GERHMAN

TECHNICAL CATALOGUE / ENGLISH



Polymer Ventilation Systems

PP ducts, airflow control, grilles and fans

LABORATORY & PROCESS EXTRACTION

GERHMAN.COM

2026 / EDITION R18

THE COMPLETE LABORATORY PACKAGE

From individual products to a connected system.



01 PP ducts & fittings

Connect extraction points to the main duct route.

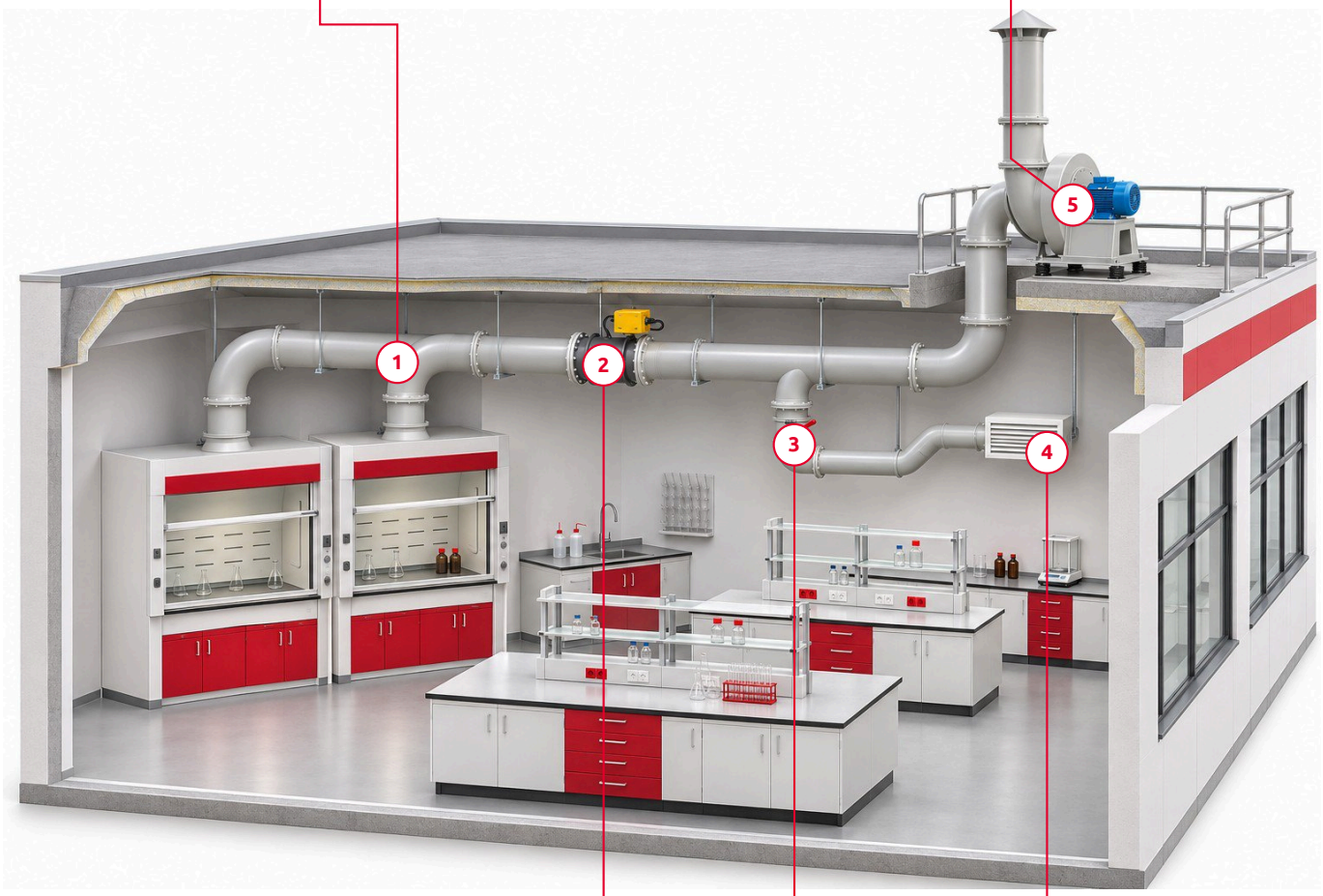
PRODUCTS 9-27



05 PP & polymer fans

Provide the selected airflow and pressure.

PRODUCTS 93-189





02 PP VAV

Regulate airflow to the control setpoint.

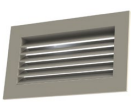
PAGES 88-92



03 PP dampers

Balance or isolate the selected branch.

PAGES 28-41



04 PP grilles

Connect room air to the duct system.

PAGES 56-61

PRODUCT OVERVIEW

What the project needs. What Gerhman supplies.



01 PP ducts & accessories

A connected extraction route

Straight ducts, bends, branches, reducers and compatible joints, selected around the layout and chemical exposure.

Size • material grade • connections • supports

PRODUCT PAGES 9-27



02 PP VAV units

Controlled variable airflow

GRVT-R-EXN variable air volume regulation, coordinated with the selected control system and required operating range.

Airflow range • pressure • controls • EX configuration

PRODUCT PAGES 88-92



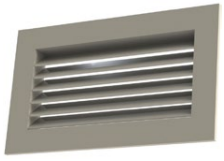
03 PP dampers & air valves

Branch balancing and isolation

Manual or actuated airflow components with connection geometry and operating function selected for the system.

Duty • operation • seals • leakage requirement

PRODUCT PAGES 28-41



04 Grilles & gratings

Room-to-duct interfaces

PP gratings and project-specific grille designs.

Airflow • opening size • mounting • cleaning access

PRODUCT PAGES 56-61



05 PP & polymer fans

The required extract duty

Duct, laboratory, radial and roof fans, selected by duty point, air-contact materials, drive and installation conditions.

Airflow • pressure • chemistry • motor • noise

PRODUCT PAGES 93-189

Additional process components include hoods, flexible connections, silencers, demisters and gas washers. Add these where the process design requires them; see the index.

CATALOGUE INDEX

Explore the complete range

DUCTWORK & PROCESS COMPONENTS

System overview	2
Product overview	3
Materials and production	5
Circular and rectangular ducts	9
Sliding elements	12
Reducers and transitions	13
Bends and branch outlets	20
Measurement and access points	26
Dampers and air valves	28
Extraction hoods	42
Roof terminals & condensate housings	44
Flanges and fabrication	52
Flexible fan connections	54
Grilles and outlet cowls	56
Linear bar grille	57
Filtered return-air grille	58
PP open-grid panels	61
Special fittings and silencers	62
Demisters	64
Gas washers	67
Polymer heat exchangers	69
Flexible ducts	77
Flexible duct chemical resistance	83

AIRFLOW CONTROL & FANS

PP VAV - EX version	88
VAV dimensions	89
VAV flow selection & installation	90
VAV controls & ordering	91
VAV acoustic performance	92
PP & polymer fans - overview	93
Fan materials & configuration	94
Fan family guide	96
Duct fans	97
Laboratory fans	103
Low-pressure radial fans	110
Medium-pressure radial fans	127
High-pressure radial fans	138
High-pressure H2 fans	151
Roof fans	164
Fan acoustic data	178
Fan control cabinets	187
Fan selection schedule	189
Project support & contact	190

MATERIALS AND PRODUCTION

Introduction



Gerhman offers a coordinated range of polymer ductwork and airflow components for laboratory and process extraction. The range brings together straight ducts, fittings, dampers and equipment connections. Material and construction are selected to suit the conveyed medium, operating temperature and installation conditions.



APPLICATIONS
Laboratories; chemical processing; medical facilities; cleanrooms; surface treatment, including etching and electroplating; and compatible chlorine production processes. Suitability depends on the selected material grade and duty.



Thermoplastic ductwork combines low weight with corrosion resistance in compatible environments. Selection should consider installation, maintenance and service conditions as well as initial cost.

Grey polypropylene is the principal material in this range. Alternative polymers and grades are available subject to project selection.

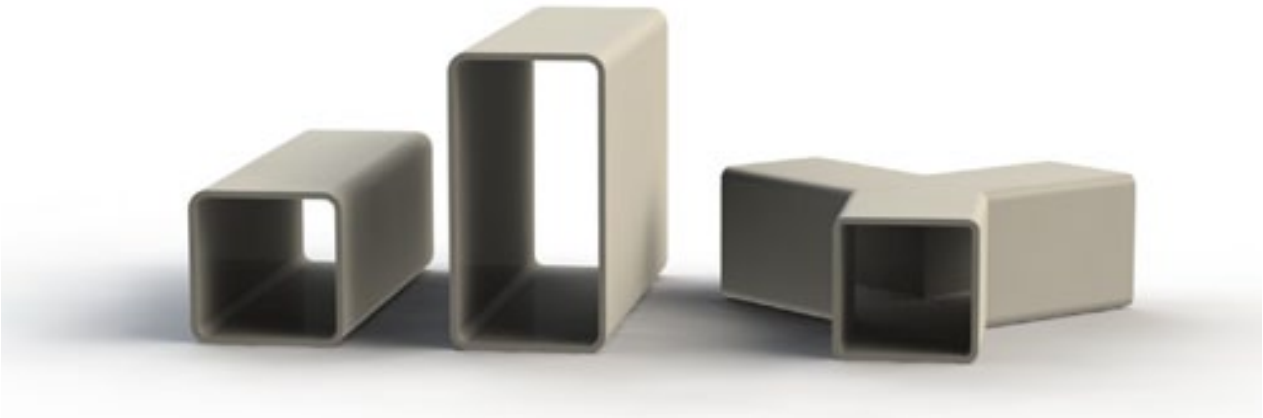
Available types of plastics:

Made in Russia			
Abbreviation	Polymer type	Range of Temperature, °C	Remarks
PP-C	Polypropylene block copolymer	-40…+80	Basic material Ral 7032
PE	Polyethylene	-50…+80	Black
Made in Germany			
Abbreviation	Polymer type	Range of Temperature, °C	Remarks
PP-C	Polypropylene copolymer	-30…+100	
PP-H	Polypropylene homopolymer	0…+100	
PPs	Flame-retardant polypropylene	0…+100	
PP-EL-s	Electrically conductive, flame-retardant polypropylene	0…+80	
PVC-U	Polyvinylchloride	0…+60	
PVC-C	Chlorinated polyvinylchloride	-10…+90	
PVDF	Polyvinylidene fluoride	0…+140	
ECTFE	Ethylene chlorotrifluoroethylene	-50…+150	

MATERIAL SELECTION
Select the polymer using the chemical composition, concentration and temperature of the conveyed medium. Check grade-specific chemical resistance and operating experience for the actual duty, including pressure, outdoor exposure and any special fire or electrical requirements.

COORDINATED PRODUCT RANGE
- Circular, rectangular and project-specific ducts
- Manual and motorised dampers
- Polymer sound attenuators
- Air-to-air and air-to-water heat exchangers
- Frames for circular and rectangular ducts
- Flanges, cross fittings and access points

Gerhman coordinates component selection and supply with the manufacturer.



PROJECT SELECTION INPUTS

Provide the application and process medium, chemical concentrations and operating temperatures. Include airflow, available pressure, duct dimensions and the required connections.

Polypropylene material properties

LOW DENSITY. The material data give 0.92 g/cc for solid polypropylene sheet and 0.7 g/cc for selected lightweight composite sheets. Values depend on the sheet grade.

MECHANICAL PERFORMANCE. Wall thickness, reinforcement and supports are selected for the duct dimensions and duty. Material properties must be assessed at the operating temperature; generic comparisons with steel or polyethylene are not a design basis.

LOW-TEMPERATURE GRADES. The material data identify block-copolymer sheet grades for temperatures down to –40 °C. Confirm the selected grade and operating conditions.

CHEMICAL COMPATIBILITY. PP is used with compatible organic and inorganic acids. Compatibility must be checked for the actual chemical, concentration and temperature.

APPLICATION DOCUMENTATION. Polypropylene is also used in water and treatment equipment. Food-contact, drinking-water or sanitary suitability is grade- and product-specific. Obtain the relevant manufacturer documentation for the intended application; catalogue inclusion does not establish certification.

FABRICATION. Polypropylene sheet can be cut, machined and formed to produce duct sections and fittings.

Compatible PP components can be welded using a suitable procedure. Electrical properties are grade-specific.

Characteristics of sheets made from block copolymer polypropylene			
Main properties	Value	Measuring unit	ISO test method
Density	0.9-0.92	g/cc	1183
Tensile yield stress	23	MPa	527-1/1B/20
Elongation at break	260	%	527
Unnotched Charpy impact resistance value at 23 °C	n/ breakage	kJ/m^2	179/1fU
Notched Charpy impact resistance value at 23 °C (on arris of sample)	50	kJ/m^2	179/1epA
Notched Charpy impact resistance value at -40 °C (on arris of sample)	7	kJ/m^2	179/1epA
Modulus of flexure	1150	MPa	178
Deflection temperature under load 1.8 MPa	55	°C	75-2Ae
Deflection temperature under load 0.45 MPa	115	°C	75-2Be
Vicat softening temperature (50H/50 °C)	80	°C	306/B50
Shore hardness	68		868

The listed values are indicative supplier material data. They are not guaranteed design or contractual values unless expressly agreed for the selected product.

*) data from literature.

**) depend on pressure and environment.

Producing of plastic ventilation

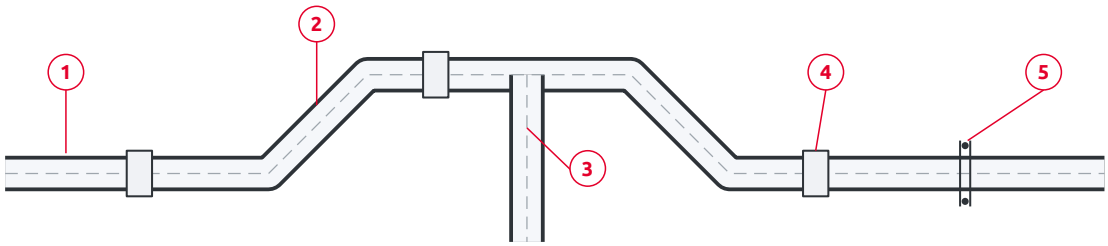
Ductwork connects straight sections with bends, reducers and branches to combine, divide and route the airflow. The PP and PE range includes fabricated sections and assemblies matched to the project layout. Sheet fabrication, forming and welding allow the required cross-section and connection arrangement to be coordinated before installation.

We help you to realize charts of blowing, exhaust and combined ventilation made from plastic materials!





DUCTWORK ASSEMBLY & CONNECTIONS



1 Straight duct
2 Bend
3 Branch
4 Socket joint
5 Flange joint

FABRICATION AND JOINING

The range combines extruded circular pipe, fabricated sheet sections and shaped fittings. Rectangular sections can be formed and seam-welded. Socket and flange connections provide the illustrated assembly options. Hot-air or extrusion welding is used where specified for compatible thermoplastic components. Confirm the welding procedure, wall thickness and connection details for the selected product.

CIRCULAR DUCTS

Circular ducts are available with socket and flange connections. Select the connection type shown below to match the installation. The socket wall thickness is equal to the duct wall thickness.

Alternative wall thicknesses and flange arrangements are available on request, subject to manufacturer confirmation.

Types of ducts' connection

Type 1 – M – Socket
Type 2 – F – Flange
Type 3 – FF – Flanges on both ends
Type 4 – MF – Socket + Flange



Type 1



Type 2



Type 3

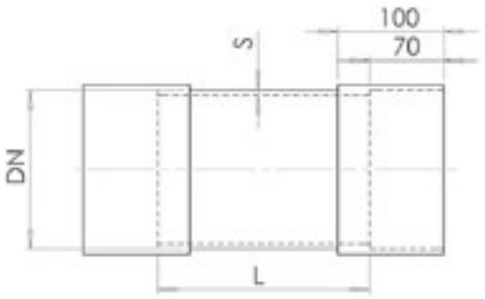


Type 4

CIRCULAR AND RECTANGULAR DUCTS

Size of pipe	Wall thickness	Possible length	Flange thickness	Color
DN	S, мм	L, м	Sfl, mm	
50	2	0,5 - 3	5	Dark grey
110*	2,3	0,5 - 2	5	RAL
160*	4	0,5 - 2	5	7032
180	3	0,5 – 1,5	5	
200	3	0,5 – 1,5	5	
225	3	0,5 – 1,5	5	
250	3	0,5 – 1,5	5	
280	3	0,5 – 1,5	5	
315	3	0,5 – 1,5	5	
355	3	0,5 - 4	5	
400	3	0,5 - 4	5	
450	3	0,5 - 4	5	
500	5	0,5 - 4	8	
560	5	0,5 - 4	8	
600	5	0,5 - 4	8	
630	5	0,5 - 4	8	
700	5	0,5 - 4	8	
710	8	0,5 - 4	10	
800	8	0,5 - 4	10	
900	10	0,5 - 4	15	
1000	10	0,5 - 4	15	
1200	10	0,5 - 4	15	
1250	10	0,5 - 4	15	
1300	10	0,5 - 4	15	
1400	10	0,5 - 4	15	
1500	10	0,5 - 4	15	
1600	10	0,5 - 4	15	
1700	10	0,5 - 4	15	
1800	10	0,5 - 4	15	
1900	10	0,5 - 4	15	
2000	10	0,5 - 4	15	
2100	15	0,5 - 4	20	
2200	15	0,5 - 4	20	

Polypropylene RAL 7032 grey;
Polyethylene - black



Ordering reference for duct

Duct GUA-PP-DNxS-L-typeN

G…N – Gerhman
PP – type of polymer – polypropylene
DN – outer diameter
S – wall thickness
L – length of duct
Type – type of duct (M, F, MM, MF)

*** Molded polypropylene duct is a seamless pipe produced by the extrusion method.**

CIRCULAR AND RECTANGULAR DUCTS

Rectangular ducts

RECTANGULAR DUCTS
Square and rectangular ducts are fabricated from polypropylene or polyethylene sheet. They provide a practical route where space, equipment connections or the building layout favour a rectangular cross-section. Dimensions and connection arrangements are selected for the project.

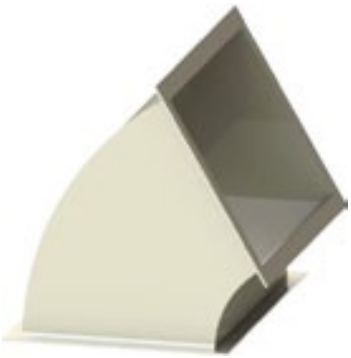
PP and PE offer corrosion resistance in compatible environments and accessible surfaces for maintenance. Straight rectangular sections up to 2 m long can be made by bending sheet with one welded seam. Material compatibility and structural design remain application-specific.



Straight sections



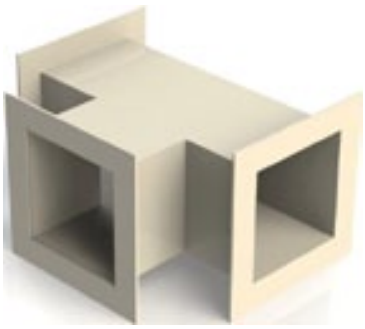
Bends 45°



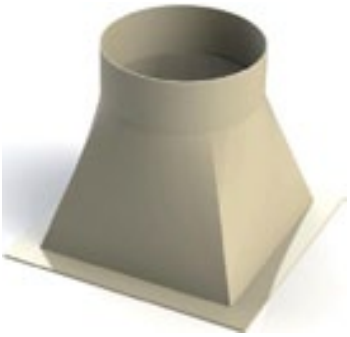
Bends 60°



Bends 90°



Branch outlet



Reducers

SLIDING ELEMENTS

Sliding element

SLIDING ELEMENTS

Sliding elements provide length adjustment where the final duct connection cannot be fixed precisely in advance. The PP or PE assembly comprises 3 sections with two adjustment interfaces. Circular and rectangular versions are available.

Select DN from the circular duct dimension table on page 10. Specify the required minimum and maximum installed lengths, Lmin–Lmax, when ordering.

Alternative wall thicknesses and flange arrangements are available on request, subject to manufacturer confirmation.

Ordering reference for sliding element

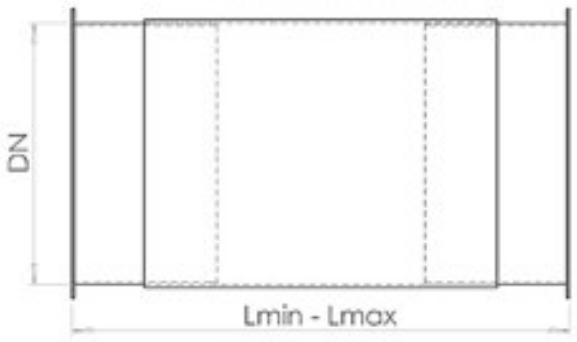
Sliding element GUA-PP-DNxLmin-Lmax-typeN

G…N – Gerhman
PP – type of polymer – polypropylene
DN – outer diameter of duct
Type – connection type (1-Socket, 2- Flange)
Lmin-Lmax – required minimum and maximum duct lengths

Ordering example:

Sliding element GUA-PP-F500x1020-2000-2N





REDUCERS AND TRANSITIONS

Reducers

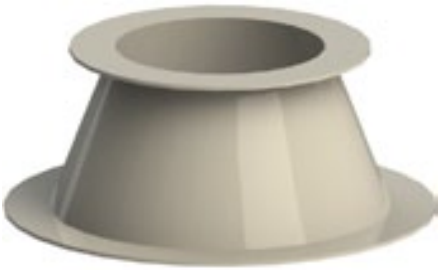
CONNECTION OPTIONS

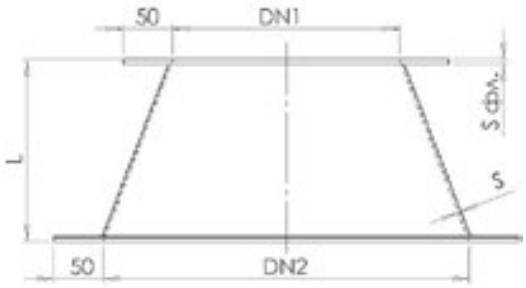
Select the socket or flange arrangement shown for the required transition. Socket wall thickness matches the fitting wall thickness. Alternative fitting thicknesses and flange connections are available on request, subject to manufacturer confirmation.

Types of reducers' connection

Type 1 – FF – Flanges on both ends
Type 2 – MM – Socket on both ends

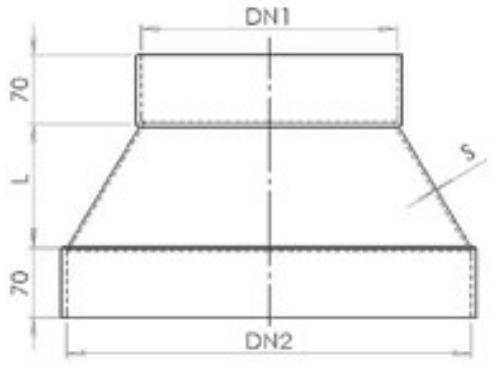
Type 1



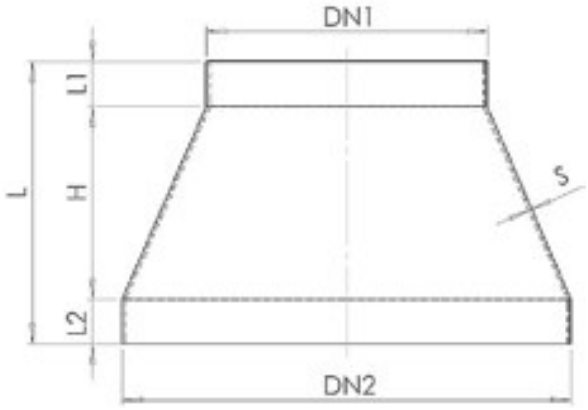


Type 2





Plain-ended reducer



Ordering reference for reducers

Reducer GUA-PP-DN1xDN2-S-typeN

G…N – Gerhman
PP – type of polymer – polypropylene
DN1 – small diameter
DN2 – large diameter
S – wall thickness
Type – type of reducer (FF, MM)

Ordering example:
Reducer GUA-PP-250x400-5-MMN

REDUCERS AND TRANSITIONS

Size of reducer		Dimensions					Flange thickness
DN1	DN2	H,mm	L1,mm	L2	S	L,mm	Sfl
110	125	40	40	40	3	120	5
	140	80	40	40	3	160	5
	160	140	40	40	3	220	5
	180	50	40	40	3	130	5
	200	65	40	40	3	145	5
160	180	60	40	40	3	140	5
	200	120	40	40	3	200	5
	225	100	40	40	3	180	5
	250	120	40	40	3	200	5
	280	85	40	50	3	175	5
	315	115	40	50	3	205	5
180	200	75	40	40	3	155	5
	225	85	40	40	3	165	5
	250	100	40	40	3	180	5
	280	65	40	50	3	150	5
	315	100	40	50	3	190	5
200	225	80	40	40	3	160	5
	250	140	40	40	3	220	5
	280	105	40	50	3	195	5
	315	160	40	50	3	250	5
	355	115	40	50	3	205	5
225	250	80	40	40	3	160	5
	280	40	40	50	3	130	5
	315	65	40	50	3	155	5
	355	95	40	50	3	185	5
	400	125	40	50	3	215	5
250	280	35	40	50	3	125	5
	315	100	40	50	3	190	5
	355	140	40	50	3	230	5
	400	105	40	50	3	195	5
	450	145	40	50	3	235	5
280	315	100	50	50	3	200	5
	355	65	50	50	3	165	5
	400	90	50	50	3	190	5
	450	120	50	50	3	220	5
	500	160	50	50	3	260	5
315	355	50	50	35	3	135	5
	400	75	50	40	3	165	5
	450	120	50	45	3	215	5
	500	160	50	50	3	260	5
355	400	100	50	40	3	190	5
	450	80	50	45	3	175	5

Size of reducer		Dimensions					Flange thickness
DN1	DN2	H,mm	L1,mm	L2	S	L,mm	Sfl
355	500	125	50	50	3	225	5
	560	180	50	55	3	285	5
	600	215	50	60	3	325	5
	630	240	50	60	3	350	5
	700	300	50	70	3	420	5
	710	310	50	70	3	430	5
	800	385	50	80	3	515	5
	900	475	50	90	3	615	5
	1000	560	50	100	3	710	5
400	450	45	50	50	3	145	5
	500	85	50	50	3	185	5
	560	140	50	55	3	245	5
	600	175	50	60	3	285	5
	630	205	50	60	3	315	5
	700	265	50	70	3	385	5
	710	270	50	70	3	390	5
	800	350	50	80	3	480	5
	900	435	50	90	3	575	5
	1000	520	50	100	3	670	5
450	500	45	50	50	3	145	5
	560	100	50	55	3	205	5
	600	130	50	60	3	240	5
	630	160	50	60	3	270	5
	700	220	50	70	3	340	5
	710	230	50	70	3	350	5
	800	305	50	80	3	435	5
	900	395	50	90	3	535	5
	1000	480	50	100	3	630	5
500	560	55	50	55	5	160	8
	600	90	50	60	5	200	8
	630	115	50	60	5	225	8
	700	175	50	70	5	295	8
	710	185	50	70	5	305	8
	800	265	50	80	5	395	8
	900	350	50	90	5	490	8
	1000	435	50	100	5	585	8
560	600	40	60	60	5	160	8
	630	65	60	60	5	185	8
	700	125	60	70	5	255	8
	710	135	60	70	5	265	8
	800	215	60	80	5	355	8
	900	300	60	90	5	450	8

REDUCERS AND TRANSITIONS

Size of reducer		Dimensions					Flange thickness
DN1	DN2	H,mm	L1,mm	L2	S	L,mm	Sfl
560	1000	385	60	100	5	545	8
600	630	30	60	60	5	150	8
	700	90	60	70	5	220	8
	710	100	60	70	5	230	8
	800	180	60	80	5	320	8
	900	265	60	90	5	415	8
	1000	350	60	100	5	510	8
	1200	525	60	120	5	705	8
	1250	570	60	125	5	755	8
630	700	65	60	70	5	195	8
	710	75	60	70	5	205	8
	800	155	60	80	5	295	8
	900	240	60	90	5	390	8
	1000	325	60	100	5	485	8
	1200	500	60	120	5	680	8
	1250	540	60	125	5	725	8
700	710	30	70	70	5	170	8
	800	90	70	80	5	240	8
	900	180	70	90	5	340	8
	1000	265	70	100	5	435	8
	1200	440	70	120	5	630	8
	1250	480	70	125	5	675	8
710	800	85	70	80	8	235	10
	900	170	70	90	8	330	10
	1000	255	70	100	8	425	10
	1200	430	70	120	8	620	10
	1250	475	70	125	8	670	10
800	900	90	80	90	8	260	10
	1000	180	80	100	8	360	10
	1200	350	80	120	8	550	10
	1250	395	80	125	8	600	10
900	1000	90	90	100	10	280	15
	1200	265	90	120	10	475	15
	1250	310	90	125	10	525	15
1000	1200	180	100	120	10	400	15
	1250	220	100	125	10	445	15
	1300	260	100	130	10	490	15
	1400	345	100	140	10	585	15
	1500	430	100	150	10	680	15
1200	1250	100	120	125	10	345	15
	1300	110	120	130	10	360	15
	1400	170	120	140	10	430	15

Size of reducer		Dimensions					Flange thickness
DN1	DN2	H,mm	L1,mm	L2	S	L,mm	Sfl
1200	1500	260	120	150	10	530	15
	1600	350	120	160	10	630	15
1250	1300	100	125	130	10	355	15
	1400	130	125	140	10	395	15
	1500	215	125	150	10	490	15
	1600	300	125	160	10	585	15
	1700	390	125	170	10	685	15
1300	1400	100	130	140	10	370	15
	1500	170	130	150	10	450	15
	1600	260	130	160	10	550	15
	1700	350	130	170	10	650	15
	1800	430	130	180	10	740	15
1400	1500	110	140	150	10	400	15
	1600	170	140	160	10	470	15
	1700	260	140	170	10	570	15
	1800	350	140	180	10	670	15
	1900	430	140	190	10	760	15
1500	1600	110	150	160	10	420	15
	1700	170	150	170	10	490	15
	1800	260	150	180	10	590	15
	1900	350	150	190	10	690	15
	2000	430	150	200	10	780	15
1600	1700	110	160	170	10	440	15
	1800	170	160	180	10	510	15
	1900	260	160	190	10	610	15
	2000	350	160	200	10	710	15
	2100	430	160	210	10	800	15
1700	1800	150	170	180	10	500	15
	1900	170	170	190	10	530	15
	2000	260	170	200	10	630	15
	2100	350	170	210	10	730	15
	2200	430	170	220	10	820	15
1800	1900	150	180	190	10	520	15
	2000	170	180	200	10	550	15
	2100	260	180	210	10	650	15
	2200	350	180	220	10	750	15
1900	2000	150	190	200	10	540	15
	2100	170	190	210	10	570	15
	2200	260	190	220	10	670	15
2000	2100	150	200	210	10	560	15
	2200	170	200	220	10	590	15
2100	2200	150	210	220	15	580	20

REDUCERS AND TRANSITIONS

Reducers from round to rectangular cross-section

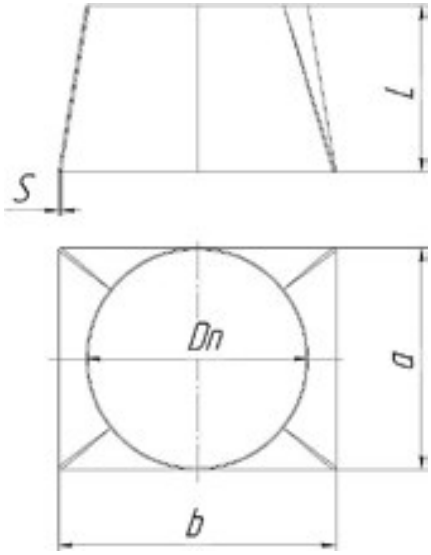
CONNECTION OPTIONS
Select the socket or flange arrangement shown for the required transition. Socket wall thickness matches the fitting wall thickness. Alternative fitting thicknesses and flange connections are available on request, subject to manufacturer confirmation.

