

PRODUCT CATALOG

NORMAL FANS

3

VMA High pressure direct drive axial fan	4
VMB Medium pressure, direct drive axial fan	5
VMC Medium pressure, direct drive axial fan	6
VHA High pressure direct drive axial fan	7
ZVMC Medium pressure, direct drive twin axial fan	8
VMA+DS, VMB+DS, VMC+DS, VHA+DS axial roof fan series	9
VMA+DT, VMB+DT, VMC+DT, VHA+DT axial roof fan series	10
VMA+DL, VMB+DL, VMC+DL, VHA+DL axial roof fan series	11

HEAT RESISTANT FANS

13

BVHA JET F200/F300/F400 jet fan	14
BVHA F600 smoke extraction axial fan	15
BVMR Reversible smoke extraction axial fan	16
BVHA F200/F300/F400 smoke extraction axial fan series	17
BVHA F200/F300/F400 smoke extraction axial fan series	18
BVHA F600+DL smoke extraction axial fan	19
AIRJET AJU / AJR F200 / F300 jet fan	20

STAIRWELL OVERPRESSURE RELEASE SYSTEM

21

LPH FBE stairwell fire wall diffuser	22
LPH-ZSTH'+ and LPH-ZSTH'- staircase overpressure relief devices	23
LPH-BD staircase overpressure supply device	24
ZSTH-ALT alternative separator unit	25
LPH-SZSZ overpressure relief ventilation box	26

ACCESSORIES

27

Tube Silencer, Diffuser, Case-extension, Discharge piece, Flat flange, Flexible Canvas, Inlet cone, Protection grill, Motorised damper dom	28
Rain Hood, Heat-resistant vibration absorber, Mounting Feet, Roof Silencer Socket, Roof Socket, Bracket for vertical installation, Automatic shut-off damper for vertical use, Automatic shut-off damper for horizontal use, Lamellar Roof Cup	29

DAMPERS

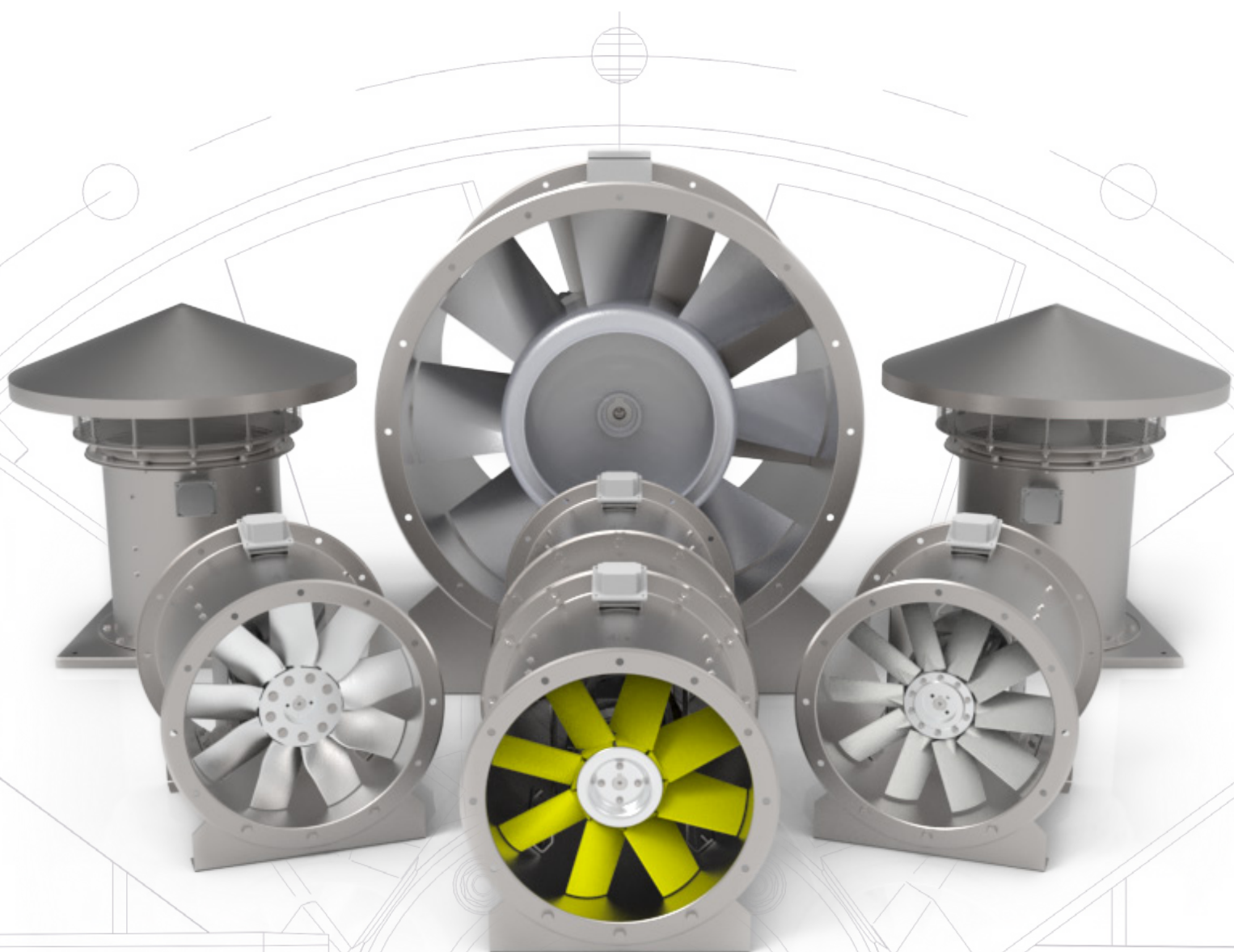
31

EFZS external weather louvres	32
ZSF, ZSFG, ZSAFG, ZSAFLT, ZST, ZSTLT, ZSTLL, ZSTH, ZSTHE, ZSTG types of multi-leaf dampers for control or shut-off	32
Motorized gear dampers	33
Heat-resistant, motorized dampers with push rod	33
Hand-operated gear control dampers	34
Hand-operated control dampers with push rod	34



NORMAL FANS

VMA, VMB, VMC, VHA, ZVMC, VMA/VMB/VMC/VHA...DS,
VMA/VMB/VMC/VHA...DT, VMA/VMB/VMC/VHA...DL



VMA High pressure direct drive axial fan

Nominal size:

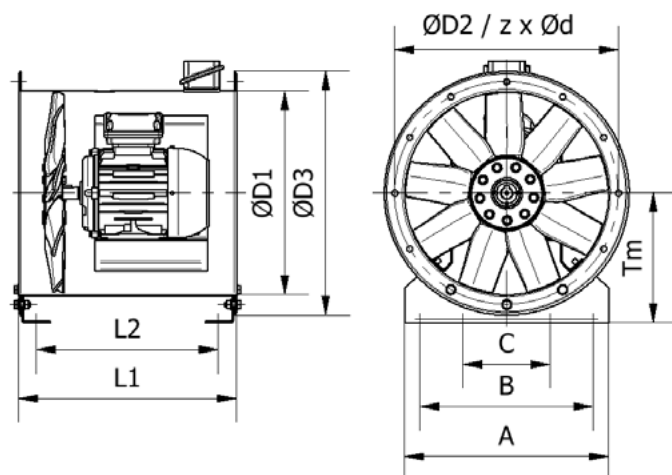
560 - 1000 mm

For extracting or blowing clean air at temperatures up to **50 °C** or **80 °C**, for horizontal or vertical installation.

Description:

The **VMA** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of **$\rho = 1.2 \text{ kg / m}^3$** . The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØD1 (mm)	ØD2 (mm)	ØD3 (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)	Tm (mm)	z (pc)	Ød (mm)
560	557	629	667	521	448	560	500	250	360	16	14
630	634	698	744	521	438	630	560	280	405	16	14
710	710	775	820	523	439	710	640	320	450	16	14
800	794	861	904	523	433	800	720	360	500	16	14
900	907	958	1017	523	433	900	820	410	580	16	14
1000	1004	1067	1114	523	428	865	780	390	635	16	14

VMB Medium pressure, direct drive axial fan

Nominal size:

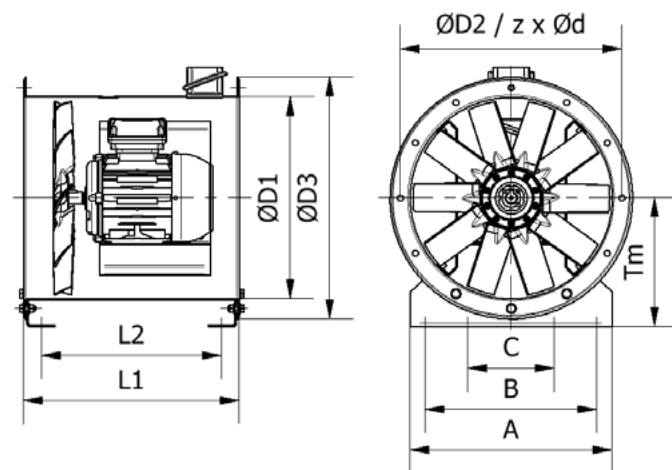
315 - 1000 mm

For extracting or blowing clean air at temperatures up to **50 °C** or **80 °C**, for horizontal or vertical installation.

Description:

The **VMB** fan's case is made of rolled and welded and bolted motor support structure made of sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The fan impeller consists of prefabricated, corrosion-resistant cast aluminum elements. The profile blades fixed to the hub can be infinitely adjusted in the standing position. The wheel is secured to the electric motor shaft with an easy-to-mount TAPER-LOCK clamping sleeve. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØD1 (mm)	ØD2 (mm)	ØD3 (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)	Tm (mm)	z (pc)	Ød (mm)
315	315	356	395	426	363	315	260	130	210	8	12
355	355	395	436	426	363	355	300	150	230	8	12
400	397	438	480	426	358	400	340	170	255	12	12
450	450	487	530	426	358	450	400	200	280	12	12
500	500	541	580	426	353	500	440	220	315	12	12
560	557	629	667	521	448	560	500	250	360	16	14
630	634	698	744	521	438	630	560	280	405	16	14
710	710	775	820	523	439	710	640	320	450	16	14
800	794	861	904	523	433	800	720	360	500	16	14
900	907	958	1017	523	433	900	820	410	580	16	14
1000	1004	1067	1114	523	428	865	780	390	635	16	14

Contact:

Phone: +36 99 536 072 / Fax: +36 99 536 073 / E-mail: sales@hungaro-ventilator.hu

VMC Medium pressure, direct drive axial fan

Nominal size:

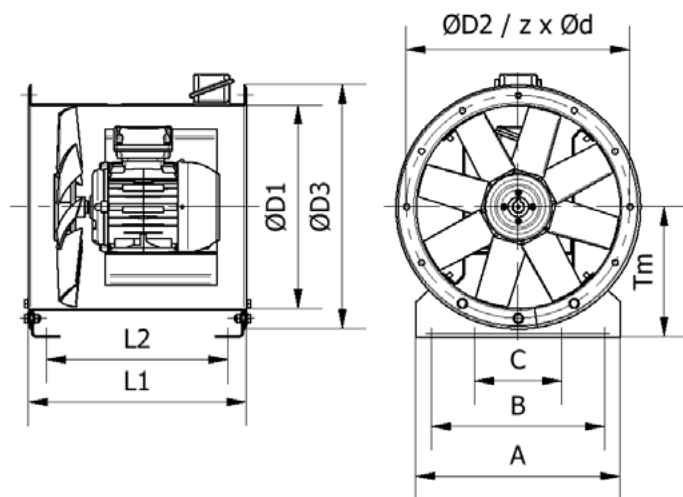
315 - 1250 mm

For extracting or blowing clean air at temperatures up to **50 °C** or **80 °C**, for horizontal or vertical installation.

