PRODUCT CATALOG 2025

Luftuj.eu

Fresh Perspective on Ventilation

About Us

We are **LUFTUJ LtD**, a small family-owned company. For almost 15 years, we have specialized in the installation and sale of ventilation systems with heat recovery. Since 2020, we have been manufacturing our own air duct components under the brand **LUFTooL**. Two years later, we introduced the **LUFTOMET®** designer end elements of ventilation systems to the market.

We offer unique products made of glass, 3D glass, concrete, wood, plastic, plexiglass and hygienic ABS. We focus on quality, reliability, and aesthetics, which are appreciated by architects, designers, and installers alike. We strive for perfect air flow, beautiful product design, high-quality materials, and ease of use.

Luftuj in numbers

10 + European sales partners

15 years of experience in the industry

25 pcs of our own 3D printers

30 + design plates and grilles

100% passion for design and quality

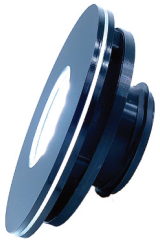
www.luftuj.eu

+420 793 951 281

sales@luftuj.cz

Luftuj LtD, Slatiňany, Czech Republic

LUFTOMET

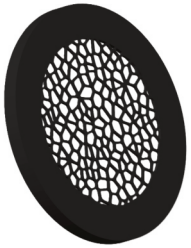


Lumen

ceiling ventilation outlet
- supplies and exhausts air and illuminates

Sky

ceiling ventilation outlet
- supplies and exhausts air



Jet

wall nozzle
- supplies and exhausts air

Flat

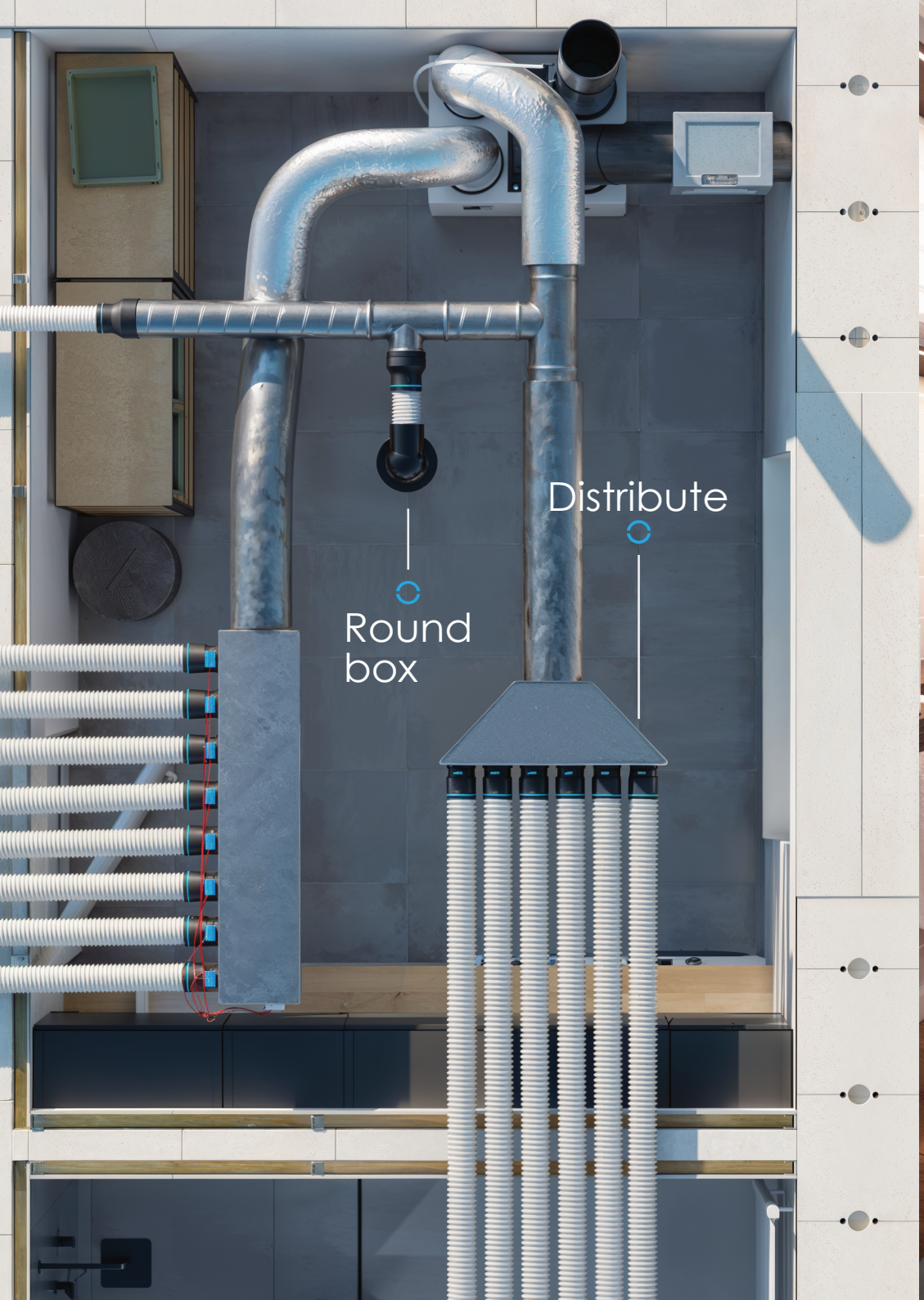
grilles and boxes
- wall and ceiling installation

Wall

outdoor facade cover
- supplies and exhausts air

„They supply and exhaust air and look great"

- Quality craftsmanship and original design in several colour and material options
- Easy installation of plates and grilles thanks to neodymium magnets
- Perfect airflow and tight fit on the duct
- Energy-saving and dimmable LED module at LUFTOMET® Lumen
- Proudly made in cooperation with local craftsmen in the Czech Republic


Round box
Distribute


Damper
Adapter

LUFTOOL

Trap

condensing piece
- removes excess moisture from the ducts

Adapter

plastic pipe transition
for ducting and fittings

Duct

service patches
and unique duct cutter

Distribute

innovative and modular system

„They facilitate installation of ventilation systems."

- Made of solid, flexible and fully recyclable PETG and ABS material
- Appreciated by every service technician and home builder
- Perfect airflow and tight fit
- LUFTooL Trap helps with water condensation in pipes
- Proudly made in the Czech Republic on our own 3D printing farm

LUFTOMET®
Sky

Introducing LUFTOMET® Sky the end elements for residential ventilation systems. Designed for optimal performance, they ensure a supply of fresh air and efficient removal of polluted air within heat recovery ventilation systems. LUFTOMET® Sky air diffusers stand out with their innovative design,premium materials, and exceptional craftsmanship. The mounting frame with neodymium magnets guarantees effortless installation and maintenance.

Our Air Diffusers are:

- great modern home ventilation accessories
- dimensioned for pipes with a diameter of 100, 125 and 160 mm
- equipped with a sealing ring ensuring a high level of tightness for the connection between the diffuser and the duct (achieves tightness class D according to EN 15727) or for connection with plenum box, after removing the sealing ring, it can also be fitted into the fitting (metal 90° Bend, SPIRO duct coupling etc.)
- manufactured in several colour and material design plate options (glass, 3D glass, concrete, wood and plastic)
- suitable for the supply and exhaust of normally polluted air (without chemical substances, etc.)

Singlepack includes:
Design plate, mounting frame, dowels, screws and manual. Packed in a sturdy cardboard box. Package does NOT include deflector.

Mounting frame with sealing ring equipped with 4 neodymium magnets

Design plate equipped with steel counterpart

4x hammering dowels Duo Power - 5 x 25 mm -(suitable for bricks, concrete, plasterboard and other materials)

4x screws for anchoring (countersunk head 3.5x30)

Basic Types:

CONCRETE
ID: SP-LS-C

GLASS
ID: SP-LS-G-Q

3D GLASS
ID: SP-LS-3G-Q

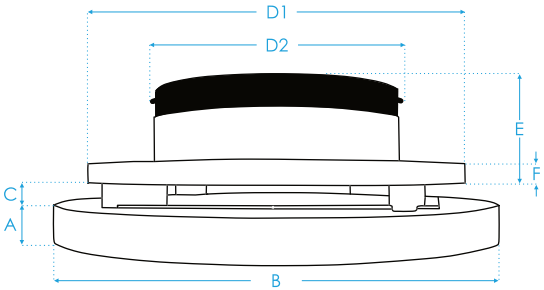
PLASTIC
ID: SP-LS-P

GLASS
ID: SP-LS-G

WOOD
ID: SP-LS-W

Dimensions:

	A		B	C	D1	D2		E	F
Units (mm)	Plastic	3	Circle = 200	13	171	80	71 - 81	43.6	3.6
	Wood	20				100	91 - 101		
	Concrete	5 - 12 (±2)	Square = 200 x 200			125	118 - 128		
	Glass / 3D Glass	4				160	155 - 165		

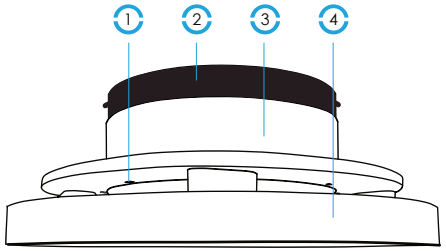


Coding:

SP - LS - M - Q/C - XX - NNN

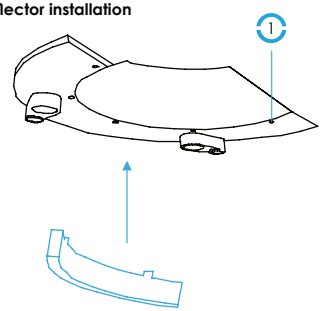
- Dimension: duct connection diameter 80, 100, 125, 160 mm
- Type:
- Shape: Q - Square, C - Circle
- Material:
  - G - Glass:
    - WS - White Shine
    - BS - Black Shine
    - BD - Black Dim
    - WD - White Dim
  - 3G - 3D Glass:
    - W3 - White
    - B3 - Black
  - W - Wood:
    - GB - Grooves Beech
  - C - Concrete:
    - SN - Standard Natural
    - SA - Standard Anthracite
    - SG - Standard Grey
  - P - Plexiglass:
    - BS - Black Shine
    - BD - Black Dim
- LUFTOMET® Sky
- Singlepack

Features and Installation:



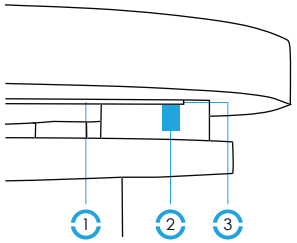
1. 8x deflector hole
2. Sealing ring (removable)
3. Mounting frame
4. Design plate

Deflector installation



1. Holes for deflector

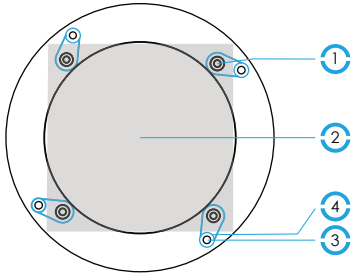
Detail of attaching the plate to the mounting frame



1. Metal sheet
2. Neodymium magnet
3. Positioning collar

If you hear double click the plate is in the right position.

Position of the magnets on the mounting frame and the metal sheet



1. Neodymium magnet
2. Metal sheet
3. 4 x holes for anchoring
4. Rims defining the mutual position of the design plate and mounting frame

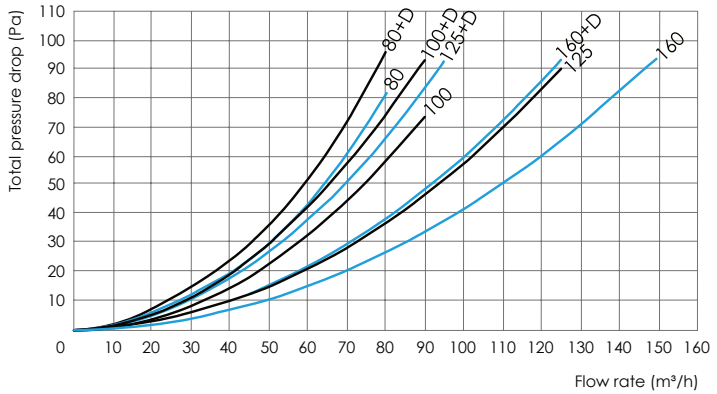
Pressure Drop Values ΔP (Pa):

$P_{tot} = P_{stat} + P_{dyn}$
Values for supply and exhaust air.

Mounting frame mm	Air flow (m³/h)													
	10	20	30	40	50	60	70	80	90	100	110	120	130	150
80	1.2	6.1	12.1	19.6	29.6	43.1	60.5	81.2						
80+D	1.4	7.2	14.7	23.9	35.8	51.5	71.5	95.7						
100	1.0	3.7	8.2	14.5	22.6	32.6	44.4	58.0	73.4					
100+D	1.3	5.0	10.9	19.2	29.7	42.4	57.2	74.1	93.0					
125	0.9	2.8	5.8	9.8	14.9	21.1	28.4	36.8	46.5	57.4	69.5	83.0		
125+D	1.2	5.1	10.5	17.7	26.8	37.8	50.9	66.0	83.2					
160	0.5	1.8	3.9	6.8	10.5	15.1	20.5	26.7	33.7	41.7	50.4	60.1	70.6	94.2
160+D	0.8	2.7	5.8	9.9	15.2	21.7	29.3	38.2	48.2	59.5	71.9	85.7		

Measured according to: EN ISO 12238
Measured for a reference air density of 1,2 kg/m³.