Types of reducers' connection

Type 1 – MM – Socket on both ends
Type 2 – FF – Flanges on both ends



Ordering reference for reducers



Reducer GUA-PP-DN1-a x b-S-typeN

G…N – Gerhman
PP – type of polymer – polypropylene
DN1 – small diameter
DN2 – large diameter
S – wall thickness
Type – type of reducer (MM, FF)

Ordering example:
Reducer GUA-PP-200-150x150-6-FFN

REDUCERS AND TRANSITIONS

Table of dimensions for reducers

Size of reducer		Dimensions		Flange thickness
Dn	axb	L, mm	S, mm	Sfl, mm
110	100x150	300	3	5
160	100x150	300	3	5
	150x150	300	3	5
	150x200	300	3	5
180	150x150	300	3	5
	150x200	300	3	5
	150x250	300	3	5
	250x250	300	3	5
200	150x150	300	3	5
	150x200	300	3	5
	150x250	300	3	5
	250x250	300	3	5
225	150x150	300	3	5
	150x200	300	3	5
	150x250	300	3	5
	250x250	300	3	5
250	150x150	300	3	5
	150x200	300	3	5
	250x250	300	3	5
	250x300	300	3	5
280	150x200	300	3	5
	250x250	300	3	5
	250x300	300	3	5
	250x350	300	3	5
	250x400	300	3	5
315	150x250	300	3	5
	250x250	300	3	5
	250x300	300	3	5
	250x400	300	3	5
	250x500	400	3	5
355	250x250	300	3	5
	250x300	300	3	5
	250x400	300	3	5
	250x500	300	3	5
	400x400	300	3	5
400	250x300	300	3	5
	250x400	300	3	5
	250x500	300	3	5
	400x400	300	3	5
	400x500	300	3	5

Size of reducer		Dimensions		Flange thickness
Dn	axb	L, mm	S, mm	Sfl, mm
450	250x400	300	3	5
	250x500	300	3	5
	400x400	300	3	5
	400x500	300	3	5
	400x600	300	3	5
500	400x500	300	5	8
	400x600	300	5	8
	400x800	600	5	8
	500x500	300	5	8
	500x600	300	5	8
	500x800	600	5	8
560	400x400	300	5	8
	400x500	300	5	8
	400x600	300	5	8
	400x800	500	5	8
	500x500	300	5	8
	500x600	300	5	8
	500x800	500	5	8
	500x1000	800	5	8
600	400x400	300	5	8
	400x500	300	5	8
	400x600	300	5	8
	400x800	500	5	8
	500x500	300	5	8
	500x600	300	5	8
	500x800	500	5	8
	500x1000	600	5	8
	600x800	300	5	8
630	600x600	300	5	8
	400x500	300	5	8
	400x600	300	5	8
	400x800	500	5	8
	500x500	300	5	8
	500x600	300	5	8
	500x800	300	5	8
	500x1000	700	5	8
	600x600	300	5	8
	600x800	300	5	8

REDUCERS AND TRANSITIONS

continuation

Size of reducer		Dimensions		Flange thickness
Dn	axb	L, mm	S, mm	Sfl, mm
700	400x600	600	5	8
	400x800	600	5	8
	500x500	400	5	8
	500x600	400	5	8
	500x800	400	5	8
	500x1000	400	5	8
	600x600	300	5	8
	600x800	300	5	8
	600x1000	300	5	8
	600x1200	300	5	8
	800x800	300	5	8
710	400x600	600	8	10
	400x800	600	8	10
	500x500	400	8	10
	500x600	400	8	10
	500x800	400	8	10
	500x1000	400	8	10
	600x600	300	8	10
	600x800	300	8	10
	600x1000	300	8	10
	600x1200	300	8	10
	800x800	300	8	10
800	400x800	800	8	10
	500x500	600	8	10
	500x600	600	8	10
	500x800	600	8	10
	500x1000	600	8	10
	600x600	300	8	10
	600x800	300	8	10
	600x1000	400	8	10
	600x1200	800	8	10
	800x800	300	8	10
	800x1000	400	8	10
900	500x800	800	10	15
	500x1000	800	10	15
	600x600	500	10	15
	600x800	500	10	15
	600x1000	500	10	15
	600x1200	700	10	15
	800x800	300	10	15

Size of reducer		Dimensions		Flange thickness
Dn	axb	L, mm	S, mm	Sfl, mm
900	800x1000	300	10	15
	800x1200	700	10	15
	800x1600	1300	10	15
	1000x1000	300	10	15
1000	500x1000	900	10	15
	600x600	700	10	15
	600x800	700	10	15
	600x1000	700	10	15
	600x1200	700	10	15
	800x800	300	10	15
	800x1000	300	10	15
	800x1200	500	10	15
	800x1600	1100	10	15
	1000x1000	300	10	15
	1000x1200	500	10	15
1200	600x1200	1200	10	15
	800x800	850	10	15
	800x1000	850	10	15
	800x1200	850	10	15
	800x1600	700	10	15
	1000x1000	500	10	15
	1000x1200	500	10	15
	1000x1600	700	10	15
	1000x2000	1400	10	15
	1200x1200	300	10	15
	1200x1600	700	10	15
1250	600x1200	1200	10	15
	800x800	850	10	15
	800x1000	850	10	15
	800x1200	850	10	15
	800x1600	700	10	15
	1000x1000	500	10	15
	1000x1200	500	10	15
	1000x1600	700	10	15
	1000x2000	1400	10	15
	1200x1200	300	10	15
	1200x1600	700	10	15

REDUCERS AND TRANSITIONS

continuation

Size of reducer		Dimensions		Flange thickness
Dn	axb	L, mm	S, mm	Sfl, mm
1300	700x700	700	10	15
	800x800	600	10	15
	800x1000	600	10	15
	1000x1000	600	10	15
	1000x1200	600	10	15
	1000x1600	600	10	15
	1000x2000	500	10	15
	1200x1200	500	10	15
	1200x1600	500	10	15
	1200x2000	1100	10	15
1400	800x1200	1100	10	15
	800x1600	1100	10	15
	1000x1000	600	10	15
	1000x1200	600	10	15
	1000x1600	400	10	15
	1000x2000	1100	10	15
	1200x1200	300	10	15
	1200x1600	400	10	15
	1200x2000	1100	10	15
	1600x1600	400	10	15
1500	800x1600	1500	10	15
	1000x1000	1100	10	15
	1000x1200	1100	10	15
	1000x1600	1100	10	15
	1000x2000	1100	10	15
	1200x1200	700	10	15
	1200x1600	700	10	15
	1200x2000	800	10	15
	1600x1600	400	10	15
	1600x2000	800	10	15
1600	800x1600	1500	10	15
	1000x1000	1100	10	15
	1000x1200	1100	10	15
	1000x1600	1100	10	15
	1000x2000	1100	10	15
	1200x1200	700	10	15
	1200x1600	700	10	15
	1200x2000	800	10	15
	1600x1600	400	10	15
	1600x2000	800	10	15

Size of reducer		Dimensions		Flange thickness
Dn	axb	L, mm	S, mm	Sfl, mm
1700	1000x1600	1500	10	15
	1000x2000	1500	10	15
	1200x1200	1000	10	15
	1200x1600	1000	10	15
	1200x2000	1000	10	15
	1600x1600	400	10	15
	1600x2000	400	10	15
1800	1000x1600	1500	10	15
	1000x2000	1500	10	15
	1200x1200	1000	10	15
	1200x1600	1000	10	15
	1200x2000	1000	10	15
	1600x1600	400	10	15
	1600x2000	400	10	15
1900	1000x1900	1600	10	15
	1200x1200	1400	10	15
	1200x1600	1400	10	15
	1200x2000	1400	10	15
	1600x1600	800	10	15
	1600x2000	800	10	15
2000	1000x2000	1800	10	15
	1200x1200	1400	10	15
	1200x1600	1400	10	15
	1200x2000	1400	10	15
	1600x1600	800	10	15
	1600x2000	800	10	15
2100	1000x2000	1800	15	20
	1200x1200	1400	15	20
	1200x1600	1400	15	20
	1200x2000	1400	15	20
	1600x1600	800	15	20
	1600x2000	800	15	20

BENDS AND BRANCH OUTLETS

BENDS
Bends change the direction of the duct run. Select the illustrated socket or flange connection and required angle. Socket wall thickness matches the bend wall thickness. Special wall thicknesses and flange arrangements are available on request.

Types of bends' connection

Type 1 – FF – Flanges on both ends
Type 2 – MF – Socket + Flange

Also bends have different bending angles:

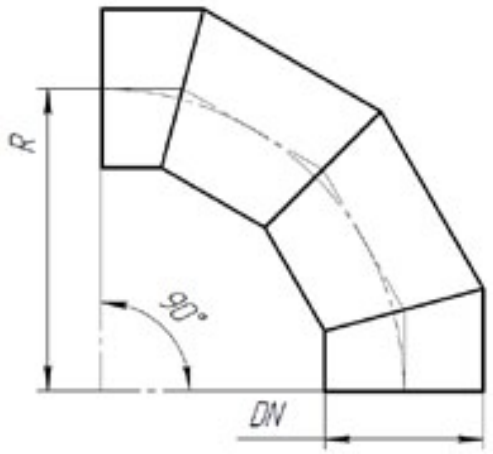
- Bend 90°
- Bend 60°
- Bend 45°



BENDS AND BRANCH OUTLETS

Table of dimensions for bends 90°

Size of bend	Wall thickness	Radius of bend	Flange thickness	Color
DN	S, mm	L, m	Sfl, mm	
50	2	50	5	Dark grey
110	3	110	5	
160	3	160	5	Red
180	3	180	5	Polypropylene - RAL 7032 grey; Polyethylene - black
200	3	200	5	
225	3	225	5	
250	3	250	5	
280	3	280	5	
315	3	315	5	
355	3	355	5	
400	3	400	5	
450	3	450	5	
500	5	500	8	
560	5	560	8	
600	5	600	8	
630	5	630	8	
700	5	700	8	
710	8	710	10	
800	8	800	10	
900	10	900	15	
1000	10	1000	15	
1200	10	1200	15	
1250	10	1250	15	
1300	10	1300	15	
1400	10	1400	15	
1500	10	1500	15	
1600	10	1600	15	
1700	10	1700	15	
1800	10	1800	15	
1900	10	1900	15	
2000	10	2000	15	
2100	15	2100	20	
2200	15	2200	20	



Ordering reference for bends

Bend GUA90-PP-DNxS-typeN

G…N – Gerhman
90 – bending angle
PP – type of polymer – polypropylene
DN – outer diameter
S – wall thickness
Type – type of bend (FF, MM)

Ordering example:

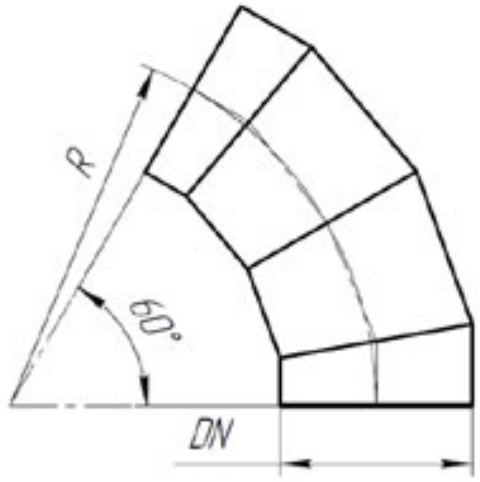
Bend GUA90-PP-500x5-FFN

BENDS AND BRANCH OUTLETS

Table of dimensions for bends 60°

Size of bend	Wall thickness	Radius of bend	Flange thickness	Color
DN	S, mm	L, m	Sfl, mm	
50	2	50	5	Dark
110	3	110	5	grey
160	3	160	5	Red
180	3	180	5	
200	3	200	5	
225	3	225	5	
250	3	250	5	
280	3	280	5	
315	3	315	5	
355	3	355	5	
400	3	400	5	
450	3	450	5	
500	5	500	8	
560	5	560	8	
600	5	600	8	
630	5	630	8	
700	5	700	8	
710	8	710	10	
800	8	800	10	
900	10	900	15	
1000	10	1000	15	
1200	10	1200	15	
1250	10	1250	15	
1300	10	1300	15	
1400	10	1400	15	
1500	10	1500	15	
1600	10	1600	15	
1700	10	1700	15	
1800	10	1800	15	
1900	10	1900	15	
2000	10	2000	15	
2100	15	2100	20	
2200	15	2200	20	

Polypropylene - RAL 7032 grey; Polyethylene - black



Ordering reference for bends

Bend GUA60-PP-DNxS-typeN

G…N – Gerhman
60 – bending angle
PP – type of polymer – polypropylene
DN – outer diameter
S – wall thickness
Type – type of bend (FF, MM)

Ordering example:

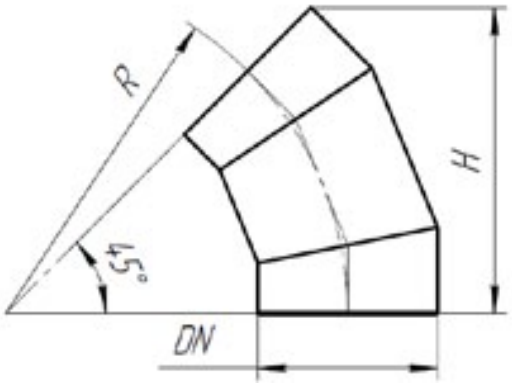
Bend GUA60-PP-800x8-MMN

BENDS AND BRANCH OUTLETS

Table of dimensions for bends 45°

Size of bend	Wall thickness	Radius of bend	Flange thickness	Color
DN	S, mm	L, m	Sfl, mm	
50	2	50	5	Dark
110	3	110	5	grey
160	3	160	5	Red
180	3	180	5	
200	3	200	5	
225	3	225	5	
250	3	250	5	
280	3	280	5	
315	3	315	5	
355	3	355	5	
400	3	400	5	
450	3	450	5	
500	5	500	8	
560	5	560	8	
600	5	600	8	
630	5	630	8	
700	5	700	8	
710	8	710	10	
800	8	800	10	
900	10	900	15	
1000	10	1000	15	
1200	10	1200	15	
1250	10	1250	15	
1300	10	1300	15	
1400	10	1400	15	
1500	10	1500	15	
1600	10	1600	15	
1700	10	1700	15	
1800	10	1800	15	
1900	10	1900	15	
2000	10	2000	15	
2100	15	2100	20	
2200	15	2200	20	

Polypropylene - RAL 7032 grey;
Polyethylene - black



Ordering reference for bends

Bend GUA45-PP-DNxS-typeN

G…N – Gerhman
45 – bending angle
PP – type of polymer – polypropylene
DN – outer diameter
S – wall thickness
Type – type of bend (FF, MM)

Ordering example:

Bend GUA45-PP-600x5-MMN

BENDS AND BRANCH OUTLETS

(continuation)

Size of bend		Dimensions					Flange thickness
DN1	DN2	Sфл, mm	L1, mm	L2, mm	S, mm	L, mm	Sfl, mm
700	7 10	30	70	70	5	170	8
	800	90	70	80	5	240	8
	900	180	70	90	5	340	8
	1000	265	70	100	5	435	8
	1200	440	70	120	5	630	8
	1250	480	70	125	5	675	8
710	800	85	70	80	8	235	10
	900	170	70	90	8	330	10
	1000	255	70	100	8	425	10
	1200	430	70	120	8	620	10
	1250	475	70	125	8	670	10
800	900	90	80	90	8	260	10
	1000	180	80	100	8	360	10
	1200	350	80	120	8	550	10
	1250	395	80	125	8	600	10
900	1000	90	90	100	10	280	15
	1200	265	90	120	10	475	15
	1250	310	90	125	10	525	15
1000	1200	180	100	120	10	400	15
	1250	220	100	125	10	445	15
	1300	260	100	130	10	490	15
	1400	345	100	140	10	585	15
	1500	430	100	150	10	680	15
1200	1250	100	120	125	10	345	15
	1300	110	120	130	10	360	15
	1400	170	120	140	10	430	15
	1500	260	120	150	10	530	15
	1600	350	120	160	10	630	15
1250	1300	100	125	130	10	355	15
	1400	130	125	140	10	395	15
	1500	215	125	150	10	490	15
	1600	300	125	160	10	585	15
	1700	390	125	170	10	685	15

Size of bend		Dimensions					Flange thickness
DN1	DN2	Sфл, mm	L1, mm	L2, mm	S, mm	L, mm	Sfl, mm
1300	1400	100	130	140	10	370	15
	1500	170	130	150	10	450	15
	1600	260	130	160	10	550	15
	1700	350	130	170	10	650	15
	1800	430	130	180	10	740	15
1400	1500	110	140	150	10	400	15
	1600	170	140	160	10	470	15
	1700	260	140	170	10	570	15
	1800	350	140	180	10	670	15
	1900	430	140	190	10	760	15
1500	1600	110	150	160	10	420	15
	1700	170	150	170	10	490	15
	1800	260	150	180	10	590	15
	1900	350	150	190	10	690	15
	2000	430	150	200	10	780	15

BENDS AND BRANCH OUTLETS

BRANCH OUTLETS

Branch outlets connect a secondary duct to the main run. Select the required diameters and connection arrangement from the drawing and table. Socket wall thickness matches the fitting wall thickness. Special thicknesses and flange connections are available on request.

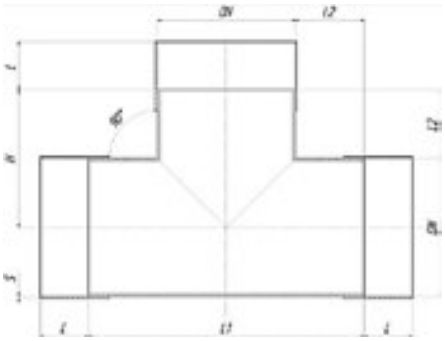
Types of branch outlets' connection

Table of dimensions for branch outlets

Size of branch outlet	Dimensions					Flange thickness	Color
DN	L,mm	L1,mm	L2,mm	H,mm	S,mm	Sfl, mm	
50	70	90	15	65	2	5	Dark grey
110	70	143	17	72	3	5	
160	70	208	24	104	3	5	Red
180	70	360	90	180	3	5	Polypropylene - RAL 7032 grey; Polyethylene - black
200	70	400	100	200	3	5	
225	70	445	110	222,5	3	5	
250	70	500	125	250	3	5	
280	70	560	140	280	3	5	
315	70	635	160	317,5	3	5	
355	70	715	180	357,5	3	5	
400	70	800	200	400	3	5	
450	70	900	225	450	3	5	
500	70	1000	250	500	5	8	
560	70	1120	280	560	5	8	
600	70	1200	300	600	5	8	
630	70	1260	315	630	5	8	
700	70	1400	350	700	5	8	
710	70	1420	355	710	8	10	
800	70	1600	400	800	8	10	
900	70	1800	450	900	10	15	
1000	70	2000	500	1000	10	15	
1200	70	2400	600	1200	10	15	
1250	70	2500	625	1250	10	15	
1300	70	2600	650	1300	10	15	
1400	70	2800	700	1400	10	15	
1500	70	3000	750	1500	10	15	
1600	70	3200	800	1600	10	15	
1700	70	3400	850	1700	10	15	
1800	70	3600	900	1800	10	15	
1900	70	3800	950	1900	10	15	
2000	70	4000	1000	2000	10	15	
2100	70	4200	1050	2100	15	20	
2200	70	4400	1100	2200	15	20	

Type 1 – FF – Flanges on both ends

Type 2 – MM – Socket on both ends





Type 1



Type 2

MEASUREMENT AND ACCESS POINTS

PP measurement hatch — GHIMVENT LZN

APPLICATION
GHIMVENT LZN measurement hatches provide closable access for airflow measurements during commissioning, maintenance and inspection. They can be used on circular or rectangular thermoplastic ducts and ventilation chambers, with access sized for the measuring instrument.

The conventional A 1K 151.000 hatch in reference A9-57 uses a 10 mm opening. The GHIMVENT LZN arrangement provides a larger access point for temperature, humidity and airflow measurements.

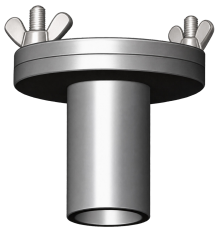
INSTALLATION — STANDARD VERSION
1. Prepare a 50 mm diameter hole in the duct.
2. Insert the hatch inlet tube.
3. Weld the support flange to the duct using a suitable hot-air welding tool or extrusion welder.
4. Secure the cover with wing nuts and the rubber gasket.

MATERIAL OPTIONS
PP-BS block copolymer, PP-H homopolymer, PE, PVC, PVDF or fibreglass, subject to compatibility and availability.

ORDERING
GHIMVENT LZ – Material – Outside diameterN
The diameter refers to the outside diameter of the hatch inlet tube, in mm. Confirm gasket compatibility for the conveyed medium.



Pic 1. Measurement hatch GHIMVENT LZN



Pic 1. Measurement hatch GHIMVENT LZN. View from below

ORDER EXAMPLE
GHIMVENT LZ – PP-BS – 50N.
For a non-standard size, provide the required dimensions or a drawing so that the manufacturer can confirm the construction.

MEASUREMENT AND ACCESS POINTS

GHIMVENT LPN PITOT ACCESS HATCH

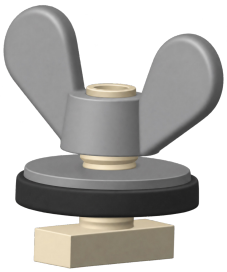
APPLICATION

The hatch provides a closable access point for a Pitot tube during commissioning, maintenance and inspection. Static and total pressure measurements can be used to determine dynamic pressure and calculate velocity and volume flow under the applicable measurement procedure.

The polypropylene design is intended for compatible corrosive-air applications in thermoplastic ducts and ventilation chambers. It follows the access principle of the A 1K 151.000 hatch in reference A9-57, with polymer construction in place of the conventional carbon-steel arrangement. Select the material and seal for the actual medium.

INSTALLATION — STANDARD VERSION

1. Prepare a 10 x 22 mm hole in the duct.
2. Insert the hatch and turn it through 90 degrees.
3. Tighten the threaded nut to clamp the sealing strip against the duct surface.



Pic. 1
Installation sequence of the GHIMVENT LPN

MATERIAL OPTIONS

PP-BS, PP-H, PE, PVC, PVDF or fibreglass, subject to compatibility and manufacturer confirmation.

ORDERING

GHIMVENT LP – Material – dN
d is the hatch shaft diameter, in mm.
Example: GHIMVENT LP – PP-BS – 10N.

For a non-standard size, supply the required dimensions or a drawing.

Shut-off dampers

Shutter valve is an element of ventilation which blocks the air flow.

APPLICATION
The shutter controls or closes the airflow through the duct. Match its cross-section and connection dimensions to the adjoining ductwork. Confirm the required operating function, seal and duty at selection.

Socket wall thickness matches the component wall thickness. Alternative thicknesses and flange arrangements are available on request.

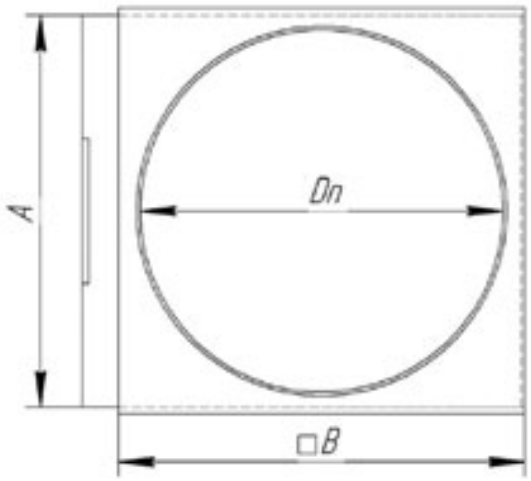
Types of connection:
M – Socket
F – Flange

Ordering reference for shutter valve:
Shutter valve GUA-PP-DN-typeN

G…N – Gerhman
PP – type of polymer – polypropylene
DN – outer diameter of the duct
Type – type of connection (1 – Socket, 2 – Flange)

Ordering example:
Shutter valve GUA-PP-200-1N





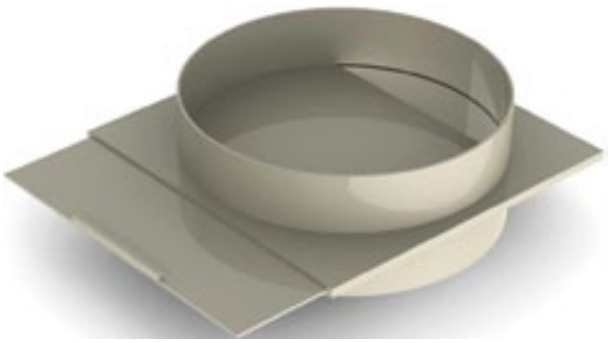


Table of sizes for shutter valves

Diameter of duct	Shutter width	Shutter thickness	Width and thickness of shutter valve's body	Thickness of shutter body	Wall thickness	Flange thickness	Height
DN, mm	A, mm	S, mm	B, mm	b, mm	Sw, mm	Sfl, mm	H, mm
50	90	5	110	18	2	5	215
110	150	5	170	18	3	5	215
160	200	5	220	18	3	5	215
180	220	5	240	18	3	5	215
200	240	5	260	18	3	5	215
225	265	5	285	18	3	5	215
250	290	5	310	18	3	5	215
280	320	5	340	18	3	5	215
300	340	5	360	18	3	5	215
355	395	5	415	18	3	5	215
400	440	5	460	18	3	5	215
450	490	5	510	18	3	5	215
500	540	10	560	26	5	8	224
560	600	10	620	26	5	8	224
600	640	10	660	26	5	8	224
630	670	10	690	26	5	8	224
700	740	10	760	26	5	8	224
710	750	10	770	26	8	10	224
800	840	10	860	26	8	10	224
900	940	10	960	30	10	15	230
1000	1040	10	1060	30	10	15	230
1200	1240	10	1260	30	10	15	230
1250	1290	10	1270	30	10	15	230

Polypropylene air valves

APPLICATION AND SELECTION
Select this component to match the duct geometry, airflow duty and installation arrangement shown. Polymer construction offers corrosion resistance in compatible media. Confirm the material, connection details and required performance for the project; access for inspection and cleaning should be maintained.

Socket wall thickness matches the component wall thickness. Alternative thicknesses and flange arrangements are available on request.

Types of valves' connection

Type 1 - M – Socket
Type 2 - F – Flange

Ordering reference for air valves

Valve GUA-PP-DR-DN-type-PRN

G…N – Gerhman
PP – type of polymer – polypropylene
DR – type of valve – air valve
DN – outer diameter
Type – type of connection (1 – Socket, 2 – Flange)
PR – drive (R – manual, E – electrical)

Ordering example:

Valve GUA-PP-500-1-RN

DAMPERS AND AIR VALVES

Type 1

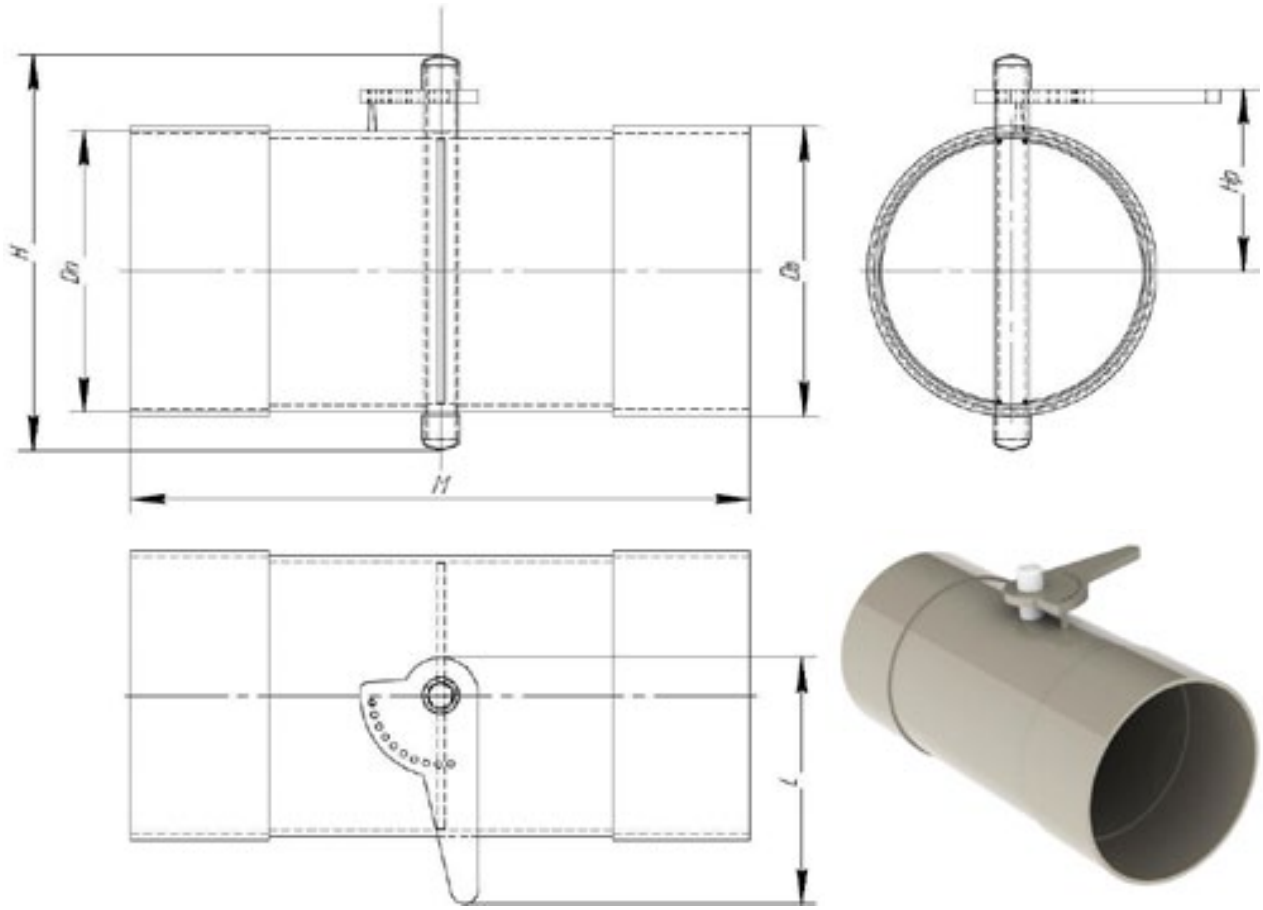
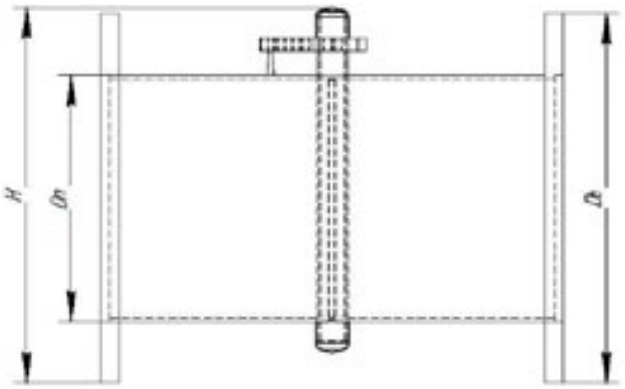


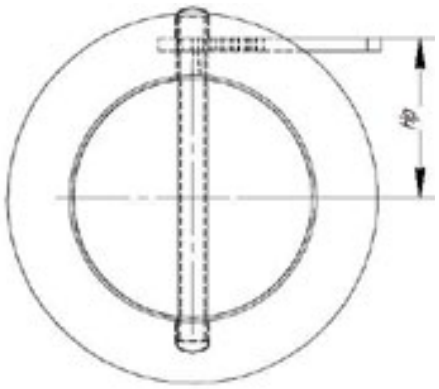
Table of valve sizes - Type 1

Size of valve	Construction length	Height of valve	Distance to the handle	Length of the handle	Outer diameter	Wall thickness	Color
DN, mm	M, mm	H, mm	hp, mm	L, mm	Dв, mm	S, mm	
50	150	130	55	165	56	2	Dark grey
110	360	190	85	165	116	3	
160	410	240	110	165	166	3	Red
180	430	260	120	165	186	3	Polypropylene - RAL 7032 grey; Polyethylene – black
200	450	280	130	165	206	3	
225	475	305	143	165	231	3	
250	500	330	155	165	256	3	
280	530	360	170	165	286	3	

DAMPERS AND AIR VALVES

Type 2





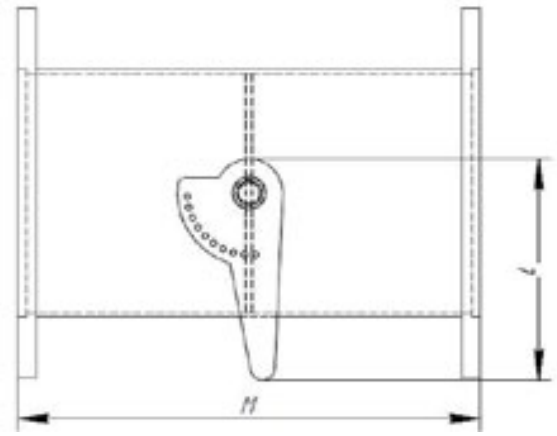




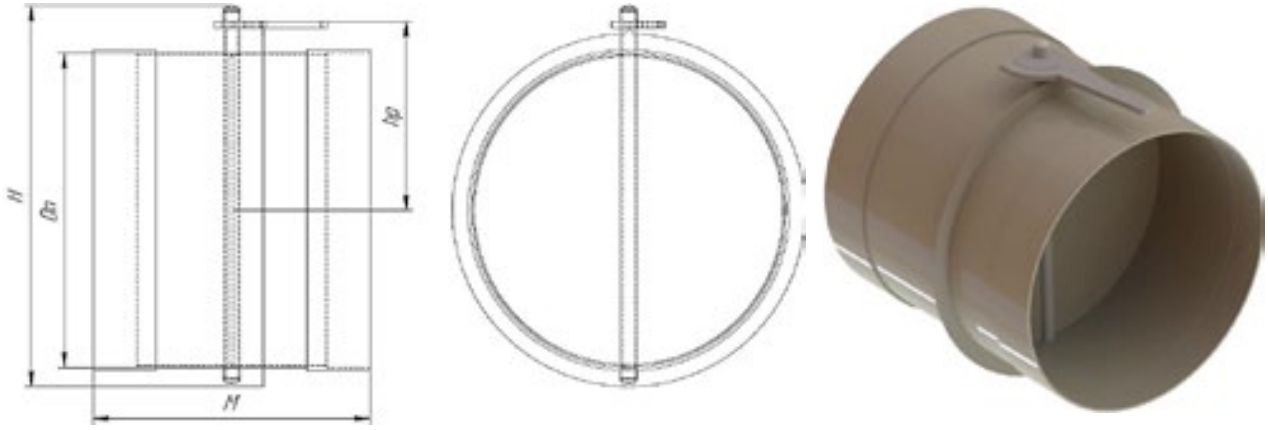
Table of valve sizes - Type 2

Size of valve	Construction length	Height of valve	Distance to the handle	Length of the handle	Outer diameter	Wall thickness	Flange thickness	Color
DN, mm	M, mm	H, mm	hp, mm	L, mm	Dв, mm	S, mm	Sfl, mm	
50	150	195	83	165	100	2	5	Dark grey
110	210	255	125	165	210	3	5	
160	260	305	150	165	260	3	5	Red
180	280	325	160	165	280	3	5	Polypropylene - RAL 7032 grey;
200	300	345	170	165	300	3	5	
225	325	370	183	165	325	3	5	
250	350	395	195	165	350	3	5	Polyethylene – black
280	390	425	210	165	390	3	5	

DAMPERS AND AIR VALVES

Large-diameter PP air valves

Type 1



Type 2

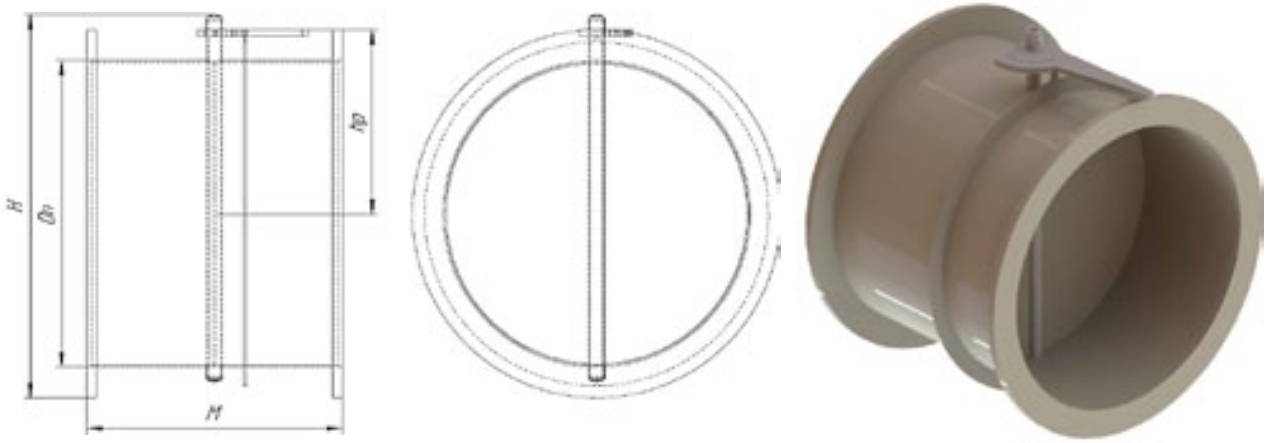


Table of sizes for valve of big diameters

Size of valve	Construction length	Height of valve Type 1	Height of valve Type 2	Distance to the handle	Length of the handle	Wall thickness	Flange thickness	Color
DN, mm	M, mm	H, mm	H, mm	hp, mm	L, mm	S, mm	Sfl, mm	
300	400	400	445	220	200	3	5	Polypropylene - RAL 7032 grey; Polyethylene - black
355	455	455	500	178	200	3	5	
400	500	500	545	270	200	3	5	
450	550	550	595	295	200	3	5	
500	600	600	695	320	330	5	8	
560	660	660	705	350	330	5	8	
600	700	700	745	370	330	5	8	
630	730	730	775	385	330	5	8	
700	800	800	845	420	330	5	8	
710	810	810	855	425	330	8	10	
800	900	900	945	470	500	8	10	
900	1000	1000	1045	520	500	10	15	
1000	1100	1100	1145	570	500	10	15	
1200	1300	1300	1345	670	500	10	15	
1250	1350	1350	1395	695	500	10	15	

Backdraft dampers

APPLICATION AND SELECTION
Select this component to match the duct geometry, airflow duty and installation arrangement shown. Polymer construction offers corrosion resistance in compatible media. Confirm the material, connection details and required performance for the project; access for inspection and cleaning should be maintained.