Description:

The **VMC** fan's case is made of rolled and welded and bolted motor support structure made of sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The fan impeller consists of prefabricated, corrosion-resistant cast aluminum elements. The profile plastic blades attached to the aluminum hub can be adjusted at discrete angles in the stationary position. The impeller is secured to the shaft of the electric motor by a latch and screw connection. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of **$\rho = 1.2 \text{ kg / m}^3$** . The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØD1 (mm)	ØD2 (mm)	ØD3 (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)	Tm (mm)	z (pc)	Ød (mm)
315	315	356	395	426	363	315	260	130	210	8	12
355	355	395	436	426	363	355	300	150	230	8	12
400	397	438	480	426	358	400	340	170	255	12	12
450	450	487	530	426	358	450	400	200	280	12	12
500	500	541	580	426	353	500	440	220	315	12	12
560	557	629	667	521	448	560	500	250	360	16	14
630	634	698	744	521	438	630	560	280	405	16	14
710	710	775	820	523	439	710	640	320	450	16	14
800	794	861	904	523	433	800	720	360	500	16	14
900	907	958	1017	523	433	900	820	410	580	16	14
1000	1004	1067	1114	523	428	865	780	390	635	16	14
1120	1114	1200	1234	892	793	1024	940	470	750	16	14
1250	1256	1337	1376	892	793	1228	1120	560	815	24	14

VHA High pressure direct drive axial fan

Nominal size:

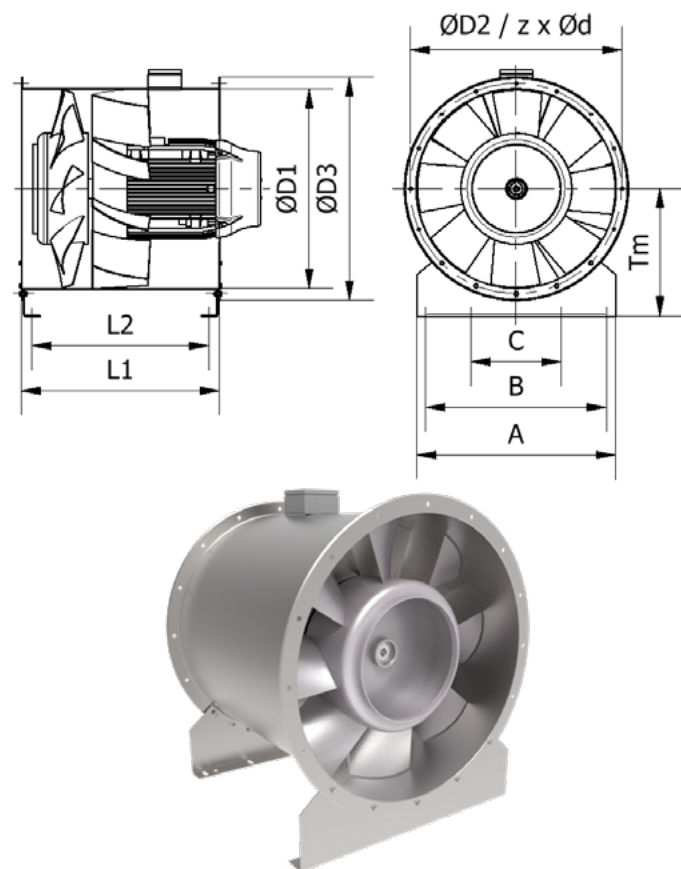
315 - 2500 mm

For extracting or blowing clean air at temperatures up to **50 °C** or **80° C**, for horizontal or vertical installation.

Description:

The **VHA** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØD1 (mm)	ØD2 (mm)	ØD3 (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)	Tm (mm)	z (pc)	Ød (mm)
315	315	356	395	426	361	315	260	130	210	8	12
355	356	395	436	426	361	355	300	150	230	8	12
400	400	438	480	426	356	400	340	170	255	12	12
450	450	487	530	426	356	450	400	200	280	12	12
500	500	541	580	426	351	500	440	220	315	12	12
560	557	629	667	521	442	560	500	250	360	16	14
630	634	698	744	521	432	630	560	280	405	16	14
710	710	775	820	523	433	710	640	320	450	16	14
800	794	861	904	523	427	800	720	360	500	16	14
900	907	958	1017	899	802	900	820	410	580	16	14
1000	1004	1067	1114	899	802	865	780	390	635	16	14
1120	1114	1200	1234	892	787	1024	940	470	750	16	14
1250	1256	1337	1376	892	787	1228	1120	560	815	24	14
1400	1401	1491	1521	1040	933	1367	1260	630	894	24	14
1600	1589	1663	1709	1040	932	1550	1440	720	994	24	14
1800	1801	1856	1920	1569	1445	1725	1560	780	1094	24	14
2000	2000	2073	2120	1569	1445	2000	1840	920	1256	32	14

Contact:

Phone: +36 99 536 072 / Fax: +36 99 536 073 / E-mail: sales@hungaro-ventilator.hu

ZVMC Medium pressure, direct drive twin axial fan

Nominal size:

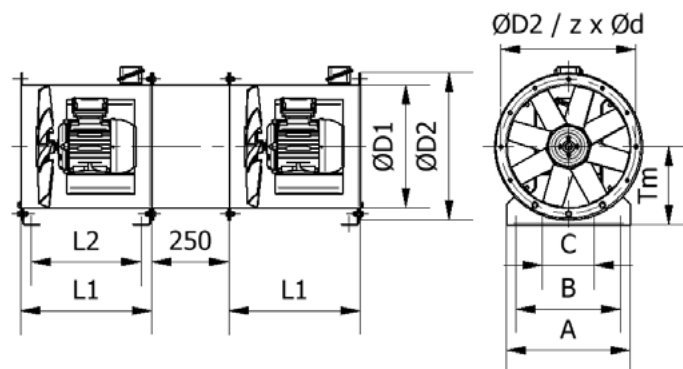
315 - 1250 mm

For extracting or blowing clean air at temperatures up to **50 °C** or **80 °C**, for horizontal installation.

Description:

The **ZVMC twin axial fan** is made by integrating two **VMC** fans in opposite directions to achieve high pressure. The fan's case has a rolled, welded and bolted motor support structure made of sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The fan impeller consists of prefabricated, corrosion-resistant cast aluminum elements. The profiled fiberglass-reinforced plastic blades attached to the aluminum hub can be adjusted at discrete angles. The impeller is secured to the shaft of the electric motor by a latch and screw connection. The fan is connected to the flange on both sides of the fan's case by a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in one-way or reversible design. The power of the electric motor is rated for clean air operation with a density $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The electric motor is electrically routed to a terminal box located on the fan housing.



Nominal sizes (mm)	ØD1 (mm)	ØD2 (mm)	ØD3 (mm)	L (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)	Tm (mm)	z (pc)	Ød (mm)
315	315	356	395	1102	426	363	315	260	130	210	8	12
355	355	395	436	1102	426	363	355	300	150	230	8	12
400	397	438	480	1102	426	358	400	340	170	255	12	12
450	450	487	530	1102	426	358	450	400	200	280	12	12
500	500	541	580	1102	426	353	500	440	220	315	12	12
560	557	629	667	1292	521	448	560	500	250	360	16	14
630	634	698	744	1292	521	438	630	560	280	405	16	14
710	710	775	820	1296	523	439	710	640	320	450	16	14
800	794	861	904	1296	523	433	800	720	360	500	16	14
900	907	958	1017	1296	523	433	900	820	410	580	16	14
1000	1004	1067	1114	1296	523	428	865	780	390	635	16	14
1120	1114	1200	1234	2034	892	793	1024	940	470	750	16	14
1250	1256	1337	1376	2034	892	793	1228	1120	560	815	24	14

VMA+DS, VMB+DS, VMC+DS, VHA+DS axial roof fan series

Nominal size:

- VMA+DS – 560 mm -1000 mm
- VMB+DS – 355 mm -1000 mm
- VMC+DS – 355 mm -1250 mm
- VHA+DS – 355 mm -1250 mm

For extracting or blowing clean air at temperatures up to **50 °C** or **80 °C**, for horizontal or vertical installation.

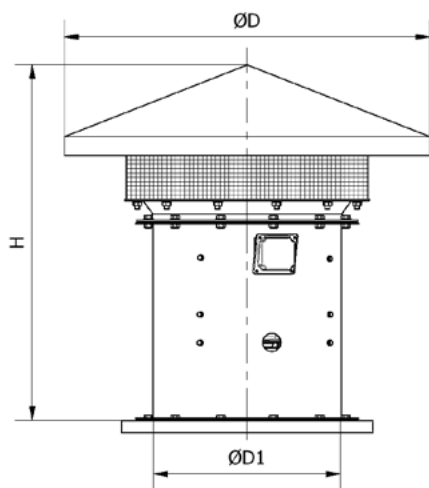
Description:

VMA+DS, VMB+DS, VMC+DS, VHA+DS smoke extraction axial fans with automatic roof cap for outdoor use for extraction.

The **VMA+DS, VMB+DS, VMC+DS, VHA+DS** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.

Nominal sizes (mm)	Vent.	ØD (mm)	ØD1 (mm)	H (mm)
355	VMB/VMC	701	356	729
	VHA			
400	VMB/VMC	782	397	763
	VHA		400	
450	VMB/VMC	871	450	784
	VHA			
500	VMB/VMC	1061	500	838
	VHA			
560	VMA/VMB/VMC	1149	557	975
	VHA			
630	VMA/VMB/VMC	1371	634	1070
	VHA			
710	VMA/VMB/VMC	1371	710	1054
	VHA			
800	VMA/VMB/VMC	1371	794	1034
	VHA			
900	VMA/VMB/VMC	1550	907	1061
	VHA			1437
1000	VMA/VMB/VMC	1700	1004	1111
	VHA			1487
1120	VMC	1900	1114	1541
	VHA			
1250	VMC	2215	1256	1668
	VHA			



VMA+DT, VMB+DT, VMC+DT, VHA+DT axial roof fan series

Nominal size:

- VMA+DT – 900 mm -1000 mm
- VMB+DT – 900 mm -1000 mm
- VMC+DT – 900 mm -1250 mm
- VHA+DT – 900 mm -1250 mm

For extracting or blowing clean air at temperatures up to **50 °C** or **80 °C**, for horizontal or vertical installation.