D - one deflector



Sound Power Levels A, LWA (dB):

(values for supply air)

Mounting frame mm	Air flow (m³/h)					
	15	30	45	60	75	90
80	<20	<20	<25	<31		
80+D	<20	<20	<27	<34		
100	<20	<20	<21	<26	<31	
100+D	<20	<20	<24	<29	<35	
125	<20	<20	<21	<25	<29	
125+D	<20	<20	<24	<29	<34	
160	<20	<20	<24	<23	<26	<30
160+D	<20	<20	<21	<25	<29	<34

Measured according to: EN ISO 5135
Background correction according to: EN ISO 3741
Calculation of levels according to: EN ISO 3741

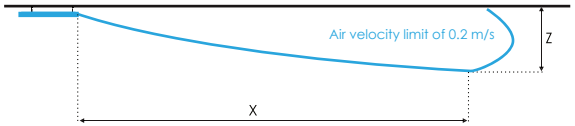
D - one deflector

Throw Length – Terminal Velocity 0.2 m/s (mm)

Mounting frame mm	Air flow (m³/h)											
	15		30		45		60		75		90	
	x	z	x	z	x	z	x	z	x	z	x	z
80	550	43	775	55	717	73	1085	91				
100	442	42	785	68	740	82	1100	98	1380	123		
125	300	25	725	46	1100	70	1070	90	1341	104		
160	225	25	514	45	650	50	800	57	975	80	1243	88

Measured according to: EN ISO 12238
Measured for isothermal airf low ΔT max 2 °C
Measured according to EN 12238 under isothermal conditions.

x, z - specified in mm

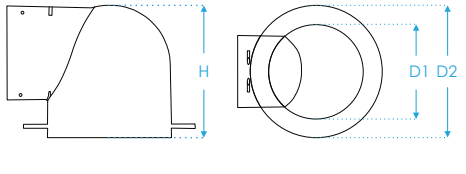


Selection Software:

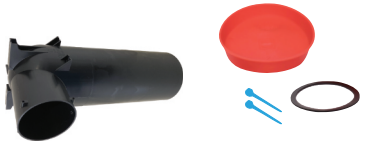
The online software will help with the selection of the plate design.

Accessories:

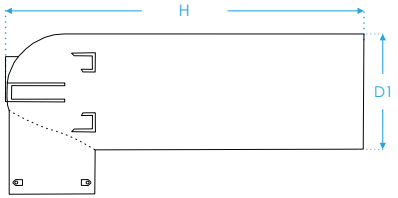
LUFTOMET Round Box
Low-profile
ID: LS-PB-75-125-N... for a 75 mm diameter
LS-PB-90-125-N... for a 90 mm diameter
Suitable for both vertical and horizontal drywall constructions with a minimal installation gap



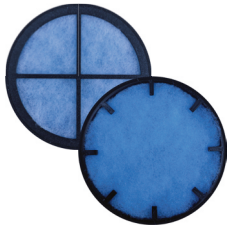
Locking of flexible pipe by inserting pins into the gap between the pipe ribs



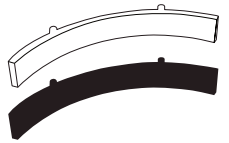
High-profile
ID: LS-PB-90-125-V... for a 90 mm diameter
Suitable for constructions with a higher installation gap or for passage through structures



Size (mm)	D1	D2	H
LS-PB-75-125-N	126	180	123
LS-PB-90-125-N			139
LS-PB-90-125-V		x	403



Filter Ring for Mounting Frame
ID: LP-F-100-G3
LP-F-125-G3



Deflector
ID: LP-D-95-W LP-D-85-W
LP-D-95-B LP-D-85-B

More Visualizations on

Video Instructions

MADE IN CZECH REPUBLIC
LUFTOMET® Sky

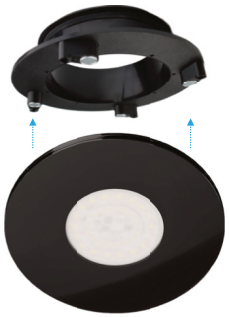
LUFTOMET®
Lumen

LUFTOMET® Lumen are end elements of ventilation systems with integrated LED panel. They are used for the supply of fresh air or exhaust of polluted indoor air in ventilation systems with heat recovery. LUFTOMET® Lumen is the innovative product designed to integrate illumination and ventilation. This cutting-edge solution resolves the collision of these two crucial aspects in any modern space.

Our Air Diffusers are:

- great modern home ventilation accessories
- dimensioned for duct with a diameter of 100, 125 mm
- equipped with a dimmable 12V LED module with power input 7W, 650 lm luminous flux and IP20 protection
- supplied in three colour temperatures (3,000 K, 5,000 K, 6,500 K)
- equipped with a sealing rubber ensuring a high level of tightness for the connection between the diffuser and the duct (achieves tightness class D according to EN 15727) or for connection with plenum box, after removing the sealing ring, it can also be installed into the fitting (metal 90° bend, 45° bend, T piece, duct coupling etc.)
- manufactured in several colour and material design plate options (wood, plexiglass)
- suitable for the supply and exhaust of normally polluted air (without chemical substances, etc.)
- due to the safe 12V power supply, it is suitable for installation in all household rooms
- easy to install and maintain thanks to patented design of 12V power transfer system via neodymium magnets

Singlepack includes:
Design plate with LED module, mounting frame, dowels and screws, manual.
Package does NOT include: deflector, wires and transformer. Packed in a sturdy cardboard box.



Mounting frame with sealing ring equipped with 4 neodymium magnets

Design plate equipped with steel counterpart

4x hammering dowels Duo Power - 5 x 25 mm -(suitable for bricks, concrete, plasterboard and other materials)

4x screws for anchoring (countersunk head 3.5x30)

Basic Types:

ID: LL-P-C-BS-C

ID: LL-P-C-BD-C

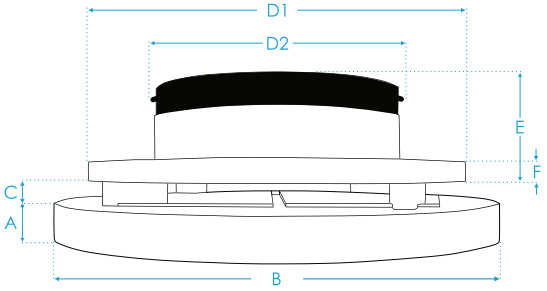
ID: LL-P-C-WS-C

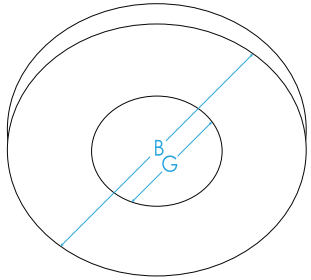
ID: LL-W-C-GB-N

ID: LL-W-C-BS-C

Dimensions:

Units (mm)	A		B	C	D1	D2		E	F	G	
	Plastic	11	200	13	172	100	91 - 101	43.6	9	Plastic	90
	Wood	20				125	118 - 128			Wood	80



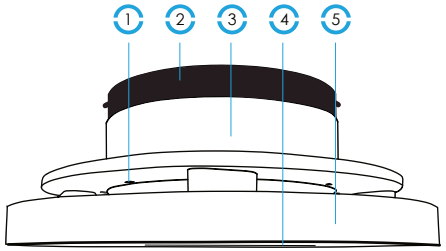


Coding:

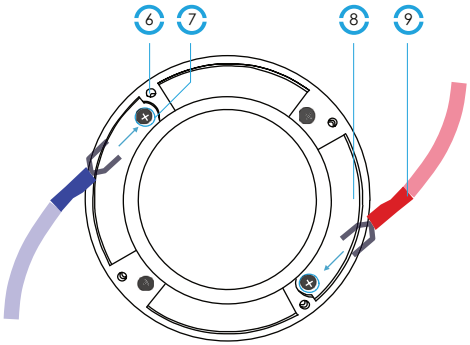
SP - LL - M - C - XX - Y - NNN

- Dimension: duct connection diameter 100, 125 mm
- Colour temperature: C - Cold 6500 K, N - Neutral 5000 K, W - Warm 3000 K
- Type:
  - WS - White Shine
  - BS - Black Shine
  - BD - Black Dim
  - BS - Beech Smooth
  - GB - Grooves Beech
- Shape: C - Circle
- Material: W - Wood, P - Plastic
- LUFTOMET® Lumen
- Singlepack

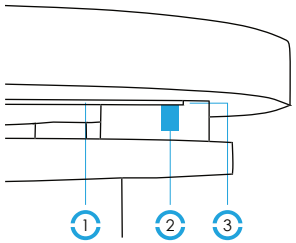
Features and Installation:



1. 8x deflector holes
2. Sealing ring (removable)
3. 3 Mounting frame
4. LED module covered with plexiglass hole size: wood = 80 mm, plastic = 90mm
5. Design plate with LED module
6. 4x holes for anchoring
7. 2x terminal blocks for wires
8. 2x space for wires
9. Wire and fork terminal (not included) Use 12V transformer



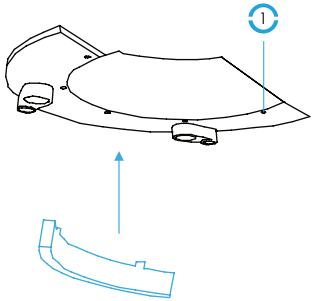
Detail of attaching the plate to the mounting frame



1. Metal sheet
2. Neodymium magnet
3. Positioning collar

2x If you hear double click the plate is in the right position.

Deflector installation



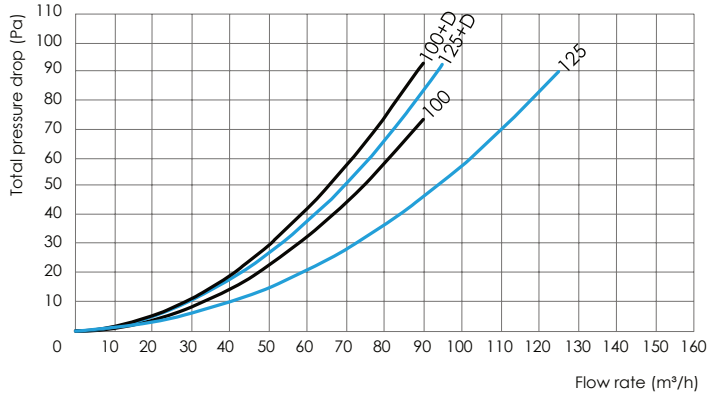
1. Holes for deflector

Pressure Drop Values ΔP (Pa):

$P_{tot} = P_{stat} + P_{dyn}$
Values for supply and exhaust air.

Mounting frame mm	Air flow (m³/h)								
	10	20	30	40	50	60	70	80	90
100	1.0	3.7	8.2	14.5	22.6	32.6	44.4	58.0	73.4
100+D	1.3	5.0	10.9	19.2	29.7	42.4	57.2	74.1	93.0
125	0.9	2.8	5.8	9.8	14.9	21.1	28.4	36.8	46.5
125+D	1.2	5.1	10.5	17.7	26.8	37.8	50.9	66.0	83.2

Measured according to: EN ISO 12238
Measured for a reference air density of 1,2 kg/m³.
D - one deflector



Sound Power Levels A, LWA (dB):

(values for supply air)

Mounting frame mm	Air flow (m³/h)				
	15	30	45	60	75
100	<20	<20	<21	<26	<31
100+D	<20	<20	<24	<29	<35
125	<20	<20	<21	<25	<29
125+D	<20	<20	<24	<29	<34

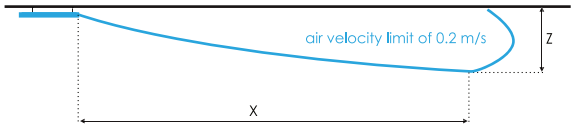
Measured according to: EN ISO 5135
Background correction according to: EN ISO 3741
Calculation of levels according to: EN ISO 3741
D - one deflector

Throw Length – Terminal Velocity 0.2 m/s (mm)

Mounting frame mm	Air flow (m³/h)									
	15		30		45		60		75	
	x	z	x	z	x	z	x	z	x	z
100	442	42	785	68	740	82	1100	98	1380	123
125	300	25	725	46	1100	70	1070	90	1341	104

Measured according to: EN ISO 12238
Measured for isothermal airf low ΔT max 2 °C

x, z - specified in mm



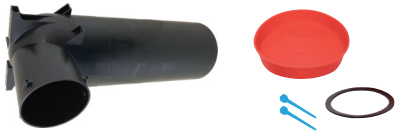
Measured according to EN 12238 under isothermal conditions.

Selection Software:

The online software will help with the selection of the plate design.

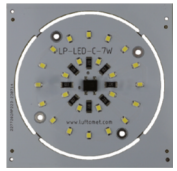
Accessories:

LUFTOMET Round Box
Low-profile
ID: LS-PB-75-125-N... for a 75 mm diameter
LS-PB-90-125-N... for a 90 mm diameter
Suitable for both vertical and horizontal drywall constructions with a minimal installation gap



High-profile
ID: LS-PB-90-125-V... for a 90 mm diameter
Suitable for constructions with a higher installation gap or for passage through structures

Filter Ring for Mounting Frame
ID: LP-F-100-G3
LP-F-125-G3



Spare LED Module Lumen 7W
ID: LP-LED-N-7W
LP-LED-C-7W
LP-LED-W-7W

Deflector
ID: LP-D-85-W
LP-D-85-B

Single Colour Dimmer
ID: LP-DIM

Fork Connector for Lumen Set 2 pcs
ID: LP-VK-2

Transformer 12V for 1-5 pcs or 6-10 pcs
ID: LP-TRA-5
LP-TRA-10

The technical LUFTOMET® Lumen solution is protected by a utility model.
The LUFTOMET® Lumen design is protected by EUPIO-Registered Community Design.