Socket wall thickness matches the component wall thickness. Alternative thicknesses and flange arrangements are available on request.

Types of dampers' connection

Type 1 - M – Socket
Type 2 - F – Flange

Ordering reference for back-flow damper

Damper GUA-PP-OBR-DN-type-PRN

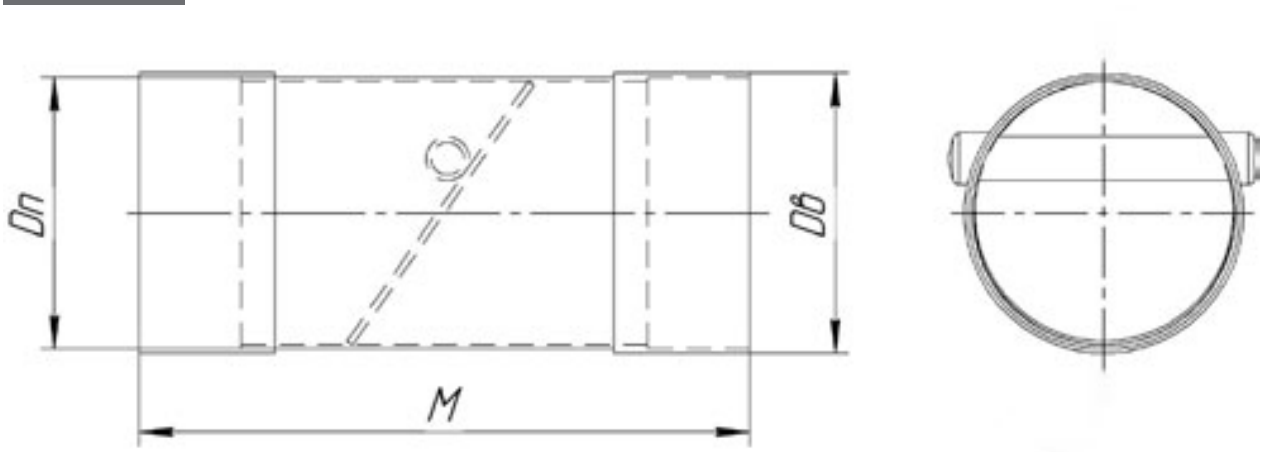
G…N – Gerhman
PP – type of polymer – polypropylene
OBR – type of valve – back-flow damper
DN – outer diameter
Type – type of connection (1 – Socket, 2 – Flange)
PR – drive (R – manual, E – electrical)

Ordering example:

Damper GUA-PP-OBR-200-1-RN

DAMPERS AND AIR VALVES

Type 1



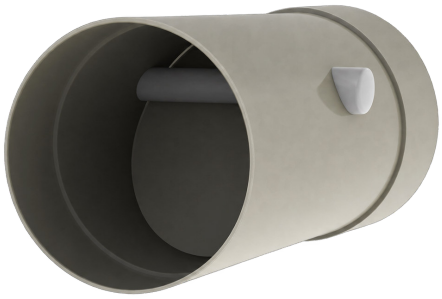


Table of damper sizes – Type 1

Size of Damper	Construction length*	Outer diameter	Wall thickness	Color
DN, mm	M, mm	Dв, mm	S, mm	
50	320	56	2	Dark grey
110	390	116	3	
160	450	166	3	Red
180	470	186	3	Polypropylene – RAL 7032 grey; Polyethylene - black
200	500	206	3	
225	530	231	3	
250	560	256	3	
280	600	286	3	

Note: the actual length may differ a little from that one in the table.

DAMPERS AND AIR VALVES

Type 2

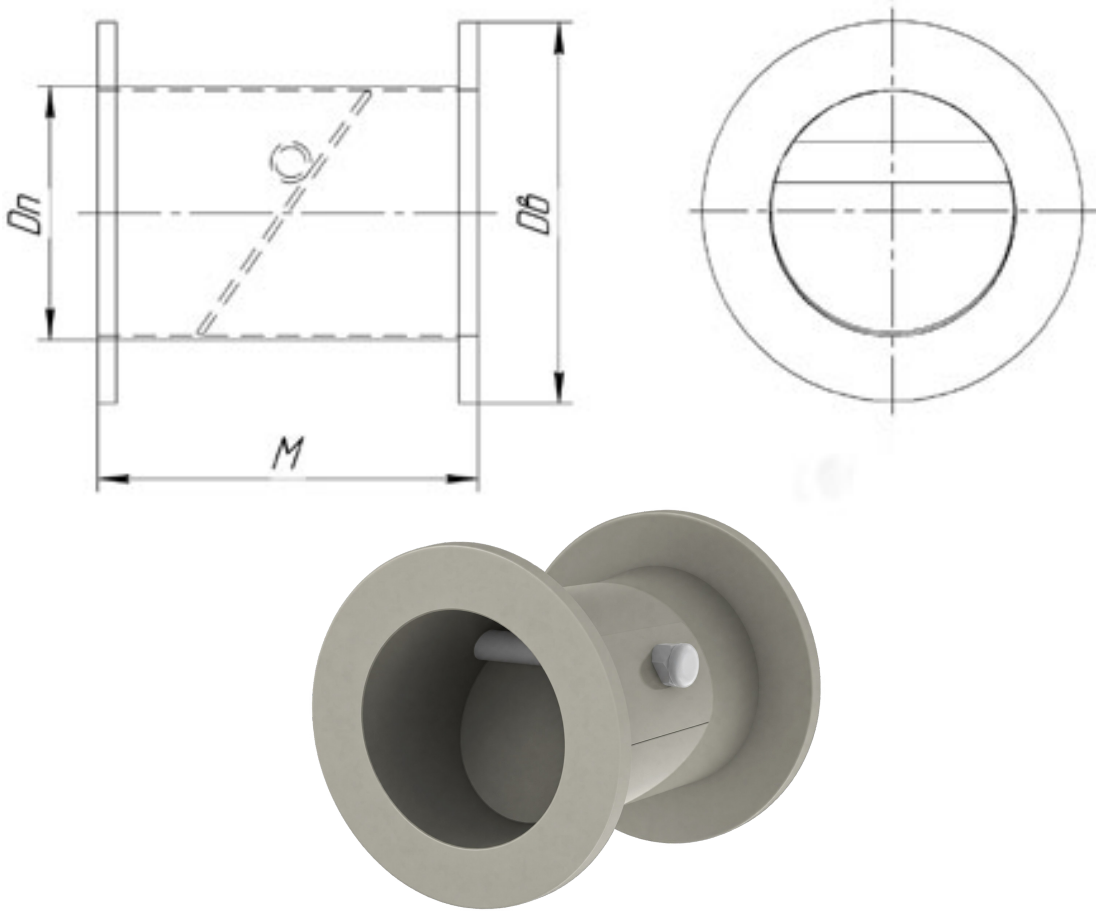


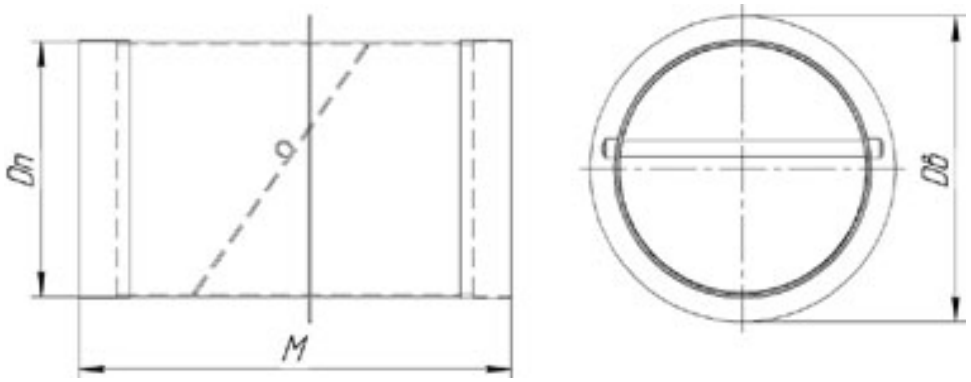
Table of damper sizes – Type 2

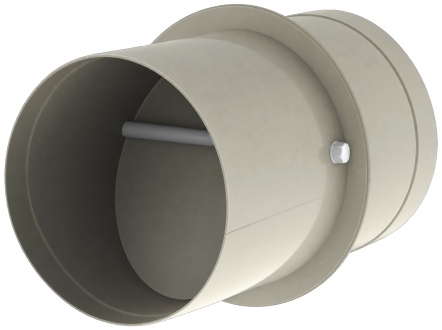
Size of damper	Construction length*	Outer diameter	Wall thickness	Flange thickness	Color
DN, mm	M, mm	Dв, mm	S, mm	Sfl, mm	
50	170	100	2	5	Dark grey
110	240	210	3	5	
160	300	260	3	5	Red
180	320	280	3	5	Polypropylene – RAL 7032 grey; Polyethylene – black
200	350	300	3	5	
225	380	325	3	5	
250	410	350	3	5	
280	450	390	3	5	

Note: the actual length may differ a little from that one in the table.

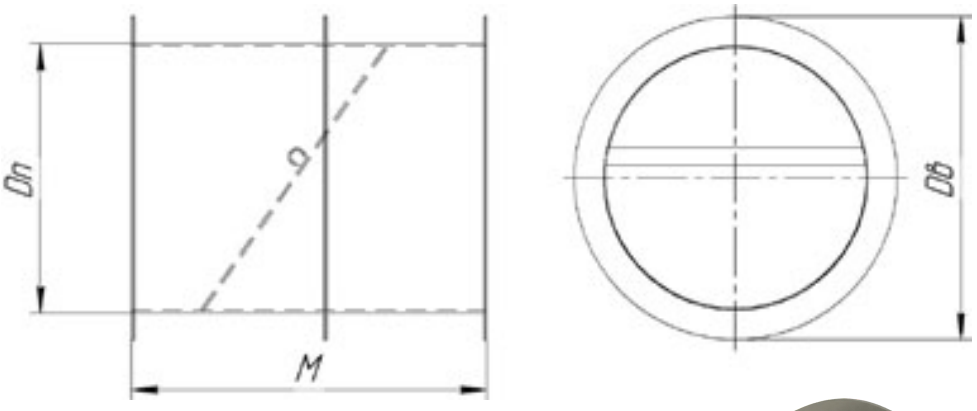
Large-diameter backdraft dampers

Type 1





Type 2



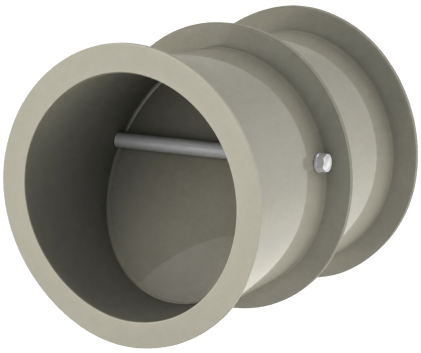


Table of sizes for back-flow dampers of big diameters

Size of damper	Construction length Type 1*	Construction length Type 2*	Outer diameter	Wall thickness	Flange thickness	Color
DN, mm	M, mm	M, mm	Dв, mm	S, mm	Sfl, mm	
300	620	470	400	3	5	Polypropylene - RAL 7032 grey; Polyethylene - black
355	690	540	455	3	5	
400	740	590	500	3	5	
450	800	650	550	3	5	
500	860	710	600	5	8	
560	940	790	660	5	8	
600	990	840	700	5	8	
630	1020	870	730	5	8	
700	1110	960	800	5	8	
710	1120	970	810	8	10	
800	1230	1080	900	8	10	
900	1350	1200	1000	10	15	
1000	1470	1320	1100	10	15	
1200	1720	1570	1300	10	15	
1250	1780	1630	1350	10	15	

Note: the actual length may differ a little from that one in the table.

DAMPERS AND AIR VALVES

REVERSING VALVE

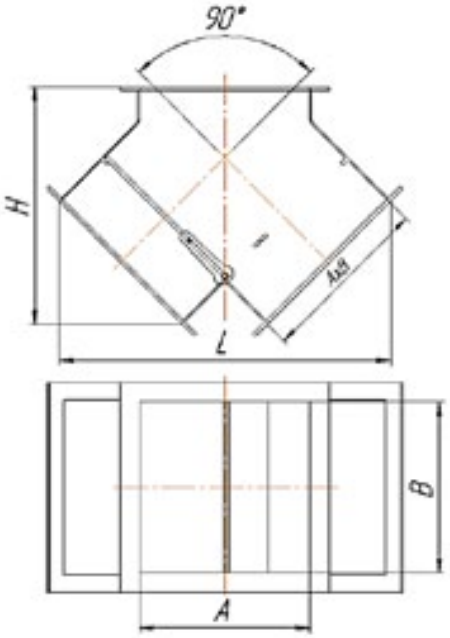
Polymer construction is available in PP or PE. Select the material and connections for the conveyed medium and installation.

The reversing valve changes the airflow path between operating and standby fan connections. Confirm the switching sequence, actuator arrangement and required isolation performance for the project.

It is recommended to montage the reversing valves on vertical sections of input ducts.

Socket wall thickness matches the component wall thickness. Alternative thicknesses and flange arrangements are available on request.

Width of valve cross-section	Length of valve cross-section	Height	Length	Thickness of casing wall	Flange thickness
A, mm	B, mm	H, mm	L, mm	S, mm	Sfl, mm
150	150	337	412	3	5
250	250	428	554	3	5
250	300	428	554	3	5
400	400	565	765	3	5
500	500	657	907	5	8
600	600	749	1049	5	8
800	800	931	1331	8	10
1000	1000	1114	1614	10	15



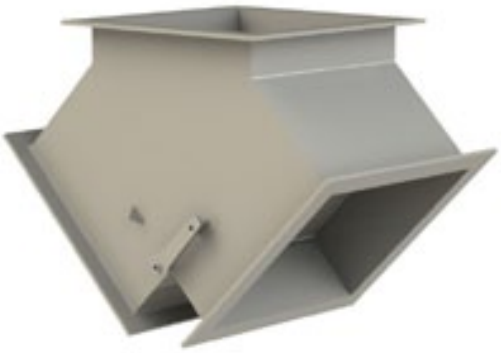
Ordering reference for back-flow damper

Reversing valve GUA-PP-AxB-typeN

G…N – Gerhman
PP – type of polymer – polypropylene
PE – type of polymer – polyethylene
AxB – outer dimensions of duct cross-section
Type – type of connection (1 – Socket, 2 – Flange)

Ordering example:

Reversing valve GUA-PP-500x500-2N

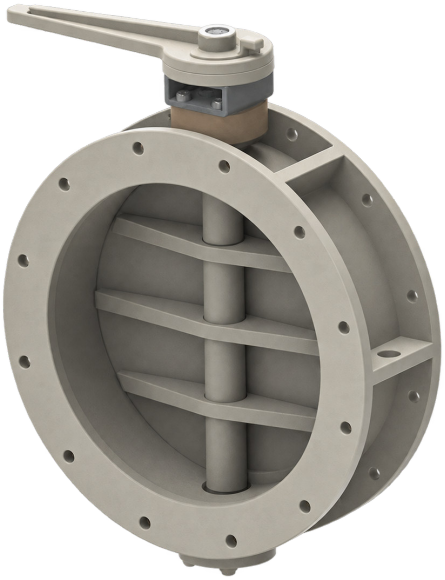


DAMPERS AND AIR VALVES

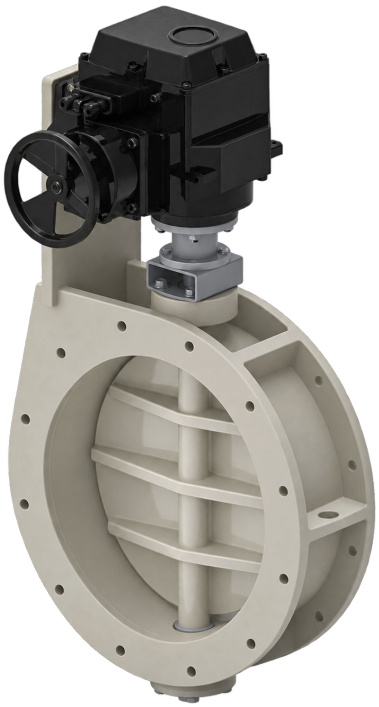
GAS-TIGHT DAMPER — GPGVUN

The product data specify operation with compatible media at temperatures up to 80 °C and operating pressure up to 0.004 MPa. Confirm material and sealing compatibility for the duty.

The stated pressure differential across the closed damper is 0.012 MPa. The range covers DN 160–1250 with blade rotation from 0–90 degrees. Manual and electric actuation are available. Operating pressure and closed-damper differential are separate ratings.



Gas-tight valve GPGVUN with hand drive



Gas-tight valve GPGVUN electric actuator

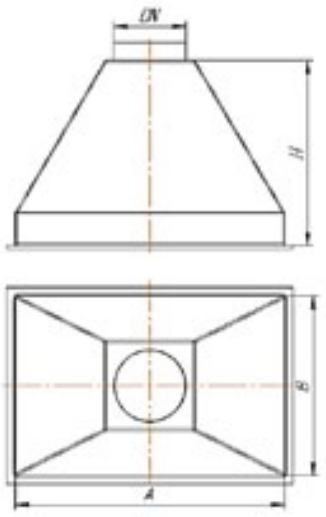
EXTRACTION HOODS

Exhaust hoods

EXTRACTION HOODS
Local extraction hoods collect contaminated air close to the process and connect to the exhaust ductwork. Hood size, position and extraction airflow must be coordinated with the source and surrounding air movement.

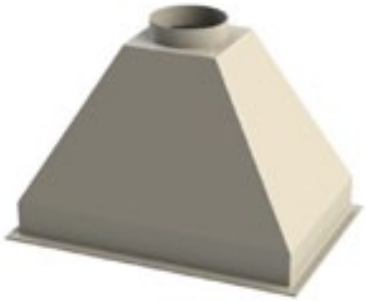
The canopy angle should not exceed 60°. Select the polymer for the process temperature and chemical exposure. The hood forms part of an engineered extraction system; capture performance depends on the complete installation.

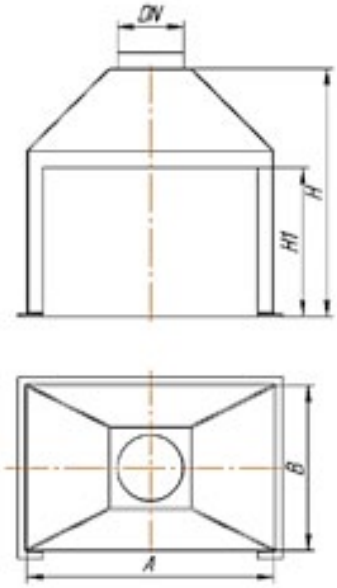
We produce the hoods taking into account the customer targets.



Ordering reference for suspended hood
Exhaust hood GUA-PP-AxB-H-ND-typeN of connection
(1 – Socket, 2 – Flange)

Ordering example:
Exhaust hood GUA-PP-1500 x 1000-1050-400-FN





Ordering reference for hood for installation on bath rim:
Exhaust hood GUA-PP-AxB-H-H1-ND-typeN of connection
(1 – Socket, 2 – Flange)

Ordering example:
Exhaust hood GUA-PP-1500 x 1000-1000-1050-400-MN



EXTRACTION HOODS

Side-extraction hoods

SLOTTED SIDE-EXTRACTION HOODS

Side-extraction hoods collect contaminated air along the edge of process baths. The arrangement can be coordinated with the bath geometry and available installation space.

Standard and inverted arrangements use vertical or horizontal intake slots respectively. Single-sided, double-sided, sectional and U-shaped configurations are available. Select the configuration for the bath and process.



Project-specific dimensions and integrated airflow valves can be considered on request. Provide the bath layout, process medium and required extraction duty.

Standard constructions of lateral hoods

Variant 1



Variant 2



Variant 3



Variant 4



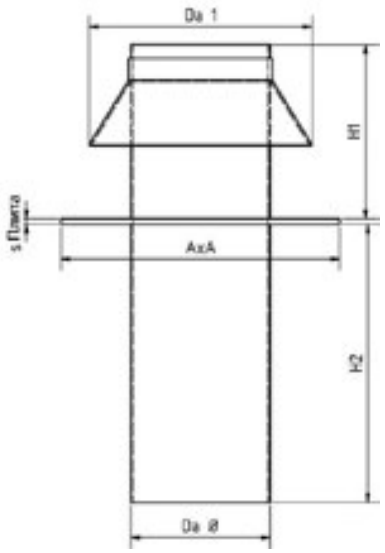
Roof heads

APPLICATION AND SELECTION
Select this component to match the duct geometry, airflow duty and installation arrangement shown. Polymer construction offers corrosion resistance in compatible media. Confirm the material, connection details and required performance for the project; access for inspection and cleaning should be maintained.

Socket wall thickness matches the component wall thickness. Alternative thicknesses and flange arrangements are available on request.

Roof head 0°

Dimensional drawing





Size of roof head	Dimensions					Pipe thickness	Flange thickness
Ø	H1	H2	A x A	Ø 1	S1 Sheet	S	Sfl, mm
110*	250	400	350x350	200	8	3	5
160**	250	400	400x400	315	8	3	5
180	250	400	400x400	315	8	3	5
200	250	400	400x400	315	8	3	5
225	250	400	450x450	400	10	3	5
250	250	400	450x450	450	10	3	5

ROOF TERMINALS AND CONDENSATE HOUSINGS

Size of roof head	Dimensions					Pipe thickness	Flange thickness
Ø	H1	H2	A x A	Ø 1	S1 Sheet	S	Sfl, mm
280	250	400	500x500	500	10	3	5
315	250	400	500x500	500	10	3	5
355	250	400	550x550	500	10	3	5
400	250	400	600x600	500	10	3	5
450	250	400	750x750	600	10	3	5
500	250	400	800x800	700	10	5	8
560	250	400	860x860	800	10	5	8
600	250	400	900x900	800	10	5	8
630	250	400	930x930	800	10	5	8
700	250	400	1100x1100	900	10	5	8
710	250	400	1100x1100	900	10	8	10
800	250	400	1200x1200	1000	10	8	10
900	250	400	1300x1300	1200	10	10	15
1000	250	400	1400x1400	1200	10	10	15
1200	250	400	1600x1600	1400	10	10	15
1250	250	400	1650x1650	1400	10	10	15

Note:

* Color of roof head Ø 110 mm – dark grey

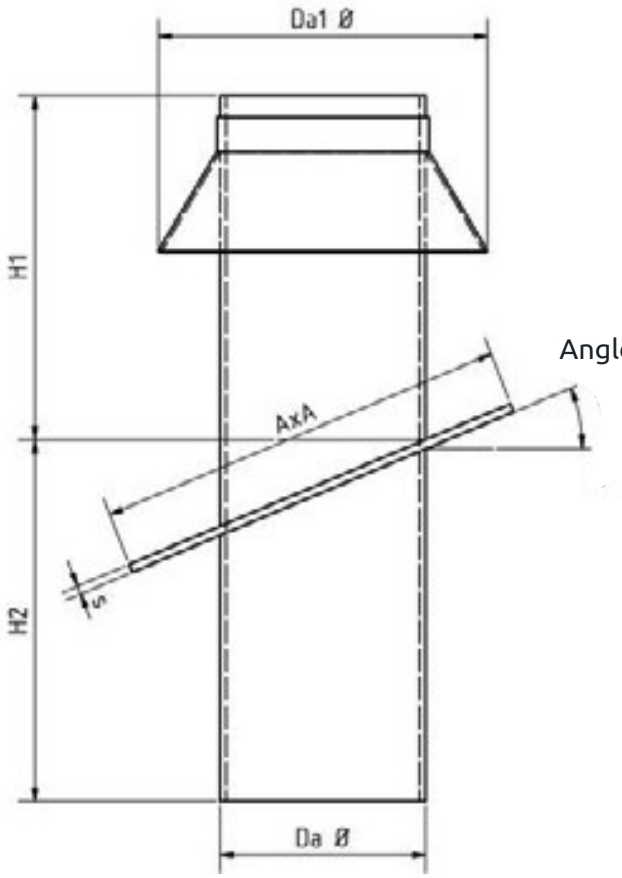
** Color of roof head Ø 160 mm – red

Colors of other roof heads: made from PP - RAL 7032 grey; made from PE - black.

ROOF TERMINALS AND CONDENSATE HOUSINGS

Roof head 1-22°

Dimensional drawing



Angle of slope



Size of roof head	Dimensions					Pipe thickness	Flange thickness
Ø	H1	H2	A x A	Ø 1	S1 Sheet	S	Sfl, mm
110*	300	430	400x400	200	8	3	5
160**	300	440	450x450	315	8	3	5
180	300	445	450x450	315	8	3	5
200	300	450	450x450	315	8	3	5
225	300	455	500x500	400	10	3	5
250	300	460	500x500	450	10	3	5
280	300	470	550x550	500	10	3	5
315	300	480	550x550	500	10	3	5
355	300	490	600x600	500	10	3	5
400	300	500	650x650	500	10	3	5

ROOF TERMINALS AND CONDENSATE HOUSINGS

Size of roof head	Dimensions					Pipe thickness	Flange thickness
Ø	H1	H2	A x A	Ø 1	S1 Sheet	S	Sfl, mm
450	300	550	800x800	600	10	3	5
500	300	550	850x850	700	10	5	8
560	300	600	910x910	800	10	5	8
600	300	600	950x950	800	10	5	8
630	300	600	1000x1000	800	10	5	8
700	300	650	1200x1200	900	10	5	8
710	300	650	1200x1200	900	10	8	10
800	300	700	1300x1300	1000	10	8	10
900	300	750	1400x1400	1200	10	10	15
1000	300	800	1500x1500	1200	10	10	15
1200	300	850	1700x1700	1400	10	10	15
1250	300	850	1700x1700	1400	10	10	15

Note:

* Color of roof head Ø 110 mm – dark grey

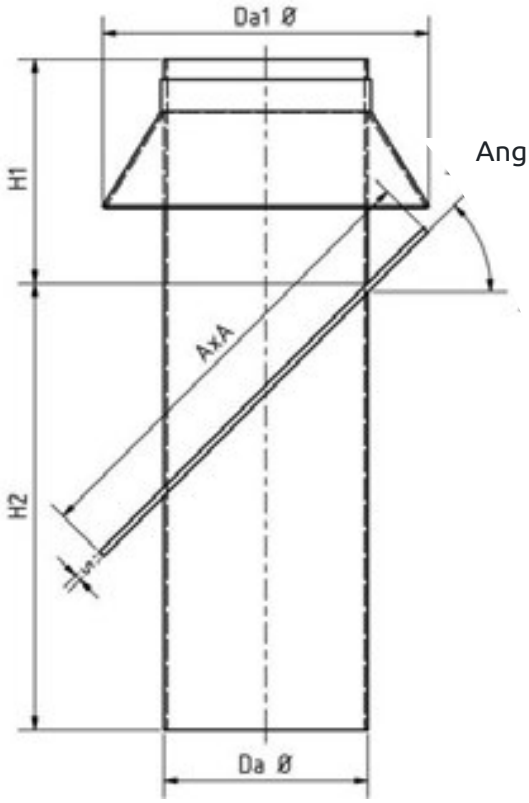
** Color of roof head Ø 160 mm – red

Colors of other roof heads: made from PP - RAL 7032 grey; made from PE - black.

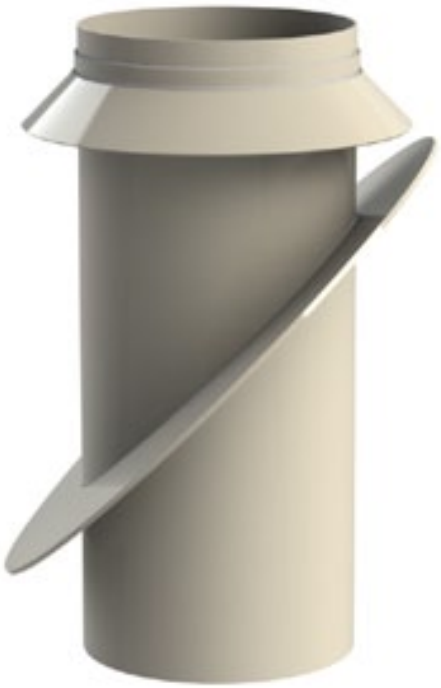
ROOF TERMINALS AND CONDENSATE HOUSINGS

Roof head 23-45°

Dimensional drawing



Angle of slope



Size of roof head	Dimensions					Pipe thickness	Flange thickness
Ø	H1	H2	A x A	Ø 1	S1 Sheet	S	Sfl, mm
110*	350	450	450x450	200	8	3	5
160**	350	480	500x500	315	8	3	5
180	350	490	500x500	315	8	3	5
200	350	500	500x500	315	8	3	5
225	350	510	550x550	400	10	3	5
250	350	525	550x550	450	10	3	5
280	350	540	600x600	500	10	3	5
315	350	550	600x600	500	10	3	5
355	350	570	650x650	500	10	3	5
400	350	600	700x700	500	10	3	5

ROOF TERMINALS AND CONDENSATE HOUSINGS

Size of roof head	Dimensions					Pipe thickness	Flange thickness
Ø	H1	H2	A x A	Ø 1	S1 Sheet	S	Sfl, mm
450	350	700	1050x1050	600	10	3	5
500	350	800	1100x1100	700	10	5	8
560	350	900	1160x1160	800	10	5	8
600	350	900	1200x1200	800	10	5	8
630	350	950	1230x1230	800	10	5	8
700	350	1050	1400x1400	900	10	5	8
710	350	1050	1400x1400	900	10	8	10
800	350	1150	1600x1600	1000	10	8	10
900	350	1250	1750x1750	1200	10	10	15
1000	350	1350	1900x1900	1200	10	10	15
1200	350	1650	2150x2150	1400	10	10	15
1250	350	1650	2200x2200	1400	10	10	15

Note:

* Color of roof head Ø 110 mm – dark grey

** Color of roof head Ø 160 mm – red

Colors of other roof heads: made from PP - RAL 7032 grey; made from PE - black.

Condensate deflector housing

CONDENSATE DEFLECTOR HOUSING
This roof terminal directs discharge vertically and provides drainage for rainwater and condensate. Coordinate the drain, roof connection and discharge location with the installation.

The wall thickness of socket connection is always equal to wall thickness of condenser deflector housing.