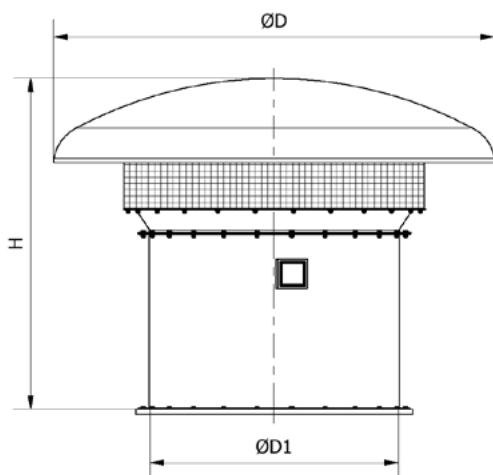
Description:

VMA+DT, VMB+DT, VMC+DT, VHA+DT smoke extraction axial fans with automatic roof cap for outdoor use for extraction.

The **VMA+DT, VMB+DT, VMC+DT, VHA+DT** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of **$\rho = 1.2 \text{ kg / m}^3$** . The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.

Nominal sizes (mm)	Vent.	ØD (mm)	ØD1 (mm)	H (mm)
900	VMA/VMB/VMC	1530	907	1400
	VHA			1776
1000	VMA/VMB/VMC	1700	1004	1470
	VHA			1846
1120	VMC	1900	1114	1680
	VHA			
1250	VMC	2125	1256	1800
	VHA			



VMA+DL, VMB+DL, VMC+DL, VHA+DL axial roof fan series

Nominal size:

- VMA+DL – 560 mm -1000 mm
- VMB+DL – 315 mm -1000 mm
- VMC+DL – 315 mm -1250 mm
- VHA+DL – 315 mm -1400 mm

For extracting or blowing clean air at temperatures up to **50 °C** or **80 °C**, for horizontal or vertical installation.

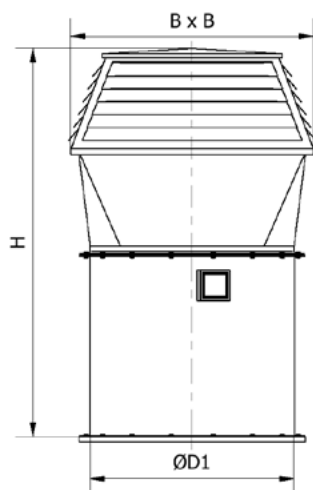
Description:

VMA+DS, VMB+DS, VMC+DS, VHA+DS smoke extraction axial fans with automatic roof cap for outdoor use for extraction.

The **VMA+DL, VMB+DL, VMC+DL, VHA+DL** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.

Nominal sizes (mm)	Vent.	ØD (mm)	ØD1 (mm)	H (mm)
355	VMB/VMC	475	356	1176
	VHA			
400	VMB/VMC	525	397	986
	VHA		400	
450	VMB/VMC	575	450	1086
	VHA			
500	VMB/VMC	635	500	1116
	VHA			
560	VMA/VMB/VMC	705	557	1241
	VHA			
630	VMA/VMB/VMC	785	634	1271
	VHA			
710	VMA/VMB/VMC	875	710	1306
	VHA			
800	VMA/VMB/VMC	975	794	1409
	VHA			
900	VMA/VMB/VMC	1075	907	1443
	VHA			1819
1000	VMA/VMB/VMC	1195	1004	1543
	VHA			1919
1120	VMA/VMB/VMC	1325	1114	1957
	VHA			
1250	VMA/VMB/VMC	1475	1256	1997
	VHA			
1400	VHA	1675	1401	2370
		1875		2770



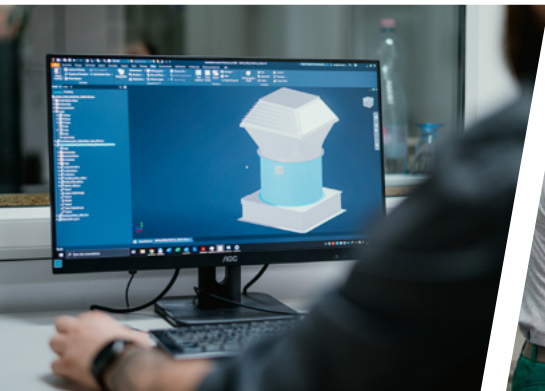
Our Company:

The name of Hungaro-Ventilator Ltd. is now completely connected to quality and expertise.

Our company was founded in 2005, now has 50 employees and manufactures smoke extraction and emergency ventilation equipment in Sopronkövesd on 6,500 m² production area.

We have more than 15 years of experience and we are one of the largest Hungarian manufacturing and exporting companies in the sector. Beside of Hungary, the additional export destinations are in EU, and we have a few partners outside the EU as well.

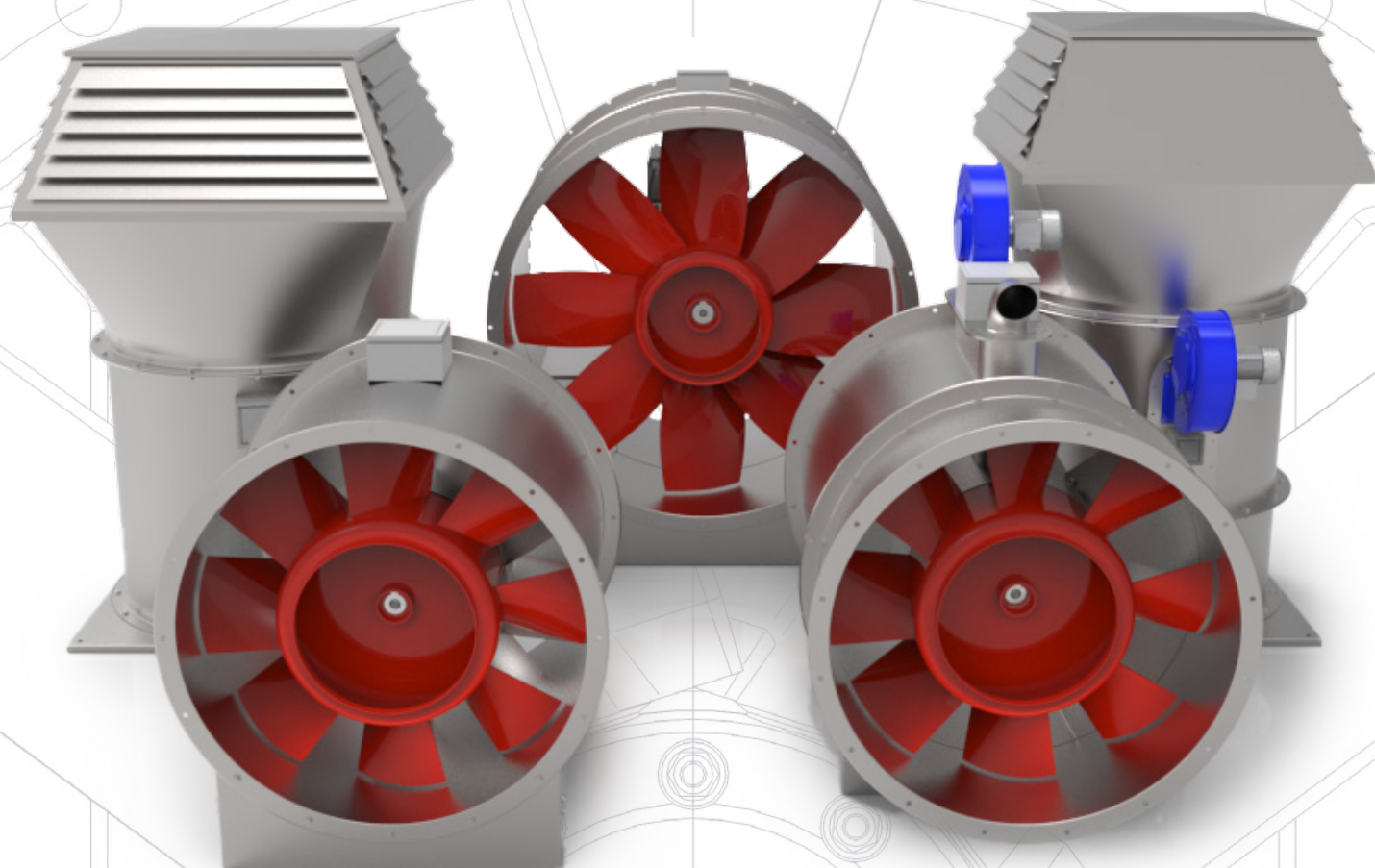
The equipments manufactured by the company, - with the exception of electric motors, - are entirely self-developed. In 2020, despite the difficulties caused by the pandemic, thousands of fans and pressure relief dampers were manufactured in our factory in Sopronkövesd.





HEAT RESISTANT FANS

BVHA/F200/F300/F400, BVHA F600,
BVMR F300/F400, BVHA/F200/F300/F400+DL, BVHA F600 +DL,
AIRJET AJU/AIR F300, BVHA JET/F300/F400



BVHA JET F200/F300/F400 jet fan

Nominal size:

315 - 1600 mm

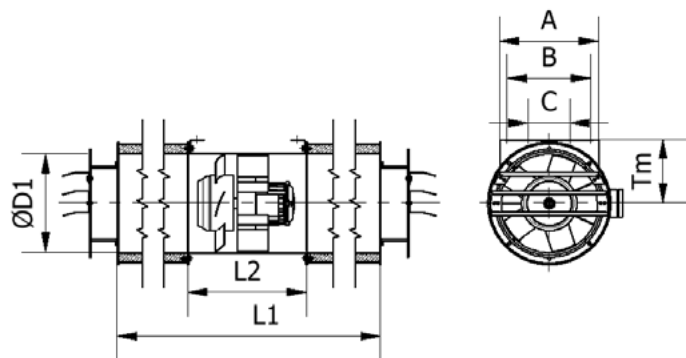
The **BVHA** series has been tested and certified according to the heat resistance class **F200** (200 °C / 120 minutes), **F300** (300 °C / 60 minutes) and **F400** (400 °C / 120 minutes) of standard **EN 12101-3**.

Description:

The **BVHA jet fan** consists of a smoke extraction axial fan and silencers on both sides. The fan is also available in unidirectional or reversible types.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard.