More Visualizations on:

Video instruction SPIRO

Video instruction Box

MADE IN CZECH REPUBLIC
LUFTOMET® Lumen

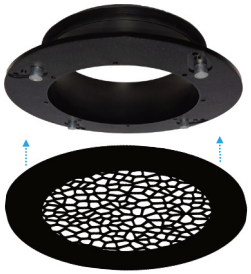
LUFTOMET®
Jet

LUFTOMET® Jet is a range of elegant wall nozzles, specially designed for ventilation with heat recovery in houses and apartments. LUFTOMET® Jet provides supply and, where appropriate, exhaust of air with low pressure drops, excellent throw length and sound power levels. Installation and servicing are easy thanks to a unique attachment system using four neodymium magnets.

Our Nozzles are:

- great modern home ventilation accessories
- dimensioned for pipes with a diameter of 100 and 125 mm
- equipped with a sealing rubber ensuring a high level of tightness for the connection between the diffuser and the duct (achieves tightness class D according to EN 15727) or for connection with plenum box, after removing the sealing ring, it can also be fitted into the fitting (metal 90° Bend, SPIRO duct coupling etc.)
- produced in several color variants and shapes
- suitable for the supply and exhaust of normally polluted air (without chemical substances, etc.)
- made of flame-retardant PETG, ABS

Singlepack includes:
Design nozzle, mounting frame, dowels, screws and manual. Packed in a sturdy cardboard box.



Mounting frame with sealing ring equipped with 4 neodymium magnets

Design nozzle equipped with steel counterpart

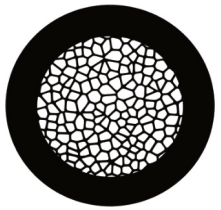
4x hammering dowels Duo Power - 5 x 25 mm -(suitable for bricks, concrete, plasterboard and other materials)

4x screws for anchoring (countersunk head 3.5x30)

Basic Types:

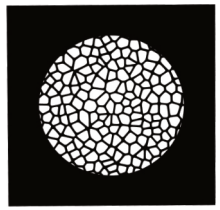
ID: SP-LJ-P-C-2U-B

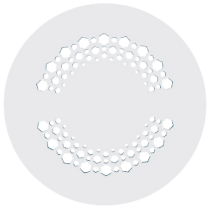
ID: SP-LJ-P-C-V-B



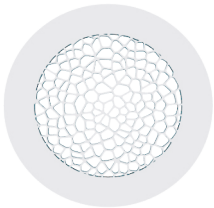
ID: SP-LJ-P-H-V-B

ID: SP-LJ-P-Q-V-B





ID: SP-LJ-P-C-2U-W



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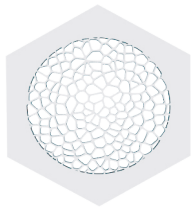

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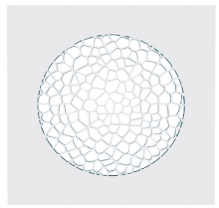


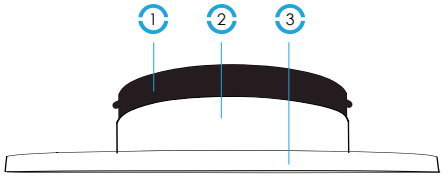
ID: SP-LJ-P-Q-V-W

Coding:

SP - LJ - P - Q/C/H - X - Y - NNN

- Dimension: duct connection diameter 100, 125 mm
- Color: B - Black, W - White
- Type: V - voronoi, 2U
- Shape: Q - Square, C - Circle, H - Hexagon
- Material: P - plastic
- LUFTOMET® Jet
- Singlepack

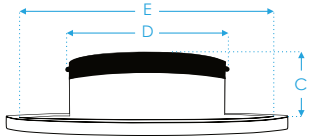
Features and Installation:

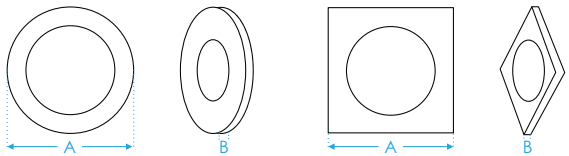


1. Sealing ring (removable)
2. Mounting frame
3. Design nozzle

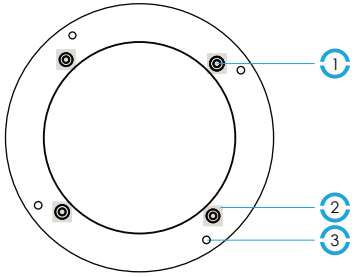
Dimensions:

Units (mm)	A		B	C	D	E
	Circle	175	12	51	100 = 91 - 101	171
	Square	176			125 = 118 -128	
	Hexagon	202				





Position of the magnets on the mounting frame and the metal sheet



1. 4x neodymium magnet
2. 4x metal sheet
3. 4x anchoring hole

Pressure Drop Values ΔP (Pa):

$P_{tot} = P_{stat} + P_{dyn}$
Values for supply and exhaust air.

Mounting frame (mm)	Units (mm)	Air flow (m³/h)															
		10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Voronoi	100	1.0	2.1	3.7	5.7	8.2	11.1	14.5	18.3	22.6	27.4	32.6	38.3	44.4	51.0	58.0
Voronoi	125	0.9	1.7	2.8	4.2	5.8	7.7	9.8	12.2	14.9	17.8	21.1	24.6	28.4	32.4	36.8
2U	100	1.3	2.9	5.0	7.7	10.9	14.8	19.2	24.1	29.7	35.8	42.4	49.5	57.2	65.4	74.1
2U	125	1.2	3.1	5.1	7.6	10.5	13.8	17.7	22.0	26.8	32.1	37.8	44.1	50.9	58.2	66.0

Measured according to: EN ISO 12238
Measured for a reference air density of 1,2 kg/m³.

Sound Power Levels A, LWA (dB):

(values for supply air)

Type	Units (mm)	Air flow (m³/h)				
		15	30	45	60	75
Voronoi	100	<20	<20	<23	<28	<31
Voronoi	125	<20	<20	<22	<27	<29
2U	100	<20	<21	<25	<30	<36
2U	125	<20	<20	<24	<29	<34

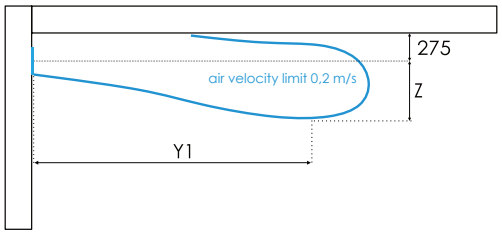
Measured according to: EN ISO 5135
Background correction according to: EN ISO 3741
Calculation of levels according to: EN ISO 3741

Throw Length – Terminal Velocity 0.2 m/s (mm)

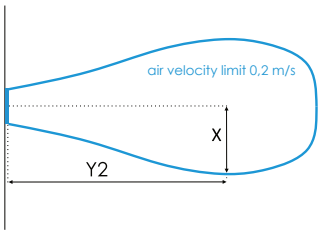
	Type (m³/h)	mm	Voronoi 100	Voronoi 125	2U 100	2U 125
Flow rate	15	Z	370	320	25	50
		Y1	1050	900	560	550
		X	150	175	445	430
		Y2	1250	1290	1325	1250
	30	Z	450	480	25	75
		Y1	2080	1950	950	1020
		X	150	180	485	475
		Y2	1600	1480	1590	1480
	45	Z	580	650	25	80
		Y1	3750	3600	1850	2300
		X	180	195	580	530
		Y2	1850	1650	2180	1990
	60	Z	725	675	25	90
		Y1	4350	4380	3000	3150
		X	200	215	650	580
		Y2	2000	2100	2750	2690
	75	Z	780	675	65	105
		Y1	4550	4420	3250	3300
		X	225	230	690	670
		Y2	2320	2445	3060	2920

Measured according to: EN ISO 12238
Measured for isothermal airf low ΔT max 2 °C

Jet
Side view



Jet
Top view

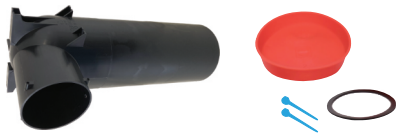


Installation Examples:

Accessories:

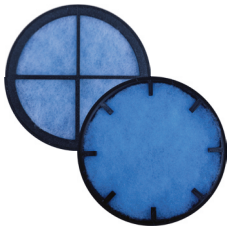
LUFTOMET Round Box
Low-profile

ID: LS-PB-75-125-N... for a 75 mm diameter
LS-PB-90-125-N... for a 90 mm diameter
Suitable for both vertical and horizontal drywall constructions with a minimal installation gap



High-profile

ID: LS-PB-90-125-V... for a 90 mm diameter
Suitable for constructions with a higher installation gap or for passage through structures



Filter Ring for Mounting Frame

ID: LP-F-100-G3
LP-F-125-G3

Air volume controller PF with noise dampening effect

ID: LP-R-100
LP-R-125
LP-R-160

MADE IN CZECH REPUBLIC
LUFTOMET® Jet

LUFTOMET®
Flat

Products under the LUFTOMET® Flat name offer a comprehensive system of compatible components – plenum boxes and grilles. The Flat system is designed to solve ventilation needs primarily in wooden buildings and the renovation of family houses and apartments. It is ideal for situations where minimal spatial requirements for the ventilation distribution are essential. Additionally, LUFTOMET® Flat grilles provide an excellent aesthetic solution.

Our Flat Grilles are:

- elegant aesthetic solutions for air supply and exhaust
- suitable for wall and ceiling installation
- in rectangular shape with an external dimension of 232 x 132 mm
- fully compatible with all types of LUFTOMET® Flat Plenum Boxes and extension pieces
- supplied with a mounting frame with neodymium magnets
- available in a wide range of colours and shapes
- for the Hexagon variant - possibility to regulate the air flow rate and throw lengths
- made of flame-retardant PETG

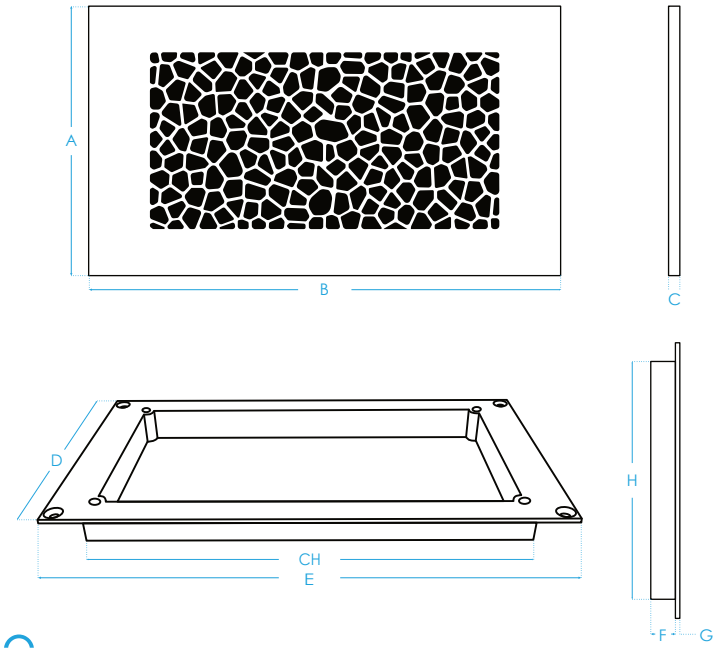
Package includes:
Grille with frame (inset). Hexagon type includes 25 x insertion modules for flow and range control.
Packed in bubble wrap.