Alternative wall thicknesses and flange arrangements are available on request, subject to manufacturer confirmation.

Type 1

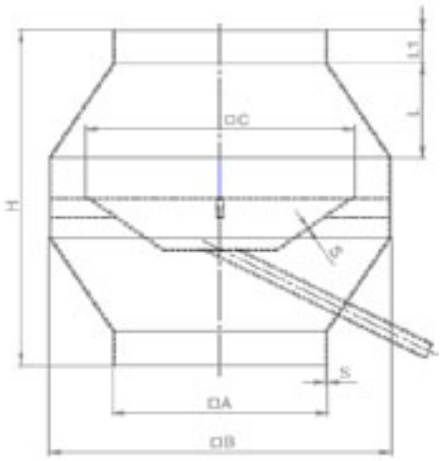
ØDA	H	L1	L	Ø A	Ø C	S	Flange thickness
110	245	40	77	185	143	3	5
160	356	40	112	269	208	3	5
180	400	40	126	302	234	3	5
200	445	40	140	336	260	3	5
225	500	40	158	378	293	3	5
250	556	40	175	420	325	3	5
280	623	50	196	470	364	3	5
315	701	50	221	529	410	3	5
355	790	50	249	596	462	3	5
400	890	50	280	672	520	3	5
450	1001	50	315	756	585	3	5
500	1112	50	350	840	650	5	8
560	1245	60	392	941	728	5	8
600	1334	60	420	1008	780	5	8
630	1401	70	441	1058	819	5	8
700	1557	70	490	1176	910	5	8
710	1579	80	497	1193	923	8	10
800	1779	80	560	1344	1040	8	10
900	2002	90	630	1512	1170	10	15
1000	2224	100	700	1680	1300	10	15
1200	2669	120	840	2016	1560	10	15
1250	2780	130	875	2100	1625	10	15



ROOF TERMINALS AND CONDENSATE HOUSINGS

Type 2





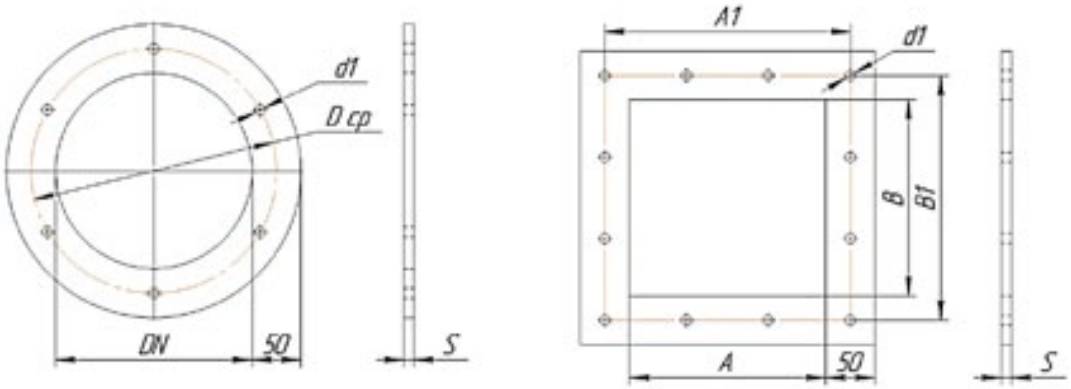
ØDA	H	L1	L	Ø A	Ø C	S	Flange thickness
110	210	40	25	175	138	3	5
160	305	40	37	255	200	3	5
180	343	40	41	287	225	3	5
200	381	40	46	319	250	3	5
225	429	40	52	359	281	3	5
250	476	40	57	398	313	3	5
280	533	50	64	446	350	3	5
315	600	50	138	502	394	3	5
355	676	50	155	566	444	3	5
400	762	50	175	638	500	3	5
450	857	50	197	717	563	3	5
500	952	50	219	797	625	5	8
560	1067	50	245	893	700	5	8
600	1143	50	263	956	750	5	8
630	1200	50	276	1004	788	5	8
700	1333	50	306	1116	875	5	8
710	1352	50	311	1132	888	8	10
800	1524	50	350	1275	1000	8	10
900	1714	50	394	1434	1125	10	15
1000	1905	50	438	1594	1250	10	15
1200	2286	50	525	1913	1500	10	15
1250	2381	50	547	1992	1563	10	15

FLANGES AND FABRICATION

Flat clamping flanges

FLANGES
Flanges are CNC-machined from PP, PE or PVC sheet and provide a bolted duct connection. Select the polymer, dimensions and mating arrangement to suit the adjoining equipment.

Hole patterns, recesses and sealing arrangements, including PTFE tape where suitable, can be specified on request. Confirm gasket compatibility and the required connection detail.



Ordering reference for round flange:
GUA-PP-Fl-DN-50-S-d1-n-D av.N

Ordering example:
GUA-PP-Fl-500-50-10-10-8-450N

Ordering reference for rectangular flange:
GUA-PP-Fl-AxB-50-S-d1-n-A1xB1N

Ordering example:
GUA-PP-Fl-500x400-50-10-10-10-450x350N

G…N – Gerhman
PP – type of polymer – polypropylene
PVC – type of polymer – polyvinylchloride
PE – type of polymer – polyethylene
DN – outer diameter of duct with round cross-section
AxB – outer dimensions of duct with rectangular cross-section
50 – flange width
S – flange thickness
d1 – diameter of fastener hole
n – quantity of fastener holes
D av– average diameter of fastener holes for round flange
A1xB1 – dimension for position of fastener holes for rectangular flange



FLANGES AND FABRICATION

CNC-machined polymer components

CNC FABRICATION

Sheet machining supports the manufacture of flanges, connection plates and project-specific polymer components. Gerhman coordinates drawings and dimensional requirements with the supplier.



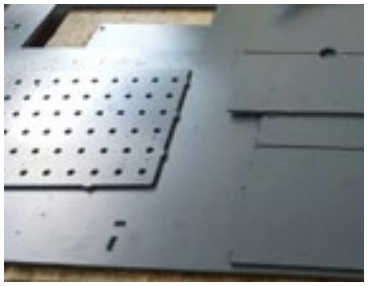
SUPPLIER EQUIPMENT CAPABILITY

The source catalogue lists a 2000 x 4000 mm machining table, maximum sheet thickness of 40 mm and machining accuracy of 0.3 mm. Confirm applicability to the selected material and component.

CNC cutting supports repeatable geometry and the preparation of complex profiles. Supply the approved drawing, material grade, thickness and required tolerances for review.

We accept drawings made with software AutoCad, Kompas, SolidWorks, and also freehand drawings with necessary dimensions.



FLEXIBLE FAN CONNECTIONS

Flexible fan connections

FLEXIBLE FAN CONNECTIONS
Flexible connections accommodate relative movement, thermal expansion and vibration between the fan and ductwork. Select the connector for the movement, pressure and chemical exposure of the installation.

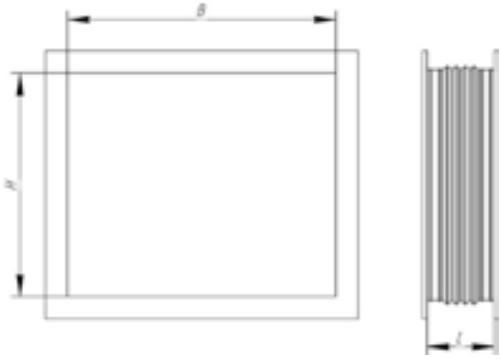
The illustrated connector has a 6-wave flexible construction. The source specifies PP/PVC options; confirm the actual flexible material, flange arrangement and operating limits for the selected assembly.

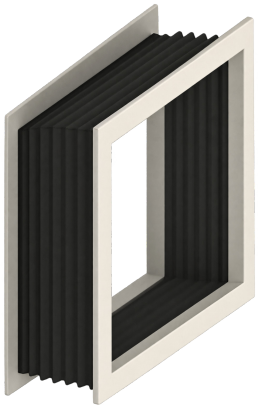


Socket wall thickness matches the component wall thickness. Alternative thicknesses and flange arrangements are available on request.

Types of connection:
M – Socket F – Flange

Flexible connector of rectangular section



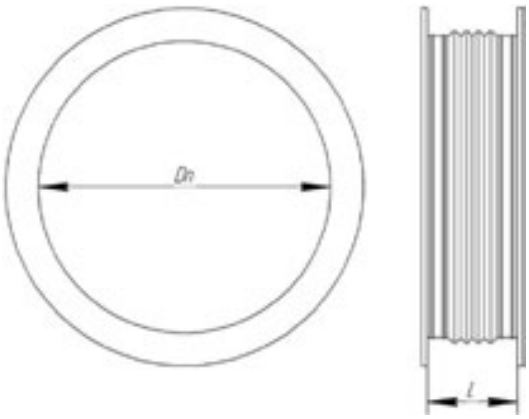


Height H, mm	Width B, mm	Flexible connector length L, mm	Material thickness for flexible connector	Flange thickness S fl, mm
130	170	150	3	5
140	140			5
140	185			5
160	210			5
175	175			5
175	230			5
200	260			5
220	220			5
225	290			5
250	330			5
280	280			5
280	365			5
310	405			5
320	320			5
345	455			5
350	350			5
390	510			8
400	400			5
441	441			5
500	500			8
560	560			8
630	630			8
700	700			8
790	790			10
875	875			10

GERHMAN | Product dimensions and selection data

FLEXIBLE FAN CONNECTIONS

Circular flexible connection





Ordering reference for flexible connector:
Welded corrugated 6-wave chemically resistant flexible connector GUA-PP(PVC)-3-HxB(Dn)-typeN of connection

G…N – Gerhman
PP – type of polymer – polypropylene
PVC – type of polymer – polyvinylchloride
HxB – height and width of duct with rectangular section
3 – material thickness for flexible connector
Dn – outer diameter of duct with circular section
Type – type of connection (M – Socket, F – Flange)

Ordering example:
Welded corrugated 6-wave chemically resistant flexible connector GUA-PVC-3-200-FN

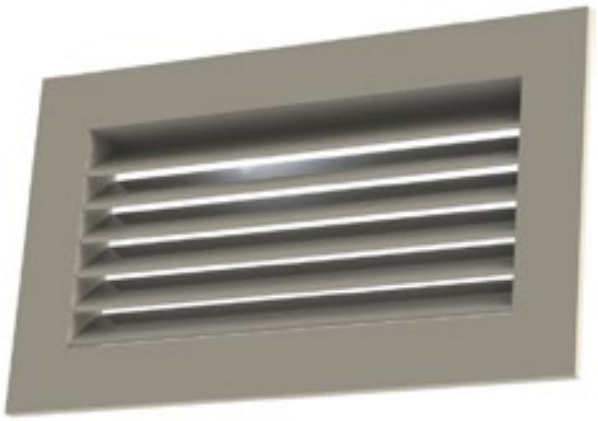
Diameter Dn, mm	Flexible connector length L, mm	Material thickness for flexible connector	Flange thickness S fl, mm
200	150	3	5
225			5
250			5
280			5
315			5
355			5
400			5
450			5
500			8
560			8
600			8
630			8
710			10
800			10
900			15
1000			15
1200			15
1250			15

Project-specific connector sizes are available on request.

GRILLES AND OUTLET COWLS

Inlet/outlet grille with rectangular stacking frame

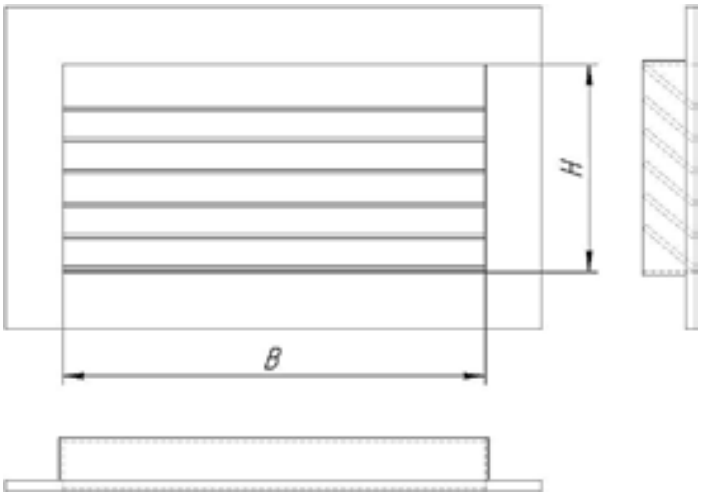
APPLICATION AND SELECTION
Select this component to match the duct geometry, airflow duty and installation arrangement shown. Polymer construction offers corrosion resistance in compatible media. Confirm the material, connection details and required performance for the project; access for inspection and cleaning should be maintained.



Dimensional drawing

H	B
00	100
400	100
500	100
600	100
300	150
400	150
500	150
600	150
300	200
400	200
500	200
600	200
300	250
400	250
500	250
600	250

Dimensional drawing



Project-specific grille sizes are available on request.

AIR TERMINALS | PROJECT RANGE

Linear bar grille



Proposed linear grille design for wall and ceiling applications, with a removable face for cleaning access.

COMPONENT	DIMENSIONS (mm)
Grille face	595 x 118
Grille body - drawing	560 x 83
Grille depth - drawing	21 / 15
Adaptor - drawing	580 base length; 565 upper length
Adaptor - drawing	114 base width; 89 upper width; 153 height
Connection options	200 or 250 diameter

RETURN AIR | PROJECT RANGE

Filtered return-air grille



Proposed return-air grille design with a removable filter and accessible face.

GERHMAN CODE	NECK*	CUT-OUT	BOX NECK	FACE
GRAG6045N	590 x 460	620 x 495	615 x 490	660 x 540
GRAG7035N	690 x 360	720 x 395	715 x 390	760 x 440
GRAG7550N	740 x 490	770 x 520	765 x 515	815 x 560
GRAG9035N	890 x 360	920 x 395	915 x 390	960 x 440
GRAG9050N	890 x 490	920 x 520	915 x 515	960 x 560

All dimensions in mm. *Neck excludes ribs; ribs add 7 mm.

GRILLES AND OUTLET COWLS

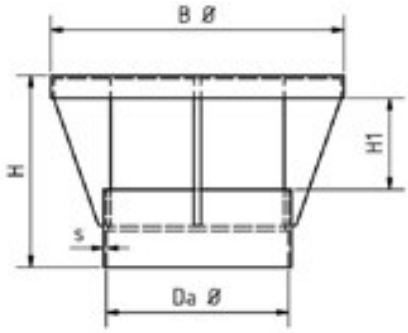
Outlet cowls

Plastic outlet cowls are intended to protect the ventilation system from precipitations.

Socket wall thickness matches the component wall thickness. Alternative thicknesses and flange arrangements are available on request.

Type 1

Dimensional drawing



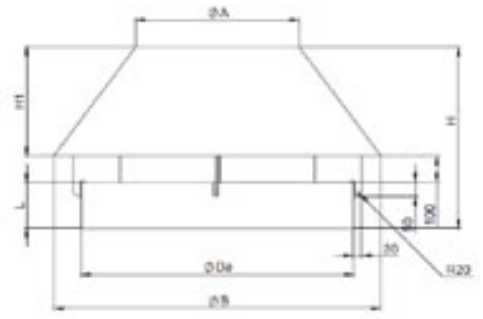


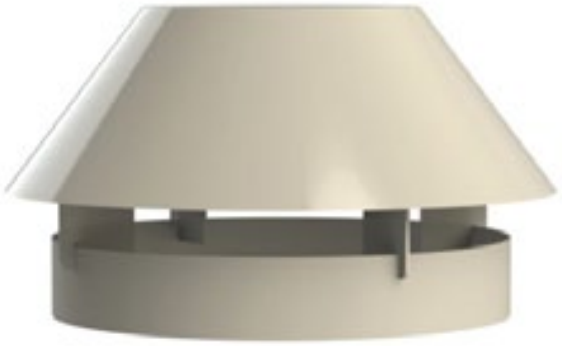
Size of cowl	Dimensions				ipe thickness	Flange thickness
Ø	L	H	H1	BØ	S	Sfl, mm
110	40	165	55	225	3	5
160	40	190	80	250	3	5
180	40	200	90	280	3	5
200	40	210	100	315	3	5
225	40	225	115	355	3	5
250	40	235	125	400	3	5
280	50	275	165	450	3	5
315	50	295	185	500	3	5
355	50	305	195	550	3	5
400	50	335	225	600	3	5
450	50	375	255	650	3	5
500	50	395	275	700	5	8
560	60	425	305	750	5	8
600	60	480	340	800	5	8
630	70	540	425	850	5	8
700	70	585	425	900	5	8
710	70	605	425	900	8	10
800	80	605	425	1000	8	10
900	90	675	475	1100	10	15
1000	100	945	725	1200	10	15
1200	120	1215	975	1400	10	15
1250	130	1265	1000	1450	10	15

GRILLES AND OUTLET COWLS

Type 2

Dimensional drawing





Size of cowl	Dimensions					Pipe thickness	Flange thickness
Ø Da	L	H	H1	ØA	ØB	S	Sfl, mm
110	40	165	50	70	225	3	5
160	40	190	70	100	250	3	5
180	40	200	80	115	280	3	5
200	40	210	90	130	315	3	5
225	40	225	100	145	355	3	5
250	40	235	110	160	400	3	5
280	50	275	125	180	450	3	5
315	50	295	140	200	500	3	5
355	50	305	160	225	550	3	5
400	50	335	180	255	600	3	5
450	50	375	205	290	650	3	5
500	50	395	230	320	700	5	8
560	60	425	260	360	750	5	8
600	60	480	280	385	800	5	8
630	70	540	295	405	850	5	8
700	70	585	330	450	900	5	8
710	70	605	335	455	900	8	10
800	80	605	375	515	1000	8	10
900	90	675	420	580	1100	10	15
1000	100	945	465	645	1200	10	15
1200	120	1215	560	775	1400	10	15
1250	130	1265	585	810	1450	10	15

GRATINGS | POLYPROPYLENE

PP open-grid panels



Application

Open polypropylene panels for drainage, ventilation openings and wet-area platforms. Confirm chemical exposure and structural support for the installation. This is a grating panel, not a rated air-distribution terminal.

STANDARD PANEL SIZE (mm)	THICKNESS (mm)
900 x 300	30
875 x 295	30
600 x 350	30

Selection and installation

Specify opening size, support spacing, service load, chemicals and temperature. Load capacity, slip classification, free area and airflow performance require confirmation. No load-bearing or chemical-exhaust rating is implied.

SPECIAL FITTINGS AND SILENCERS

SPECIAL FITTINGS
Project-specific polymer fittings can be developed from dimensional drawings. Provide the duct geometry, material, wall thickness, connections and installation constraints for manufacturer review.

Examples:

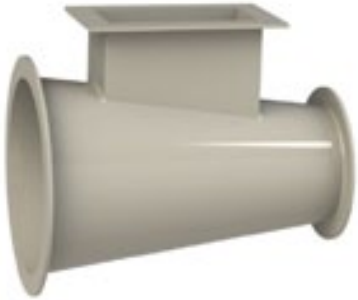
Collectors, crosses



Biased bends



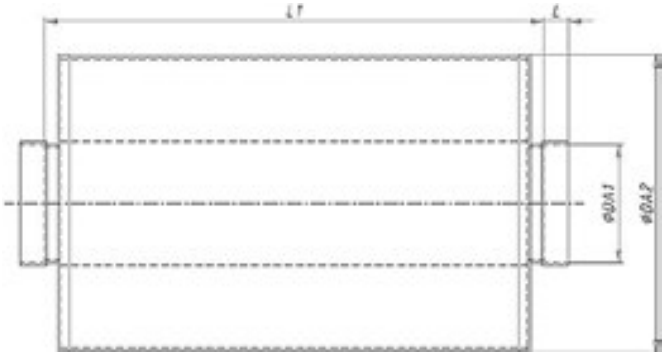
Reducing branch outlets



SPECIAL FITTINGS AND SILENCERS

PP sound attenuators

For compatible exhaust streams containing residual acid or alkali vapours.
Lengths: 500, 750, 1000, 1250, 1500, 1750 and 2000 mm.
Indicative values: approximately 15 Pa per 1 metre; attenuation 13–40 dB.
Socket or flange connections. Confirm performance for the selected airflow and frequency spectrum.





DA1	DA2	Thickness DA1	Thickness DA1	L	Color
110	315	3	3	70	Dark grey
160	355	3	3	70	Red
180	400	3	3	70	Polypropylene - RAL 7032 grey; Polyethylene - black
200	400	3	3	70	
225	450	3	3	70	
250	450	3	3	70	
280	500	3	5	70	
315	500	3	5	70	
355	500	3	5	70	
400	600	3	5	70	
450	700	3	5	70	
500	700	5	5	70	
560	800	5	8	70	
600	800	5	8	70	
630	800	5	8	70	
700	900	5	10	70	
710	900	8	10	70	
800	1000	8	10	70	
900	1100	10	10	70	
1000	1200	10	10	70	
1200	1400	10	10	70	
1250	1400	10	10	70	

DEMISTERS

Demisters

DROPLET SEPARATION
Demisters remove entrained liquid droplets from gas streams in air washers, scrubbers and process extraction systems. Changes in flow direction cause droplets to contact the profile surfaces, coalesce and drain under gravity.

A coalescing stage between the profile elements can enlarge fine droplets before separation in the second stage. Selection depends on droplet loading, airflow and the required separation duty.

The profile can be made from polypropylene or polyvinylchloride.
The resistance is 300 – 450 Pa depending on air flow rate.



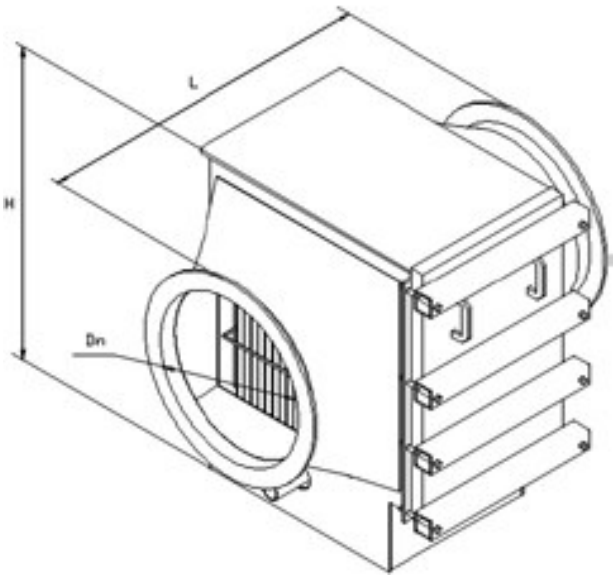


Table 1. Technical characteristics

Diameter	Airflow	L	H	Weight
Dn, mm	Q, m³/h	mm	mm	m, kg
160	800-1199	1040	635	21
180	1200-1499	1040	635	21
200	1500-1899	1040	635	21
224	1900-2299	1040	685	25
250	2300-2899	1040	685	25
280	2900-3599	1040	785	34
315	3600-4399	1040	785	34
355	4500-5699	1040	835	39
400	5700-7199	1040	885	44
450	7200-8999	1040	985	55
500	9000-11099	1040	1035	62
560	11100-13999	1140	1085	70
630	14000-17699	1220	1185	84
710	17700-22399	1280	1270	98
800	22400-28399	1380	1370	117
900	28400-35599	1480	1485	136
1000	35600-44099	1580	1670	175
1120	44100-55199	1680	1770	197
1250	55200-68800	1780	1970	242

GERHMAN | Product dimensions and selection data

DEMISTERS

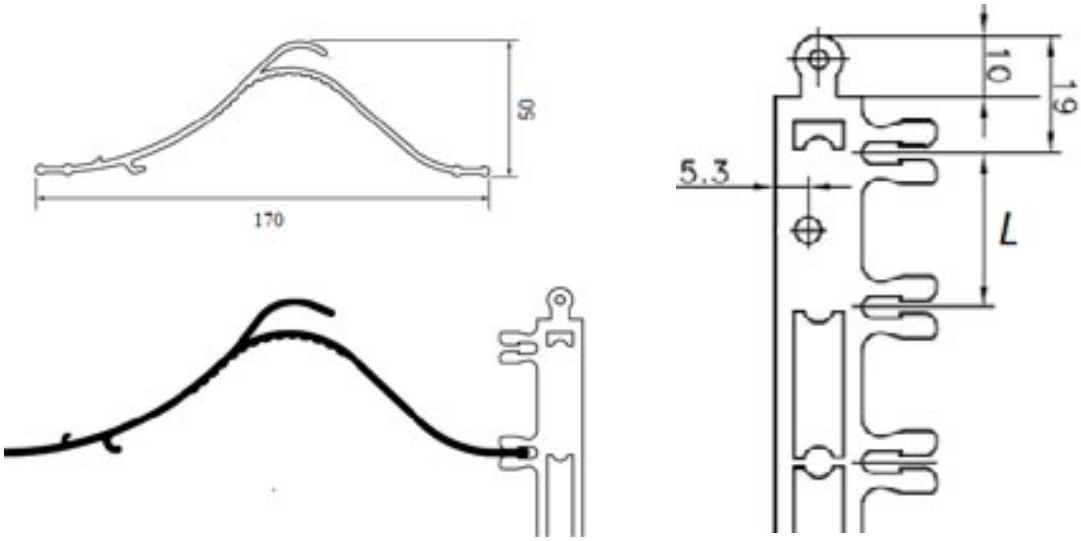
Demister cassette

HORIZONTAL-FLOW DEMISTERS
Corrugated profiles assembled into cassettes deflect the gas stream and promote droplet separation. The profile arrangement balances separation duty and airflow resistance.

Profiles are available in polypropylene or PVC. Standard profile sheets are supplied in 6 m lengths and can be cut to the required length. Select the polymer for the process conditions.

Droplets separate by inertia as the gas stream changes direction. Liquid collects on the profile surfaces and drains downwards. The profile geometry supports collection and drainage; actual efficiency depends on the operating conditions.

Applications include air collectors downstream of cooling coils, air washers and scrubber outlets. The product data list an inlet velocity range of 2–6 m/s. Confirm the selection for the required duty.



The distance between the profiles (L) can be 20 mm and 25 mm.

DEMISTERS

Demister cassettes are available without a housing (type 1) or with a housing (type 2). Housing materials include polypropylene and PVC, selected for the process medium.

Type 1



Type 2



Ordering reference for demister cassette

Demister cassette GUA-PP-H-L-typeN

GUAN – Gerhman
PP – type of polymer – polypropylene (or PVC)
H – length of profile
L – distance between sheets
type – type of supply 1 or 2

Gas washers

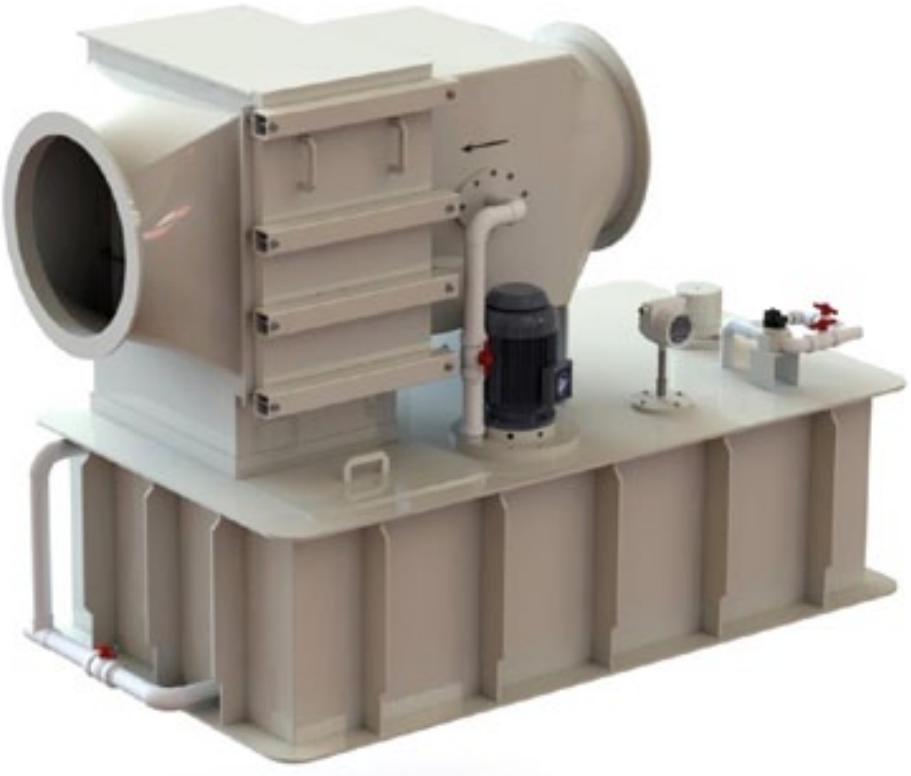
Air washers combine humidification with removal of airborne dust and droplets in suitable process applications.

Typical applications include printing, woodworking, food and textile processes and other installations requiring coordinated temperature and humidity control.

Polymer spray chambers combine air washing and humidification with a multistage droplet separator.
OPERATING PRINCIPLE

Recirculating water is sprayed into the air stream. Under approximately adiabatic conditions, evaporation increases the moisture content and reduces the air temperature. The illustrated spray arrangement directs liquid both with and against the airflow. Water quality and recirculation treatment must suit the process.

Contact with the scrubbing liquid promotes collection of dust and aerosols. The downstream demister separates entrained liquid from the gas stream. Use in supply or recirculating air systems is subject to the process, hygiene requirements and the required contaminant-removal performance.



GAS WASHERS

The resistance is 300 – 450 Pa depending on air flow rate.

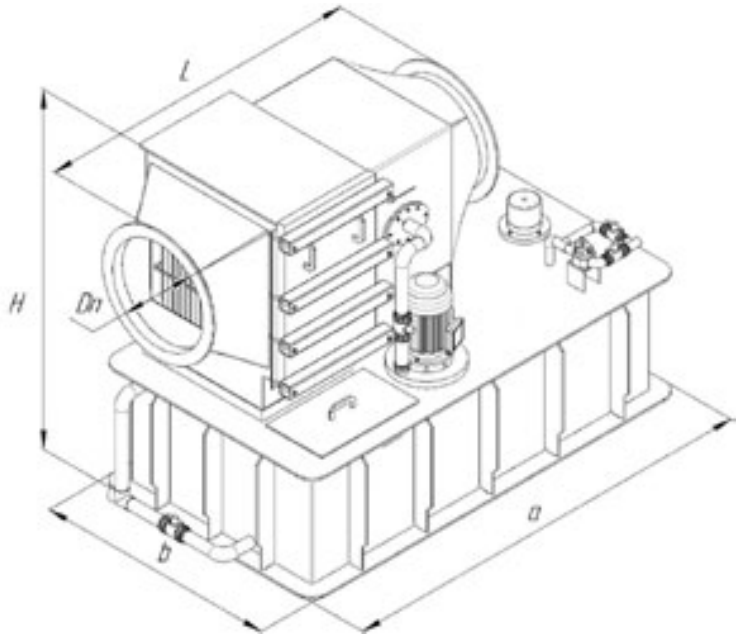


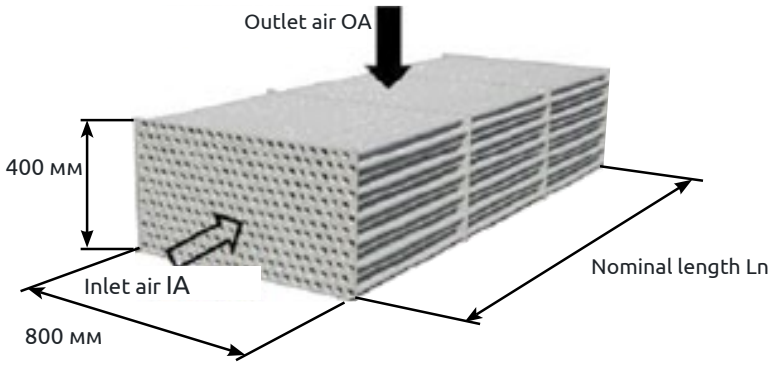
Table 1. Technical characteristics

Diameter	Airflow	L	H	a	b	c	Pump	Weight	Weight (with liquid)
Dn, mm	Q, m³/h	mm	mm	mm	mm	mm	P, kW	m1, kg	m2, kg
160	800-1199	1540	1205	1400	800	570	0,37	99	469
180	1200-1499	1540	1205	1400	800	570	0,37	99	470
200	1500-1899	1540	1205	1400	800	570	0,37	99	470
224	1900-2299	1540	1255	1400	800	570	0,37	103	474
250	2300-2899	1540	1255	1400	800	570	0,37	104	474
280	2900-3599	1540	1355	1400	800	570	0,37	115	486
315	3600-4399	1540	1355	1400	800	570	0,37	115	486
355	4500-5699	1540	1405	1400	950	570	0,37	127	587
400	5700-7199	1540	1455	1400	1000	570	0,37	134	624
450	7200-8999	1540	1555	1400	1100	570	0,37	153	703
500	9000-11099	1540	1605	1400	1150	570	0,37	162	742
560	11100-13999	1640	1655	1500	1250	570	0,37	180	872
630	14000-17699	1720	1755	1580	1350	570	1,1	210	1013
710	17700-22399	2030	1840	2300	1450	570	1,1	269	1589
800	22400-28399	2130	1940	2300	1550	570	1,1	295	1718
900	28400-35599	2230	2050	2300	1650	570	1,1	321	1848
1000	35600-44099	2330	2240	2300	1850	570	1,1	377	2111
1120	44100-55199	2430	2340	2500	1950	570	2,2	424	2436
1250	55200-68800	2530	2540	2500	2150	570	2,2	484	2724

POLYMER HEAT EXCHANGERS

PP HEAT EXCHANGERS — GUAN RANGE
Modular polymer heat exchangers recover heat from suitable process exhaust streams or reduce process-air temperature. They can also be coordinated with air-washing equipment.