The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The fan is available in unidirectional or reversible design. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØD1 (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)	Tm (mm)
315	315	2426	426	315	260	130	210
355	356	2426	426	355	300	150	230
400	400	2426	426	400	340	170	255
450	450	2426	426	450	400	200	280
500	500	2426	426	500	440	220	315
560	557	2521	521	560	500	250	360
630	634	2521	521	630	560	280	405
710	710	2523	523	710	640	320	450
800	794	2523	523	800	720	360	500
900	907	2899	899	900	820	410	580
1000	1004	2899	899	865	780	390	635
1120	1114	2892	892	1024	940	470	750
1250	1256	2892	892	1228	1120	560	815
1400	1401	3040	1040	1367	1260	630	894
1600	1589	3040	1040	1550	1440	720	994

BVHA F600

smoke extraction axial fan

Nominal size:

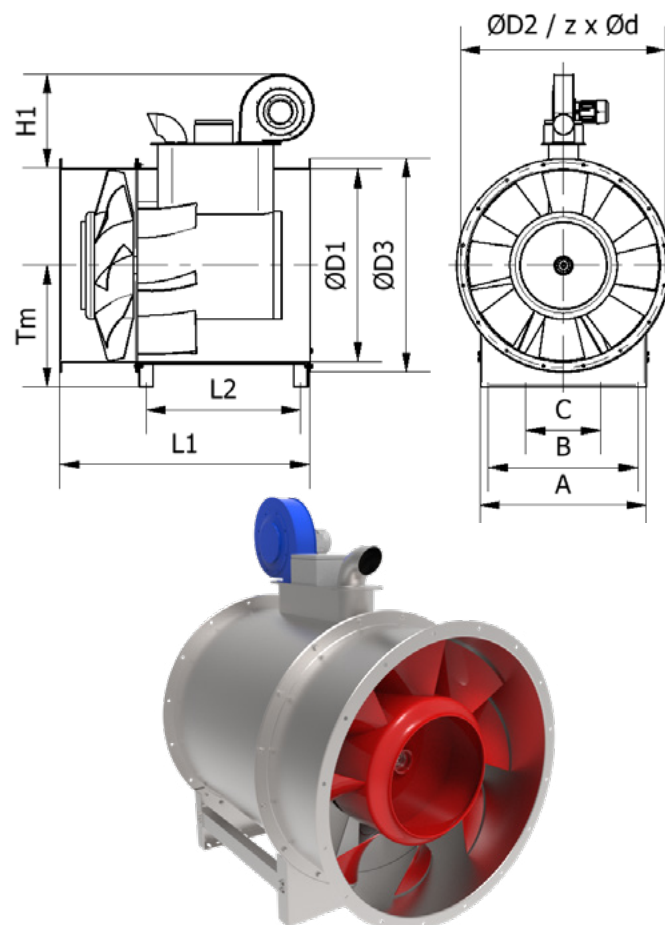
500 - 1400 mm

The **BVHA F600** heat and smoke extraction axial fan type family has been tested and certified according to the heat resistance class **F600** (600 °C / 60 minutes) of the **EN 12101-3** standard.

Description:

The **BVHA F600** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material. The electric motor is protected from high temperatures by a heat-insulated capsule. Proper cooling is provided by a separate motor cooling fan located directly on the fan housing.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØD1 (mm)	ØD2 (mm)	ØD3 (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)	Tm (mm)	z (mm)	Ød (mm)
500	500	541	580	935	600	500	440	220	315	12	12
560	557	629	667	875	566	560	500	250	360	16	14
630	634	698	744	875	556	630	560	280	405	16	14
710	710	775	820	1050	560	710	640	320	450	16	14
800	794	861	904	1050	554	800	720	360	500	16	14
900	907	958	1017	1050	553	900	820	410	580	16	14
				1300	803						
1000	1004	1067	1114	1050	553	865	780	390	635	16	14
				1300	803						
1120	1114	1200	1234	1035	540	1024	940	470	775	16	14
				1285	790						
1250	1256	1337	1376	1035	540	1228	1120	560	815	24	14
				1285	790						
1400	1401	1491	1521	1035	538	1367	1260	630	894	24	14
				1285	788						

BVMR Reversible smoke extraction axial fan

Nominal size:

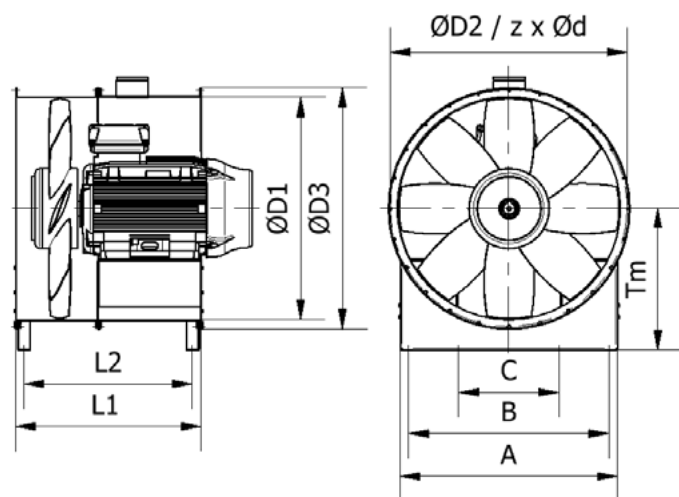
710 - 2500 mm

The **BVMR** series has been tested and certified according to the heat resistance class **F300** (300 °C / 60 minutes) and **F400** (400 °C / 120 minutes) of standard **EN 12101-3**.

Description:

The **BVMR** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØD1 (mm)	ØD2 (mm)	ØD3 (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)	Tm (mm)	z (pc)	Ød (mm)
710	710	775	820	649	558	710	640	320	450	16	14
800	794	861	904	649	552	800	720	360	500	16	14
900	907	958	1017	652	553	900	820	410	580	16	14
1000	1004	1067	1114	652	553	865	780	390	635	16	14
				902	803						
1120	1114	1200	1234	892	787	1024	940	470	750	16	14
1250	1256	1337	1376	1040	933	1228	1120	560	815	24	14
1400	1401	1491	1521	1168	1059	1367	1260	630	894	24	14
1600	1589	1663	1709	1171	1061	1550	1440	720	994	24	14
1800	1801	1856	1920	1171	1061	1725	1560	780	1094	24	14
2000	2000	2073	2120	1171	1061	2000	1840	920	1256	32	14

BVHA F200/F300/F400 smoke extraction axial fan series

Nominal size:

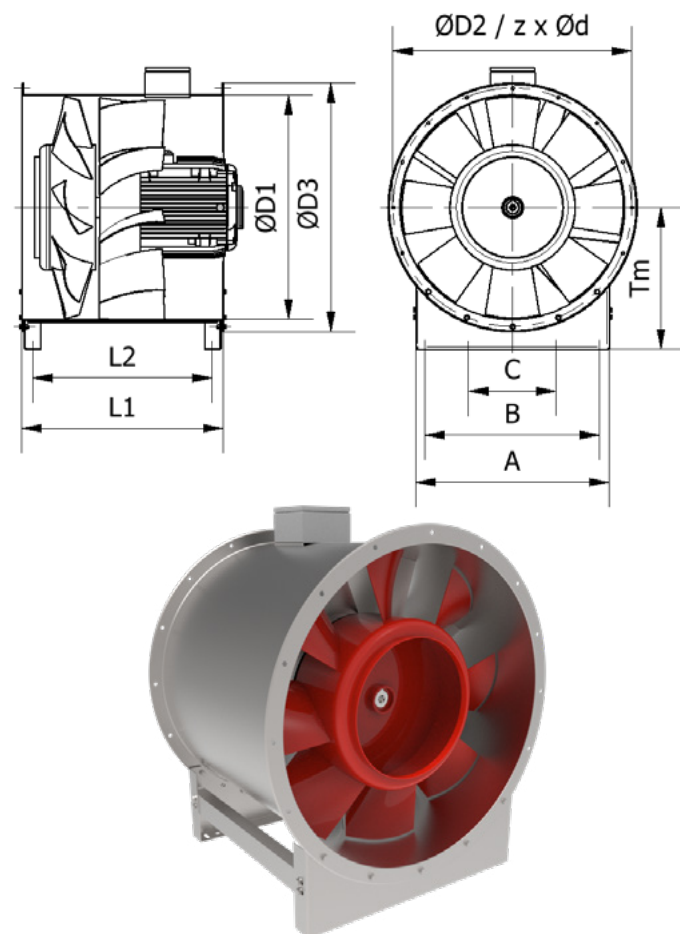
315 - 1600 mm

The **BVHA** series has been tested and certified according to the heat resistance class **F200** (200 °C / 120 minutes), **F300** (300 °C / 60 minutes) and **F400** (400 °C / 120 minutes) of standard **EN 12101-3**.

Description:

The **BVHA** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØD1 (mm)	ØD2 (mm)	ØD3 (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)	Tm (mm)	z (mm)	Ød (mm)
315	315	356	395	426	361	315	260	130	210	8	12
355	356	395	436	426	361	355	300	150	230	8	12
400	400	438	480	426	356	400	340	170	255	12	12
450	450	487	530	426	356	450	400	200	280	12	12
500	500	541	580	426	351	500	440	220	315	12	12
560	557	629	667	521	442	560	500	250	360	16	14
630	634	698	744	521	432	630	560	280	405	16	14
710	710	775	820	523	433	710	640	320	450	16	14
800	794	861	904	523	427	800	720	360	500	16	14
900	907	958	1017	899	802	900	820	410	580	16	14
1000	1004	1067	1114	899	802	865	780	390	635	16	14
1120	1114	1200	1234	892	787	1024	940	470	750	16	14
1250	1256	1337	1376	892	787	1228	1120	560	815	24	14
1400	1401	1491	1521	1040	933	1367	1260	630	894	24	14
1600	1589	1663	1709	1040	932	1550	1440	720	994	24	14

Contact:

Phone: +36 99 536 072 / Fax: +36 99 536 073 / E-mail: sales@hungaro-ventilator.hu

BVHA F200/F300/F400 smoke extraction axial fan series

Nominal size:

355 - 1400 mm

The **BVHA** series has been tested and certified according to the heat resistance class **F200** (200 °C / 120 minutes), **F300** (300 °C / 60 minutes) and **F400** (400 °C / 120 minutes) of standard **EN 12101-3**.

The snow load class of the roof fan is SL 1000.

Description:

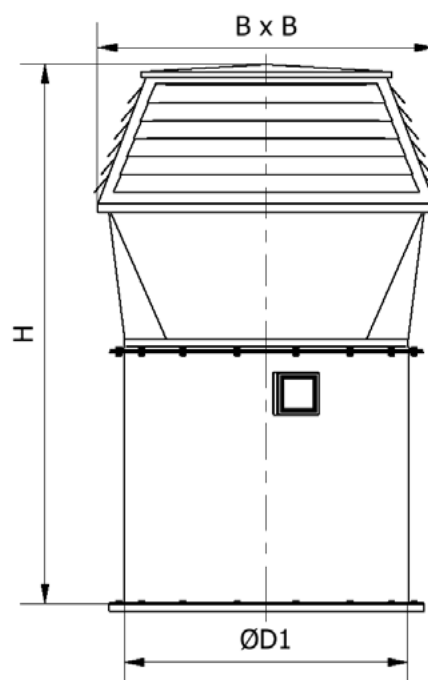
BVHA + DL smoke extraction axial fan combined with automatic roof cap for outdoor use for extraction.

The **BVHA** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØB (mm)	ØD1 (mm)	H (mm)
355	475	356	1176
400	525	400	986
450	575	450	1086
500	635	500	1116
560	705	557	1241
630	785	634	1271
710	875	710	1306
800	975	794	1409
900	1075	907	1819
1000	1195	1004	1919
1120	1325	1114	1957
1250	1475	1256	1997
1400	1675	1401	2370
	1875		2770



BVHA F600+DL smoke extraction axial fan

Nominal size:

500 - 1400 mm

The **BVHA F600+DL** heat and smoke extraction axial fan type family has been tested and certified according to the heat resistance class **F600** (600 °C / 60 minutes) of the **EN 12101-3** standard.

