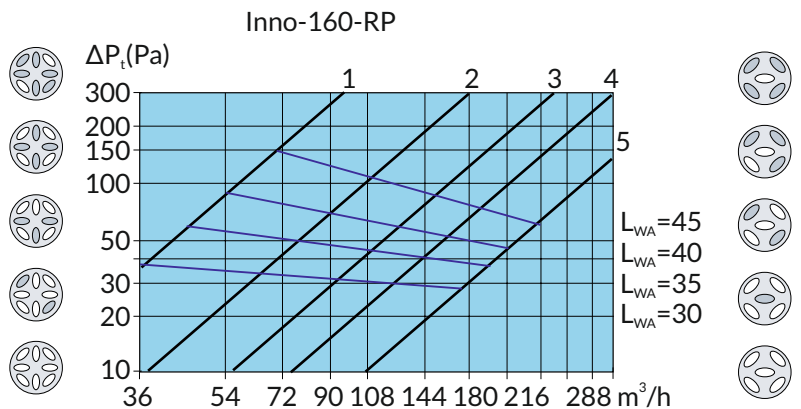
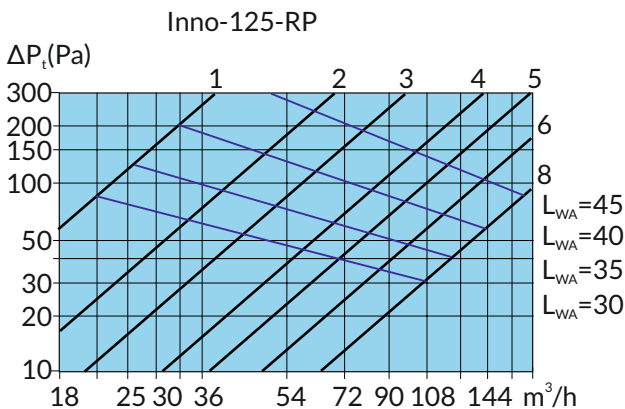
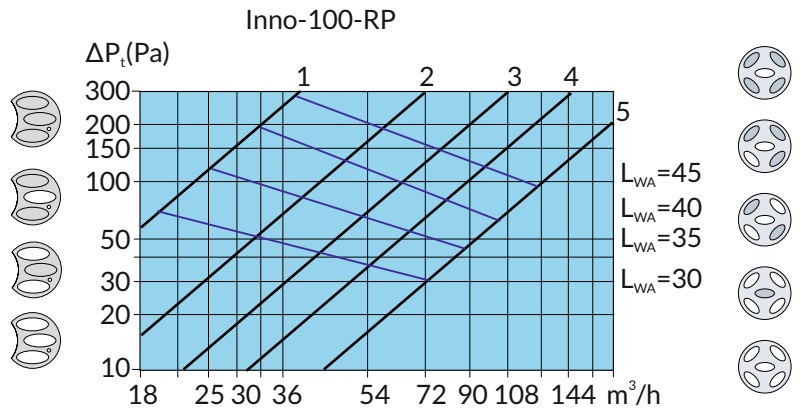
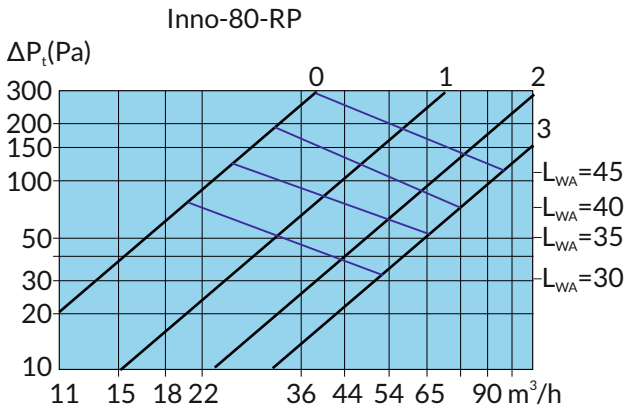
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AIR FLOW RATE & PRESSURE LOSS

L_{WA} = Sound power level in the duct dB(A).