Coding:

LF - P - R - XXX - YY

- Type and mounting frame colour: B - Black
- Type and grille colour:
  - W - White
  - B - Black
  - M - Marble
  - HWB - White and Black
  - HBW - Black and White
  - HBB - Black and Blue
- Shape: R - Rectangle
- Material: P - Plastic
- LUFTOMET® Flat

Grille and Mounting Frame Dimensions:

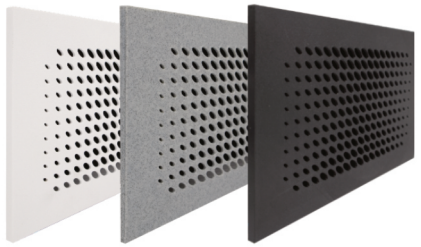


Size (mm)	
A	132
B	232
C	5,6
D	125
E	225
F	15
G	2
H	107
CH	196

Basic Types:

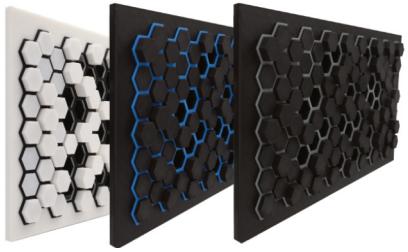
DROPLETS - DX

ID: LF-P-R-DW-PB
LF-P-R-DM-PB
LF-P-R-DB-PB



HEXAGON - HXX

ID: LF-P-R-HWB-PB
LF-P-R-HBB-PB
LF-P-R-HBW-PB

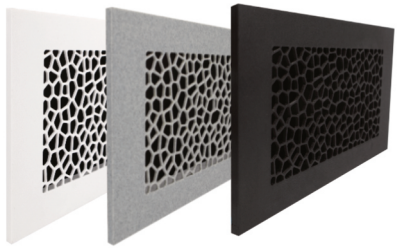


STITCHES - SX

ID: LF-P-R-SW-PB
LF-P-R-SM-PB
LF-P-R-SB-PB

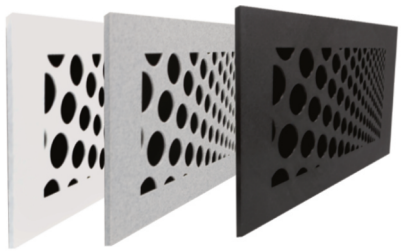
VORONOI - VX

ID: LF-P-R-VW-PB
LF-P-R-VM-PB
LF-P-R-VB-PB



BUBBLES - BX

ID: LF-P-R-BW-PB
LF-P-R-BM-PB
LF-P-R-BB-PB



MADE IN CZECH REPUBLIC
LUFTOMET® Flat Grilles

Our Flat Plenum Boxes are:

- sized for flexible plastic pipes with a diameter of 75 and 90 mm and metal ducting SPIRO 100 mm
- manufactured in 15 basic variants, where it is possible to choose whether the spigot contains a control damper or not
- sized to be easily installed in plasterboard, drywall, partitions or bulkhead, boxes or false ceiling
- thanks to the extension pieces, it can also be used in masonry constructions
- equipped with sealing rings to ensure a high tightness of the connection between the plenum box and the duct
- suitable for the supply and exhaust of normally polluted air (without chemical substances, etc.)
- compatible with all types of LUFTOMET® Flat Grilles
- made of hygienic ABS

Package includes:
Box with spigot with or without a control damper. The package for the 75 and 90 mm dimensions includes a sealing and a locking ring. For the 100 mm size, the sealing ring is fitted on the spigot. Supplied without anchoring accessories. Packed in stretch film.

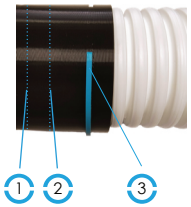
Coding:

LF - PB - V - H1 - XX - YY

- XX: Regulation: RM - manual control damper, RA - automatic control damper, 0 - no damper
- YY: Diameter of connection: 75, 90, 100 mm
- H1: Heigh: H1 = low profile, H2 = high profile
- V: Box Type: V - Vertical, H - Horizontal, D - Direct
- PB: Plenum Box
- LF: LUFTOMET® Flat

Duct Connection:

FLEXIBLE PLASTIC PIPES:
Ø 75 mm
Ø 90 mm



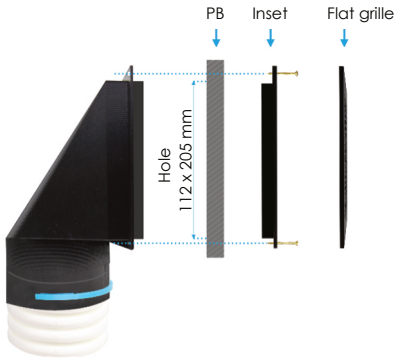
1. Pipe stop
2. Sealing ring between the 1st and 2nd rib of the pipe
3. Locking ring

SPIRAL WOUND METAL DUCT:
Ø 100 mm

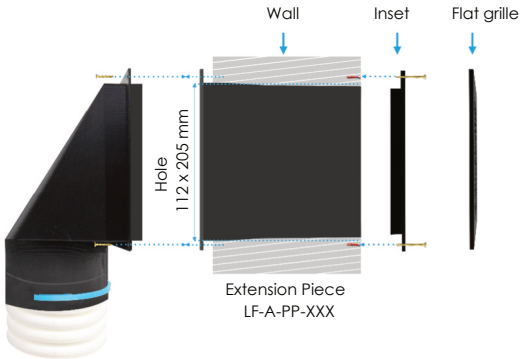
Sealing ring on the spigot

Examples of Grille Installation:

Plasterboard



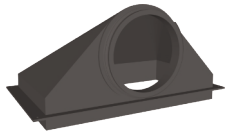
Wall



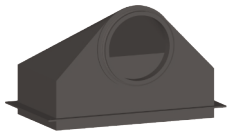
Basic Types:

VERTICAL

LF-PB-V-H1



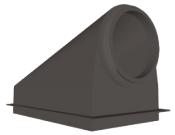
LF-PB-V-H2



HORIZONTAL

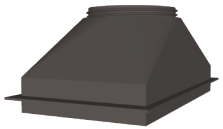
LF-PB-H-H1

LF-PB-H-H2



DIRECT

LF-PB-D-H1

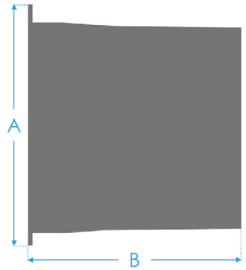


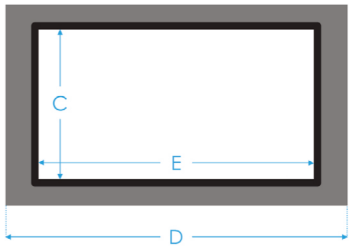
LUFTOMET® Flat Extension Piece

It is used to extend LUFTOMET® Flat. plenum boxes. It is mainly used in cases of passage through masonry constructions. The extension piece is made of galvanized steel.

Installation:
On one side of the wall, the box is connected to the extension piece with screws. The hole in the wall must be filled with lowexpansion mounting foam to prevent deformation. The mounting frame and the Flat grille are then inserted into the extension piece.

Package includes:
Extension piece, 4x dowels, 4x anchor screw, 4x self-tapping screw.
The extension piece is NOT included in the delivery of LUFTOMET® Flat plenum boxes and grilles.

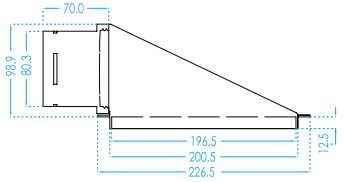
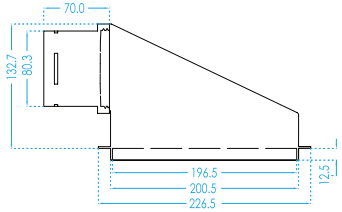
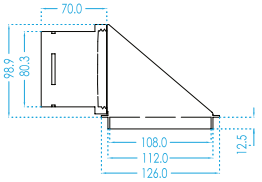
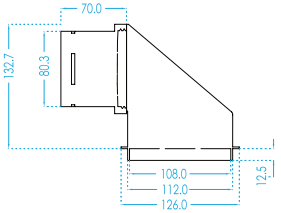
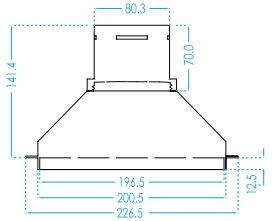
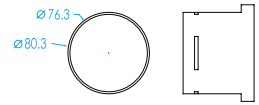
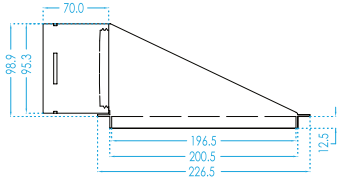
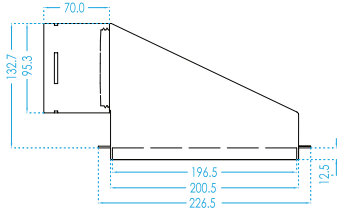
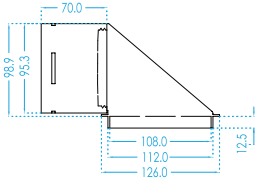
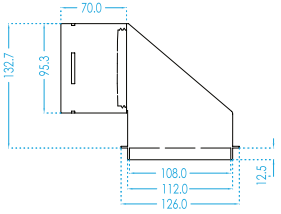
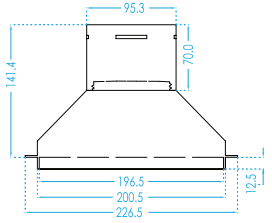
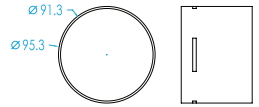
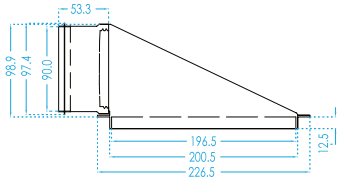
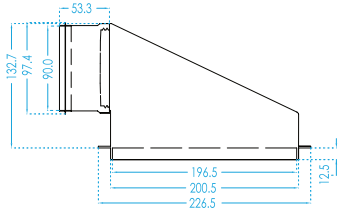
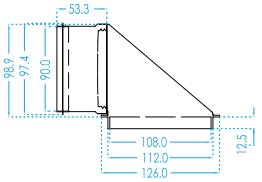
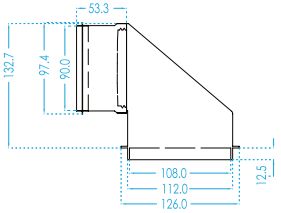
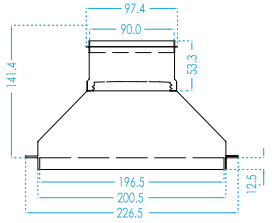
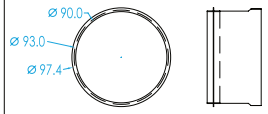
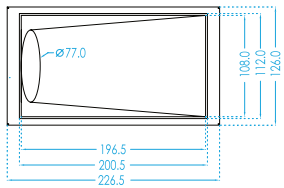
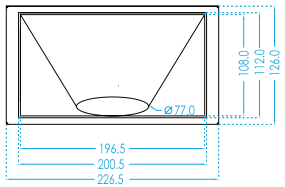
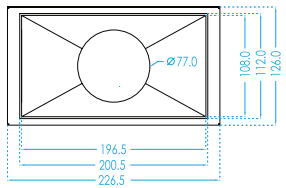




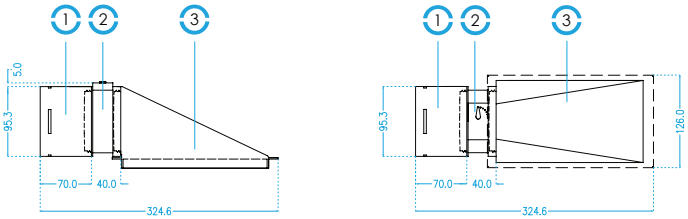
ID: LF-A-PP-100
LF-A-PP-150
LF-A-PP-200

	LF-A-PP	A	B	C	D	E
Units (mm)	100	154	123	108	245	197
	150	154	173	108	245	197
	200	154	223	108	245	197

Dimensions:

Box type/ connection	Horizontal - H1	Horizontal - H2	Vertical - H1	Vertical - H2	Direct	Connecting Spigots
75 mm						
90 mm						
100 mm						
View into the box						

Example of installation of manually adjustable damper on the LUFTOMET® Flat box

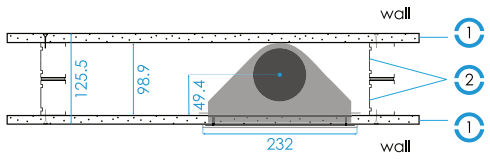


1 spigot
2 damper
3 box

MADE IN CZECH REPUBLIC
LUFTOMET® Flat Box

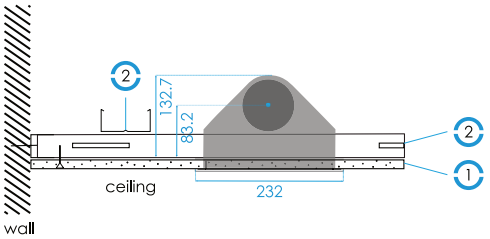
Construction Details:

Installation in partition or bulkhead
LF-PB-V-H1 / floor plan



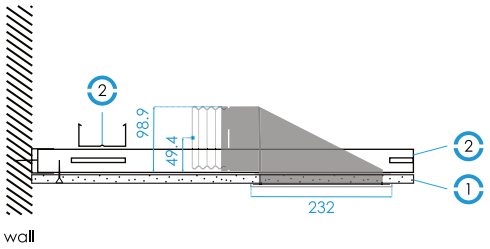
1. plasterboard 12,5 mm
2. profile CW 50 mm

Ceiling installation, above profile installation
LF-PB-V-H2 / section view



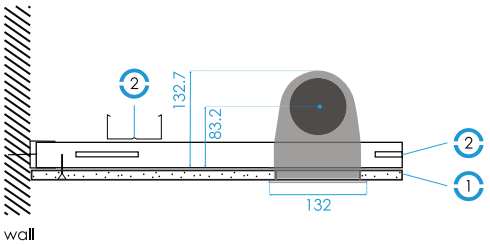
1. plasterboard 12,5 mm
2. profile R-CD 27 mm

Ceiling installation, installation between profiles
LF-PB-H-H1 / section view



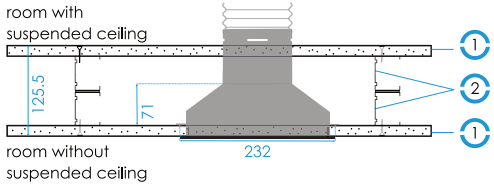
1. plasterboard 12,5 mm
2. profile R-CD 27 mm

Ceiling installation, above profile installation
LF-PB-H-H2 / section view



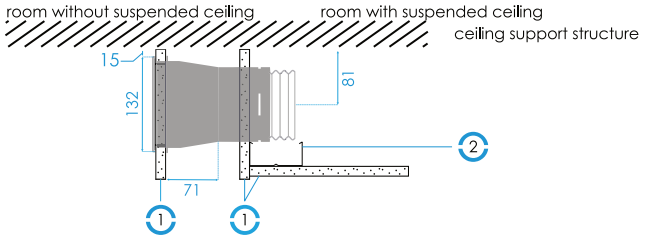
1. plasterboard 12,5 mm
2. profile R-CD 27 mm

Installation in partition or bulkhead
LF-PB-D-H1 / floor plan



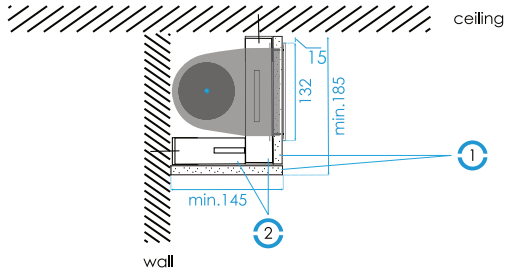
1. plasterboard 12,5 mm
2. profile CW 50 mm

Installation in partition or bulkhead
LF-PB-D-H1 / section view



1. plasterboard 12,5 mm
2. profile CW 50 mm

Installation in the box (false beam)
LF-PB-H-H2 / section view



1. plasterboard 12,5 mm
2. profile CW 50 mm

Sound Power Levels A, LWA (dB):

(values for supply air)

Type	Size	Variant	Air flow (m³/h)						
			15	30	45	60	75	90	105
Grilles FLAT	100	Voronoi	<20	<20	<20	<20	<23	<26	<30
		Hexagon 1	<20	<20	<20	<20	<23	<27	<31
		Hexagon 2	<20	<20	<20	<21	<25	<31	<35
		Droplets	<20	<20	<20	<21	<24	<28	<33

Measured according to: EN ISO 5135
Background correction according to: EN ISO 3741
Calculation of levels according to: EN ISO 3741

MADE IN CZECH REPUBLIC
Construction details:

LUFTOMET Sky Lumen Jet **Flat** Wall

Pressure Drop Values ΔP (Pa) Box + Grille:

$P_{tot} = P_{stat} + P_{dyn}$ Values for supply and exhaust air.