The snow load class of the roof fan is SL 1000.

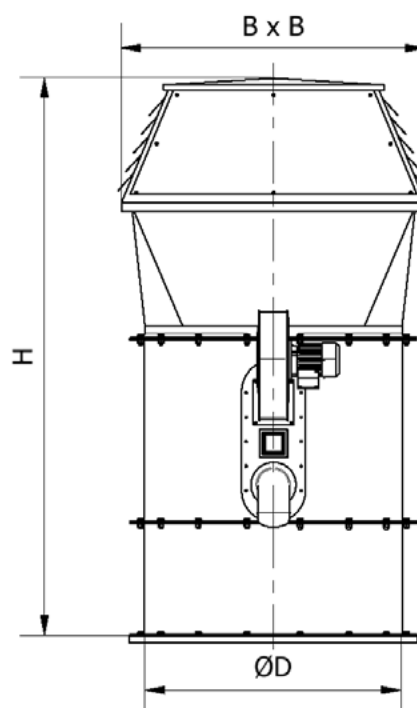
Description:

The **BVHA F600+DL** fan's case is made of rolled and welded sheet steel. The surface is protected against corrosion by hot-dip galvanizing. The impeller is made of welded sheet steel with a painted surface treatment. An outlet guide vane is located in the fan's case that ensure high fan efficiency. The ventilation connection of the fan is made on both sides of the fan's case to a flange made of its own material. The electric motor is protected from high temperatures by a heat-insulated capsule. Proper cooling is provided by a separate motor cooling fan located directly on the fan housing.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.



Nominal sizes (mm)	ØB (mm)	ØD1 (mm)	H (mm)
500	635	500	1625
560	705	557	1595
630	785	634	1625
710	875	710	1833
800	975	794	1936
900	1075	907	1970
			2220
1000	1195	1004	2070
			2320
1120	1325	1114	2100
			2350
1250	1475	1256	2140
			2390
1400	1675	1401	2365
			2615
	1875		2765
			3015



AIRJET AJU / AJR F200 / F300 jet fan

Nominal size:

280 - 560 mm

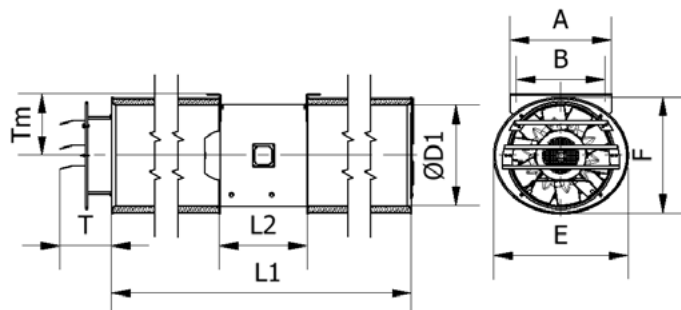
The **AIRJET** series has been tested and certified according to the heat resistance class **F200** (200 °C / 120 minutes and **F300** (300 °C / 60 minutes)) of standard **EN 12101-3**.

Description:

The **AIRJET AJU / AJR** jet fan consists of a smoke extraction axial fan and silencers on both sides. The fan is also available in unidirection - AJU types - or reversible - AJR types.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan's case has a space-saving oval design from which the fan unit can be slid out through the inlet opening. The direction of the air flow can be adjusted to the installation conditions by means of baffles on the pressure side of the fan. The fan's impeller consists of corrosion-resistant cast aluminum elements. The profile blades mounted in the impeller hub can be infinitely adjusted in the standing position. The impeller is secured to the shaft of the electric motor with an easy-to-mount **TAPER-LOCK** clamping sleeve.

The ventilation characteristics of the fan comply with the **EN ISO 5801** standard. The fan is available in unidirectional or reversible design. The power of the electric motor is rated for clean air operation with a density of $\rho = 1.2 \text{ kg / m}^3$. The impeller is balanced according to **EN ISO 1940-1** standard **G 6.3**. The motor is electrically wired into a heat-resistant terminal box on the fan's case by heat-resistant cables.

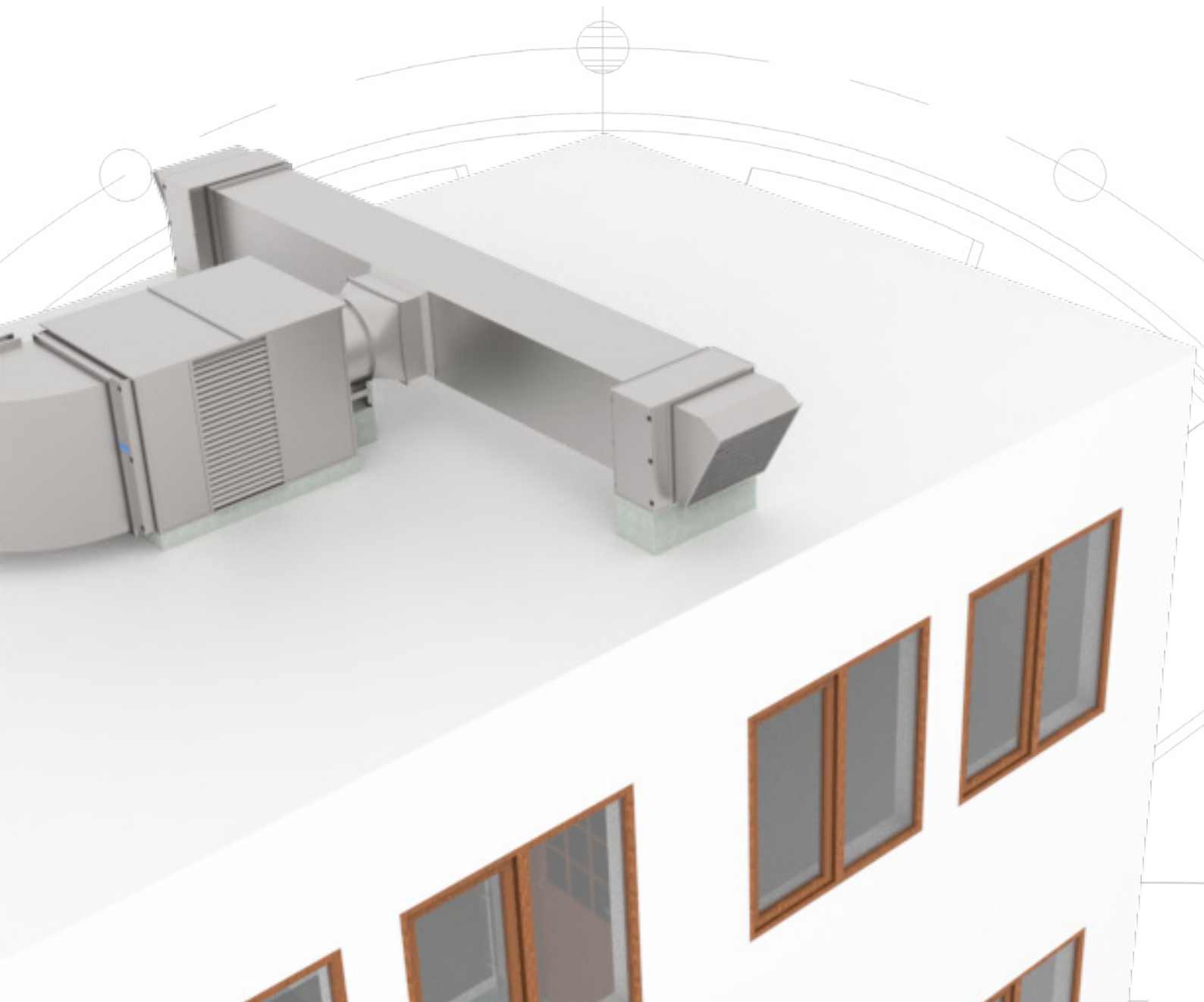


Nominal sizes (mm)	ØD1 (mm)	L1 (mm)	L2 (mm)	A (mm)	B (mm)	E (mm)	F (mm)	T (mm)	Tm (mm)
280	280	2272	306	326	276	410	310	197	156
315	315	2312	346	326	276	452	380	199	203
355	356	2312	346	355	305	490	420	199	224
400	400	2312	346	400	350	532	462	204	242



STAIRWELL OVERPRESSURE RELEASE SYSTEM

LPH FBE stairwell fire wall diffuser, LPH-ZSTH'+ and LPH-ZSTH'- staircase overpressure relief devices, LPH-BD staircase overpressure supply device, ZSTH-ALT alternative separator unit, LPH-SZSZ overpressure relief ventilation box



LPH FBE stairwell fire wall diffuser

Nominal size:

500; 560; 630; 710 mm

For blowing clean air at temperatures up to **50 °C** or **80 °C**, for horizontal installation.

Description:

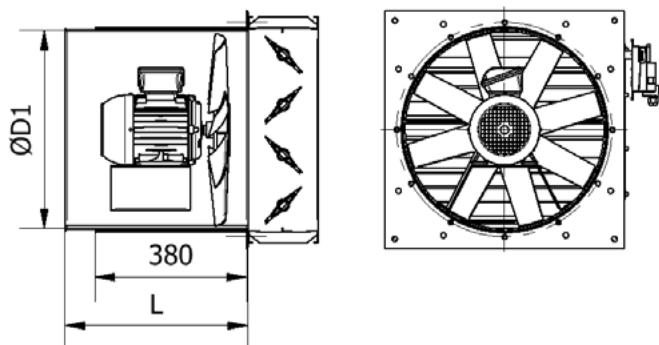
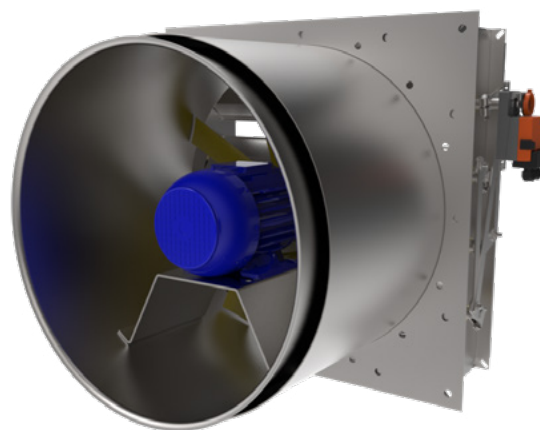
The **LPH FBE** diffuser is a building ventilation unit for stairwells, which automatically ensures the smoke-free operation of fresh air and provides overpressure in the stairwell in case of fire.

Smokefree stairwells can be achieved by blowing outside air and maintaining overpressure.

If the diffuser is located in the side wall of the stairwell, **LPH FBE** can be applied, which is an integral part of the diffuser fan and a shut-off motorized damper device. The device is placed in a wall opening, in which the mounting is made easy by the integrated mounting frame.

In the case of fire, the unit's motorized damper opens spring-loaded and the fan provides the constant amount of air needed to overpress the stairwell. For larger air volumes, several **LPH FBE** units installed in parallel can be used as well.