Technical performance



Application

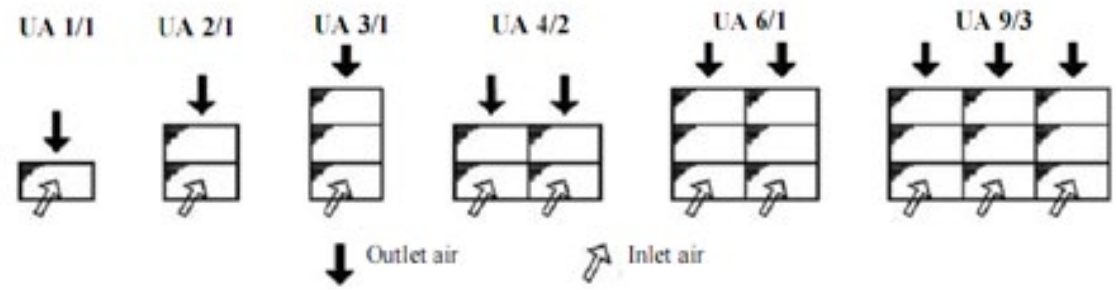
The product data specify heat recovery from humid or potentially corrosive exhaust air over a temperature range of –20 °C to +50 °C, subject to material compatibility.

Applications include compatible chemical and pharmaceutical extraction, laboratories, dyeing and laundry processes, surface treatment and agricultural facilities.

The product data describe heat-recovery effectiveness up to 0.50, equivalent to approximately 50% under the stated application conditions. Actual performance requires selection at the project duty.

CONSTRUCTION

The basic module has nominal dimensions of 800 x 400 x Ln and contains 258 polymer tubes secured to end plates. The cross-flow arrangement keeps the two air streams separate: exhaust air (OA) passes outside the tubes and inlet air (IA) passes inside. Modules are combined into blocks and installed in a casing to form the illustrated standard sizes.



POLYMER HEAT EXCHANGERS

The drawings show model V, with vertical exhaust-air flow. In model H the modules are rotated through 90°, giving horizontal exhaust-air flow alongside the horizontal inlet-air arrangement.

The range includes 36 standard types with 4 nominal tube lengths Ln: 1200, 1600, 2000 and 2500 mm. Alternative sizes and configurations are subject to manufacturer review.

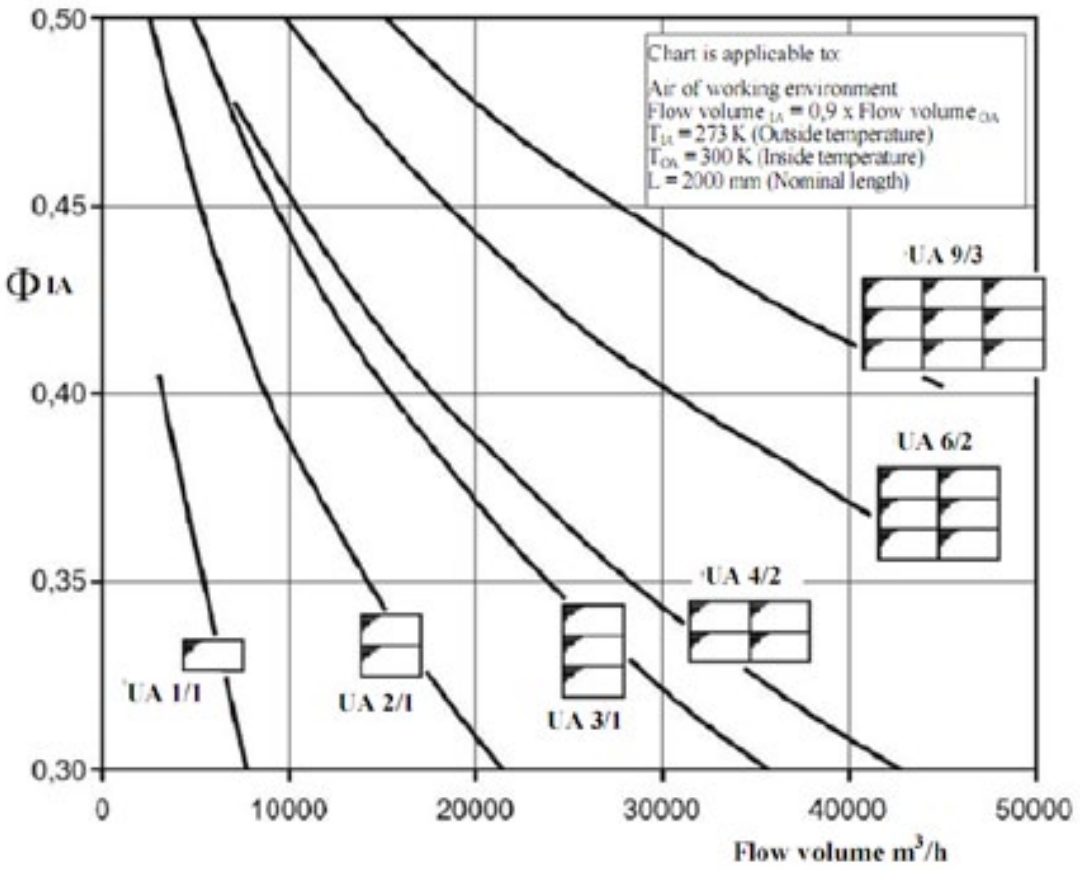
Labeling: GUAN Quantity of modules x lines of modules (direction to the outlet air)

Operational conditions

Volume of used air	about 3000-40000 m³/h
Temperature limit of working environment	-20 °C till +50 °C
Temperature limit of outside environment	0 °C till +40 °C (self-contained setting is not allowable)

Polymer construction offers chemical resistance in compatible media. Confirm the chemical composition, concentration and temperature of both air streams before selecting the material.

Specify the application and complete operating conditions when requesting a heat-exchanger selection.



POLYMER HEAT EXCHANGERS

Parameter calculation

SELECTION

Use the chart for preliminary module selection. Final sizing requires a manufacturer calculation using the project operating conditions, including:

- Inlet and exhaust airflow rates
- Exhaust-air inlet temperature
- Inlet-air entry temperature
- Humidity and chemical composition of the streams
- Operating hours and installation location

ENERGY ASSESSMENT

Annual energy savings depend on operating hours, indoor and outdoor temperatures and the selected heat-exchanger performance. Include the additional fan energy needed to overcome the pressure loss.

Assess total installed cost, including the heat exchanger, accessories and fans, alongside potential savings in heating energy and associated equipment.

Payback is project-specific. The material data give a 2-year example under favourable conditions; this is not a guaranteed return for a new installation.

Assembly/ maintenance

Follow below listed recommendations while assembling device.

Install a suitable dust filter at the inlet to reduce tube contamination. Position the exhaust fan to maintain the required pressure relationship across the exchanger and reduce contamination risk if a leak occurs. Confirm the complete system design.

Provide drainage for exhaust-side condensate. Compensating components accommodate the thermal expansion of the polymer assembly.

Model V uses vertical exhaust-air passage and requires a suitable steel support frame. Model H can be installed on a suitable level support. Confirm structural loads and service access for the selected configuration.

Connection profiles are available as accessories. Provide access for regular cleaning, particularly on the exhaust side. Frost protection must be designed for the operating conditions; do not reduce essential process extraction without an approved control strategy.

Examples of installation:

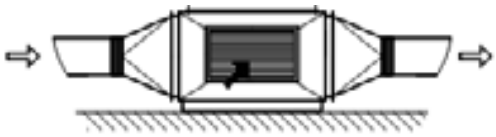


Outlet air

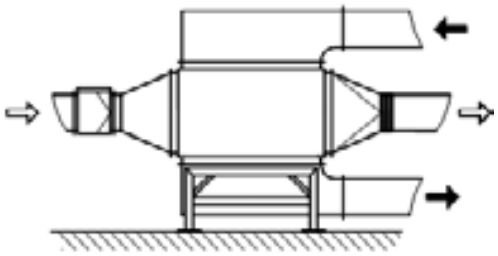


Inlet air

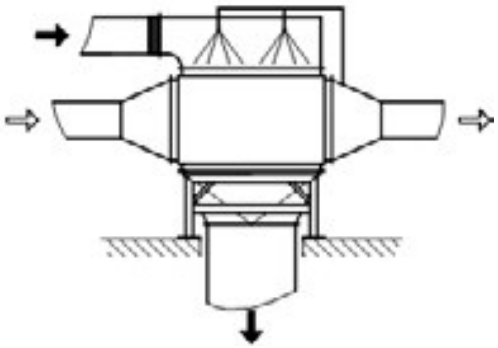
POLYMER HEAT EXCHANGERS



EXAMPLE 1 — MODEL H
Install on a suitable level support. Cleaning openings are on the top. The illustrated passages serve the exhaust stream; tube connections with compensators serve the inlet stream.



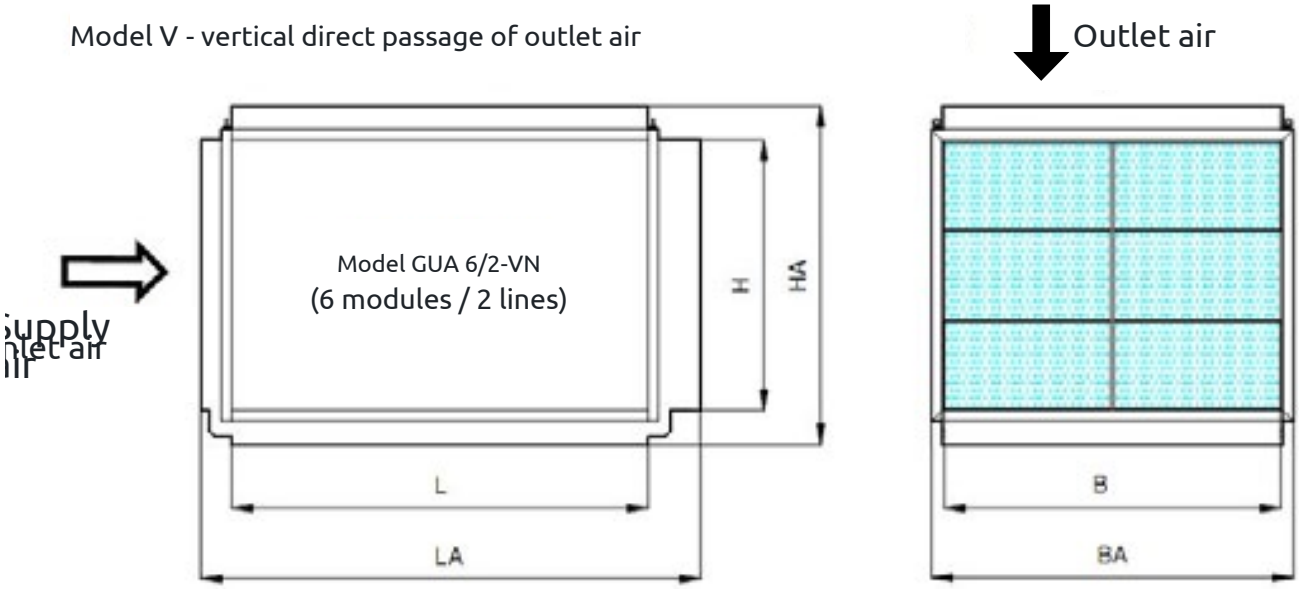
EXAMPLE 2 — MODEL V
Install on a steel support. Corner openings serve the exhaust stream. A filter is shown upstream of the inlet stream; the tube outlet uses a compensating connection.



EXAMPLE 3 — MODEL V
Install on a steel support. A spray section washes the exhaust stream before entry. Exhaust air enters through the corner connection and leaves below; the remaining passages serve the inlet stream.

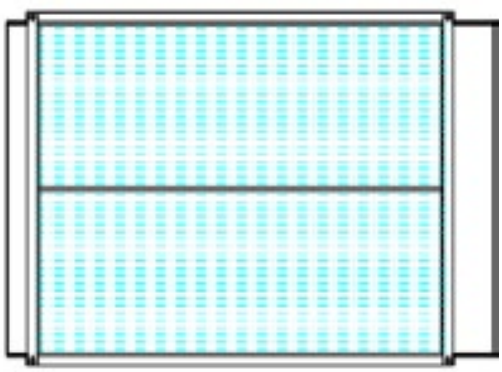
Dimensions of model V

Model V - vertical direct passage of outlet air



POLYMER HEAT EXCHANGERS

Conversional chart:
H – height
HA – overall height
L – length
LA – overall length
B – width
BA – overall width



Modules are installed in casing according to the drawing on page 1.

Outlet air goes top-down near the horizontal pipes. Inlet air goes horizontally through the pipes.

The customer provides the steel support. Exhaust air leaves below through the illustrated connection pipes and bend.

Exhaust-side condensate drains downwards. A spray section at the exhaust inlet can be provided for cleaning the outside of the tubes.

Module configuration						
GUAN type (module's order)	Quantity of modules nM	Size of modules nR	Outer dimensions		Connection dimensions	
			BA, mm	HA, mm	B, mm	H, mm
УА 1/1	1	1	922	764	822	439
УА 2/1	2	1	922	1193	822	868
УА 3/1	3	1	922	1622	822	1297
УА 2/2	2	2	1739	764	1639	439
УА 4/2	4	2	1739	1193	1639	868
УА 6/2	6	2	1739	1622	1639	1297
УА 3/3	3	3	2556	764	2456	439
УА 6/3	6	3	2556	1193	2456	868
УА 9/3	9	3	2556	1622	2456	1297

Characteristics according to nominal lenght			
GUAN type (nominal length = effective length of pipes)	Nominal length LN, mm	LA mm	L mm
УА nM/nR x 1200	1200	1200	1200
УА nM/nR x 1600	1600	2000	1600
УА nM/nR x 2000	2000	2400	2000
УА nM/nR x 2500	2500	2850	2450

Connection dimensions of duct for outlet air B x L
Connection dimensions of duct for inlet air B x H

Ordering example:

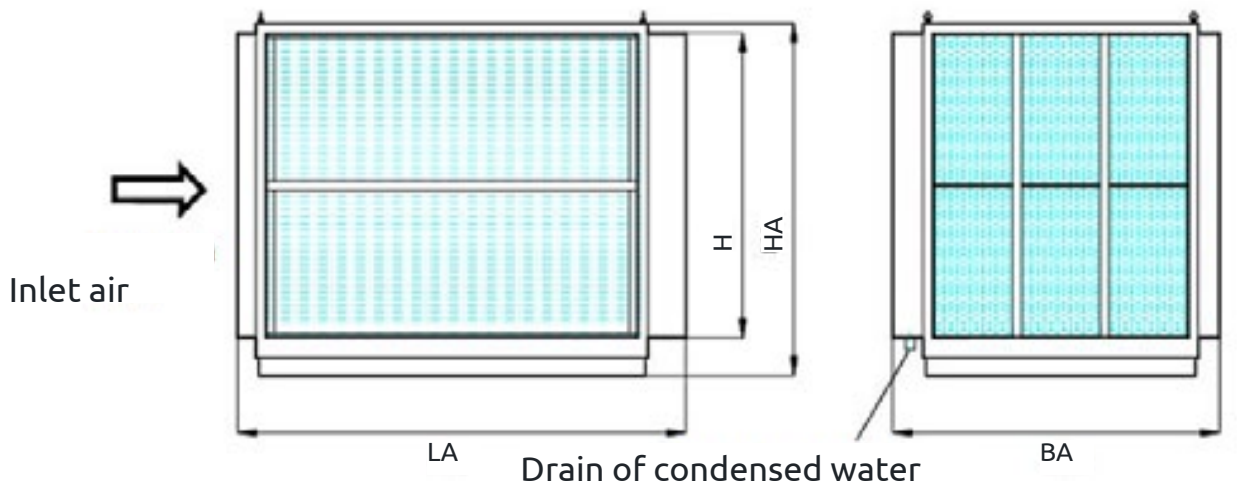
Heat exchanger with 6 modules, placed in 2 lines, vertical model, nominal length 2000 mm, material – polypropylene (PP)

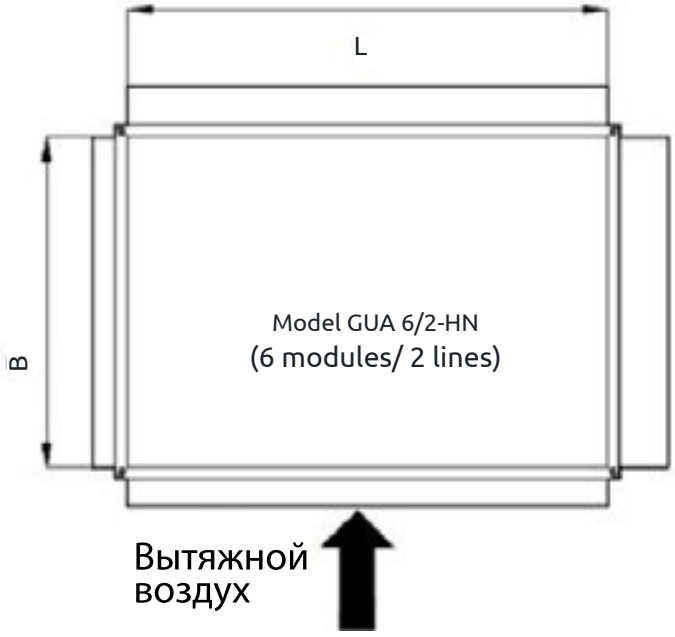
GUA-6/2-V-2000-PPN

POLYMER HEAT EXCHANGERS

Dimensions of model H

Model H - horizontal direct passage of outlet air





In comparison with model V the modules are installed in casing with rotation 90°.

Outlet air goes horizontally near pipes. Inlet air goes horizontally through the pipes.

The installation of GUAN on foundation or supporting construction is made by customer.

All connecting pipes are removed horizontally. Because of that the height of ready model is lower than of model V.

Exhaust-side condensate is discharged through the drain channel. An upper access opening can be provided for cleaning the outside of the tubes.

Conversional chart:
H – height
HA – overall height
L – length
LA – overall length
B – width
BA – overall width

POLYMER HEAT EXCHANGERS

Module configuration						
GUAN type (module's order)	Quantity of modules nM	Size of modules nR	Outer dimensions		Connection dimensions	
			BA, mm	HA, mm	B, mm	H, mm
GUA 1/1N	1	1	834	1072	439	822
GUA 2/1N	2	1	1302	1072	907	822
GUA 3/1N	3	1	1770	1072	1375	822
GUA 2/2N	2	2	834	1884	439	1634
GUA 4/2N	4	2	1302	1884	907	1634
GUA 6/2N	6	2	1770	1884	1375	1634
GUA 3/3N	3	3	834	2696	439	2446
GUA 6/3N	6	3	1302	2696	907	2446
GUA 9/3N	9	3	1770	2696	1375	2446

Characteristics according to nominal lenght			
GUAN type (nominal length = effective length of pipes)	Nominal length LN, mm	LA mm	L mm
GUA nM/nR x 1200N	1200	1200	1200
GUA nM/nR x 1600N	1600	2000	1600
GUA nM/nR x 2000N	2000	2400	2000
GUA nM/nR x 2500N	2500	2850	2450

Connection dimensions of duct for outlet air B x L

Connection dimensions of duct for inlet air B x H

Ordering example:

Heat exchanger with 6 modules, placed in 2 lines, horizontal model, nominal length 2000 mm, material – polypropylene (PPs)

GUA-6/2-H-2000-PPsN

POLYMER HEAT EXCHANGERS

GUAN POLYMER HEAT EXCHANGERS

Cross-flow heat exchangers with smooth tubes for compatible gaseous media. Separate inlet and exhaust paths and polymer construction support use in corrosive applications.
The modular design allows the capacity and tube length to be matched to the duty. Tube assemblies incorporate thermal-expansion compensation and replaceable components. PVC and PP material options are selected for the process. Coordinate connection geometry with the adjoining ductwork.

GUA _ _ / _ _ - _ - _ _ _ _ - _ _ _ _ N
Quantity of modules / Lines of modules - Model - Nominal length - Material

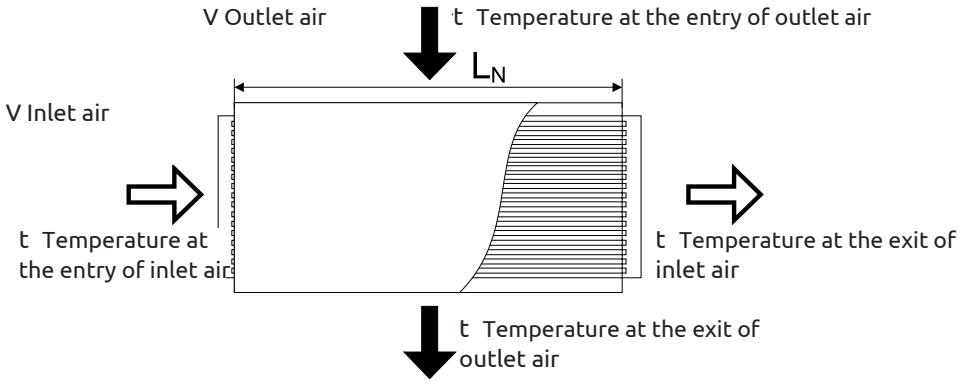
	Outlet air	Inlet air
Air volume:	_____ m3/h	_____ m3/h
Outlet temperature:	_____ ° C	_____ ° C
Inlet temperature:	_____ ° C	_____ ° C
Pressure loss:	_____ Pa	_____ Pa

Transfer of capacity: _____ kW
Maximal temperature: _____ ° C

Outer dimensions BA x HA x LA _____ mm
(for vertical/ horizontal direct passage of outlet air)

Weight: _____ kg

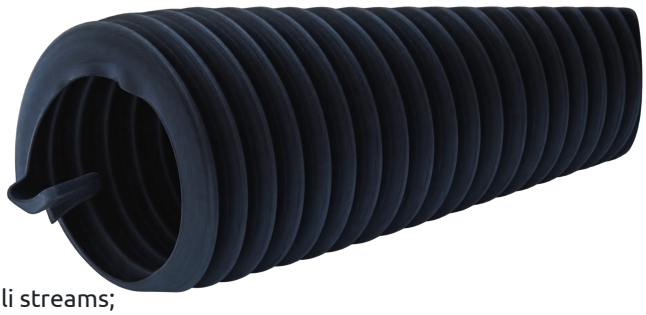
Working environment / Purpose of application:



ACCESSORIES
- Welded frames, perforated on lines 1 and 2 or unperforated
- Inlet and exhaust connection pipes
- Spray cleaning sections and access openings
- Inlet-side pre-treatment filter
- Steel support frame
- Project-specific accessories

FLEXIBLE DUCTS
EPDM, PU and PVC options for application-specific selection.

Duct GGV-EPDMN
Flexible EPDM duct for compatible media.
Temperature range: –40 °C to +125 °C.
Resistance to ageing, ozone and abrasion depends on the application. Colour: black (Bk).



Applications:
APPLICATIONS
Compatible exhaust gases, hot or cold air and acid/alkali streams; moderately abrasive granular material; and heated-air distribution from mobile heaters. Confirm temperature and chemical compatibility.

Construction:
Santoprene (TPE). It is an alternative to EPDM, reinforced with steel spiral from spring steel.

Ordering example for flexible duct ordering:
GAirway-GV-EPDM-51-10N (Name – diameter – length)

Diameter (mm)	Recommended positive pressure (bar)	Recommended negative pressure (bar)	Standard length (m)	Length min.-max. (m)
51	0.35	0.25	10	6-15
60	0.35	0.20	10	6-15
65	0.33	0.19	10	6-15
70	0.30	0.18	10	6-15
75	0.30	0.12	10	6-15
76	0.30	0.12	10	6-15
80	0.25	0.10	10	6-15
90	0.25	0.08	10	6-15
100	0.20	0.08	10	6-15
102	0.20	0.08	10	6-15
110	0.18	0.08	10	6-15
120	0.16	0.07	10	6-15
125	0.15	0.07	10	6-15
127	0.15	0.07	10	6-15
130	0.10	0.07	10	6-15
140	0.09	0.06	10	6-15

Table continued

Diameter (mm)	Recommended positive pressure (bar)	Recommended negative pressure (bar)	Standard length (m)	Length min.-max. (m)
152	0.08	0.06	10	6-15
160	0.07	0.06	10	6-15
180	0.06	0.05	10	6-15
203	0.05	0.05	10	6-15
228	0.05	0.05	10	6-15
254	0.04	0.05	10	6-15
260	0.04	0.05	10	6-15
280	0.03	0.04	10	6-15
305	0.03	0.04	10	6-15
315	0.03	0.04	10	6-15

Non-standard lengths and diameters are available on request.

FLEXIBLE DUCTS

GGV-PU-0.7N FLEXIBLE DUCT
Flexible polyurethane duct for abrasive applications. The steel helix can be grounded as part of the specified electrical arrangement. Temperature range: –40 °C to +90 °C. Colour: transparent (Cl).



APPLICATIONS
Transfer of compatible dust, powder, fibres, chips and gaseous media. Used in woodworking, cleaning and suitable industrial processes. The source data cite a 4–5 times service-life comparison with PVC; actual wear depends on the conveyed material and operating conditions.

CONSTRUCTION
Transparent ester-based polyurethane with a galvanised spring-steel helix. Inter-turn wall thickness: 0.7 mm. The source refers to FDA requirements; confirm grade-specific food-contact documentation.

Ordering example for flexible duct ordering:

GAirway-GV-PU-0.7-51-10N (Name – diameter – length)

Diameter (mm)	Recommended positive pressure (bar)	Recommended negative pressure (bar)	Standard length (m)	Length min.-max. (m)
51	1.135	0.345	10	6-15
60	0.950	0.270	10	6-15
70	0.815	0.200	10	6-15
75	0.760	0.185	10	6-15
76	0.760	0.183	10	6-15
80	0.715	0.165	10	6-15
90	0.635	0.145	10	6-15
100	0.575	0.115	10	6-15
102	0.560	0.115	10	6-15
110	0.520	0.105	10	6-10
120	0.475	0.095	10	6-10
125	0.460	0.080	10	6-10
127	0.450	0.080	10	6-10
130	0.440	0.080	10	6-10
140	0.410	0.080	10	6-10
150	0.380	0.075	10	6-10

FLEXIBLE DUCTS

Diameter (mm)	Recommended positive pressure (bar)	Recommended negative pressure (bar)	Standard length (m)	Length min.-max. (m)
152	0.375	0.075	10	6-10
160	0.355	0.065	10	6-10
175	0.325	0.050	10	6-10
180	0.320	0.050	10	6-10
203	0.280	0.050	10	6-10
228	0.252	0.035	10	6-10
254	0.225	0.020	10	6-10
280	0.205	0.020	10	6-10
300	0.190	0.020	10	6-10
305	0.188	0.018	10	6-10
315	0.180	0.015	10	6-10
356	0.165	0.010	10	6-10
406	0.145	0.010	6	6
450	0.130	0.010	6	6
455	0.128	0.010	6	6
500	0.115	0.010	6	6
506	0.112	0.010	6	6
560	0.075	0.005	6	6
600	0.070	0.005	6	6
630	0.065	0.005	6	6
700	0.065	0.005	6	6

Non-standard lengths and diameters are available on request.

FLEXIBLE DUCTS

GGV-PVC-0.5N FLEXIBLE DUCT
Flexible PVC duct reinforced with a spring-steel helix. Grounding of the helix can be included in the specified electrical arrangement. Temperature range: –20 °C to +70 °C.



Color – transparent (color value Cl)

APPLICATIONS
Industrial extraction and vacuum systems for compatible gases, dust, fibres and chips, including bilge ventilation. Chemical and abrasion suitability must be checked against the actual operating conditions.

CONSTRUCTION
Soft PVC with a spring-steel helix; transparent PVC uses a galvanised helix. The source prints the inter-turn wall thickness as “0.5 m”. This unit is retained as a source discrepancy and must be confirmed before specification.

Ordering example for flexible duct ordering:

GAirway-GV-PVC-0.5-51-10N (Name – diameter – length)

Diameter (mm)	Recommended positive pressure (bar)	Recommended negative pressure (bar)	Standard length (m)	Length min.-max. (m)
51	0.410	0.155	10	6-15
60	0.340	0.120	10	6-15
65	0.315	0.105	10	6-15
70	0.290	0.090	10	6-15
75	0.270	0.085	10	6-15
76	0.270	0.085	10	6-15
80	0.255	0.075	10	6-15
90	0.230	0.065	10	6-15
100	0.205	0.050	10	6-15
110	0.185	0.045	10	6-15
120	0.170	0.045	10	6-15
125	0.165	0.035	10	6-15
130	0.160	0.035	10	6-15
140	0.150	0.035	10	6-15
150	0.140	0.035	10	6-15
160	0.130	0.030	10	6-15

FLEXIBLE DUCTS

Diameter (mm)	Recommended positive pressure (bar)	Recommended negative pressure (bar)	Standard length (m)	Length min.-max. (m)
180	0.115	0.025	10	6-15
200	0.105	0.025	10	6-15
225	0.090	0.015	10	6-15
250	0.080	0.010	10	6-15
280	0.075	0.010	10	6-15
300	0.070	0.010	10	6-15
315	0.065	0.010	10	6-15
350	0.060	0.010	10	6-15
400	0.055	0.005	10	6-10
450	0.050	0.005	10	6-10
500	0.045	0.005	10	6-10
560	0.040	0.005	10	6-10
600	0.040	0.005	10	6-10
630	0.040	0.005	10	6-10
700	0.040	0.005	10	6-10

Non-standard lengths and diameters are available on request.

FLEXIBLE DUCT CHEMICAL RESISTANCE

Resistance of flexible ducts to chemical media

Chemical name	Duct GGV-EPDMN	Duct GGV-PU-0.7N	Duct GGV-PVC-0.5N
Acetaldehyde	Not recommended for use Resistant	Limited resistance	Not recommended for use Resistant
Acetic acid 20%	Resistant	Limited resistance	Not recommended for use
Acetic oxide	Not recommended for use	Limited resistance	Not recommended for use
Acetone		Limited resistance	Resistant
Bromide acetyl	Resistant	Highly resistant	Resistant
Chloride acetyl	Resistant	Highly resistant	Resistant
Acetylene	Resistant	Resistant	Resistant
Air	Resistant	Resistant	
Aluminium chloride	Resistant	Resistant	Resistant
Aluminium sulphate	Resistant	Resistant	
Aluminium sulphide	Resistant	Resistant	Resistant
Ammonium solution	Resistant	Resistant	
Ammonium acetate		Resistant	
Ammonium hydroxide		Resistant	
Ammonium nitrate	Resistant	Resistant	
Ammonium persulfate	Resistant	Resistant	Not recommended for use
Ammonia sulphate	Highly resistant	Resistant	Resistant
Ammonia sulphide		Resistant	Not recommended for use
Amyl acetic ester	Resistant	Limited resistance	Resistant Resistant
Amyl alcohol		Highly resistant	
Amyl chloride		Highly resistant	
Aniline	Highly resistant	Limited resistance	Resistant
Aniline hydrochloride		Limited resistance	Resistant
Animal fatty and oil substances	Resistant	Highly resistant	Resistant
Arcenical salts	Resistant	Resistant	Not recommended for use
Barium carbonicum	Not recommended for use	Resistant	Not recommended for use
Barium hydroxide	Not recommended for use	Resistant	Resistant
Benzaldehyde	Not recommended for use Resistant	Limited resistance	Resistant

FLEXIBLE DUCT CHEMICAL RESISTANCE

Continuation of table

Chemical name	Duct GGV-EPDMN	Duct GGV-PU-0.7N	Duct GGV-PVC-0.5N
Benzol	Resistant	Limited resistance	Resistant Resistant
Benzine	Highly resistant Non recommended for use	Resistant	Resistant
Benzene carbonic acid	Resistant	Highly resistant	Resistant
Boracic acid	Non recommended for use	Resistant	Resistant
Hydraulic-brake fluid A		Limited resistance	Not recommended for use
Bromine (vapor)	Resistant Resistant	Highly resistant	Not recommended for use
Butane		Resistant	
Butyl acetate	Resistant	Limited resistance	Resistant Not recommended for use
Butyl alcohol	Resistant	Resistant	Resistant
Calcium carbonate	Resistant	Resistant	Resistant
Calcium hydroxide	Non recommended for use	Resistant	Not recommended for use
Calcium nitrate	Non recommended for use	Resistant	
Calcium sulphate		Resistant	
Carbon dioxide	Resistant	Resistant	
Carbon bisulfide		Highly resistant	
Carbon tetrachloride		Limited resistance	
Castor oil		Resistant	Resistant
Chlorine	Non recommended for use	Resistant	Resistant
Chloracetic			
Chloracetic (monochloracetic)		Limited resistance	Not recommended for use
Chloroforme	Resistant	Limited resistance	Not recommended for use Not recommended for use
Chromic acid		Limited resistance	
Potassium chromic sulphate	Resistant Resistant	Resistant	

FLEXIBLE DUCT CHEMICAL RESISTANCE

Continuation of table

Chemical name	Duct GGV-EPDMN	Duct GGV-PU-0.7N	Duct GGV-PVC-0.5N
Hydroxy tricarballylic acid	Resistant	Resistant	
Methyl phenol			
Cupric chloride		Limited resistance	
Cupric nitrate		Resistant	Non recommended for
Blue copperas	Non recommended for	Resistant	use
	use	Resistant	Non recommended for
Cyclohexanone			use
	Resistant	Non recommended for	Resistant
Dibutyl phthalate		use	
		Limited resistance	Non recommended for
Dibutyl ether			use
Phenyl dichloride		Resistant	Resistant
Diester oil		Highly resistant	Resistant
Ethane acetamid		Resistant	
Dymethylformamide	Non recommended for	Limited resistance	Non recommended for
	use	Non recommended for	use
Ether	Resistant	use	Resistant
		Highly resistant	
Ethyl acetate	Non recommended for		Resistant
	use	Limited resistance	Non recommended for
Ethyl hydroxide	Resistant		use
Ethyl bromide	Resistant	Highly resistant	Resistant
Ethyl chloride		Limited resistance	Resistant
		Limited resistance	Resistant
Ethylene alcohol			Resistant
Ferric chloride	Non recommended for	Highly resistant	Resistant
Ferric nitrate	use	Resistant	
Ferric sulphate	Resistant	Resistant	Resistant
	Resistant	Resistant	Resistant
Formaldehyde			Resistant
	Highly resistant	Resistant	Resistant
Methanoic acid	Resistant		Resistant
Freon		Limited resistance	Resistant
	Resistant	Limited resistance	Resistant
Benzine	Resistant		Non recommended for
Glycerin		Highly resistant	use
Glycollic acid		Resistant	

FLEXIBLE DUCT CHEMICAL RESISTANCE

Continuation of table

Chemical name	Duct GGV-EPDMN	Duct GGV-PU-0.7N	Duct GGV-PVC-0.5N
Fat	Resistant	Highly resistant	Highly resistant
Hexane		Resistant	
Diamide		Resistant	Non recommended for
Hydro-perbromic acid	Resistant	Limited resistance	use
Chlorine hydride	Resistant	Resistant	Resistant
Hydrocyanic acid	Resistant	Highly resistant	Resistant
Fluorine acid		Highly resistant	Resistant
Hydrogen		Highly resistant	
Hydrogen peroxide	Resistant	Resistant	Resistant
Hydrogen sulphide	Resistant	Resistant	Resistant
Iodine solution		Limited resistance	Resistant
Isooctane	Resistant	Resistant	Resistant Non recommended for
Propane	Resistant	Resistant	use
Isopropyl ether	Resistant	Highly resistant	Non recommended for
Oil JP-4	Resistant	Resistant	use
Kerosene	Resistant	Highly resistant	Non recommended for use
Lactic acid	Resistant	Resistant	Resistant
Flax-seed oil		Resistant	Resistant
Liquid oxygen		Resistant	Resistant
Lubricine greasing	Highly resistant	Resistant	Resistant
Magnesium salts		Resistant	Resistant
Maleic acid	Non recommended for	Resistant	Resistant
Hydrargyrum	use	Limited resistance	
Methanol	Non recommended for	Resistant	Resistant
Ketone ethyl methine	use Resistant	Highly resistant	Resistant
Methylene chloride	Resistant Resistant	Limited resistance	Resistant Resistant
Mineral oil	Resistant	Limited resistance	Non recommended for use
Engine oil	Resistant	Resistant	Resistant
Kerosene		Resistant	
Natural gas		Resistant	Non recommended for
Nickel salts	Resistant	Resistant	use
Hydrogen nitrate (up to		Limited resistance	Resistant

FLEXIBLE DUCT CHEMICAL RESISTANCE

Continuation of table

Chemical name	Duct GGV-EPDMN	Duct GGV-PU-0.7N	Duct GGV-PVC-0.5N
40%)		Limited resistance	Resistant
Nitrogen			Resistant
Oleinic acid	Non recommended for	Resistant	
Oxygen	use	Resistant	
Ozone		Resistant	
Perchloric acid		Resistant	
Perchloroethylene		Limited resistance	
Petroleum,		Highly resistant	
petrochemicals		Resistant	
Phenol			
Phosphoric acid		Limited resistance	
Potassium cyanide		Highly resistant	
Potassium salts		Resistant	
		Resistant	

GRVT-R-EXN | POLYMER VAV - EX VERSION

Controlled airflow for demanding processes

Circular variable air volume control for chemically aggressive extract applications.