ΔP_t (Pa) = Total pressure loss

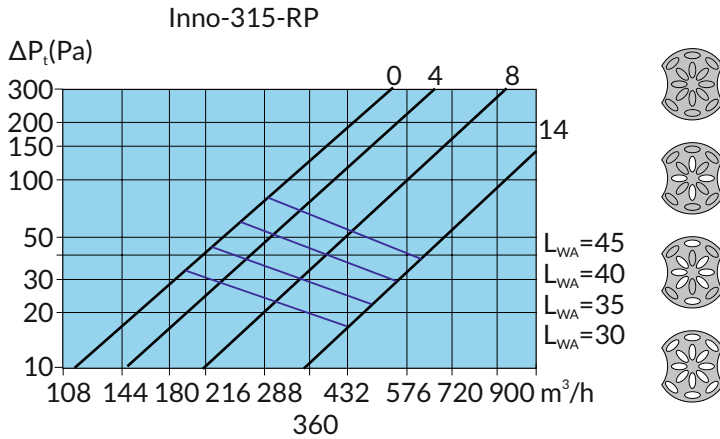
This symbol shows the number of open holes. The curved in the diagram below are keyed with a number. The number shows how many holes are open.



Top ventilation for top chefs

Inno

ACOUSTIC DATA



Sound power level $L_w = L_{WA} + K_w$

Table K_w

Product	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
Inno-80-RP	6	4	3	0	-9	-10	-17	-24
Inno-100-RP	6	4	3	0	-9	-10	-17	-24
Inno-125-RP	4	2	1	0	-8	-10	-18	-24
Inno-160-RP	5	4	3	0	-9	-10	-18	-22
Inno-200-RP	4	2	5	-4	-10	-15	-20	-25
Inno-250-RP	5	4	3	0	-9	-10	-18	-22
Inno-315-RP	4	2	5	-4	-10	-15	-20	-25

SOUND ATTENUATION

The sound attenuation without end reflection.

Number of open holes	Hz							
	63	125	250	500	1000	2000	4000	8000
Inno-80-RP,2	2,5	2	3	4,5	6	9	10	16
Inno-100-RP,3	3	3,5	2,5	5,5	8,5	8,5	15	19
Inno-100-RP,5	1,5	2,5	1,5	3,5	6	6,5	12	17
Inno-125-RP,3	5	6	5	5	12	13	19	21
Inno-125-RP,8	1	1,5	1,5	2,5	6	6	11	18
Inno-160-RP,1	6,5	7	4	9,5	13	16	18	22
Inno-160-RP,5	3	3,5	2,5	5,5	8,5	8,5	15	20
Inno-200-RP,2	4	6,5	2,5	5,5	13	14	18	16
Inno-200-RP,8	2	2	1	1,5	7	7	13	14
Inno-250-RP,3	5	4	3	7	13	18	18	17
Inno-250-RP,10	2	3	1,5	2,5	7,5	11	14	13
Inno-315-RP,4	5	5	3	6	12	15	16	18
Inno-315-RP,14	2	2	1	1,5	7	8	10	13