LUFTOMET® Flat		Air flow (m³/h)														
Boxes	Grilles	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Vertical 75	Voronoi	0.8	1.9	3.7	6.3	9.6	13.5	18.2	23.6	29.7	36.5	44.0	52.1	61.0	70.6	81.0
	Hexagon 1	0.9	2.1	4.1	6.8	10.1	14.2	19.0	24.5	30.8	37.7	45.4	53.8	62.9	72.7	83.2
	Hexagon 2	1.3	3.4	6.3	10.3	15.2	21.1	28.0	35.9	44.8	54.8	65.8	77.8	91.0	105.2	120.6
	Droplets	1.6	3.0	5.1	7.8	11.2	15.4	20.4	26.3	33.3	41.2	50.4	60.7	72.4	85.4	99.8
	Stitches	1.5	3.0	5.0	7.6	10.9	14.9	19.8	25.5	32.2	40.0	48.9	58.9	70.2	82.9	97.0
	Bubbles	1.6	3.0	5.1	7.9	11.3	15.5	20.6	26.6	33.6	41.6	50.8	61.3	73.0	86.1	100.7
Vertical 90	Voronoi	0.8	1.9	3.6	6.0	9.0	12.7	17.1	22.2	28.0	34.6	41.9	50.0	58.8	68.5	79.1
	Hexagon 1	0.9	2.1	3.9	6.4	9.6	13.4	17.9	23.1	29.0	35.7	43.2	51.5	60.6	70.5	81.3
	Hexagon 2	1.3	3.3	6.1	9.8	14.4	19.9	26.3	33.8	42.3	51.9	62.7	74.6	87.7	102.1	117.8
	Droplets	1.6	3.0	4.9	7.4	10.6	14.5	19.2	24.8	31.4	39.1	48.0	58.2	69.8	82.8	97.5
	Stitches	1.6	2.9	4.8	7.2	10.3	14.0	18.6	24.0	30.4	37.9	46.5	56.5	67.7	80.4	94.7
	Bubbles	1.6	3.0	5.0	7.5	10.7	14.6	19.3	25.0	31.7	39.5	48.4	58.7	70.4	83.5	98.3
Vertical 100	Voronoi	0.6	1.5	3.0	5.2	8.1	11.6	15.7	20.4	25.8	31.7	38.1	45.2	52.7	60.8	69.4
	Hexagon 1	0.7	1.7	3.3	5.6	8.6	12.2	16.4	21.3	26.7	32.7	39.4	46.6	54.3	62.6	71.4
	Hexagon 2	1.1	2.6	5.1	8.6	12.9	18.1	24.1	31.1	38.9	47.6	57.1	67.4	78.6	90.6	103.4
	Droplets	1.2	2.4	4.1	6.5	9.5	13.2	17.6	22.8	28.9	35.8	43.7	52.6	62.5	73.5	85.6
	Stitches	1.2	2.3	4.0	6.3	9.2	12.8	17.0	22.1	28.0	34.7	42.4	51.0	60.7	71.4	83.2
	Bubbles	1.2	2.4	4.2	6.5	9.5	13.3	17.7	23.0	29.1	36.1	44.1	53.1	63.1	74.1	86.4
Horizontal 75	Voronoi	0.7	2.0	4.1	7.0	10.5	14.8	19.8	25.5	31.9	39.1	47.0	55.6	64.9	75.0	85.8
	Hexagon 1	0.8	2.3	4.5	7.5	11.2	15.6	20.7	26.5	33.1	40.4	48.5	57.3	66.8	77.2	88.2
	Hexagon 2	1.2	3.6	7.0	11.4	16.7	23.1	30.4	38.8	48.2	58.7	70.3	83.0	96.8	111.7	127.8
	Droplets	1.4	3.3	5.6	8.6	12.3	16.8	22.2	28.5	35.8	44.2	53.8	64.7	77.0	90.6	105.8
	Stitches	1.3	3.2	5.5	8.4	12.0	16.3	21.5	27.6	34.7	42.9	52.2	62.8	74.7	88.0	102.8
	Bubbles	1.4	3.3	5.7	8.7	12.4	17.0	22.4	28.7	36.1	44.6	54.3	65.3	77.6	91.4	106.7
Horizontal 90	Voronoi	0.9	2.2	4.1	6.7	9.8	13.5	17.9	22.9	28.5	34.8	41.8	49.5	58.0	67.3	77.3
	Hexagon 1	1.0	2.5	4.5	7.2	10.4	14.2	18.7	23.8	29.5	36.0	43.2	51.1	59.7	69.2	79.5
	Hexagon 2	1.5	3.9	7.1	10.9	15.6	21.1	27.5	34.8	43.0	52.3	62.6	74.0	86.5	100.2	115.1
	Droplets	1.8	3.5	5.7	8.3	11.5	15.4	20.0	25.5	31.9	39.4	47.9	57.7	68.8	81.3	95.3
	Stitches	1.8	3.5	5.5	8.1	11.2	14.9	19.4	24.7	30.9	38.2	46.5	56.0	66.8	78.9	92.6
	Bubbles	1.8	3.5	5.7	8.4	11.6	15.5	20.2	25.7	32.2	39.7	48.4	58.2	69.4	82.0	96.1

LUFTOMET® Flat		Air flow (m³/h)														
Boxes	Grilles	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Horizontal 100	Voronoi	0.7	1.5	3.0	5.1	7.8	11.1	15.1	19.6	24.6	30.3	36.6	43.4	50.9	58.9	67.5
	Hexagon 1	0.8	1.7	3.3	5.5	8.3	11.7	15.7	20.3	25.6	31.4	37.8	44.8	52.4	60.6	69.4
	Hexagon 2	1.1	2.7	5.1	8.4	12.5	17.4	23.1	29.7	37.2	45.5	54.8	64.8	75.8	87.7	100.5
	Droplets	1.3	2.5	4.1	6.4	9.2	12.7	16.9	21.8	27.6	34.3	41.9	50.6	60.3	71.1	83.2
	Stitches	1.3	2.4	4.0	6.2	8.9	12.3	16.3	21.2	26.8	33.3	40.7	49.1	58.5	69.1	80.8
	Bubbles	1.3	2.5	4.2	6.4	9.3	12.8	17.0	22.0	27.9	34.6	42.3	51.0	60.8	71.8	83.9
Direct 75	Voronoi	0.7	2.0	3.9	6.6	9.9	13.9	18.5	23.9	30.0	36.7	44.2	52.4	61.4	71.0	81.4
	Hexagon 1	0.8	2.2	4.3	7.0	10.5	14.6	19.4	24.9	31.1	38.0	45.6	54.0	63.2	73.1	83.7
	Hexagon 2	1.2	3.5	6.7	10.7	15.7	21.6	28.5	36.4	45.2	55.2	66.2	78.2	91.4	105.8	121.3
	Droplets	1.4	3.2	5.3	8.1	11.6	15.7	20.8	26.7	33.6	41.6	50.7	61.0	72.7	85.8	100.4
	Stitches	1.4	3.1	5.2	7.9	11.2	15.3	20.1	25.9	32.6	40.3	49.2	59.2	70.6	83.4	97.6
	Bubbles	1.4	3.2	5.4	8.2	11.7	15.9	20.9	26.9	33.9	41.9	51.1	61.6	73.4	86.6	101.3
Direct 90	Voronoi	0.6	1.5	3.3	5.7	8.9	12.9	17.5	22.8	28.8	35.4	42.7	50.6	59.1	68.1	77.7
	Hexagon 1	0.7	1.7	3.6	6.1	9.5	13.5	18.3	23.7	29.9	36.6	44.1	52.1	60.8	70.1	79.9
	Hexagon 2	1.0	2.7	5.5	9.4	14.2	20.0	26.9	34.7	43.5	53.2	63.9	75.5	88.0	101.4	115.8
	Droplets	1.1	2.5	4.4	7.1	10.5	14.6	19.6	25.5	32.3	40.1	48.9	58.9	70.0	82.3	95.8
	Stitches	1.1	2.4	4.3	6.9	10.2	14.2	19.0	24.7	31.3	38.9	47.5	57.1	68.0	79.9	93.1
	Bubbles	1.1	2.5	4.5	7.1	10.5	14.7	19.8	25.7	32.6	40.4	49.4	59.4	70.6	83.0	96.6
Direct 100	Voronoi	0.5	1.3	2.8	4.8	7.4	10.6	14.3	18.7	23.6	29.0	35.0	41.6	48.7	56.4	64.7
	Hexagon 1	0.5	1.5	3.0	5.2	7.9	11.1	15.0	19.4	24.4	30.0	36.2	42.9	50.2	58.1	66.5
	Hexagon 2	0.8	2.4	4.7	7.9	11.8	16.5	22.0	28.4	35.6	43.6	52.4	62.1	72.7	84.1	96.3
	Droplets	0.9	2.1	3.8	5.9	8.7	12.0	16.1	20.8	26.4	32.8	40.2	48.5	57.8	68.2	79.7
	Stitches	0.9	2.1	3.7	5.8	8.4	11.7	15.6	20.2	25.6	31.8	38.9	47.0	56.1	66.2	77.5
	Bubbles	0.9	2.1	3.8	6.0	8.8	12.1	16.2	21.0	26.6	33.1	40.5	48.9	58.3	68.8	80.4

Measured according to: EN ISO 12238
Measured for a reference air density of 1,2 kg/m³.
Hexagon 1 = 10 pcs
Hexagon 2 = 25 pcs

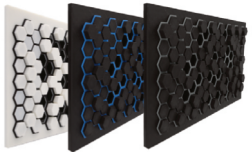
Pressure Drop Values ΔP (Pa) Plenum box:

$P_{tot} = P_{stat} + P_{dyn}$
Values for supply and exhaust air.

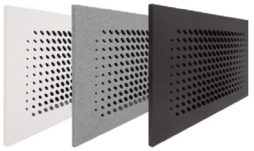
LUFTOMET® Flat box		Air flow (m³/h)															Aeff
Type:	Size	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	m2
Vertical	75	0.8	2.2	4.2	6.8	10.0	13.9	18.4	23.6	29.5	36.1	43.4	51.5	60.3	69.9	80.3	0.013840
	90	0.8	2.1	4.0	6.5	9.5	13.1	17.3	22.2	27.9	34.2	41.4	49.3	58.1	67.8	78.4	0.011030
	100	0.6	1.7	3.4	5.6	8.5	11.9	15.9	20.5	25.6	31.4	37.7	44.6	52.1	60.2	68.9	0.012660
Horizontal	75	0.7	2.3	4.6	7.5	11.0	15.2	20.0	25.5	31.8	38.7	46.4	54.9	64.1	74.2	85.1	0.008687
	90	0.9	2.5	4.6	7.2	10.3	13.9	18.1	22.9	28.3	34.5	41.3	48.9	57.3	66.5	76.6	0.007790
	100	0.7	1.8	3.4	5.5	8.2	11.4	15.2	19.6	24.5	30.0	36.2	42.9	50.3	58.3	66.9	0.008390
Direct	75	0.7	2.3	4.4	7.1	10.3	14.2	18.8	23.9	29.8	36.4	43.7	51.8	60.6	70.3	80.8	0.004726
	90	0.6	1.8	3.6	6.2	9.4	13.2	17.7	22.8	28.6	35.1	42.2	49.9	58.3	67.4	77.1	0.004910
	100	0.5	1.5	3.1	5.2	7.8	10.9	14.5	18.7	23.4	28.7	34.6	41.1	48.2	55.8	64.1	0.004937

Measured according to: EN ISO 12238
Measured for a reference air density of 1,2 kg/m³.