Measure. Compare. Regulate.

A Venturi element measures differential pressure. The controller compares the resulting airflow with the setpoint and positions the damper to correct the difference.

Use within a coordinated laboratory or process ventilation design, with the required airflow, material compatibility and hazardous-area classification established for each application.

PARAMETER	SELECTION DATA
Nominal diameter	DN 125, 160, 200, 250, 315, 400, 500
Operating temperature	0-50 °C
Operating pressure	50(60)-1000 Pa; confirm minimum for selected size and duty
Control accuracy	10%
Air leakage designation (EN 1751)	B1: DN 125 / B2: DN 160-500
Air-contact construction	Polypropylene; PPs / PPs-el grade stated in the technical specification

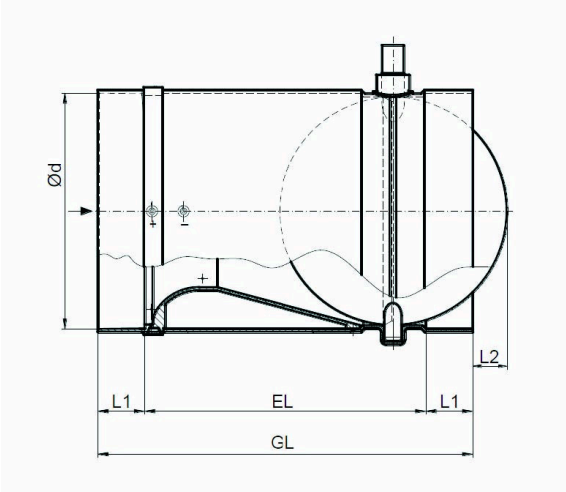
EX configuration and documentation

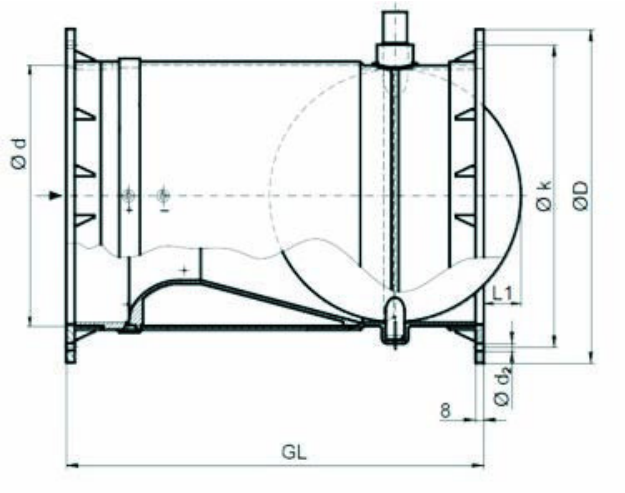
The specified EX configuration is declared for gas zones 1 and 2, group II, category 2: II 2G Ex h IIC T6,T5 Gb. Confirm the supplied assembly, electrical component certificates, temperature class and installation conditions against the project requirements. These declarations apply to the selected original configuration.

GRVT-R-EXN | DIMENSIONAL DATA

Connections and dimensions

All dimensions in mm. Connection variants retain their own published dimensions.





COUPLER / WITHOUT MOUNTING FLANGE

DN	Ød	EL	GL	L1	L2
125	126	320	400	40	73
160	161	230	310	40	0
200	201	250	340	50	11
250	251	300	400	50	36
315	316	390	490	50	68
400	401	1100	1200	50	200
500	501	1400	1540	70	280

PSK / WITH MOUNTING FLANGE

DN	Ød	ØD	GL	L1	Ød2 / qty	Øk
125	125	185	400	107	7 / 8	165
160	160	230	310	0	7 / 8	200
200	200	270	350	11	7 / 8	240
250	250	320	400	36	7 / 12	290
315	315	395	490	58	9 / 12	350
400	400	480	1250	260	9 / 16	445
500	500	580	1400	260	9 / 20	545

GRVT-R-EXN | FLOW SELECTION & INSTALLATION

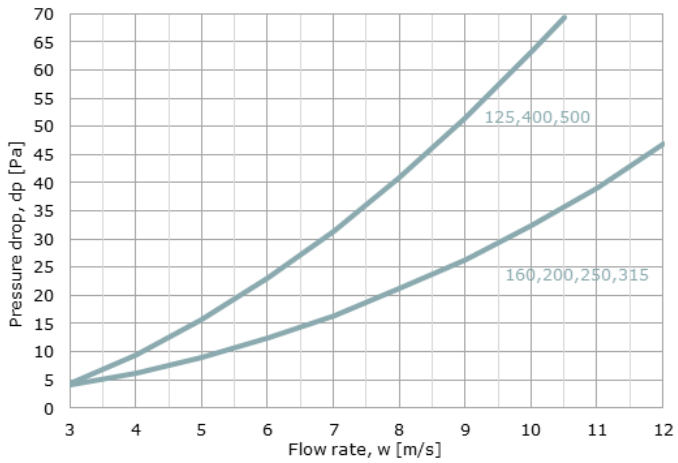
Select the duty. Allow the space.

Choose the size from the published application limits, then check pressure and sound.

DN [mm]	Vmin [m³/h]	Vmax [m³/h]
125	60	442
160	85	690
200	110	950
250	195	1766
315	310	2804
400	585	4522
500	710	7065

Application limits

Use the flow limits above for selection. The acoustic test table includes higher flows for DN 160 and DN 200; those test points do not extend the published application range.



Pressure loss at full opening

Velocity [m/s]; pressure drop [Pa]. Curves identify the nominal diameter groups.

Installation essentials

Provide a straight duct length of 4D upstream and 1D downstream. Follow the airflow arrow and mount the static pressure sensor on a vertical plane. Retain access for the actuator, wiring and pressure tubes.

GRVT-R-EXN | CONTROLS & ORDERING

Define the operating sequence

A complete selection includes the mechanical unit, controls and project safety functions.

CONTROL ITEM	AVAILABLE / REQUIRED DEFINITION
Modulating input	2-10 V or 0-10 V; define the selected range
Operating modes	Close, open, Vmin, Vmid and Vmax; subject to controller configuration
Electrical supply	24 V AC/DC, 50/60 Hz
Actuator torque	5/10 Nm
Selectable running times	7.5 / 15 / 30 / 60 / 120 s
Laboratory control option	Dedicated laboratory controller interface; confirm the complete configuration

Ordering reference

GRVT-R-EXN - D - J - VMAX/VMIN - K - Z

FIELD	DEFINITION
D / J	Diameter / connection: coupler or PSK flange
VMAX / VMIN	Maximum and minimum airflow in m³/h
K	2-10 V (default), 1 = 0-10 V, SL = laboratory control option
Z	N/W = supply/exhaust; O = process extraction; D = fume hood

Commissioning and integration

Confirm chemical exposure, hazardous-area classification, room or hood control strategy, alarm handling and power-loss response. Factory flow settings require authorised adjustment. Electrical installation must follow the supplied wiring documentation. An open damper position alone does not establish smoke-control certification or a fail-safe function.

GRVT-R-EXN | ACOUSTIC PERFORMANCE

Sound data at selected pressure drops

Total duct sound power and casing sound pressure; values reproduced without recalculation.

DN	v	V	100 Pa LW / Lp / Lpi	300 Pa LW / Lp / Lpi	500 Pa LW / Lp / Lpi
125	2	88	42 / 25 / <20	53 / 36 / 21	60 / 41 / 25
125	4	177	45 / 28 / <20	55 / 38 / 24	61 / 43 / 28
125	6	265	47 / 29 / <20	57 / 39 / 24	61 / 44 / 28
125	8	353	48 / 30 / <20	58 / 40 / 24	62 / 44 / 28
125	10	442	49 / 31 / <20	59 / 40 / 24	63 / 45 / 28
160	2	145	43 / 27 / <20	54 / 38 / 24	60 / 43 / 28
160	4	289	47 / 30 / <20	56 / 40 / 27	61 / 45 / 31
160	6	434	49 / 32 / <20	58 / 42 / 27	62 / 47 / 32
160	8	579	50 / 33 / <20	59 / 43 / 28	63 / 48 / 32
160	10	723	51 / 34 / <20	60 / 44 / 28	64 / 49 / 33
200	2	226	45 / 29 / <20	55 / 40 / 26	61 / 45 / 31
200	4	452	48 / 32 / 20	57 / 43 / 30	62 / 48 / 34
200	6	678	50 / 34 / 20	59 / 45 / 30	63 / 50 / 35
200	8	904	52 / 35 / 21	60 / 46 / 31	64 / 51 / 36
200	10	1130	53 / 37 / 21	61 / 47 / 32	65 / 52 / 37
250	2	353	46 / 31 / 20	56 / 42 / 29	62 / 48 / 33
250	4	707	49 / 34 / 23	59 / 46 / 33	63 / 51 / 38
250	6	1060	52 / 37 / 23	60 / 48 / 34	65 / 53 / 39
250	8	1413	53 / 38 / 24	62 / 49 / 35	66 / 55 / 40
250	10	1766	55 / 39 / 24	63 / 51 / 36	67 / 56 / 41
315	2	561	47 / 33 / 22	57 / 45 / 31	63 / 50 / 36
315	4	1122	51 / 37 / 25	60 / 49 / 36	65 / 54 / 41
315	6	1682	53 / 39 / 26	62 / 51 / 38	66 / 57 / 43
315	8	2243	55 / 41 / 27	63 / 53 / 39	67 / 59 / 44
315	10	2804	57 / 43 / 27	64 / 55 / 40	69 / 61 / 45
400	2	904	49 / 35 / 24	59 / 47 / 34	64 / 53 / 39
400	4	1809	52 / 40 / 28	62 / 52 / 40	67 / 58 / 45
400	6	2713	55 / 42 / 29	64 / 55 / 41	68 / 61 / 47
400	8	3617	57 / 44 / 30	65 / 57 / 43	70 / 63 / 49
400	10	4522	59 / 46 / 30	67 / 59 / 44	71 / 65 / 50

v: velocity [m/s] · V: airflow [m³/h] · LW: total duct sound power [dB] · Lp / Lpi: casing sound pressure without / with insulation [dB(A)]. The sound-pressure assessment uses 8 dB room/ceiling attenuation; installed results depend on the actual space. Octave-band data and other operating points are available for project selection. DN 500 acoustic data are not included in this table.

PP & POLYMER FANS

From laboratory extract to process duty

Duct, laboratory, radial and roof-mounted fans within a coordinated ventilation package.

Select the fan around the process

Laboratory and process exhaust systems need a fan that matches both the air duty and the transported medium. Gerhman coordinates fan selection with the PP ductwork, control components and discharge arrangement.

PROJECT REQUIREMENT	SELECTION RESPONSE
Chemical exposure	Specify housing, impeller, seals and exposed components for the actual chemicals and concentrations.
Required airflow and resistance	Select a model, speed and motor at the required duty point using the relevant performance curve.
Installation geometry	Match inlet/outlet dimensions, casing orientation, supports and maintenance access.
Demand changes	Coordinate speed control with VAV operation and the required extract system control sequence.
Noise constraints	Check the published acoustic data against the actual installation and attenuation requirements.

The product tables retain the published dimensions and ratings. PP is one material option in this polymer fan range; the material and complete supplied configuration must be specified for each selection.

FANS | MATERIALS & APPLICATION LIMITS

Specify the complete air path

A material temperature range alone does not establish the operating limit of a complete fan.

Polypropylene construction

The laboratory series describes polypropylene housings and impellers, with alternative plastics available for specific applications. Across the wider range, impeller construction may differ from the housing and depends on speed and chemical exposure.

COMPONENT	INFORMATION TO CONFIRM
Housing	Polymer grade, wall construction, temperature and chemical compatibility.
Impeller	Material, allowable speed and compatibility with the transported gas and entrained droplets.
Connections and seals	Compatible flexible connections, joint details and shaft sealing where fitted.
Drainage and access	Condensate drainage route and access for inspection and cleaning.
Frame and motor	Installation environment, corrosion protection and motor specification.

Operating envelope

The fan specification gives a maximum transported-medium temperature of 80 °C and a solids limit of 0.1 g/m³. Material-option temperatures on individual pages are not permission to exceed the complete fan rating. Confirm the selected assembly for the actual temperature, contaminants and installation environment.

Performance reference conditions

Published aerodynamic data use a density of 1.2 kg/m³, barometric pressure of 101.34 kPa, temperature of +20 °C and approximately 50% relative humidity. Correct the selection for a different gas density and operating condition.

Coordinate the selected assembly

Confirm the mechanical arrangement, drive and control package together.

ITEM	SELECTION BASIS
Drive arrangement	Direct drive (design 1) or belt drive (design 5), as listed for the selected model.
Rotation and orientation	Select left/right rotation and the available casing angle. Use the dimensional drawing and its stated viewing direction.
Motor and speed control	Confirm voltage, frequency, installed power, protection and compatibility with the selected inverter or starter.
Accessories	Inspection access, condensate drain, flexible connections, shaft sealing and vibration isolation according to the selected assembly.
Control cabinet	Define speed reference, start/stop, alarms, protection and any required system communications.
Commissioning	Verify rotation, connections, operating speed, airflow, pressure and the agreed control sequence.

Special and hazardous-area configurations

Explosion-protected options are described for selected series. Their stated markings and referenced GOST/TR requirements apply to those configurations and must not be treated as an ATEX approval for every fan. Confirm the hazardous-area classification, selected assembly and applicable certificates before ordering.

FANS | PRODUCT GUIDE

Find the right fan family

FAMILY / DATA	PAGE
Duct fans - GHIMVENT-N-K-110N and related sizes	97
Laboratory fans - GHIMVENT-N-L-164N and related sizes	103
Low-pressure radial fans - GHIMVENT-LN	110
Medium-pressure radial fans - GHIMVENT-MN	127
High-pressure radial fans - GHIMVENT-HN	138
High-pressure radial fans - GHIMVENT-H2N	151
Roof fans - GHIMVENT-RFN	164
Acoustic data by fan family	178
Fan control cabinets - GHIMVENT-SHUVN	187
Project selection schedule	189

Model code example

GHIMVENT-L-255N

Duct fan GHIMVENT-N-K-110N, 160, 225, 280

Gerhman offers corrosion-resistant duct fans in thermoplastic construction, with polypropylene, polyethylene or PVC selected to suit the process.

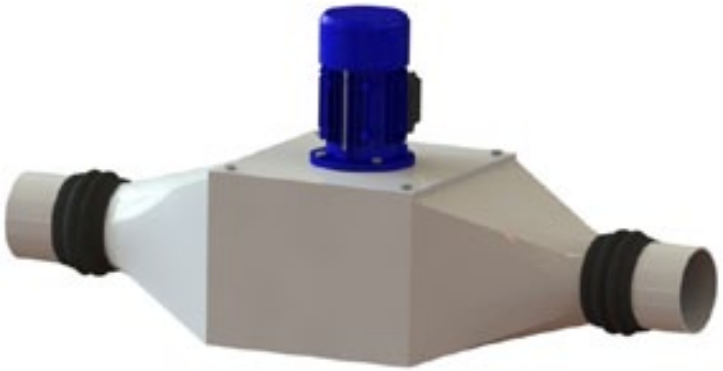
Material selection is based on chemical exposure and the operating duty of the ventilation system.

Compact duct fans provide airflow in fixed supply and extract systems. Select the material, size and duty point for the installation.

Compact connections support installation within restricted duct routes. Chemically resistant flexible connections in polypropylene or PVC are specified to suit the application.

Designed for integration into an existing duct route.

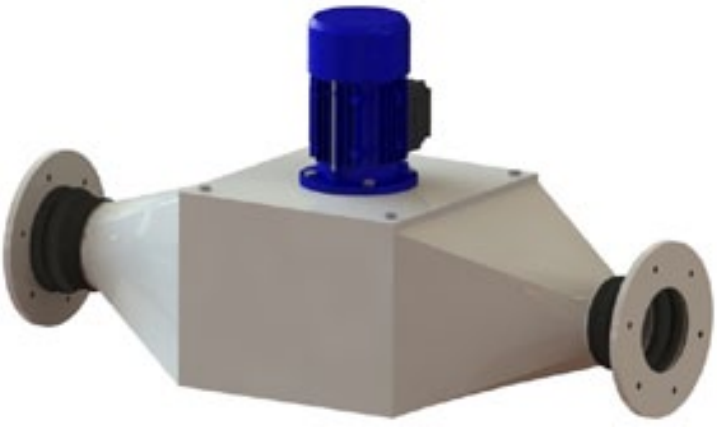
The motor is located outside the fan housing, separated from the transported medium.



Duct fans serve a broad range of ventilation applications.

Select the unit for industrial, commercial or building ventilation duties, subject to the specified operating conditions.

Chemically resistant configurations can serve laboratory fume extraction.



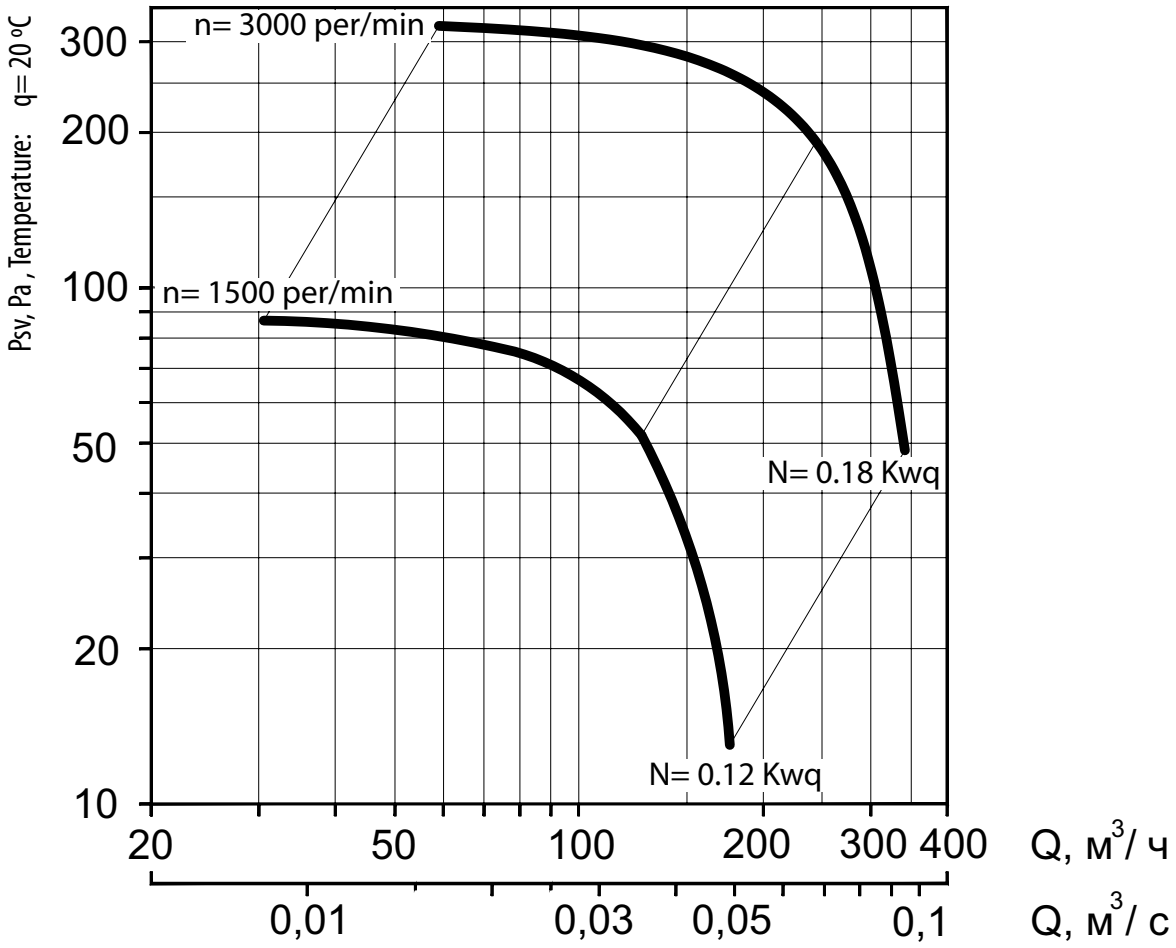
Type of connection with air duct:
Flange-flange (FF)
socket-socket (CC)

Material options:

PP-BC - polypropylene block copolymer, temperature range -40 ... + 80 °C
PP-H - polypropylene homopolymer, temperature range -5 ... + 105 °C
PE - polyethylene, temperature range -50 ... + 80 °C
PVC - polyvinyl chloride, temperature range 0 ... + 60 °C

PP AND POLYMER FANS

Aerodynamic characteristics of GHIMVENT-N-K-110N

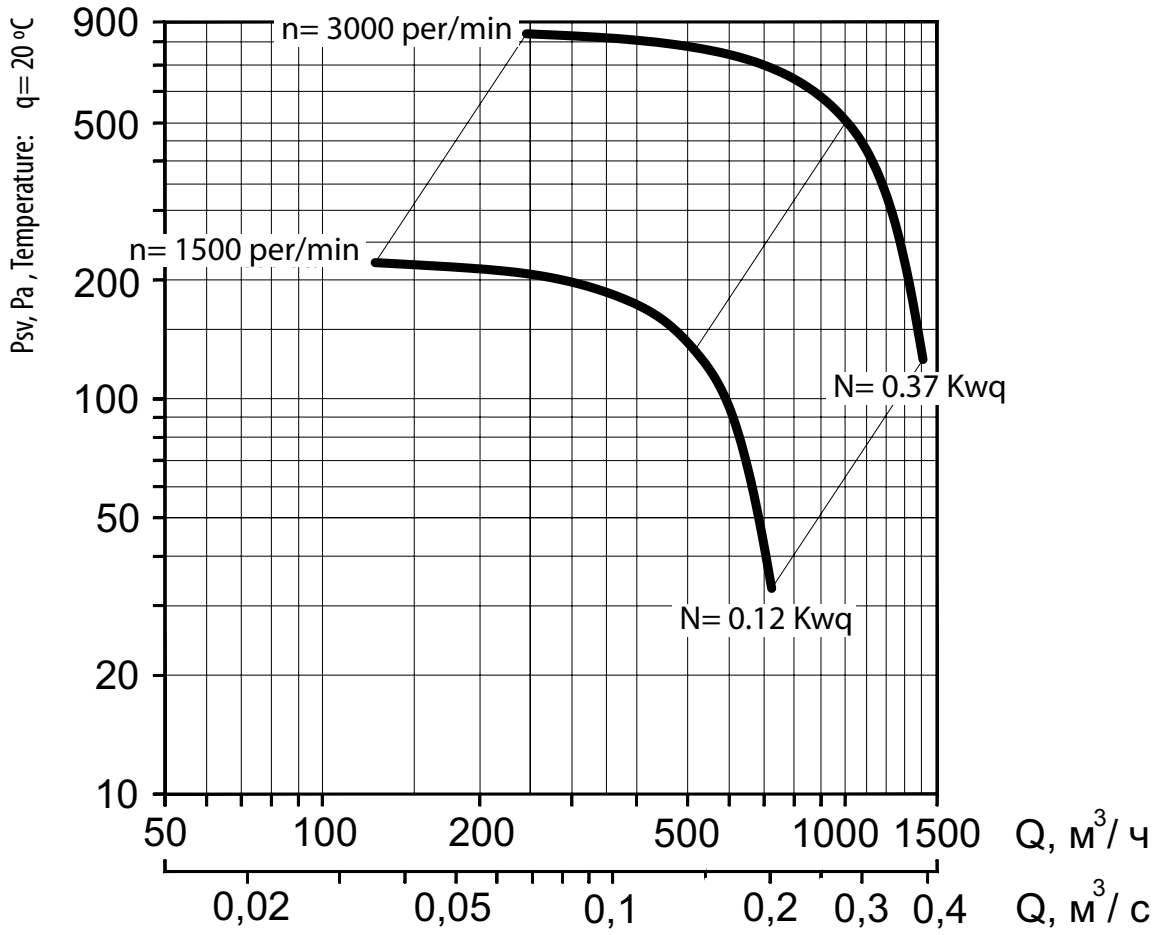


Characteristics of duct fan GHIMVENT-N-K-110N

Fan designation	Engine capacity	Motor power, Kwq	Impeller frequency rotation, rotation per min	Airflow m ³/h	Total pressure, Pa	Total sound power level, dB(A)
GHIMVENT-	5АИ56А4	0,12	1500	30-180	87-13	45
N-K-110	5АИ56А2	0,18	3000	60-330	310-50	51

PP AND POLYMER FANS

Aerodynamic characteristics of GHIMVENT-N-K-160N

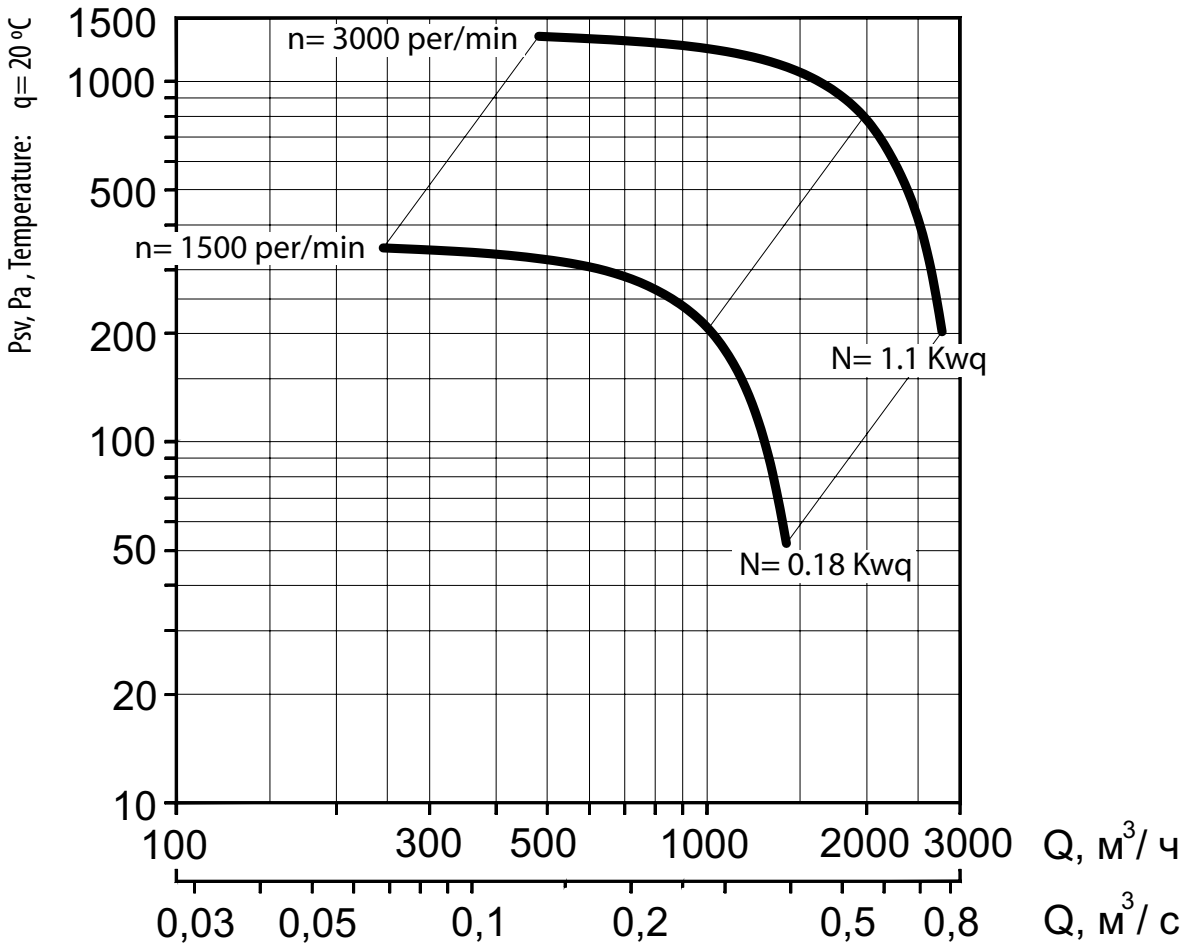


Characteristics of duct fan GHIMVENT-N-K-160N

Fan designation	Engine capacity	Motor power, Kwq	Impeller frequency rotation, rotation per min	Airflow m ^{3}/h	Total pressure, Pa	Total sound power level, dB(A)
GHIMVENT-	5АИ56А4	0,12	1500	130-710	225-35	44
N-K-160	5АИ63А2	0,37	3000	250-1400	830-125	60