Nominal sizes (mm)	ØD1 (mm)	L (mm)
500	500	460
560	557	443
630	634	443
710	710	500



LPH-ZSTH'+ and LPH-ZSTH'- staircase overpressure relief devices

LPH-ZSTH '+' and LPH-ZSTH'- are building ventilation units for stairwells, which automatically ensure smoke-free operation by fresh air and provides overpressure in the stairwell in case of fire.

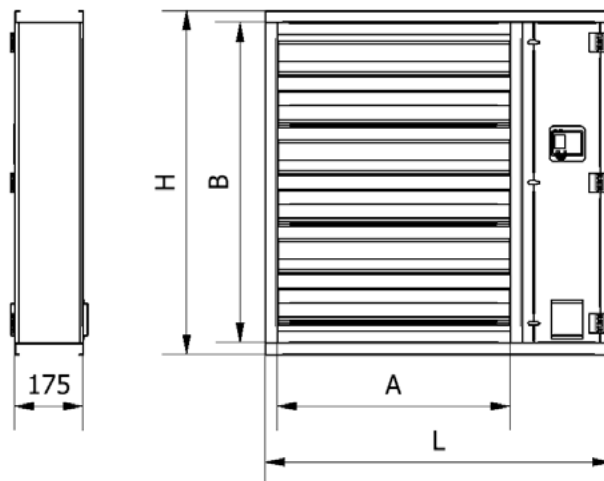
Smokeless stairwells can be achieved by blowing in fresh air and maintaining overpressure.

LPH-ZSTH '+' and LPH-ZSTH'- are automatic motor-operated devices that control the overpressure of the stairwell in occasion of fire. The overpressure of the stairwell related to the outside space is continuously measured by pressure sensors and the built-in automation adjusts the damper. In the event of a fire, sudden changes in pressure in the stairway (caused by opening and closing doors) are effectively compensated by the immediate response of the device. The devices are factory-set to maintain an overpressure of **dP = 50Pa**, which must be fine-tuned during commissioning, depending on the installation conditions.

LPH-ZSTH'- is a device that regulates the overpressure of the stairwell by releasing excess air, which is placed in the side wall of the staircase or its ceiling, possibly in a rooftop - type **LPH-SZSZ**. Sensors for measuring internal and external pressure are also located in the unit, but also can be located outside the unit if required. For weather protection it is recommended to use only a rain hood or low-resistance external weather louvre - type **EFZS-2.0** - as an accessory. In case of higher air flow, the parallel operation of several devices can be used. In case of cooperation of two devices, the built-in automation of the MASTER machine controls also the SLAVE device. In the case of a combination of more than two devices, the control unit is placed in a separate cabinet box, so it can operate maximum 8 SLAVE machines at the same time.

LPH-ZSTH '+' is a device for controlling supply air volume required for overpressure, which is located - in the supply air system - on the discharge side of the supply fan. Air above the amount of air required to maintain overpressure is released by using a **BD** supply box. Thus, the fan, **BD** and **LPH-ZSTH '+'** form one ventilation system as a staircase overpressure relief system.

A (mm)	B (mm)	L (mm)	H (mm)
195	800-1220	455	860-1280
295	800-2015	555	860-2075
395	800-2015	655	860-2075
495	800-2015	755	860-2075
595	800-2015	855	860-2075
695	800-2015	955	860-2075
795	800-2015	1055	860-2075
895	800-2015	1155	860-2075
995	800-2015	1255	860-2075
1095	800-2015	1355	860-2075
1195	800-2015	1455	860-2075
1295	800-2015	1555	860-2075
1395	800-2015	1655	860-2075
1495	800-2015	1755	860-2075
1595	800-2015	1855	860-2075



LPH-BD staircase overpressure supply device

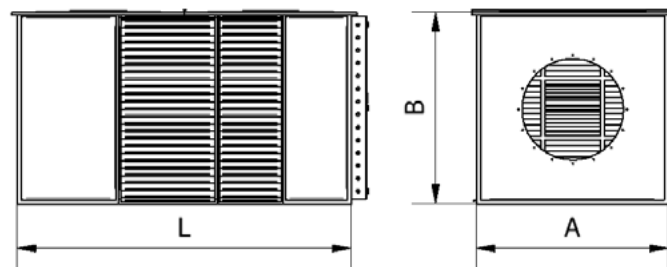
The **LPH-BD** supply equipment is a building ventilation unit for stairwells, which automatically ensures smoke-free operation of fresh air and provides overpressure in the stairwell in case of fire.

Smoke free operation of stairwells can be achieved by blowing fresh air and ensuring overpressure.

If fresh air is taken on the roof, and there is no other way to release the overpressure in the stairwell, the overpressure can only be achieved by controlling the amount of fresh air supply of the fan.

The part above to the overpressure required air will be released to the outdoor by the overpressure relief louvres on both sides of **LPD-BD**.

The **LPH-BD** supply device together with the supply fan and **LPH-ZSTH '+'** overpressure supply device can be used as a ventilation system that maintains the right overpressure by controlling the supply air volume.



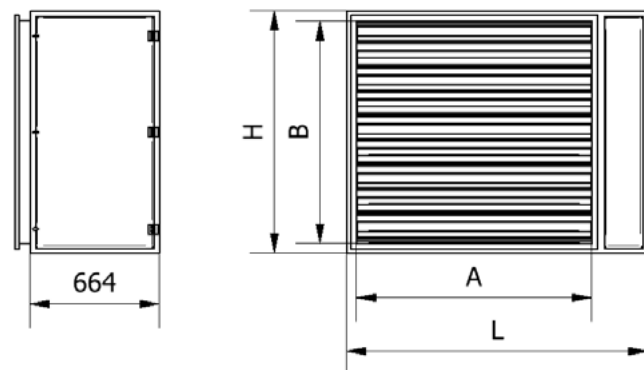
Type	Nominal sizes (mm)	V _{max} (m ³ /h)	A (mm)	B (mm)	L (mm)
BD2.1	800-1000	21000	1280	1280	2640
BD3.1	900-1120	27500	1585	1585	2640
BD3.2	900-1120	33000	1585	1585	2965
BD4.1	1000-1250	33000	1890	1890	2640
BD4.2	1000-1250	43000	1890	1890	2965
BD4.3	1000-1250	48000	1890	1890	3290
BD5.1	1120-1400	39000	2195	2195	2640
BD5.2	1120-1400	51500	2195	2195	2965
BD5.3	1120-1400	65000	2195	2195	3290
BD6.1	1250-1600	45000	2500	2500	2640
BD6.2	1250-1600	59000	2500	2500	2965
BD6.3	1250-1600	75000	2500	2500	3290

ZSTH-ALT alternative separator unit

ZSTH-LPH is a building ventilation unit for stairwells, which automatically ensures the smoke-free operation of fresh air and provides overpressure in the stairwell in case of fire. If fresh air is taken on the roof, two air intakes are placed on opposite sides of the roof to ensure an alternative smoke free operation.

If one of the intakes is saturated with smoke of the building fire, it will be immediately shut off by the integrated smoke detection system. At the same time, it opens the air intake on the other side, thus automatically ensuring that the smoke free fresh air into the stairwell.

The equipment consists of a MASTER and a SLAVE unit, which must be wired together after installation. The built-in smoke sensors detect smoke in the air even when the unit is closed, ensuring smoke-free air inlet even if the wind direction changes.



A (mm)	B (mm)	L (mm)	H (mm)
562	562	904	664
562	887	904	989
562	1152	904	1254
562	1457	904	1559
562	1762	904	1864
887	562	1229	664
887	887	1229	989
887	1152	1229	1254
887	1457	1229	1559
887	1762	1229	1864
1212	562	1554	664
1212	887	1554	989
1212	1152	1554	1254
1212	1457	1554	1559
1212	1762	1554	1864
1537	562	1879	664
1537	887	1879	989
1537	1152	1879	1254
1537	1457	1879	1559
1537	1762	1879	1864



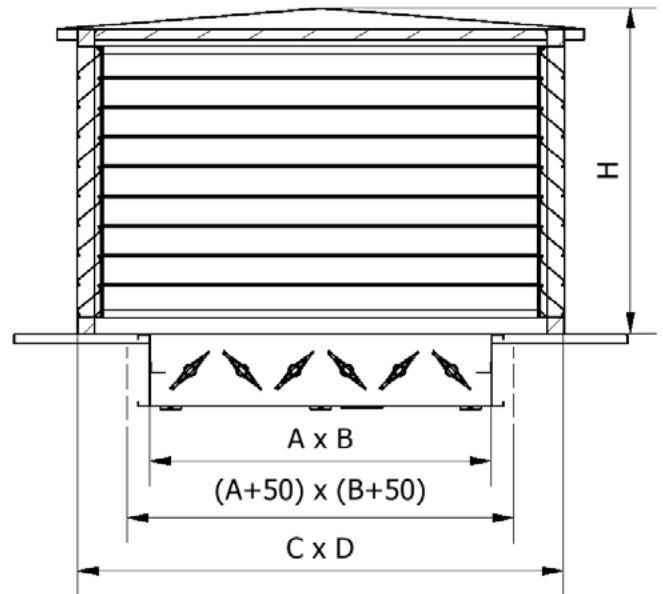
LPH-SZSZ overpressure relief ventilation box

LPH-SZSZ is an overpressure relief ventilation box, which automatically ensure smoke-free operation by fresh air and provides overpressure in the stairwell in case of fire.

Smokeless stairwells can be achieved by blowing in fresh air and maintaining overpressure.

If it is possible to drain the excess pressure through the roof, this can be done using **LPH-SZSZ**. On each of the four sides of the **LPH-SZSZ** unit mounted a weather protection louvre.