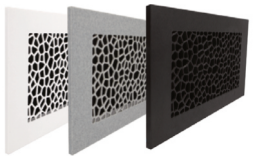
Accessories:



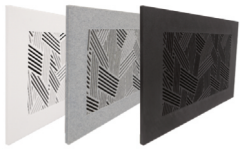
Grilles - Hexagon
ID: LF-P-R-HWB-PB
LF-P-R-HBB-PB
LF-P-R-HBW-PB



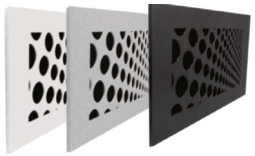
Grilles - Droplets
ID: LF-P-R-DW-PB
LF-P-R-DM-PB
LF-P-R-DB-PB



Grilles - Voronoi
ID: LF-P-R-VW-PB
LF-P-R-VM-PB
LF-P-R-VB-PB



Grilles - Stitches
ID: LF-P-R-SW-PB
LF-P-R-SM-PB
LF-P-R-SB-PB



Grilles - Bubbles
ID: LF-P-R-BW-PB
LF-P-R-BM-PB
LF-P-R-BB-PB

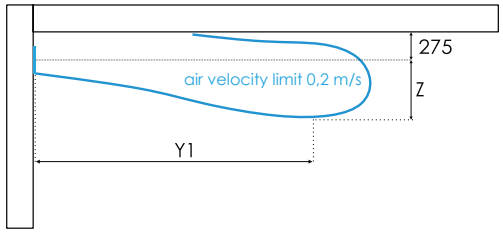
LUFTOMET Flat Extension Piece
ID: LF-A-PP-100
LF-A-PP-150
LF-A-PP-200
4x screws for anchoring LP-S-4 and 4x screws for anchoring LP-SM -4.

Throw Length - Terminal Velocity:

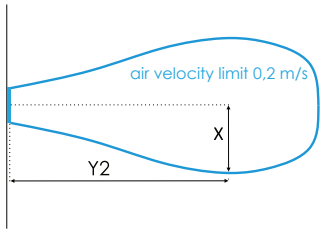
	Type (m³/h)	mm	Droplets	Voronoi	Hexagon 1	Hexagon 2	Bubbles	Stitches
Flow rate	15	Z	100	150	100	75	110	100
		Y1	530	765	495	440	545	500
		X	100	100	75	105	100	80
		Y2	453	455	430	300	445	425
	30	Z	200	225	225	190	205	220
		Y1	1410	1450	1190	1320	1400	1230
		X	100	115	100	140	110	90
		Y2	1350	1067	893	980	128	925
	45	Z	180	225	250	125	175	250
		Y1	1573	2110	2100	2300	1495	2090
		X	128	100	75	160	105	80
		Y2	1573	1507	2100	1633	1510	2080
	60	Z	250	300	225	200	245	220
		Y1	2950	3080	2800	3000	3005	2750
		X	150	155	160	200	150	155
		Y2	2067	2120	1967	2100	2080	1970
	75	Z	270	450	300	355	265	295
		Y1	1650	3000	1690	2035	1730	1740
		X	150	225	180	160	145	185
		Y2	1650	2790	1690	2035	1720	1650
	90	Z	300	450	330	320	320	325
		Y1	2400	3200	2170	2370	2420	2205
		X	175	220	220	240	170	230
		Y2	2220	2790	2170	2370	2340	2290
	105	Z	300	450	350	370	320	360
		Y1	3200	3800	2500	2760	3350	2660
		X	250	280	240	270	265	255
		Y2	2710	3270	2500	2760	2830	2650

Measured according to: EN ISO 12238
Measured for isothermal airf low ΔT max 2 °C

Flat Grilles
Side view



Flat Grilles
Top view



LUFTOMET®
Wall Triangle

LUFTOMET® Wall products are end elements for air distribution systems. They are used on exterior building facades for air intake or exhaust. These outdoor facade covers stand out with their stylish design and high-quality craftsmanship, easy installation and maintenance, and very low pressure losses.

Our Air diffusers are:

- designed for ducts with diameters of 125, 160, and 200 mm
- equipped with a sealing ring on the spigot making them suitable for all types of ducts (EPE, EPS, EPP, SPIRO, etc.)
- suitable for fresh air intake and exhaust of normally polluted air (without chemical substances, etc.)
- made of metal, carefully powder-coated (white RAL 9010, black RAL 9005 matte, anthracite RAL 7016), or made of stainless steel (1.4301)
- equipped with a drip edge that diverts water drops away from the building facade and fitted with an insect screen
- optional accessories: Insect screen with magnetic attachment

Package includes:
Outdoor facade cover (without mounting accessories). Packed in a stretch film.

Coding:

LW - T - XXX - Y

- Colour: N - Stainless Steel, A - Anthracite, W - White, B - Black
- Dimension: 125, 160, 200 mm
- Triangle
- LUFTOMET® Wall

Pressure Drop Values ΔP (Pa):

$P_{tot} = P_{stat} + P_{dyn}$

Values for supply and exhaust air.
Measured with an insect screen.

size (mm)	Air flow (m^3/h)						
	50	100	150	200	250	300	350
125	3.3	11.5	24.7	44.0	68.7		
160	1.1	4.1	9.3	16.7	26.2	37.2	51.8
200	0.8	1.5	4.8	8.1	12.3	17.6	24.0

Measured according to: EN ISO 12238
Measured for a reference air density of 1,2 kg/m³.

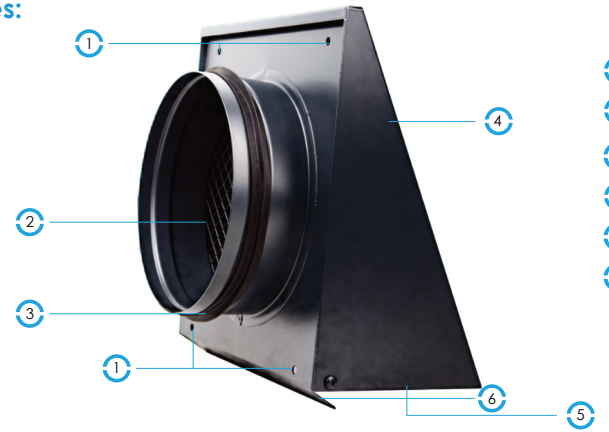
Sound Power Levels A, LWA (dB):

(Values for supply air)
Measured with an insect screen.

size (mm)	Air flow (m^3/h)						
	50	100	150	200	250	300	350
125	<20	<22	<28	<35			
160	<20	<21	<21	<24	<29	<34	
200	<20	<20	<20	<21	<24	<27	<34

Measured according to: EN ISO 5135
Background correction according to: EN ISO 3741
Calculation of levels according to: EN ISO 3741

Features:



1. Anchoring
2. Removable insect screen (optional accessory)
3. Sealing
4. Removable front cover
5. Large flow area
6. Drip edge

Basic Types:

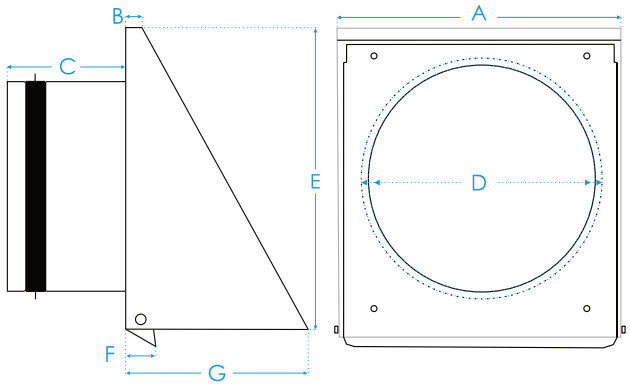
Stainless Steel
ID: LW-T-XXX-N

White
ID: LW-T-XXX-W

Antracite
ID: LW-T-XXX-A

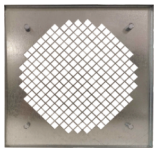
Black
ID: LW-T-XXX-B

Dimensions:



Size (mm)	125	160	200
A	162	212	252
B	14	14	14
C	80	80	80
D	120 - 130	155 - 165	195 - 205
E	196	228	295
F	23	23	23
G	110	124	150

Accessories:



Insect Screen

ID: LP-N-XXX-B
LP-N-XXX-A
LP-N-XXX-W
LP-N-XXX-N

MADE IN CZECH REPUBLIC
LUFTOMET® Wall Triangle

LUFTooL Trap

LUFTooL Trap products are designed to collect condensed water on the inside of the pipe in the ventilation systems. They are usually installed on pipes that blow air from the interior through the unheated part of the house. The condensation piece drains condensate from the duct walls outside the duct.

Our Condensing Pieces are:

- very tight
- designed to save space compared to other condensate collection solutions
- equipped with a gutter elbow that is compatible with conventional condensate drainage hoses
- made of PETG material, thus minimising the formation of thermal bridges
- designed to be installed in vertical and horizontal pipes (horizontal pipes must always be in a gradient towards the drain)
- efficient, depending on the flow rate and type of pipe material, they are able to collect up to 91% of condensed moisture
- manufactured in three variants (for EPE, EPS and SPIRO pipes)

Made of PETG material:
- which is flexible and solid
- has high impact resistance and durability
- is made from health-safe materials
- has low shrinkage on cooling
- is 100% recyclable

Package includes:
Condensation piece, 2 sealing rings for the SPIRO version, manual. Packed in a box or foil.

Coding:

LT - TR - XXX - YYY
- Dimension: 80, 100, 125, 150, 160, 170, 180, 200 mm
- Duct Type: EPE, EPS, SPI
- Trap
- LUFTooL

Basic Types:

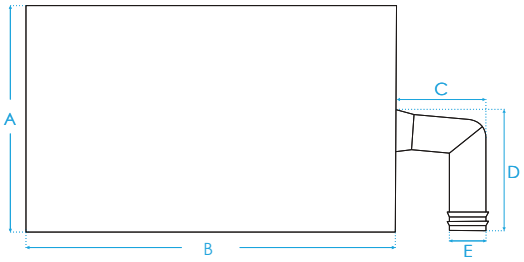
ID: LT-TR-EPE-YYY

ID: LT-TR-EPS-YYY

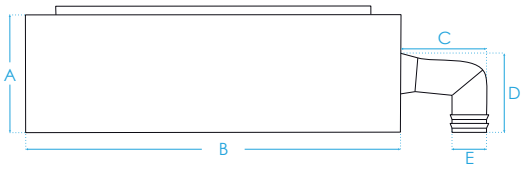
ID: LT-TR-SPI-YYY

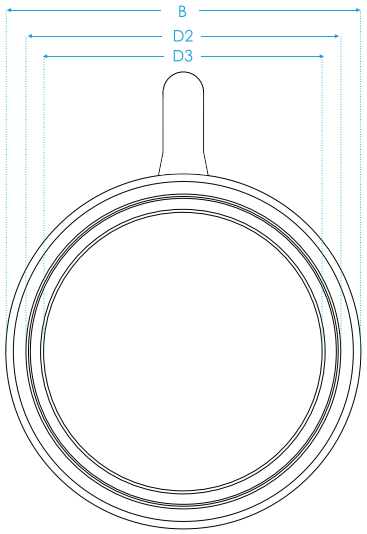
Dimensions:

EPE + EPS



SPIRO





Units (mm)	LT-TR-EPE-	A	B	C	D	D2	D3	E
	125	100	130	40.5	54.3	-	98	16
	150	100	155	40.5	54.3	-	123	16
	160	100	166	40.5	54.3	-	134	16
	180	100	185	40.5	54.3	-	153	16
	200	100	207	40.5	54.3	-	175	16

Units (mm)	LT-TR-EPS-	A	B	C	D	D2	D3	E
	125	100	125	40.5	54.3	-	93	16
	160	100	160.5	40.5	54.3	-	128	16
	200	100	200.5	40.5	54.3	-	168.5	16

Units (mm)	LT-TR-SPI-	A	B	C	D	D2	D3	E
	80	55	96	40.5	37	80	65.6	16
	100	55	116	40.5	37	100	85.6	16
	125	55	141	40.5	37	125	110.6	16
	150	55	166	40.5	37	150	135.6	16
	160	55	179	40.5	37	160	145.6	16
	200	55	216	40.5	37	200	185.6	16

LUFTooL Trap Video

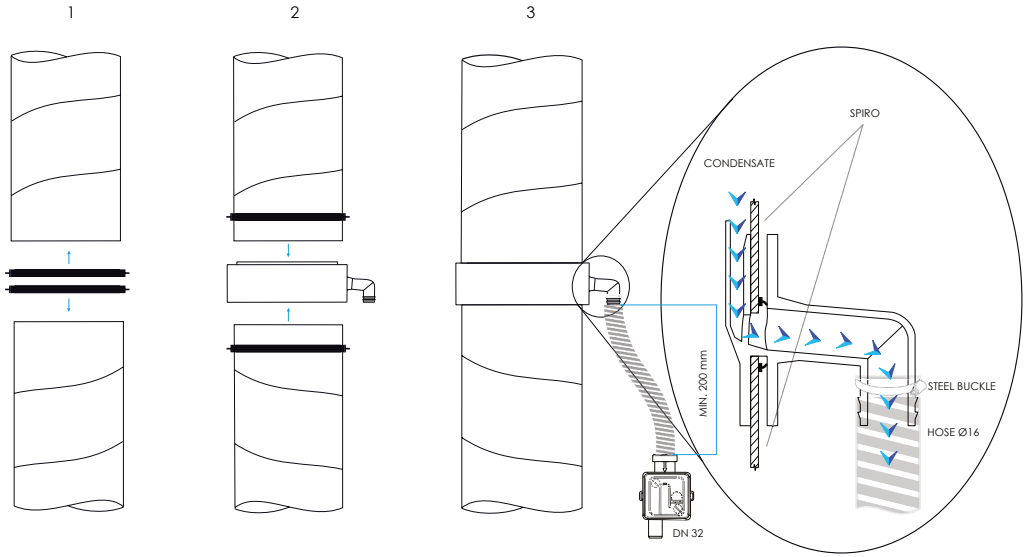
Pressure Drop Values ΔP (Pa):

$P_{tot} = P_{stat} + P_{dyn}$
Values for supply and exhaust air.