PP AND POLYMER FANS

Aerodynamic characteristics of GHIMVENT-N-K-225N

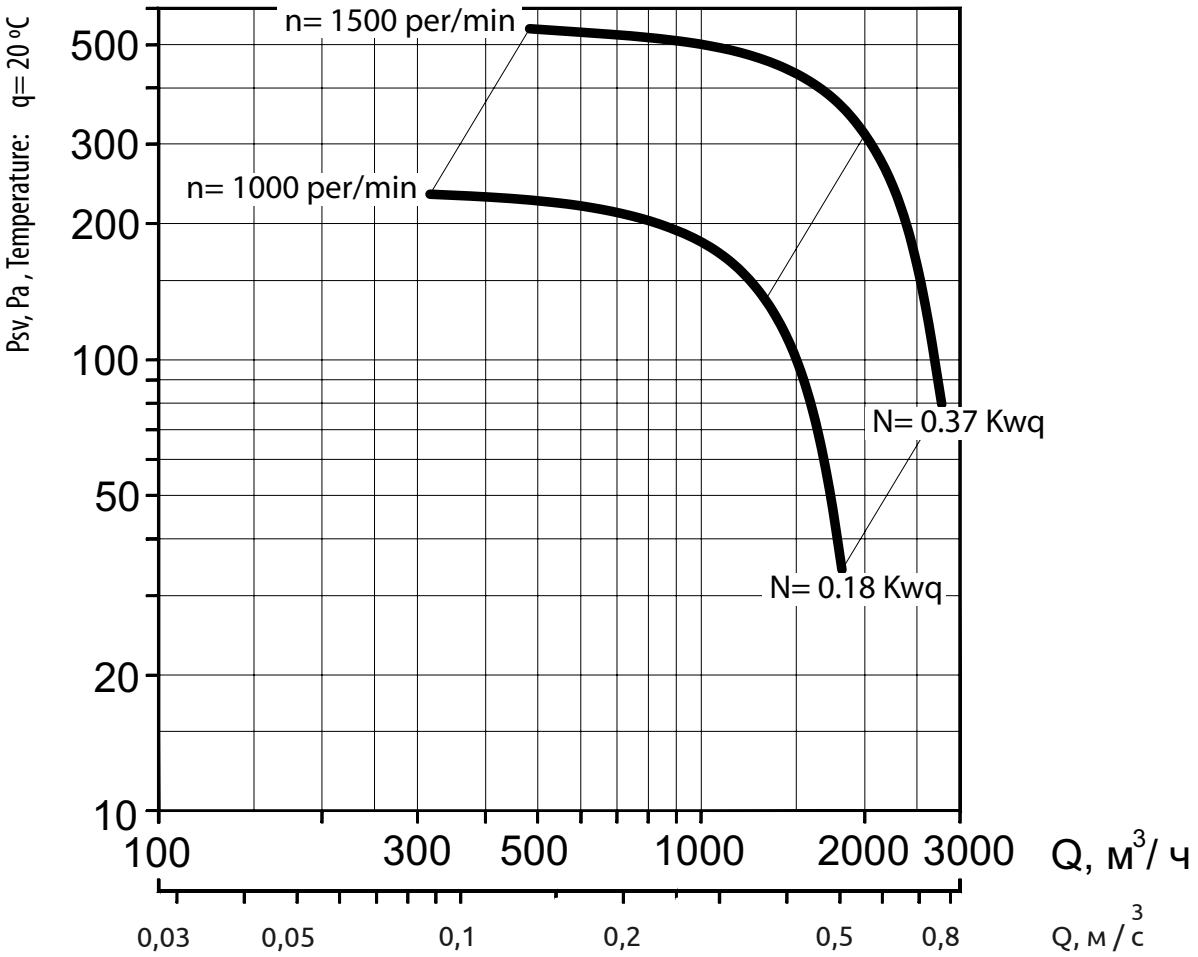


Characteristics of duct fan GHIMVENT-N-K-225N

Fan designation	Engine capacity	Motor power, Kwq	Impeller frequency rotation, rotation per min	Airflow m ³/h	Total pressure, Pa	Total sound power level, dB(A)
GHIMVENT-	5АИ56В4	0,18	1500	250-1400	350-55	51
N-K-225	5АИ71В2	1,1	3000	490-2730	1300-200	67

PP AND POLYMER FANS

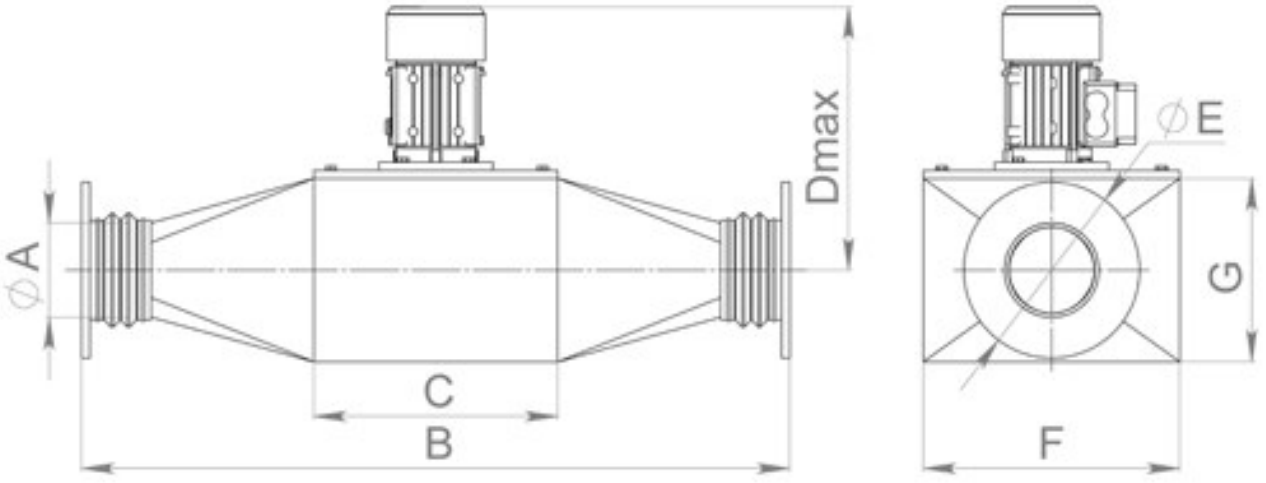
Aerodynamic characteristics of GHIMVENT-N-K-280N



Characteristics of duct fan GHIMVENT-N-K-280N

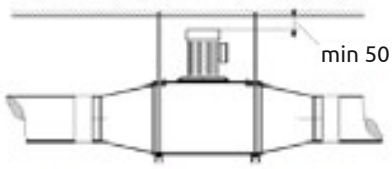
Fan designation	Engine capacity	Motor power, Kwq	Impeller frequency rotation, rotation per min	Airflow m 3/h	Total pressure, Pa	Total sound power level, dB(A)
GHIMVENT-	5АИ63А6	0,18	1000	310-1750	230-25	47
N-K-280	5АИ63В4	0,37	1500	480-2750	510-80	55

PP AND POLYMER FANS

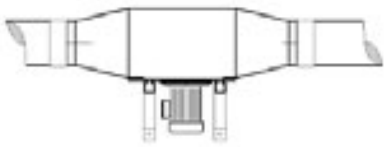


Тип вентилятора	A	B	C	Dmax	E	F	G
GHIMVENT-N-K-110N	110	870	300	340	210	315	225
GHIMVENT-N-K-160N	160	1135	430	390	260	500	315
GHIMVENT-N-K-225N	225	1340	535	470	325	560	400
GHIMVENT-N-K-280N	280	1555	650	490	380	710	500

Aerodynamic characteristics of fan GHIMVENT-N-K-110N, 160, 225, 280



Fifing on the suspension with the help of perforated profile and threaded rods. The motor is arranged above

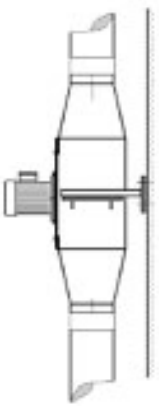


Fifing on the wall console. The motor is arranged below



Attention! Fifing on the suspension only by the housing of fan

Fifing on the wall console vertically



Note: The trunk fans can be equipped with chemical resistant flexible connectors according to the client's choice.

Laboratory fan GHIMVENT-N-L-164N. 184, 204, 254, 314

Laboratory fans use polypropylene housings and impellers. Polyethylene and PVC alternatives are available for project-specific material selection.

Flexible chemical-resistant connections are specified in polypropylene or PVC. Applications include fume cupboard extraction and process exhaust in electroplating facilities.

Airflow range: 180-4000 m³/h; pressure range: 68-1787 Pa. A frequency converter enables speed adjustment within the selected fan operating envelope.

Confirm the inlet and outlet arrangement, rotation and mounting orientation from the selected dimensional drawing.

Casing orientation is selected to suit the installation.

Explosion-protected configurations require specific selection and documentation.

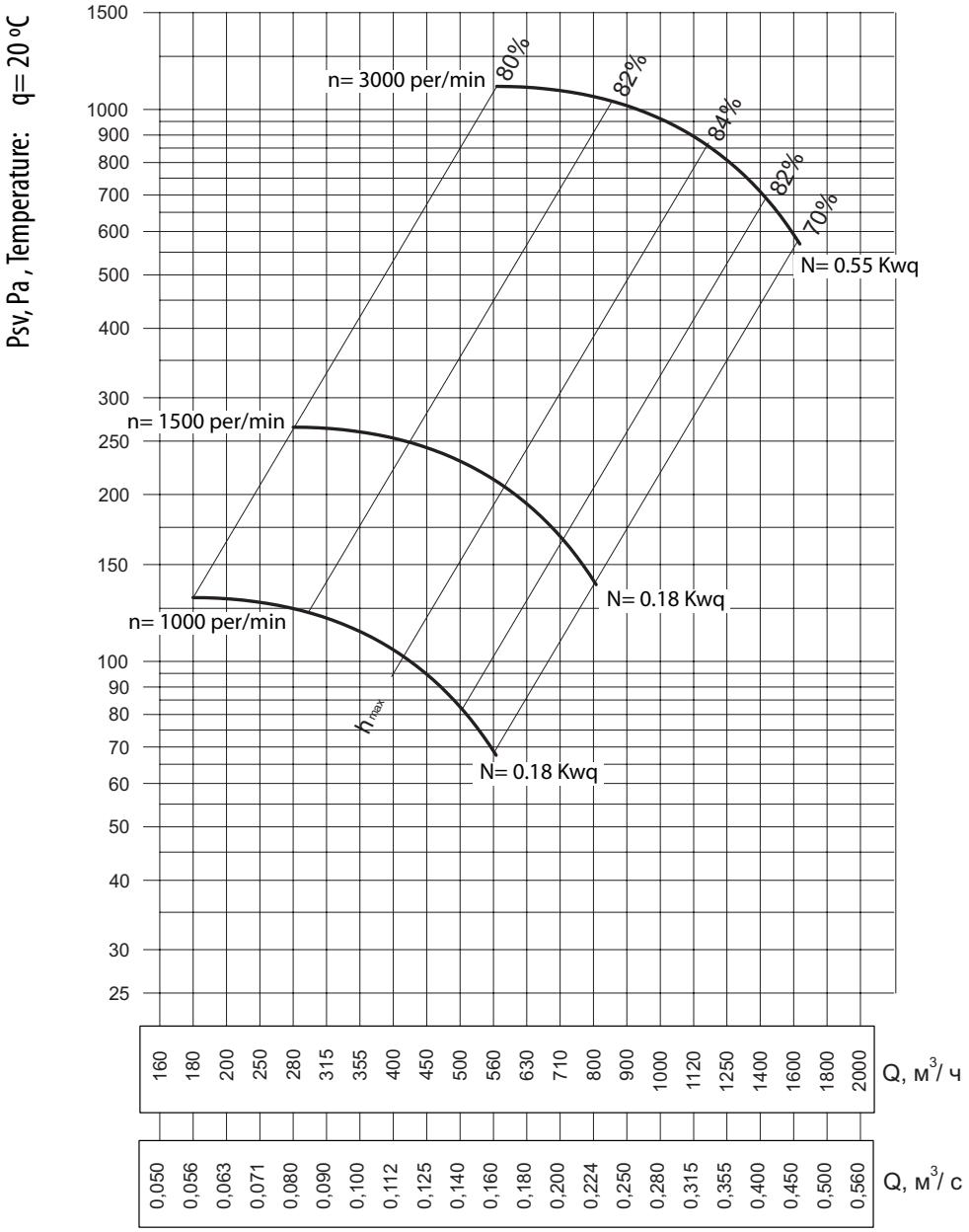
Gerhman fans in explosion-proof performance dedicated to using in hazardous areas of class 1 and 2, categories IIA and IIB, groups T1 ... T4 according to GOST IEC 60079-10-1, GOST IEC 60079-20-1 in accordance with the assigned explosion protection marking GOST 31441.1, GOST IEC 60079-14, GOST 55026, GOST 30852.13.

Fans Gerhman equipped with engine in explosion-proof design with the assigned explosion protection marking 1 Ex d IIB T4 and certificates in accordance with the requirements of the TP TC 012/2011.



PP AND POLYMER FANS

Aerodynamic characteristics of GHIMVENT-N-L-164N

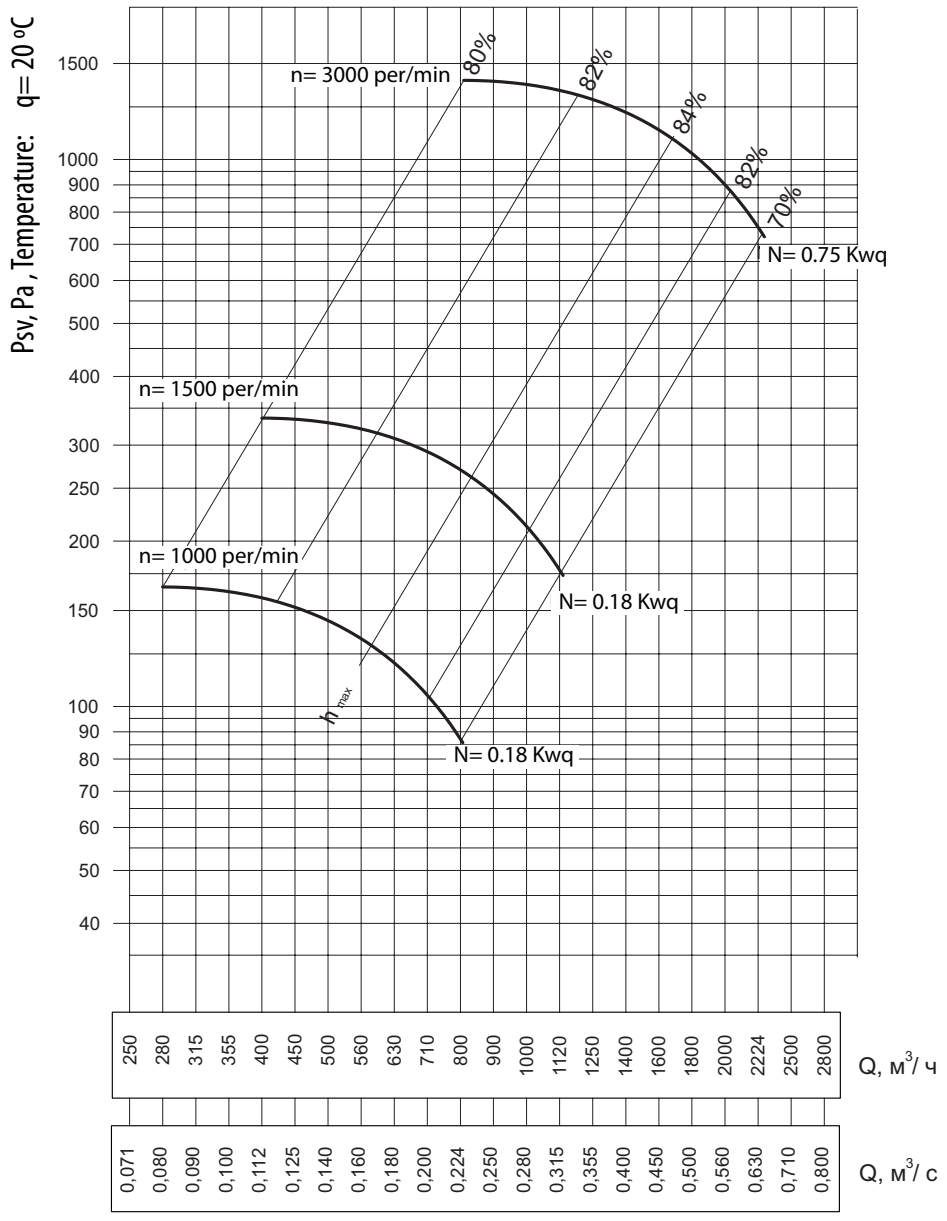


Characteristics of GHIMVENT-N-L-164N

Gerhman Fan Designation	Engine capacity	Motor power, kW	Impeller rotation frequency, r/m	Airflow, m^3/h	Total pressure, Pa	Indication sound level h_{max}*[dB(A)]
GHIMVENT-N-L-164N	5АИ63А6	0,18	1000	180-560	130-68	58
	5АИ56В4	0,18	1500	280-800	270-130	66
	5АИ63В2	0,55	3000	560-1600	1100-560	81

PP AND POLYMER FANS

Aerodynamic characteristics of GHIMVENT-N-L-184N

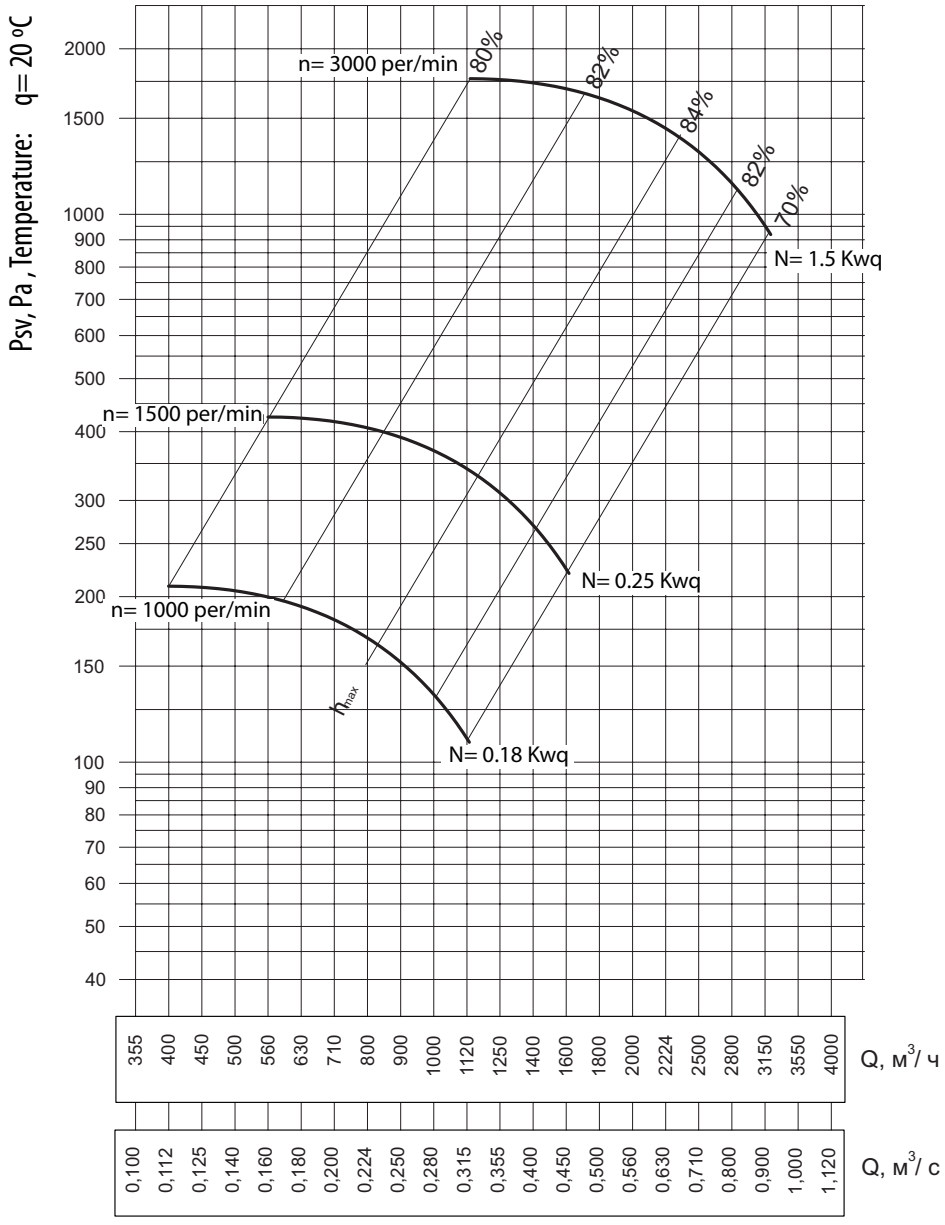


Characteristics of GHIMVENT-N-L-184N

Gerhman Fan Designation	Engine capacity	Motor power, kW	Impeller rotation frequency, r/m	Airflow, m^3/h	Total pressure, Pa	Indication sound level h_{max}*[dB(A)]
GHIMVENT-N-L-184N	5АИ63А6	0,18	1000	280-800	166-85	61
	5АИ56В4	0,18	1500	400-1120	340-175	68
	5АИ71А2	0,75	3000	800-2224	1416-736	84

PP AND POLYMER FANS

Aerodynamic characteristics of GHIMVENT-N-L-204N

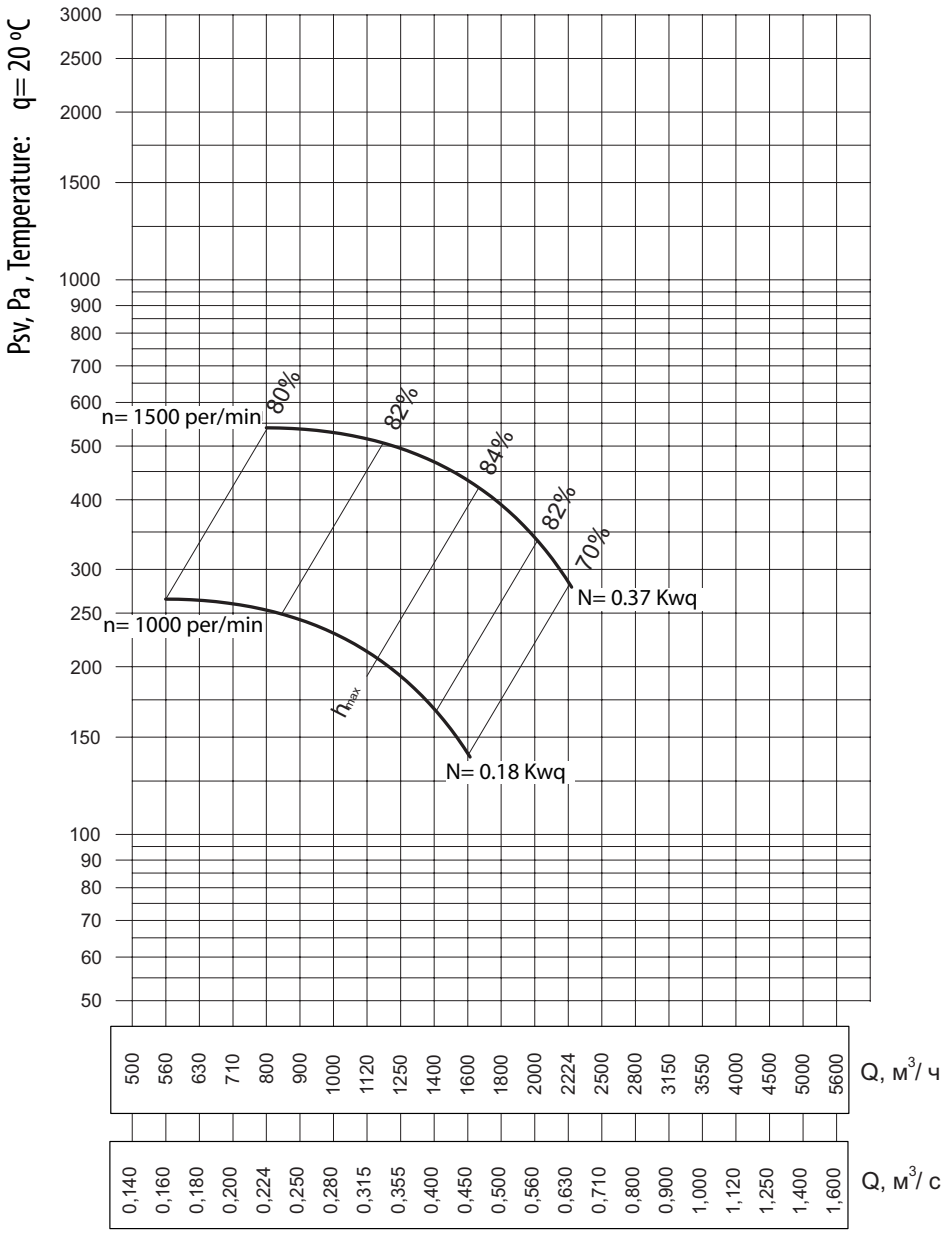


Characteristics of GHIMVENT-N-L-204N

Gerhman Fan Designation	Engine capacity	Motor power, kW	Impeller rotation frequency, r/m	Airflow, m^3/h	Total pressure, Pa	Indication sound level h_{max} *[dB(A)]
GHIMVENT-N-L-204N	5АИ63А6	0,18	1000	400-1120	208-112	64
	5АИ63А4	0,25	1500	560-1600	425-225	72
	5АИ80А2	1,5	3000	1120-3150	1787-925	88

PP AND POLYMER FANS

Aerodynamic characteristics of GHIMVENT-N-L-254N

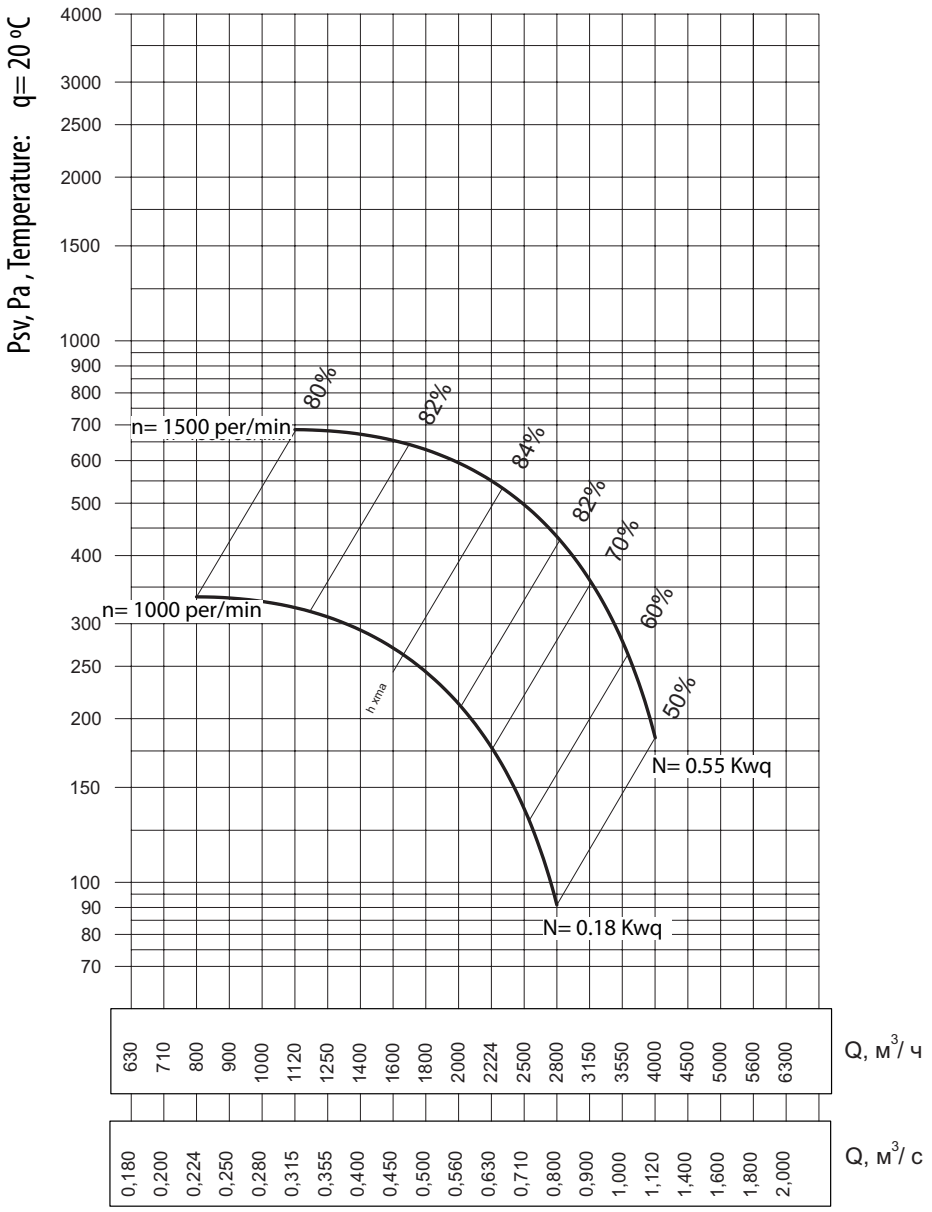


Characteristics of GHIMVENT-N-L-254N

Gerhman Fan Designation	Engine capacity	Motor power, kW	Impeller rotation frequency, r/m	Airflow, m^3/h	Total pressure, Pa	Indication sound level h_{max} *[dB(A)]
GHIMVENT-	5АИ63А6	0,18	1000	560-1600	267-140	65
N-L-254N	5АИ63В4	0,37	1500	800-2224	543-282	73

PP AND POLYMER FANS

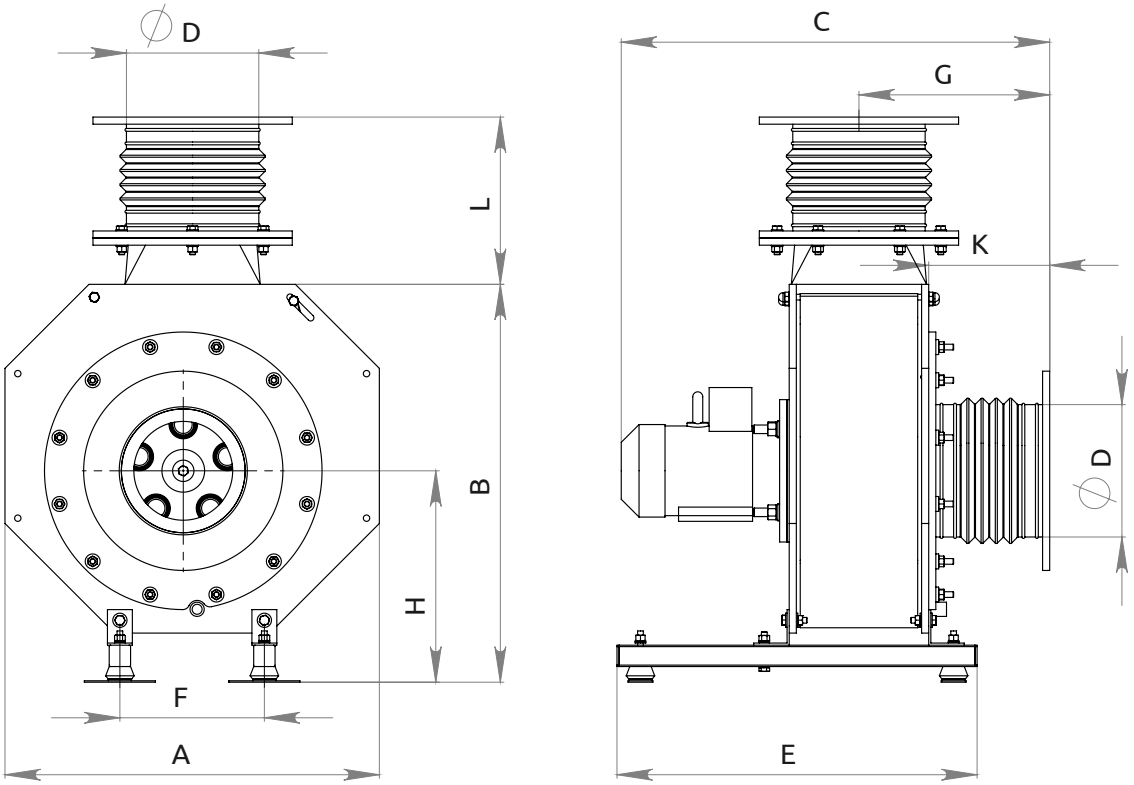
Aerodynamic characteristics of GHIMVENT-N-L-314N



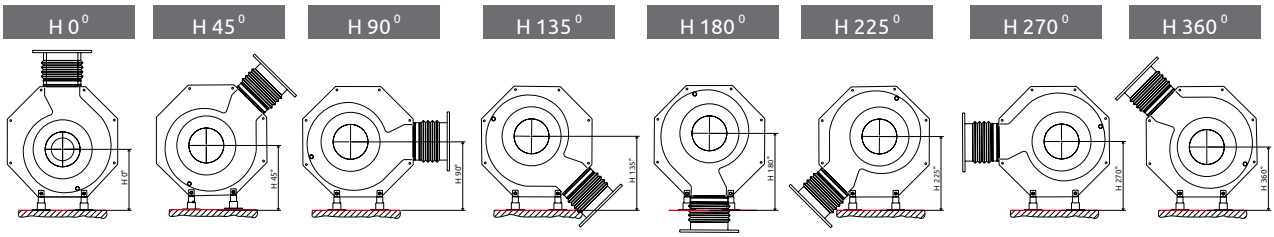
Characteristics of GHIMVENT-N-L-314N

Gerhman Fan Designation	Engine capacity	Motor power, kW	Impeller rotation frequency, r/m	Airflow, m^3/h	Total pressure, Pa	Indication sound level h_{max} *[dB(A)]
GHIMVENT-	5АИ63А6	0,18	1000	800-2800	338-91	66
N-L-314N	5АИ71А4	0,55	1500	1120-4000	687-187	74