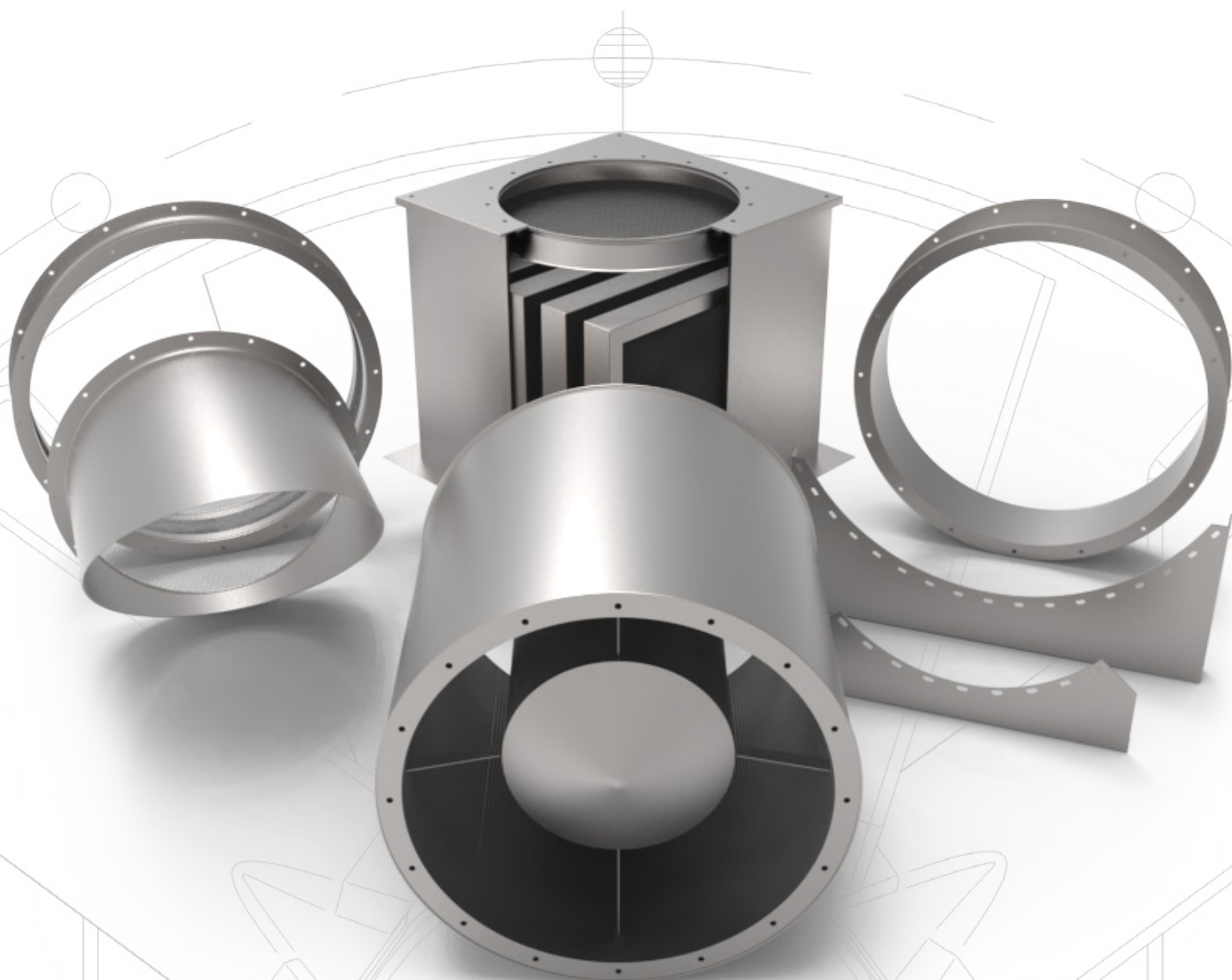
An **LPH-ZSTH** "-"- staircase overpressure relief device is mounted in the lower at the bottom of the structure. The cabinet can also be installed on a roof socket or slab breakthrough.



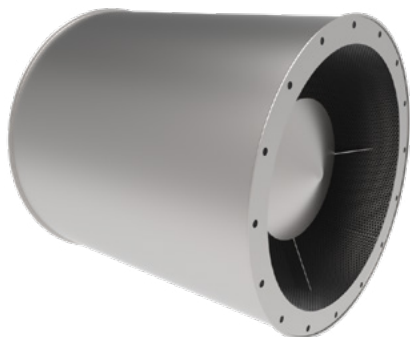


ACCESSORIES

Tube Silencer, Diffuser, Case-extension, Discharge piece, Flat flange, Flexible Canvas, Inlet cone, Protection grill, Motorised damper dom, Rain Hood, Heat-resistant vibration absorber, Mounting Feet, Roof Silencer Socket, Roof Socket, Bracket for vertical installation, Automatic shut-off damper for vertical use, Automatic shut-off damper for horizontal use, Lamellar Roof Cup



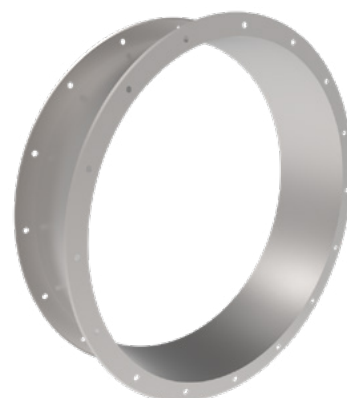
Tube Silencer



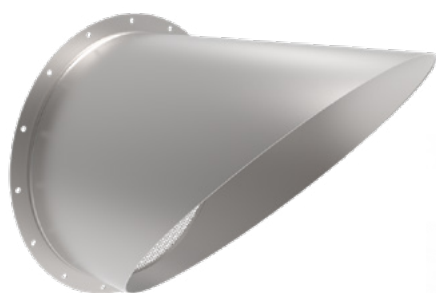
Diffuser



Case-extension



Discharge piece



Flat flange



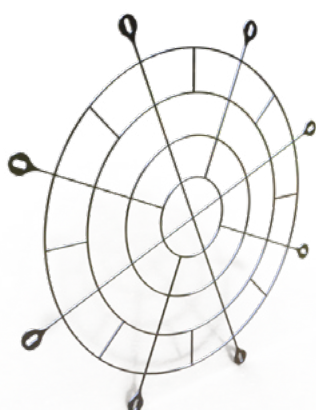
Flexible Canvas



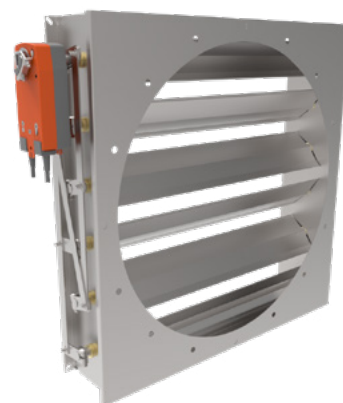
Inlet cone



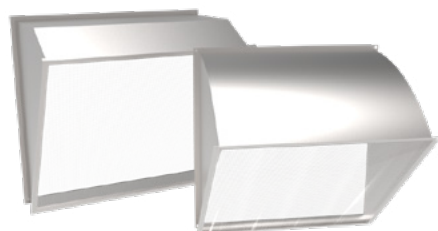
Protection grill



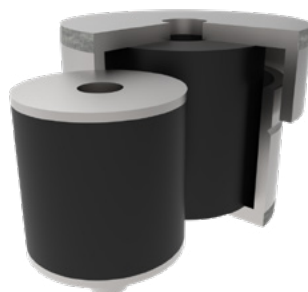
Motorised damper dom



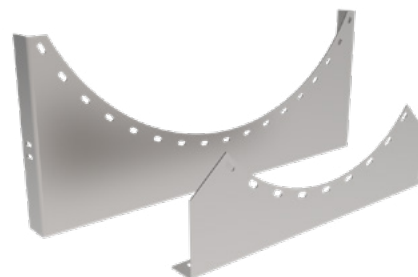
Rain Hood



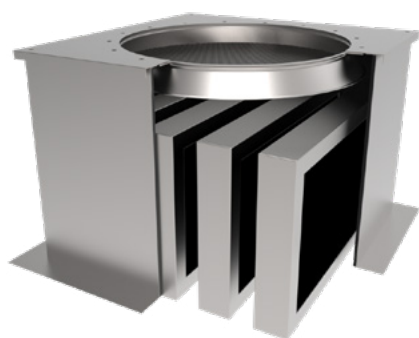
Heat-resistant vibration absorber



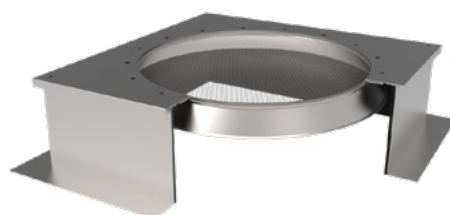
Mounting Feet



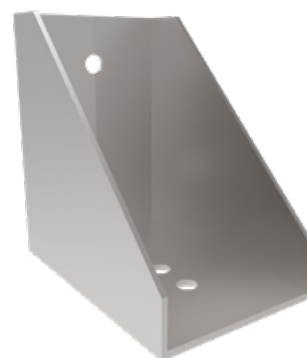
Roof Silencer Socket



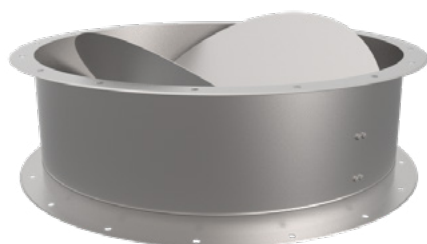
Roof Socket



Bracket for vertical installation



Automatic shut-off damper for vertical use



Automatic shut-off damper for horizontal use

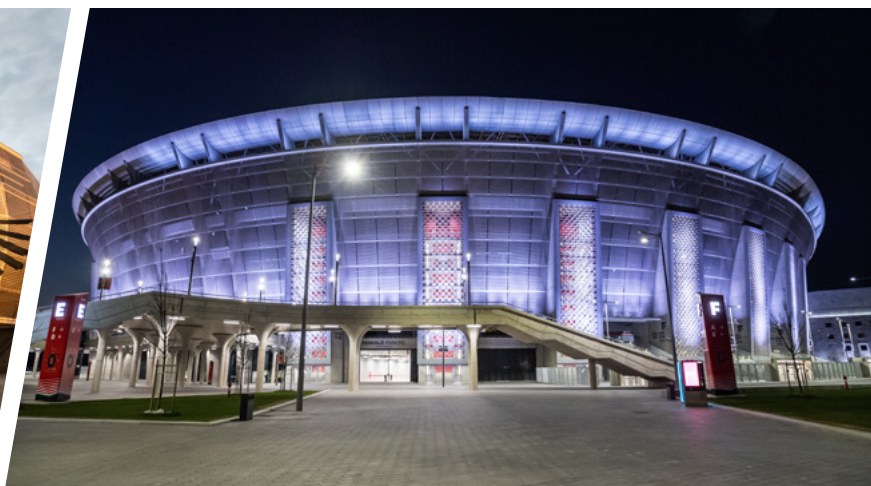
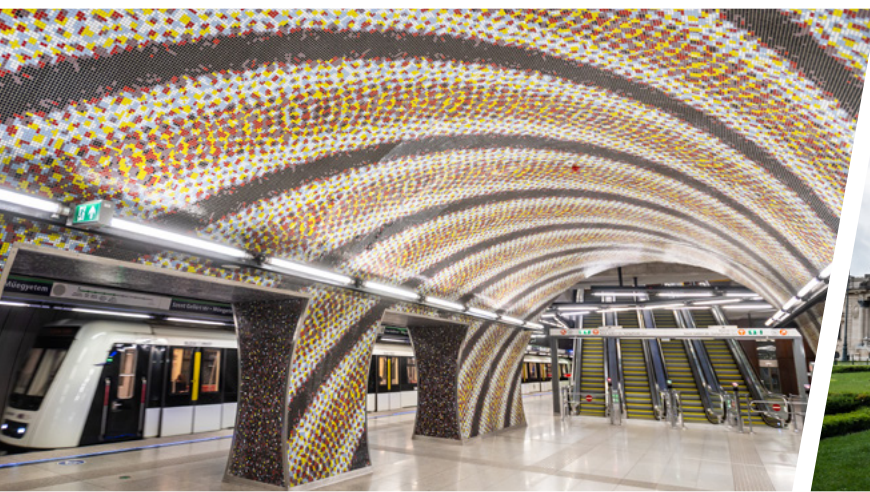