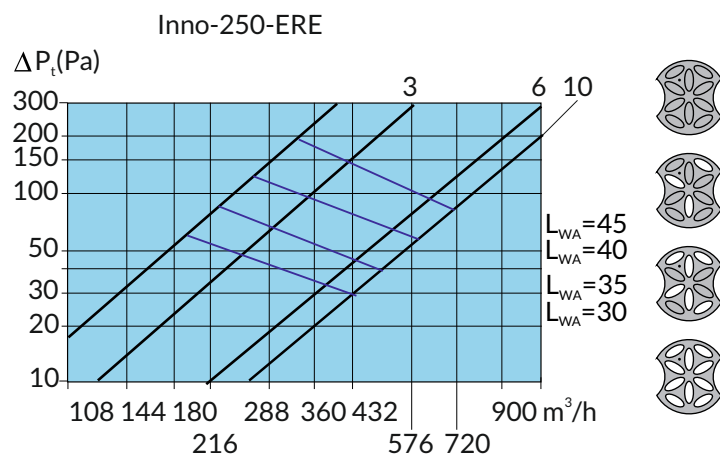
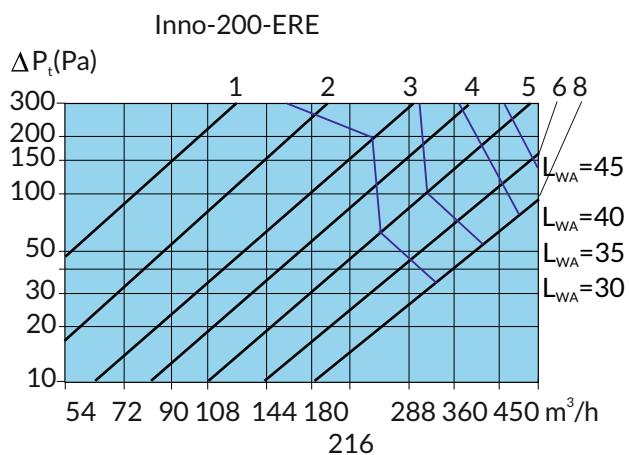
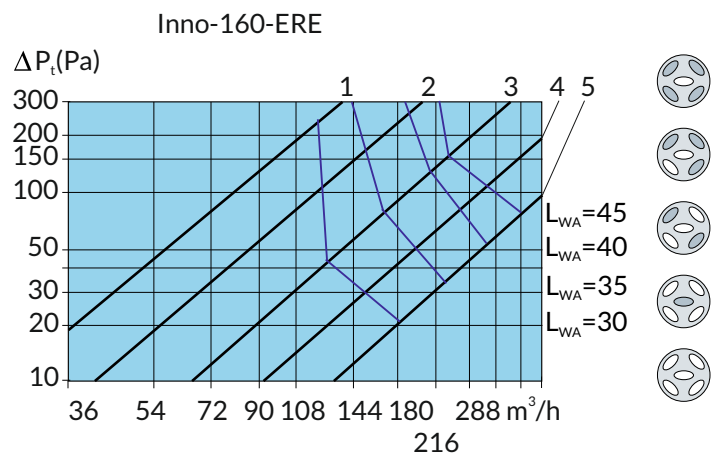
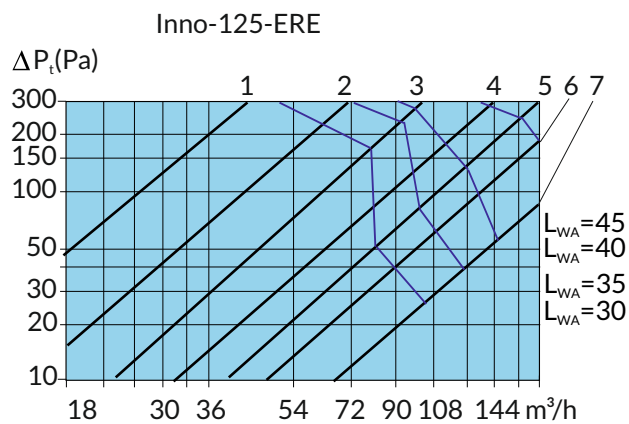
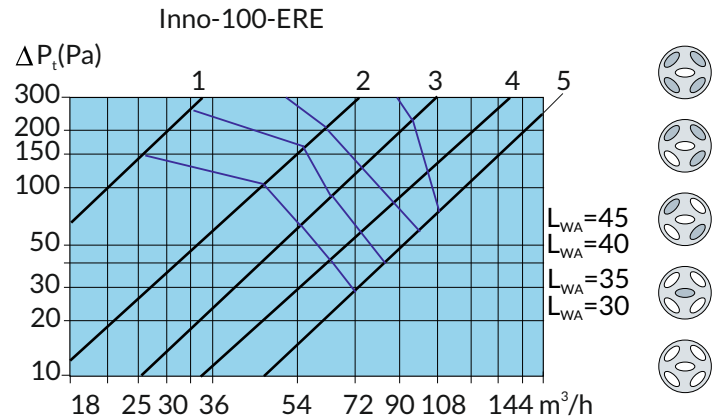
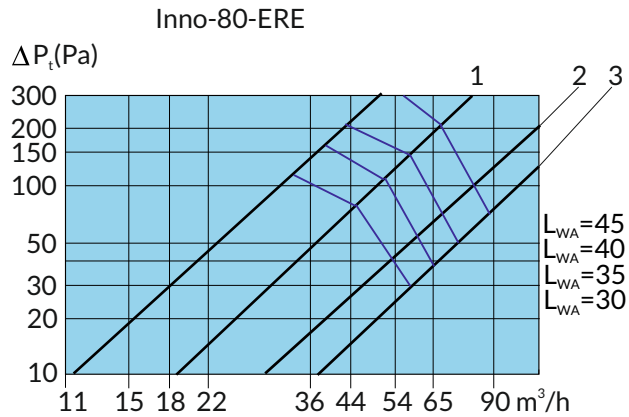
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AIR FLOW RATE & PRESSURE LOSS

L_{WA} = Sound power level in the duct dB(A).