LT-TR-SPI-	Air flow (m^3/h)						
	50	100	150	200	250	300	350
100	3.0	12.0	27.0	48.1	75.1		
125	1.2	4.9	11.1	19.7	30.8		
160	0.5	1.8	4.1	7.3	11.5	16.5	22.5
200	0.2	0.8	0.8	3.0	4.7	6.8	9.2

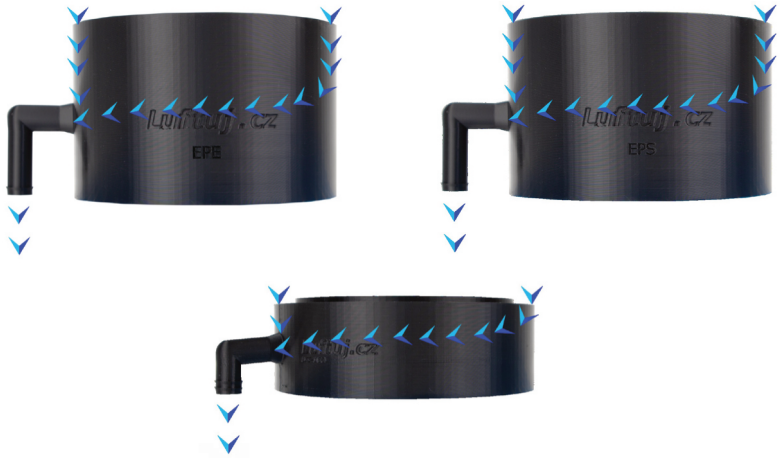
Measured according to: EN ISO 12238
Measured for a reference air density of 1,2 kg/m³.

Installation of LuftooL Trap SPIRO Type:



Principle of Condensation:

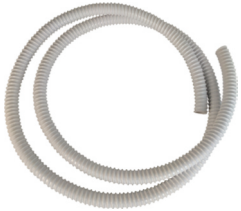
When moisture condenses in the duct, water droplets form on the inside surface of the duct and flow along the perimeter into the inner collar of the LUFTooL Trap. Under suitable conditions, the condensation piece captures most of the flowing water and directs it out of the ventilation system. The movement of water in the duct can affect turbulent airflow and other components in the duct (elbows, caps, dampers, etc.). Always consult with an HVAC designer before use.



Accessories:

Spiro Duct 3 m
ID: SPIRO-XXX

EPE Duct 2m - 125, 150, 180, 160, 200 mm
ID: HRWTW-XXX-2m



Condensate Drain Hose
ID: KOND16

MADE IN CZECH REPUBLIC
LUFTooL Trap

LUFTooL Adapter

The LUFTooL Adapter offers a complete system of transitions between the 100 and 125 mm SPIRO duct and fittings sizes and modern plastic flexible pipe systems with 75 and 90 mm outer diameters. The joints are tight and solid thanks to the use of sealing and locking rings.

Our Adapters are:

- manufactured in 13 designs
- suitable for flexible pipes of various manufacturers, fittings of SPIRO duct type and for flexible aluminium pipes (SONO, Thermo type, etc.)
- very tight:
  - the connection of the flexible pipe and the transition achieves class C tightness (according to EN 15727) thanks to the use of a sealing ring
  - the connection of the fitting with the SPIRO duct sealing rubber and the transition achieves class D tightness (according to EN 15727)
  - the connection of the SPIRO duct and the transition is recommended to be sealed with aluminium tape
- thanks to their shape and design they achieve low pressure drop values
- made of PETG:
  - which is flexible and solid
  - has high impact resistance and durability
  - is made from health-safe materials
  - has low shrinkage on cooling
  - is 100% recyclable

Package includes:
Plastic transition, sealing and locking ring - according to the number of connected flexible pipes.
Delivery does NOT include aluminium tape. Packed in stretch foil.

Coding:

LT - AD - XX - YY - Z

- Pipe Type: V - for ducting, N - for fittings
- Duct Type and Dimension:
- Duct Dimension: 75, 90 mm
- Adapter
- LUFTooL

SPIRO 100 and 125 mm,
Fittings 100 and 125 mm,
HT duct 40 and 50 mm,
Flexible pipe 90 mm

Basic Types:

Transition from 75 mm flexible pipe to:

SPIRO 100 and 125 mm
ID: LT-AD-75-100-V
LT-AD-75-125-V

HT duct 40 a 50 mm
ID: LT-AD-75-HT-40
LT-AD-75-HT-50

Flexible pipe 90 mm
ID: LT-AD-75-90

Fittings 100 and 125 mm
ID: LT-AD-75-100-N
LT-AD-75-125-N

*We recommend using fittings with sealings.

Transition from 90 mm flexible pipe to:

SPIRO 100 and 125 mm
ID: LT-AD-90-100-V
LT-AD-90-125-V

HT duct 40 a 50 mm
ID: LT-AD-90-HT-40
LT-AD-90-HT-50

Fittings 100 and 125 mm
ID: LT-AD-90-100-N
LT-AD-90-125-N

* We recommend using fittings with sealings.

Installation:

LUFTooL adapters ensure quick installation.

A. Flexible plastic pipe
1. Thread the sealing ring onto the plastic flexible pipe between the first and second rib.
2. Apply lubricant (not included) to the sealing ring.
3. Insert the flexible plastic pipe into the adapter so that the locking holes are over the grooves.
4. Slide the blue locking ring over the holes in the adapter between the ribs of the plastic pipe.

B. SPIRO duct (SONO pipe)
1. Slide the duct onto the adapter and screw through.
2. Seal with aluminum tape.

C. SPIRO fittings
1. Slide the fitting with the sealing ring into the adapter and screw through.
2. Seal with aluminum tape.

D. HT pipe
1. Slide the HT pipe flange onto the adapter.
2. Seal with aluminum tape.

Check the anchorage of the pipe in front of and behind the adapter at the maximum distance of 0.5 m.

Pressure Drop Values ΔP (Pa):

$P_{tot} = P_{stat} + P_{dyn}$
Values for supply and exhaust air.

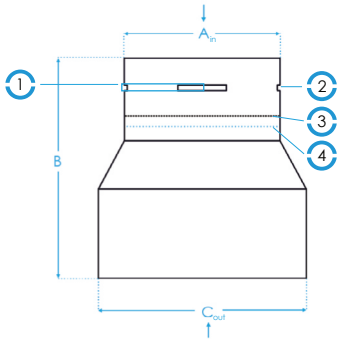
Size (mm)	Air flow (m^3/h)				
	30	45	60	75	90
75/100	2.4	5.4	9.2		
75/125	2.9	5.8	6.0		
90/100	1.5	3.3	6.1	9.3	12.2
90/125	1.4	2.6	5.0	7.8	10.7

Measured according to: EN ISO 12238
Measured for a reference air density of 1,2 kg/m³.

Dimensions and Features:

Flexible pipe to SPIRO fitting

Place the sealing ring on the pipe between the 1st and 2nd rib. Inset the pipe.

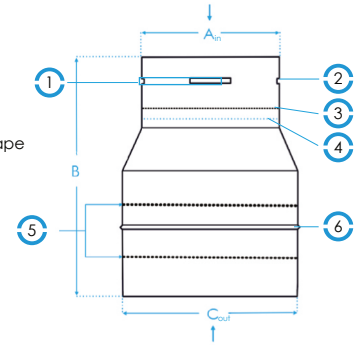


Insert the fitting with sealing ring into the adapter.

1. Locking ring
2. Pipe locking hole
3. Sealing ring
4. Inner pipe stop
5. Zone for sealing with aluminium tape
6. SPIRO duct stop

Flexible pipe to SPIRO duct

Place the sealing ring on the pipe between the 1st and 2nd rib. Inset the pipe.



Slide the pipe in

Units (mm)	LT-AD-	A_{in}	B	C_{out}
	75-100-N	78.8	130	100
	75-125-N	78.8	130	125
	90-100-N	92.8	130	100
	90-125-N	92.8	130	125

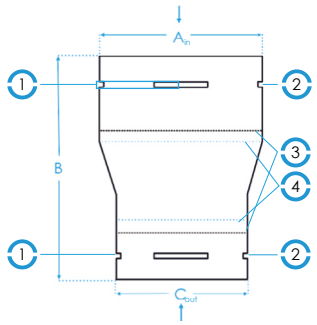
ID 75/100: LT-AD-75-100-N ID 90/100: LT-AD-90-100-N
ID 75/125: LT-AD-75-125-N ID 90/125: LT-AD-90-125-N

Units (mm)	LT-AD-	A_{in}	B	C_{out}
	75-100-V	78.8	160	100
	75-125-V	78.8	160	125
	90-100-V	92.8	160	100
	90-125-V	92.8	160	125

ID75/100: LT-AD-75-100-V ID 90/100: LT-AD-90-100-V
ID75/125: LT-AD-75-125-V ID 90/125: LT-AD-90-125-V

Flexible pipe

Place the sealing ring on the pipe between the 1st and 2nd rib. Inset the pipe.



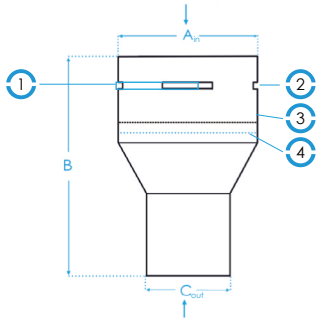
Place the sealing ring on the pipe between the 1st and 2nd rib. Inset the pipe.

Units (mm)	LT-AD-	A_{in}	B	C_{out}
	75-90	92.8	130	75

ID 75-90: LT-AD-75-90

Flexible pipe to HT duct

Place the sealing ring on the pipe between the 1st and 2nd rib. Inset the pipe.



Slide the HT duct flange onto the adapter.

Units (mm)	LT-AD-	A_{in}	B	C_{out}
	75-HT-40	78.8	130	40
	75-HT-50	78.8	130	50
	90-HT-40	92.8	130	40
	90-HT-50	92.8	130	50

ID 75/40: LT-AD-75-HT-40 ID 90/40: LT-AD-90-HT-40
ID 75/50: LT-AD-75-HT-50 ID 90/50: LT-AD-90-HT-50

Accessories:

Dalflex Hygienic - Flexible Pipe

ID: DALFLEX75b
ID: DALFLEX90b

Spiro Duct 3 m

ID: SPIRO100
ID: SPIRO125

Self-adhesive Aluminum Tape

ID: ALU50/50

Self-tapping Screws 4.2-13 mm SPIRO

ID: SCR4,2/13

Pipe Clamp for Ventilation Ducts

ID: CLAMP75
ID: CLAMP90

Luftool Duct Cutter

ID: LT-DC-H-75
ID: LT-DC-H-90

Example of Product Use

We offer a solution to efficiently ventilate the toilet without heat loss. Modern toilets are often equipped with units for extracting odors. To make the system 100% energy efficient, it is advisable to integrate it into a heat-recovery ventilation system. Components are provided by the LUFTooL Smell Well range.

MADE IN CZECH REPUBLIC
LUFTooL Adapter

LUFTOOL
Trap Adapter Duct Distribute

LUFTooL Duct

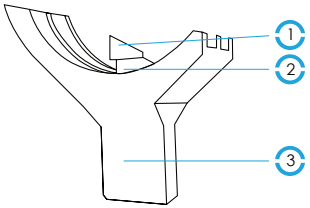
The LUFTooL Duct air handling products speed up and simplify the installation and maintenance of ventilation systems with heat recovery. They are designed for star-pipeline ventilation systems made of plastic corrugated flexible pipes with an outer diameter of 75 and 90 mm. We offer products for both hobby use and professionals.

Our Duct Cutters:

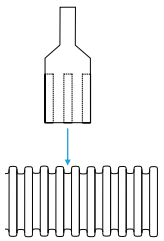
- save material, time, and effort. Don't waste time endlessly refinishing plastic pipes.
- cut pipes between ribs cleanly, effortlessly, and without burrs. The pipe is then ideally prepared for use with other fittings, plenum boxes, etc.
- in hobby variant they ensure trouble-free cutting for hundreds of pipe cuts.
- are equipped with a long-lasting Fiskars blade. The blades of the Hobby version are non-changeable.
- are designed for DALFEX pipes in the basic version. Other types of pipes may differ in ribbing.
- and their body and cover of a blade are made of PETG, plastic zip ties are made of polyamide
- for corporate & bulk orders, the size can be customized, the cutter can be equipped with your own logo, and produced in your brand colours.

Package includes:
Cutter and manual. Packed in a plastic bag.