Lamellar Roof Cup



They chose us:

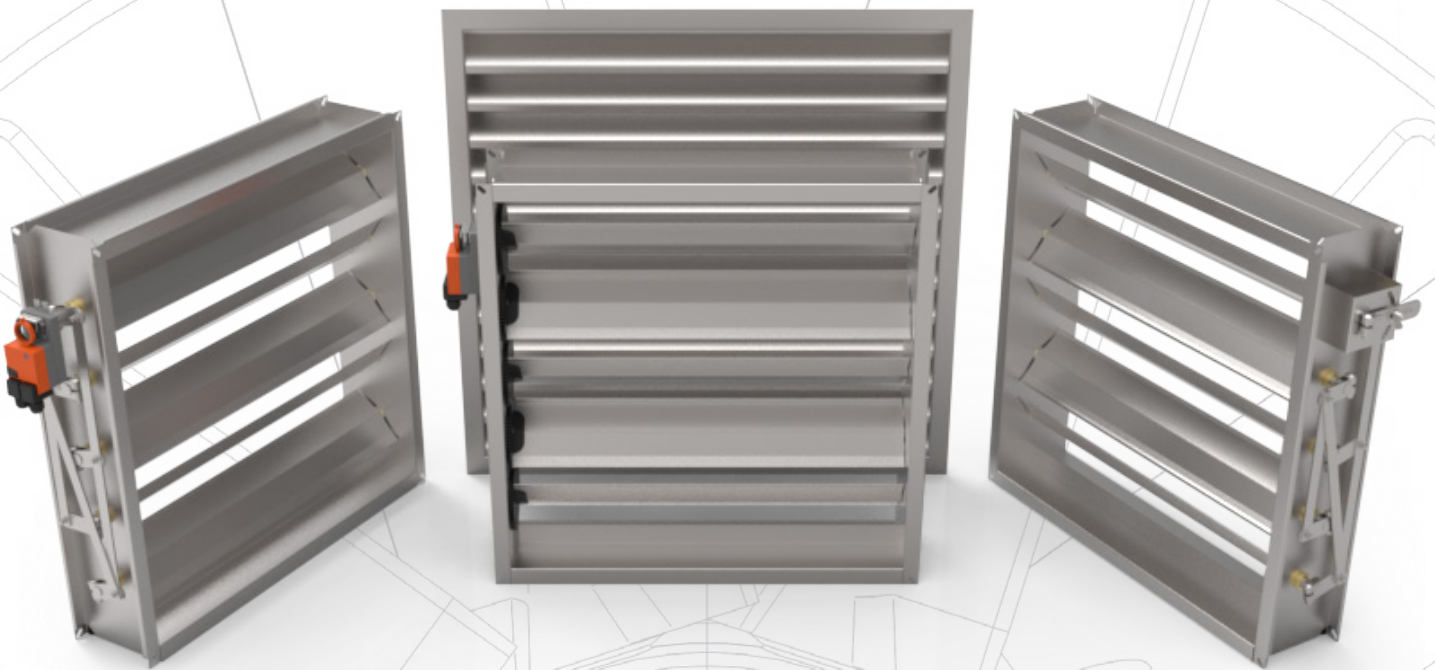
- ✓ Elysium Residential park
- ✓ M4-es Metro Budapest
- ✓ Széchenyi Fürdő
- ✓ Groupama Aréna
- ✓ Puskás Stadion
- ✓ Szépművészeti Múzeum
- ✓ MTA





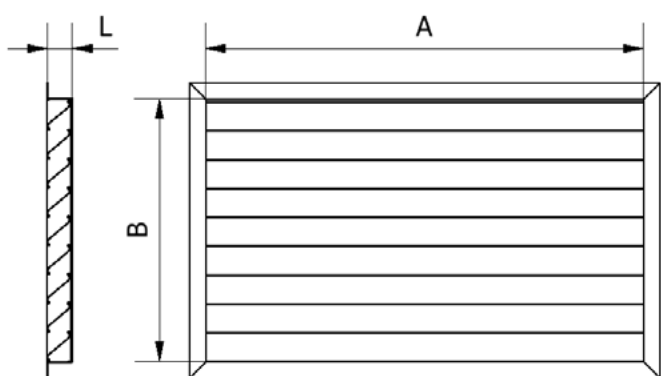
DAMPERS

External weather louvres, Motorized gear dampers,
Heat-resistant, motorized dampers with push rod,
Hand-operated gear control dampers,
Hand-operated control dampers with push rod



EFZS external weather louvres

EFZS external weather louvres provide rain protection for gravity or mechanically ventilated ventilation duct systems. Rain protection is provided by stiffened lamella profiles mounted at a fixed angle in the housing made of special galvanized profile. The corrosion resistance of the structure is ensured by the completely weld-free manufacturing technology. It is made with a plastic-coated metal bird protection mesh as standard, but can also be ordered with a galvanized-coated metal safety net or a metal insect protection net.



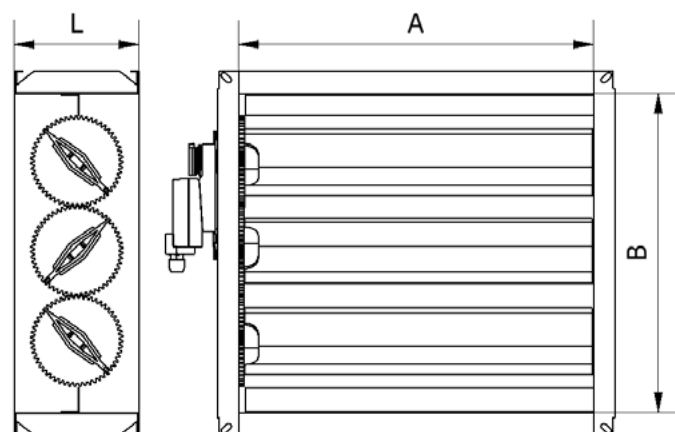
ZSF, ZSFG, ZSAFG, ZSAFLT, ZST, ZSTLT, ZSTLL, ZSTH, ZSTHE, ZSTG types of multi-leaf dampers for control or shut-off

The dampers have a regulating or closing function in gravity or mechanically ventilated ventilation duct systems. Low-leakage, three-width, hollow-shaped, rigid aerofoiled blade profiles built into the galvanized sheet case can move in parallel or in opposite directions. They are driven by a gear or external linkage. They can be made with a manual adjusting device or by electric actuator. The lamellas are made of galvanized sheet or **1.4507** stainless steel. The case's material can also be **1.4301** or **1.4507** stainless steel. The bearings are made of plastic, Teflon or bronze. The larger dampers are made in a splitted design with a clutch drive. Their heat resistance is **90 °C** by default, but in some models, it can be **250 °C** or **400 °C**. Available in standard sizes and many intermediate sizes.

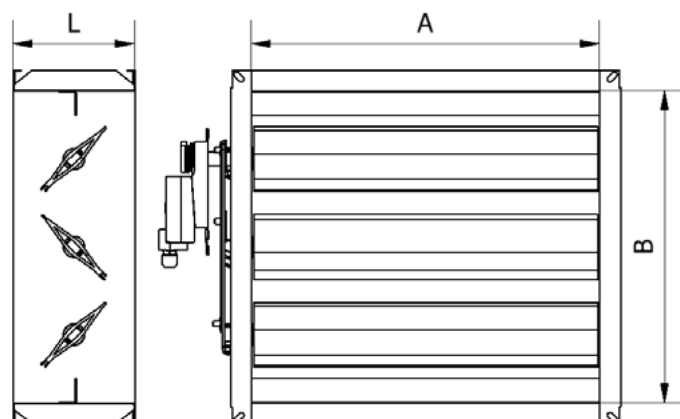
Our rubber-sealed dampers also meet the highest airtightness class.



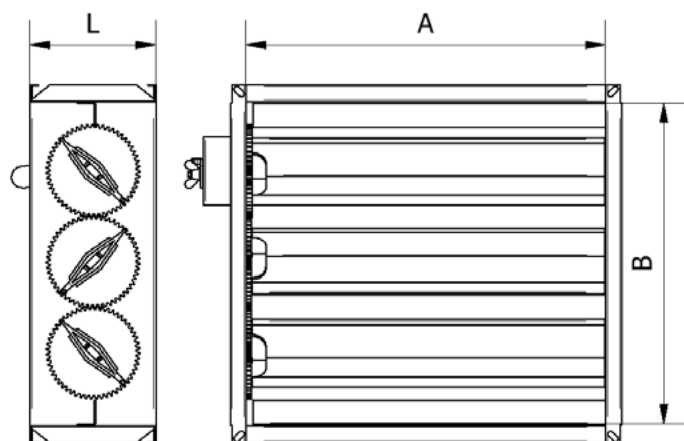
Motorized gear dampers



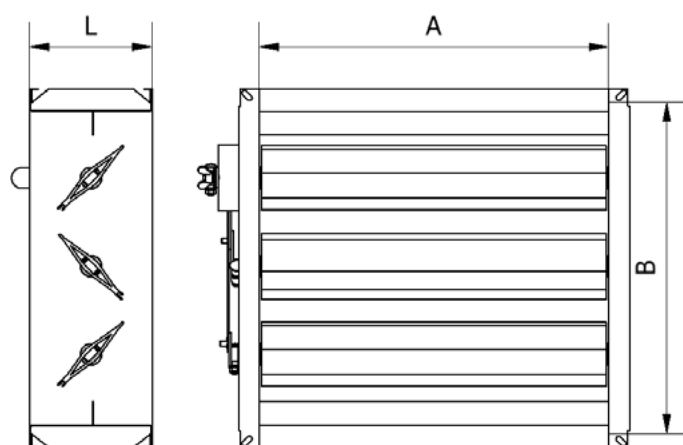
Heat-resistant, motorized dampers with push rod



Hand-operated gear control dampers



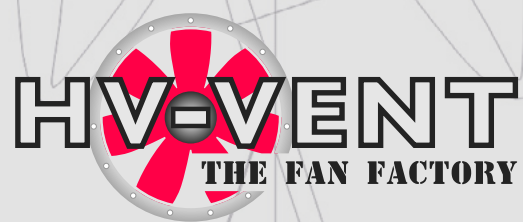
Hand-operated control dampers with push rod



Why choose us?

- ✓ We believe in the power of quality: due to the reliability of our products, the number of complaints is minimal
- ✓ Adherence to the delivery deadline is a basic requirement for the company
- ✓ Our products have outstanding price
- ✓ In addition to design and installation expertise, we also have the appropriate manufacturing tools
- ✓ Our products meet all comfort and technological, air-conditioning requirements, as well as modern, energy-saving and aesthetic
- ✓ The product innovation is continuous
- ✓ Thanks to the large stock, we can ensure a short delivery time
- ✓ Our excellent and recognized professionals are available to our clients
- ✓ All equipment's accessories are self-manufactured
- ✓ Our unique VentiCalc fan selection software for our business partners is connected to the main manufacture software, so there is no unnecessary lead time, thus the production time is shortened





www.hungaro-ventilator.hu