ΔP_t (Pa) = Total pressure loss

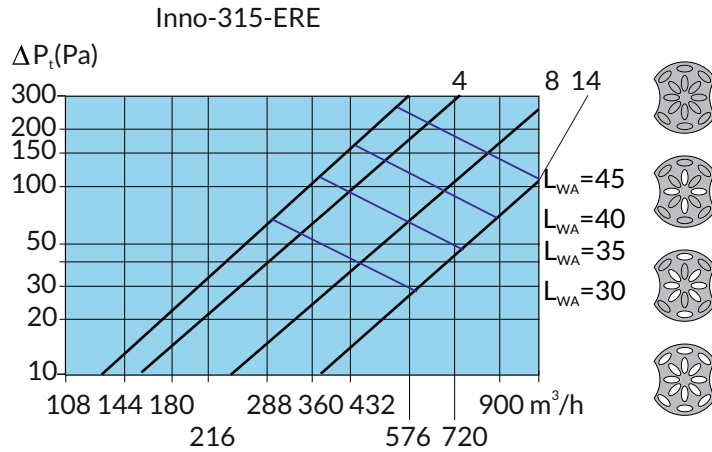
This symbol shows the number of open holes. The curved in the diagram below are keyed with a number. The number shows how many holes are open.



Top ventilation for top chefs

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ACOUSTIC DATA



Sound power level $L_w = L_{WA} + K_w$

Table K_w

Product	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
Inno-80-ERE	8	6	4	-1	-9	-13	-15	-25
Inno-100-ERE	8	6	4	-1	-9	-13	-15	-25
Inno-125-ERE	9	7	5	-2	-7	-11	-18	-23
Inno-160-ERE	9	8	3	-3	-12	-13	-20	-24
Inno-200-ERE	8	8	6	-5	-9	-16	-14	-24
Inno-250-ERE	9	8	3	-3	-6	-13	-20	-24
Inno-315-ERE	8	8	6	-5	-5	-16	-14	-24

SOUND ATTENUATION

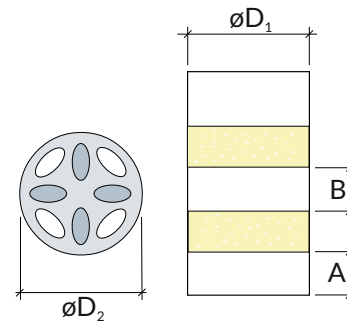
The sound attenuation without end reflection.

Number of open holes	Hz							
	63	125	250	500	1000	2000	4000	8000
Inno-80-ERE,2	0,5	1	2	4,5	6	10	11	13
Inno-100-ERE,3	0	0,5	1	2	3,5	4,5	7	11
Inno-100-ERE,5	0	0	0,5	1	1,5	2,5	4,5	8,5
Inno-125-ERE,3	2	2,5	3	4	5,5	7	11	16
Inno-125-ERE,8	0,5	0,5	0,5	1	1,5	2,5	5	9
Inno-160-ERE,1	2	1,5	2,5	2,5	3,5	4,5	6	7,5
Inno-160-ERE,5	0	0	0,5	1	1,5	2	4	5
Inno-200-ERE,2	2,5	2	2,5	2,5	3,5	5	6,5	7
Inno-200-ERE,8	0,5	0,5	1	1	1,5	3	4	6
Inno-250-ERE,3	3	3	3	5	6	7	9	11
Inno-250-ERE,10	0,5	0,5	1	2,5	3,5	5	7	8
Inno-315-ERE,4	1,5	2	3	4	6	8	9	11
Inno-315-ERE,14	0,5	1	1	2	4	5	7	9

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INSTALLATION

Inno is incredibly easy to install which makes it an ideal choice for use with existing installations. Simply insert Inno in the duct opening from the room side. No tools are needed. The formable damper will seal tightly against the duct wall. Inno can be easily cleaned with a vacuum during duct cleaning.



	A (mm)	B (mm)
Supply air	50-350	50-250
Exhaust air	0-50	50-250

$\varnothing D_1$ = Diameter of the duct

A= Minimum distance between duct opening and the first Inno damper

B= Minimum distance between Inno dampers