Features and Installation:



1. Blade cover
2. Fiskars blade
3. Cutter with a blade



LUFTooL Duct Cutter Basic Types:

Duct Cutter

ID: LT-DC-P-75
LT-DC-P-90

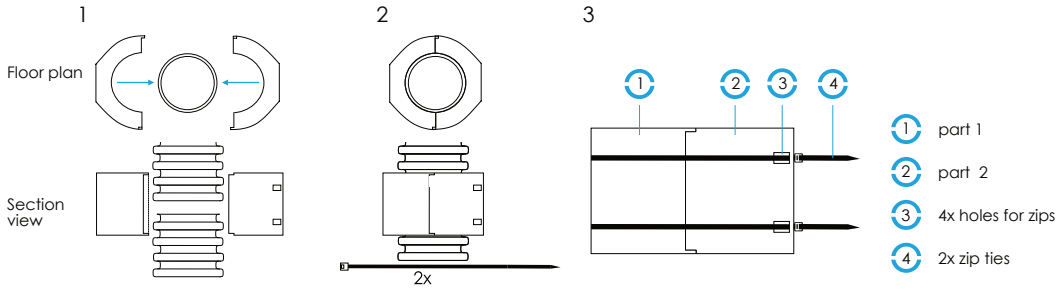
ID: LT-DC-H-90
LT-DC-H-75

Our Duct Patches:

- consist of two plastic parts, which are mounted sideways on the pipe ends and secured with plastic clips.
- require minimal force and handling space during assembly.
- are very tight and require no additional sealing.
- can be easily disassembled and reassembled at any time.
- in the basic version of the patch they are designed for DALFLEX pipes. Other types of pipes may differ in ribbing.
- for corporate & bulk orders, the size can be customized, the patch can be equipped with your own logo, and produced in your brand colours.

Package includes:
Two plastic parts, two zip ties, manual. Packed in a plastic bag.

Features and Installation:



1. part 1
2. part 2
3. 4x holes for zips
4. 2x zip ties

LUFTooL Duct Patch Basic Types:

Duct Patch
ID: LT-DP-75
LT-DP-90

MADE IN CZECH REPUBLIC
LUFTooL Duct

LUFTooL Distribute

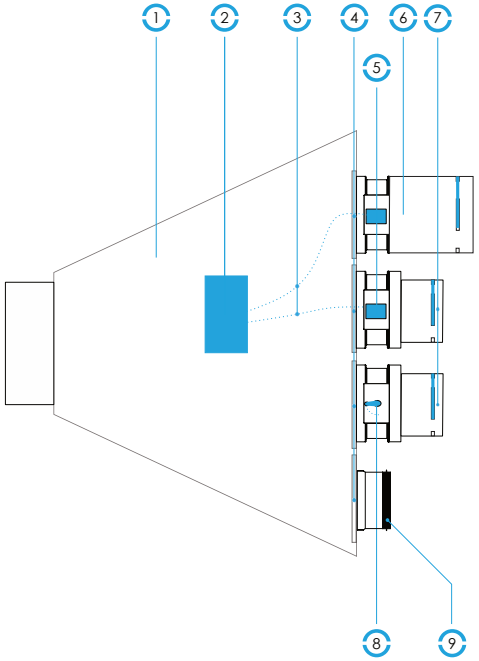
The LUFTooL Distribute system is an innovative and modular air regulation solution that enables flexible distribution of airflow across different zones or rooms in residential homes and small commercial spaces. The system's components can be freely combined, and thanks to the smart damper design, they are also easy to clean. The dampers feature manual control or the option of automatic regulation via LUFTaTOR.

Our Distribute System is:

- an innovative system for distributing airflow into individual zones/rooms
- modular (its components can be combined)
- designed for flexible plastic pipes with diameters of 75 mm and 90 mm, as well as traditional SPIRO 100 mm ducts
- intended for ventilation in residential homes and small commercial spaces, with airflow rates of up to 100 m³/h per branch
- ensuring a high level of tightness
- suitable for supply and exhaust of normally polluted air (without chemical substances, etc.)
- fully cleanable thanks to brushes able to pass through the damper without the need to disassemble the damper module
- made of ABS and PETG materials

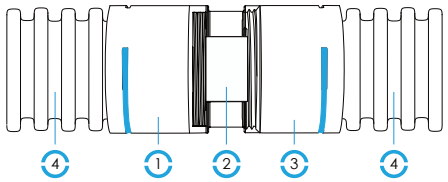
Example of Possible Combinations:

A) Distribution box



1. Customized Air Distribution Box
2. LF-CO-12 LUFTaTOR Control
3. LT-CA-20 LUFTooL Wire Extension (20 cm)
4. LT-CO-XXX LUFTooL Connector Multi-fit
5. LT-DM-A LUFTooL Damper Module (automatic)
6. LT-SP-90-F LUFTooL Spigot for Ducting (90 mm, female)
7. LT-SP-75-F LUFTooL Spigot for Ducting (75 mm, female)
8. LT-DM-M LUFTooL Damper Module (manual)
9. LT-SP-100-F LUFTooL Spigot for Ducting (100 mm)

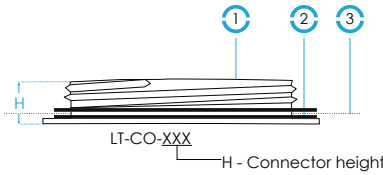
B) On the pipe



1. LT-SP-90-F LUFTooL Spigot (90 mm, female)
2. LT-DM-X Damper Module (manual / automatic)
3. LT-SP-X-M LUFTooL Spigot (90 mm, male)
4. Flexible pipe 90 mm

The Distribute System Includes:

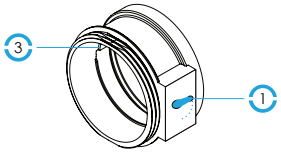
Connector Multi-fit



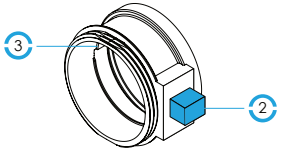
1. The connector is threaded for secure attachment. It allows tight connection to ducting (75, 90, or 100 mm) or a damper module.
2. Supplied with two sealing rings.
3. Different H values can be selected depending on the material of the distribution chamber.

Damper Module available in manual or automatic version

LT-DM-M Manual control

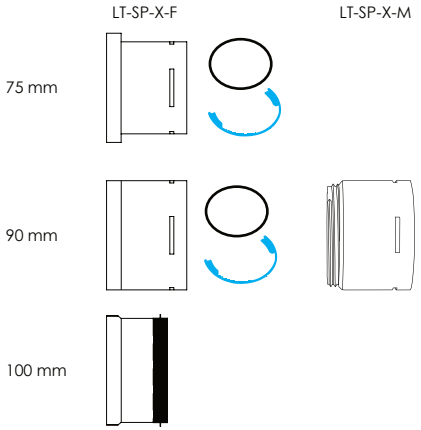


LT-DM-A automatic control



1. Plastic handle with seven locking positions
2. Damper shaft connected to the servo motor:
   Operating voltage: 3 V ~ 6 V
   Speed: 0.12 sec/60(4.8 V), 0.09 sec/60(6 V)
   Torque: 1,8 kg.cm (4.8 V); 2.2 kg.cm (6.0 V)
   Operating temperature: 10-50 °C
   Gear material: Metal
3. Stops for complete closure. Damper blade removable without disassembling the module from the duct.

Spigot for ducting (flexible, SPIRO)



The package includes a sealing and locking ring.

The package includes a sealing and locking ring.

The package includes a sealing ring pre-installed on the spigot.

MADE IN CZECH REPUBLIC
LUFTooL Distribute

LUFTaTOR Control

LUFTaTOR Control is an innovative system that enables the regulation of both supply and exhaust airflow in heat recovery ventilation systems for residential houses and apartments. Thanks to its compatibility with the modular LUFTooL Distribute system, it allows airflow control of up to 100 m³/h, both in flexible plastic pipes with diameters of 75 mm and 90 mm, as well as in traditional SPIRO 100 mm ducting. It communicates with a central home automation system via MQTT or MODBUS protocols, making it possible to integrate LUFTaTOR into commonly available smart home systems such as Home Assistant, openHAB, Loxone, Domoticz, and others.

Our LUFTaTOR Control is:

- fully compatible with LUFTooL Distribute Damper (automatic)
- capable of communication via MQTT or MODBUS protocol
- fully serviceable – always ensure access to the control board and servomotors
- powered by 5 VDC via POE Ethernet, or a switching adapter
- can be connected via WLAN (Wi-Fi), LAN (Ethernet)
- equipped with a configuration button and an LED indicator showing the device status
- CE certified

Package Includes:
Box with LUFTaTOR Control system, manual. Packed in a carton. Power supply is NOT included.

Coding:

LF - CO - 12

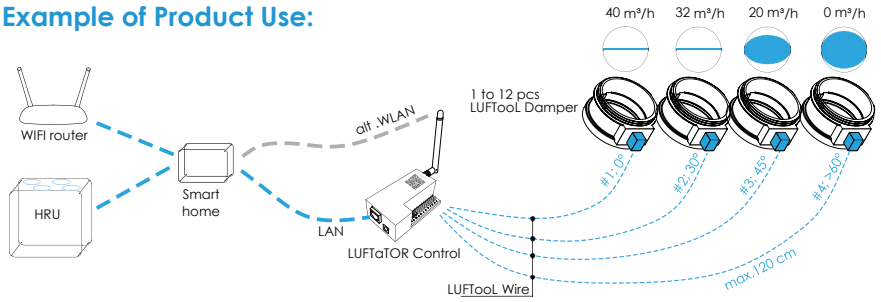
- 12 – for 1 to 12 dampers
- CO – Control
- LF – LUFTaTOR

Pressure Drop Values ΔP (Pa) and Flow Coefficient (k):

Flow m³/h (LFi/max)	Damper position (manual / automat)									
	1/0°		2/15°		3/30°		4/45°		5/60°	
	Pa	k	Pa	k	Pa	k	Pa	k	Pa	k
20	0.7	1	1.3	1	4.3	1	13.7	0.85	55.7	0.45
40	1.3	1	5.2	0,95	18.6	0.8	48.3	0.5	232.3	0
60	3.1	1	13.7	0,85	43	0.55	120.1	0	550.1	0
90	6	0.95	32.5	0,65	89.5	0.1	215	0	989	0

Measured according to: EN ISO 5167-3:2003
Measured for a reference air density of 1,2 kg/m³.

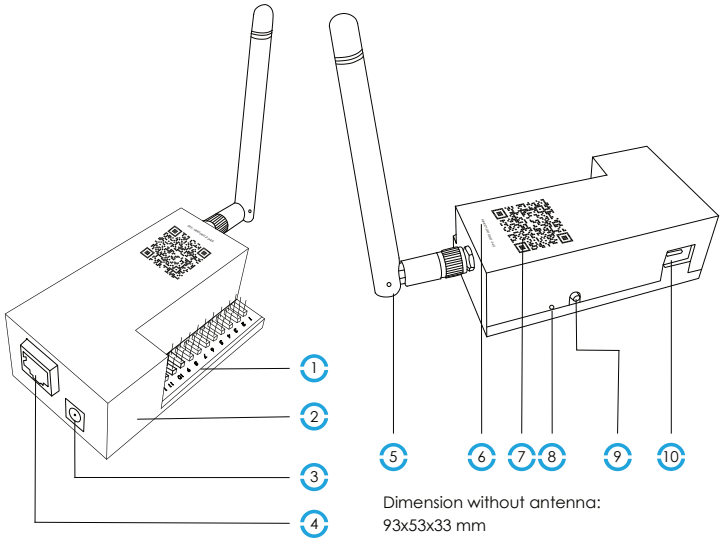
Example of Product Use:



Proposed maximum airflow through one Lfi/max damper = 40 m³/h
Proposed airflow to the distribution box DB = 92 m³/h

Damper Number	Design Airflow	Coefficient (per LFi/max)	Damper Position
1	40 m³/h	1	0°
2	32 m³/h	0,8	30°
3	20 m³/h	0,5	45°
4	0 m³/h	0	>60°

*Excluding the pressure losses of other air ducts.
*The final adjustment of the dampers must be made after measurement.



Dimension without antenna:
93x53x33 mm

1. Terminal block for 12 dampers
2. Outer casing made of PETG
3. Connector for switching power supply, straight variant 5.5/2.1 mm
4. POE power supply
5. External WiFi antenna
6. Serial number
7. QR code link to manual and protocols
8. Status LED indicator
9. Configuration button
10. Micro USB input

Communication protocol:

It indicates the opening status of individual dampers in degrees (0° = open to 90° = closed). Available for download at www.luftuj.eu (see QR code).

Settings:

When calculating the damper opening settings, it is necessary to consider not only the pressure loss of the damper but also the pressure loss of the ductwork branch.

!!! Changes in the damper opening degree are not linearly proportional to changes in airflow.

We recommend to do always on site measurement of the designed scenarios by using airflow meter and adjusting the damper settings accordingly with the assistance of a professional organization.

The maximum airflow through a single fully opened damper is 100 m³/h. Depending on the damper position, the maximum allowable airflow (LFi) decreases. The airflow through one or more distribution boxes (DB_{max}) generated by the heat recovery unit in a single direction (supply/exhaust) must not exceed the sum of the individual damper flow rates in the same direction: $DB_{max} < \Sigma LF_{max}$.

Accessories:

LUFTooL Wire Extension 20, 40, 60 cm
ID: LT-W-20
LT-W-40
LT-W-60

LUFTooL Adapter Power Supply 5 VDC
ID: LT-PS-5V

LUFTooL Actuator Replacement Part
ID: LT-ACT-M

MADE IN CZECH REPUBLIC
LUFTaTOR Control

Luftuj.eu

www.luftuj.eu

+420 793 951 281

sales@luftuj.cz

Luftuj LtD, Slatiňany, Czech Republic