PP AND POLYMER FANS



Position shown in direction from inlet

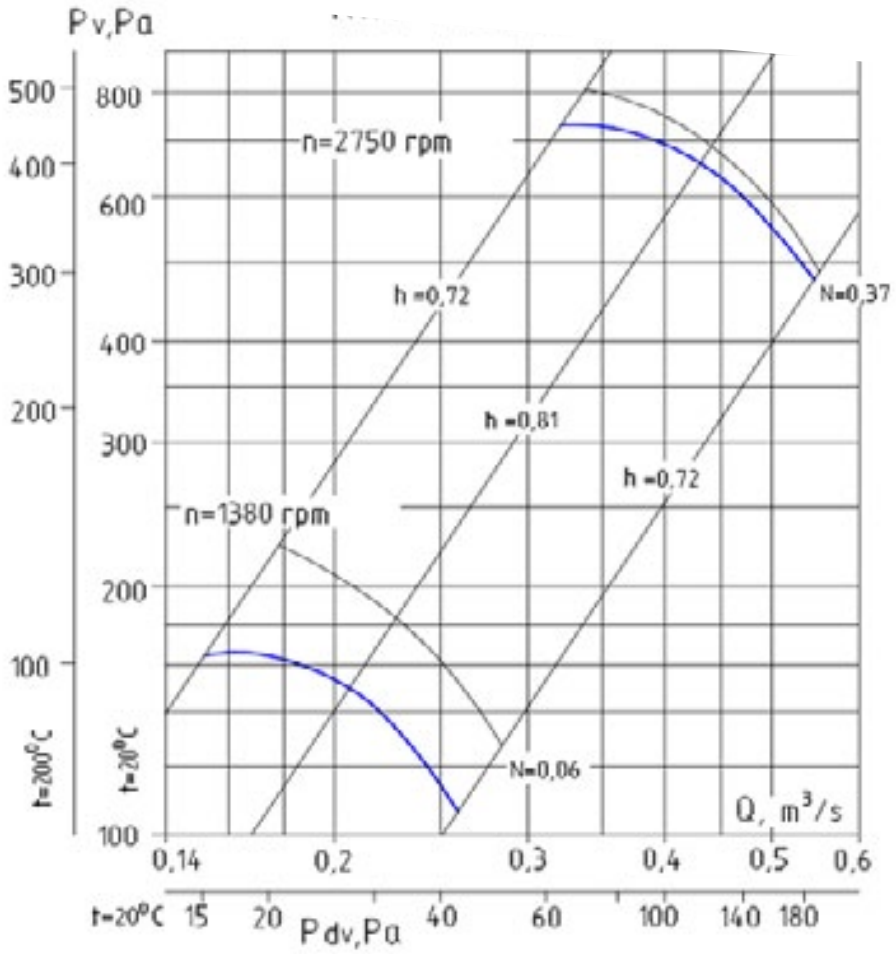


Type	A	B	Cmax	D	E	F	G	K	L	H0	H45	H90	H135	H180	H225	H270	H315
164	510	560	550	160	506	185/199/219	254	175	235	297	311	324	337	332	337	324	311
184	526	560	610	180	506	152/203/275	268	175	235	297	316	344	366	331	348	320	298
204	594	660	635	200	506	225/231/240	278	175	235	322	344	378	405	406	389	355	327
254	662	709	625	250	506	226/260/305	294	175	235	355	376	410	438	421	425	390	362
314	739	776	673	315	506	335/290/400	304	175	235	416	435	454	465	430	444	423	413

PP AND POLYMER FANS

Low Pressure Radial Fans Gerhman

Aerodynamic Characteristics GHIMVENT-L–255N (var.1)



Technical data GHIMVENT-L-255N

Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m^3/s	m^3/h		
GHIMVENT-L-255N (Variant 1)	56A4**	0,12	1380	0,13-0,25	468-900	165-105	25
	63A2	0,37	2750	0,30-0,50	1080-1800	740-490	27

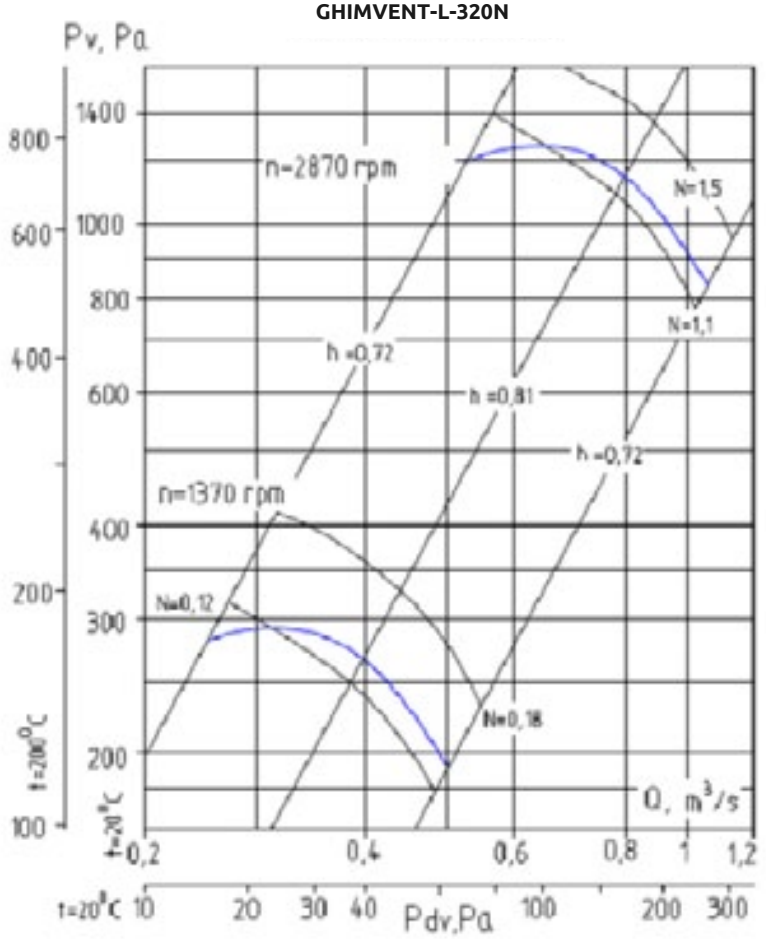
Acoustic Characteristics fans low pressure GHIMVENT-L-255N

Fan number	Performance Variant	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA, dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-255N	1	1380	61	69	62	60	58	50	41	67
	1	2750	73	76	84	77	75	73	65	84

PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-L-320N



Technical data GHIMVENT-L-320N

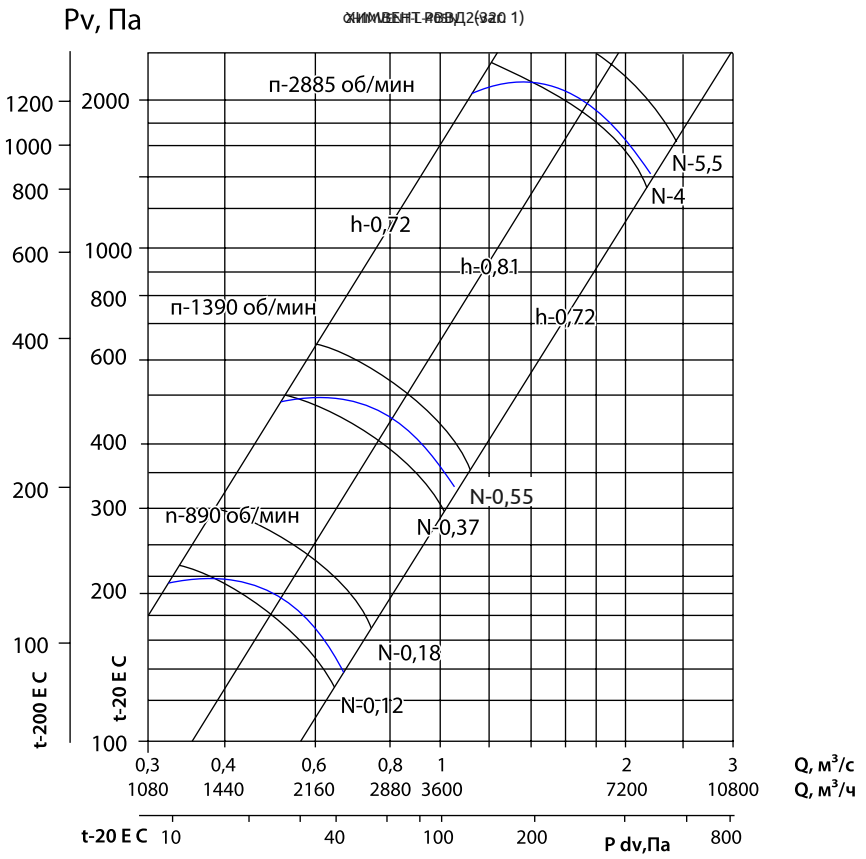
Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m^3/s	m^3/h		
GHIMVENT-L-320N (variant 1)	56B4**	0,18	1370	0,30-0,50	1080-1800	280-180	34
	80A2	1,5	2870	0,55-1,10	1980-3960	1225-785	47

Acoustic characteristics of fan GHIMVENT-L-320N

Fan number	Variant of perfor mance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-320N	1	1370	68	76	69	67	65	57	48	74
	1	2870	81	84	92	85	83	81	73	92

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data of fan GHIMVENT-L-405N

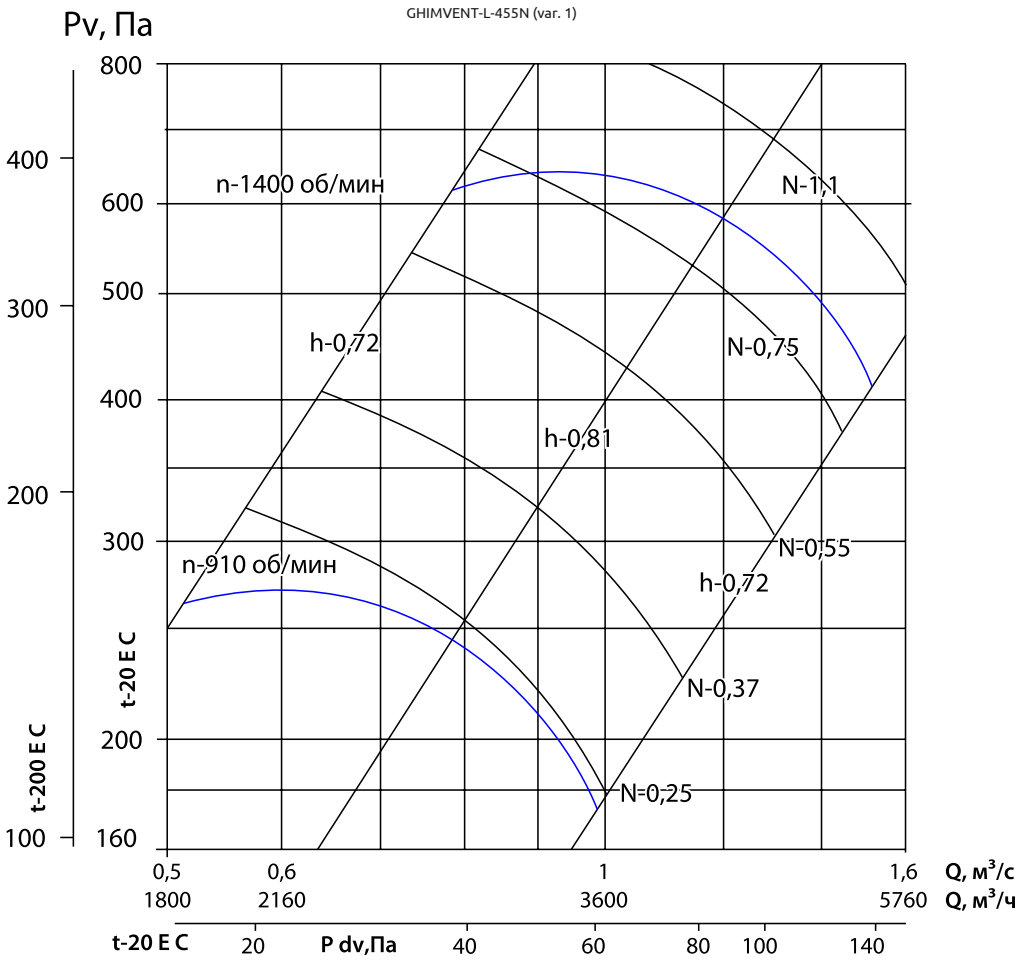
Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m³/s	m³/h		
GHIMVENT-L-405N (variant 1)	63A6**	0,18	890	0,35-0,70	1260-2520	200-130	55
	71A4	0,55	1390	0,55-1,10	1980-3960	500-320	64
	100S2	4,0	2970	1,20-1,30	4320-4680	2200-2275	85
	100L2	5,5	2885	1,10-2,20	3960-7920	2145-1380	91

Acoustic characteristics of fan GHIMVENT-L-405N

Fan number	Variant of perfor mance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-405N	1	890	68	76	69	67	65	57	46	73
	1	1390	77	85	78	76	74	66	57	82
	1	2885	93	96	98	95	90	85	78	103
	1	2970	94	98	99	96	92	87	79	104

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data of fan GHIMVENT-L-455N

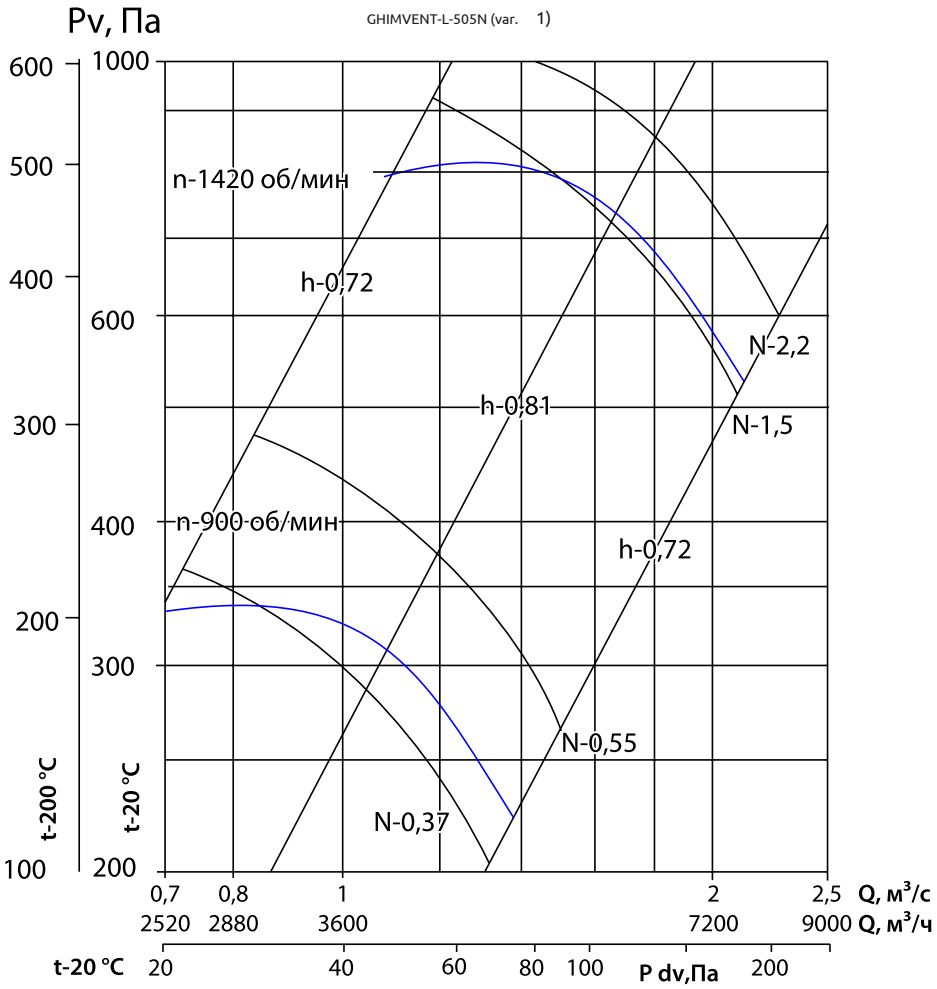
Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m^3/s	m^3/h		
GHIMVENT-L-455N (variant 1)	63B6**	0,25	910	0,50-0,90	1800-3240	260-170	57
	80A4	1,1	1400	0,80-1,50	2880-5400	620-405	70

Acoustic characteristics of fan GHIMVENT-L-455N

Fan number	Variant of perfor mance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-455N	1	910	70	78	71	70	68	60	51	75
	1	1400	79	87	80	78	76	68	59	84

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data of fan GHIMVENT-L-505N

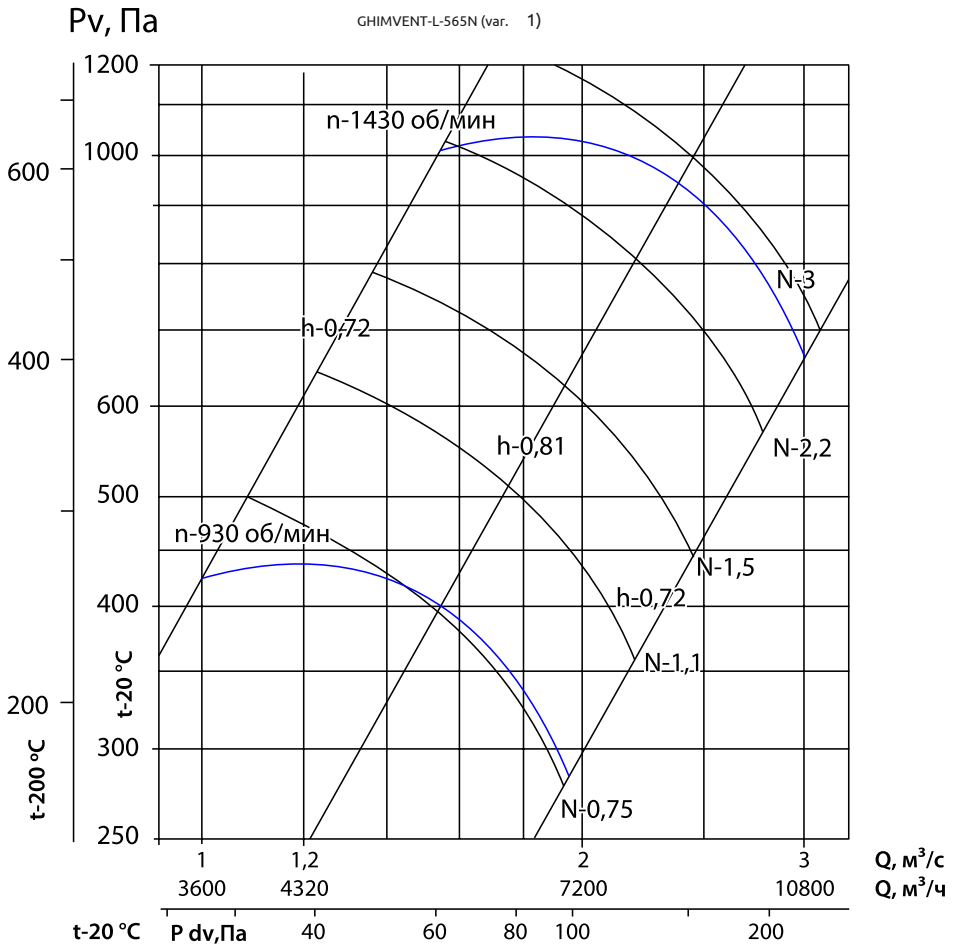
Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m^3/s	m^3/h		
GHIMVENT-L-505N (variant 1)	71B6	0,55	900	0,70-1,35	2520-4860	325-210	89
	80B4	1,5	1405	1,10-1,60	3960-5760	795-710	93
	90L4	2,2	1420	1,10-2,10	3960-7560	810-520	103

Acoustic characteristics of fan GHIMVENT-L-505N

Fan number	Variant of perfor mance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-505N	1	900	73	81	73	72	71	62	53	78
	1	1405	83	91	83	81	80	71	63	87

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data of fan GHIMVENT-L-565N

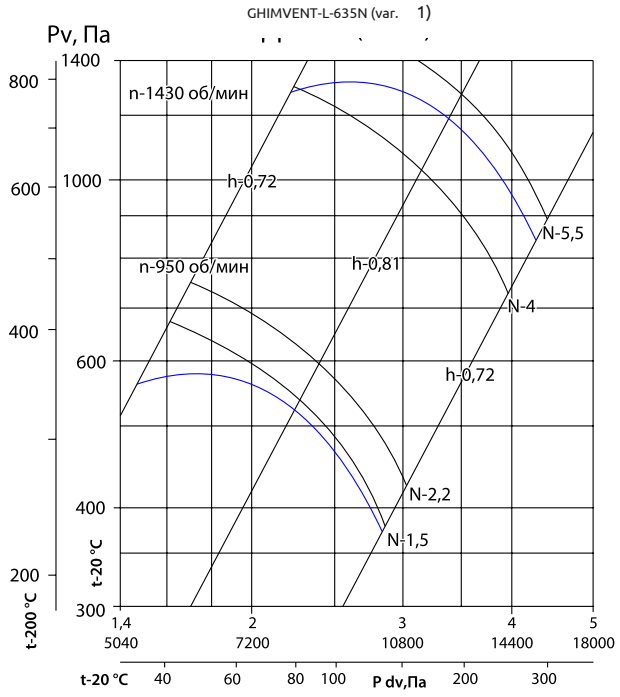
Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m³/s	m³/h		
GHIMVENT-L-565N (variant 1)	80A6	0,75	930	1,0-1,5	3600-5400	420-410	105
	80B6	1,1	930	1,0-1,9	3600-6840	420-280	105
	100S4	3,0	1430	1,5-3,0	5400-10800	1000-670	110

Acoustic characteristics of fan GHIMVENT-L-565N

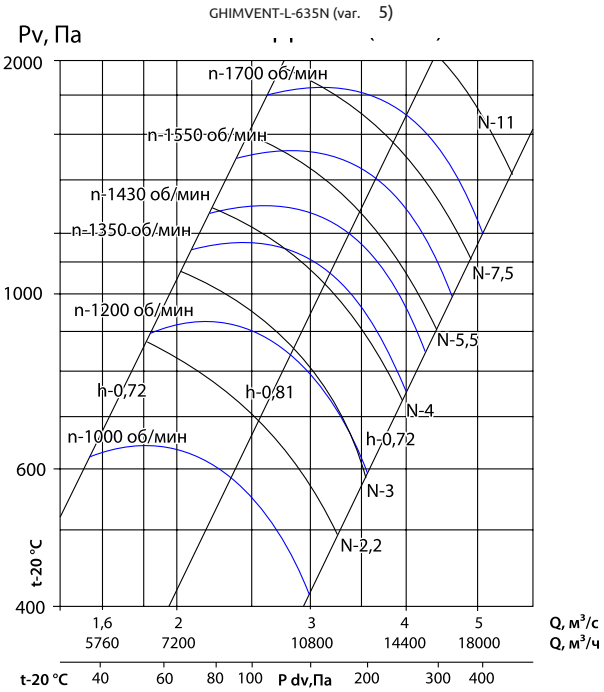
Fan number	Variant of perfor mance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-565N	1	930	79	87	80	77	71	68	60	84
	1	1420 1430	84	92	85	82	81	73	65	88

PP AND POLYMER FANS

Aerodynamic Characteristics



Aerodynamic Characteristics



Technical data of fan GHIMVENT-L-635N

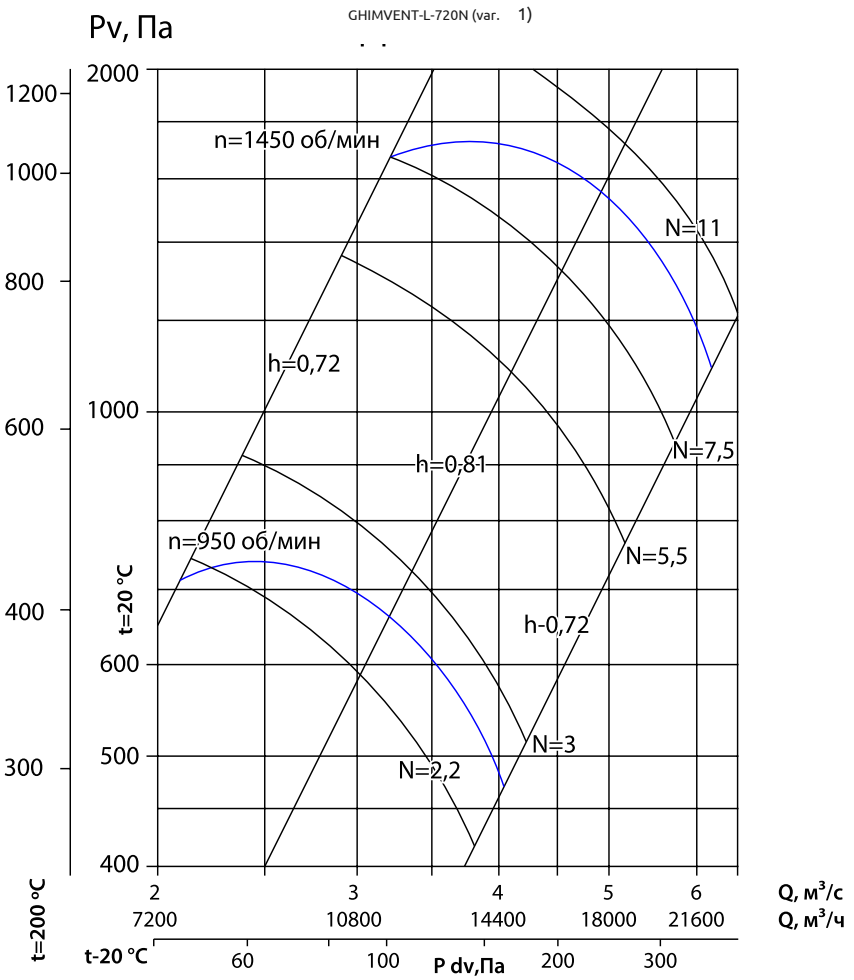
Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m³/s	m³/h		
GHIMVENT-L-635N (variant 1)	90L6	1,5	940	1,5-2,8	5400-10080	565-265	145
	100L6	2,2	950	1,5-2,8	5400-10080	580-370	160
	112M4	5,5	1430	2,2-4,3	7920-15480	1310-840	175
GHIMVENT-L-635N (variant 5)	90L4 - - 132M4	2,2 - 11	1000 - 1700	1,6 - 5,0	5760-18000	700 - 1800	220 Without engine

Acoustic characteristics of fan GHIMVENT-L-635N

Fan number	Variant of performance	n, rotation/ min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-635N	1	940 950	81	89	82	80	73	70	61	86
	1	1430	92	100	93	91	89	81	72	97
	5	1000÷1700	81÷100	89÷108	82÷101	80÷99	73÷97	70÷88	61÷80	86÷105

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data of fan GHIMVENT-L-720N

Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m^3/s	m^3/h		
GHIMVENT-L-720N (variant 1)	112MA6	3,0	950	2,1-4,0	7560-14400	710-470	215
	132M4	11	1450	3,3-6,2	11880-22320	1650-1090	255

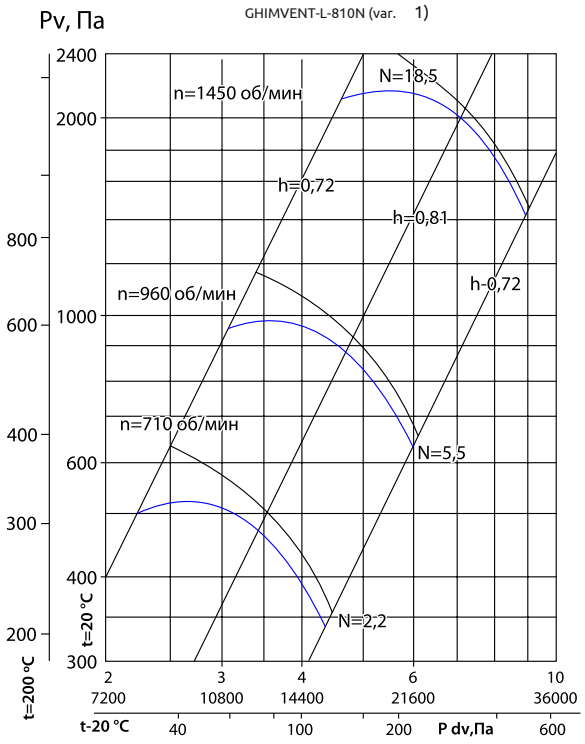
Acoustic characteristics of fan GHIMVENT-L-720N

Fan number	Variant of perfor mance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-720N	1	950	86	94	87	85	80	75	76	91
	1	1450	95	103	96	94	92	84	75	100

PP AND POLYMER FANS

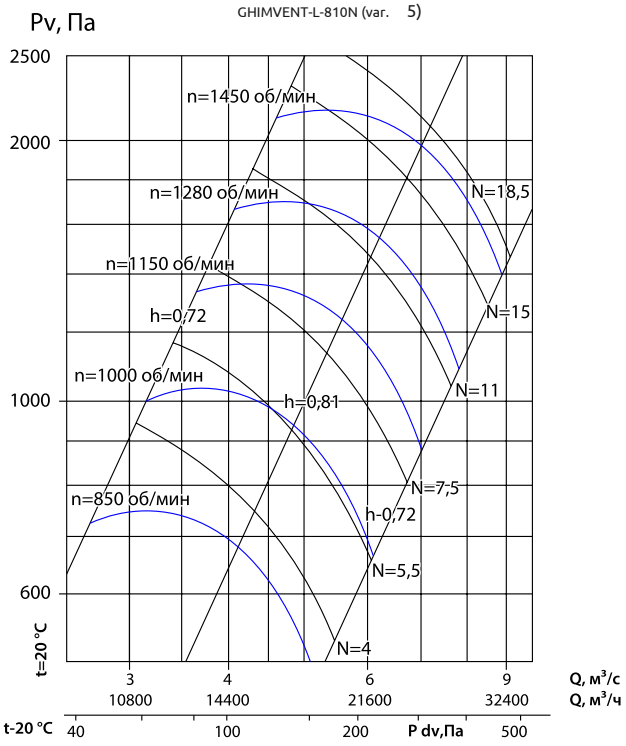
Aerodynamic Characteristics

GHIMVENT-L-810N (var. 1)



Aerodynamic Characteristics

GHIMVENT-L-810N (var. 5)



Technical data of fan GHIMVENT-L-810N

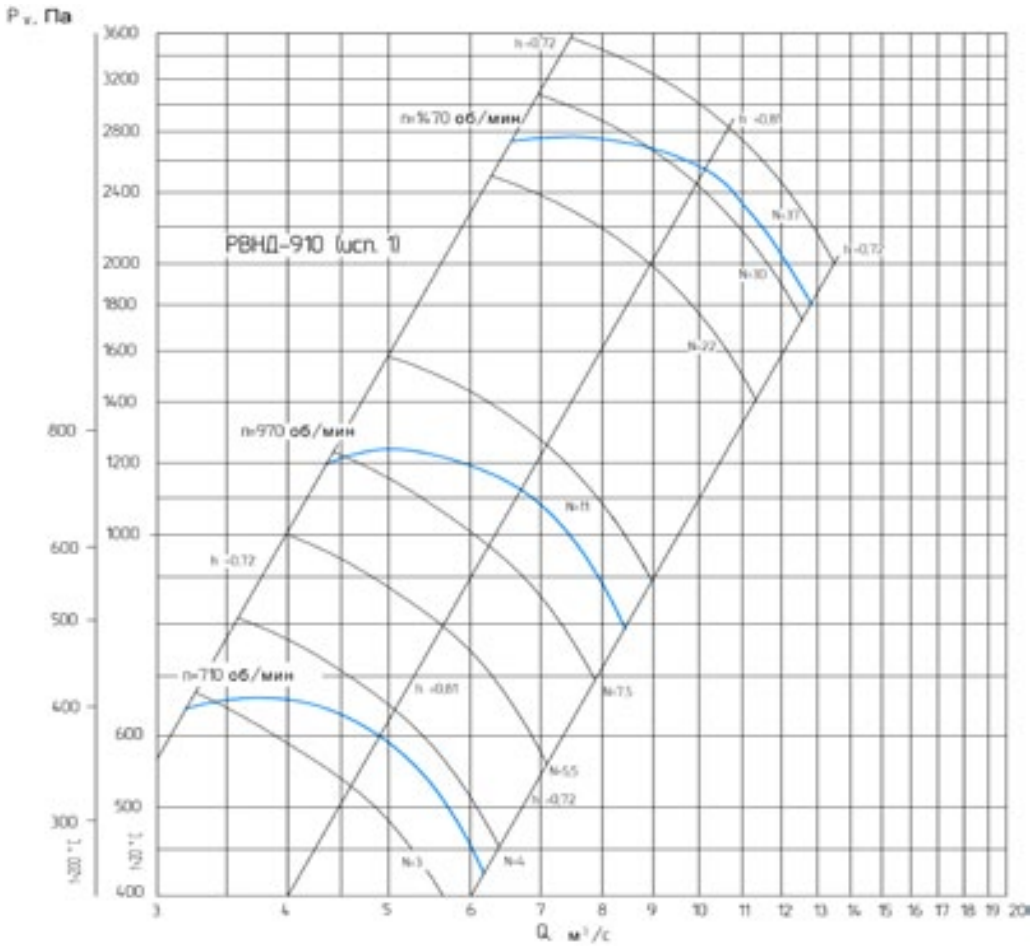
Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m³/s	m³/h		
GHIMVENT-L-810N (variant 1)	112MA8	2,2	710	2,2-4,3	7920-15480	520-335	265
	132S6	5,5	960	3,0-5,9	10800-21240	950-610	285
	160M4	18,5	1450	4,6-9,0	16560-32400	2170-1395	370
GHIMVENT-L-810N (variant 5)	100L4 - - 160M4	2,2 - 18,5	700 - 1500	2,2 - 9,0	7920-32400	300 - 2100	360 Without engine

Acoustic characteristics of fan GHIMVENT-L-810N

Fan number	Variant of perfor mance	n, rotation/ min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-810N	1	710	88	96	89	86	85	77	68	93
	1	960	91	99	92	90	88	80	71	96
	1	1450	98	106	99	97	95	87	78	103
	5	700÷1500	88÷98	96÷106	89÷99	86÷97	85÷95	77÷87	68÷78	93÷103

PP AND POLYMER FANS

Aerodynamic Characteristics GHIMVENT-L-910N



Technical data of fan GHIMVENT-L-910N

Fan model	Engine capacity	Installed power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m^3/s	m^3/h		
GHIMVENT-L-910N (variant 1)	132S8	4,0	710	3,2-6,2	11520-22320	630-420	360
	160S6	11	970	4,4-8,4	15840-30240	1190-790	415
	180M4	30	1500	6,6-14,3	23760-51480	2780-1800	455

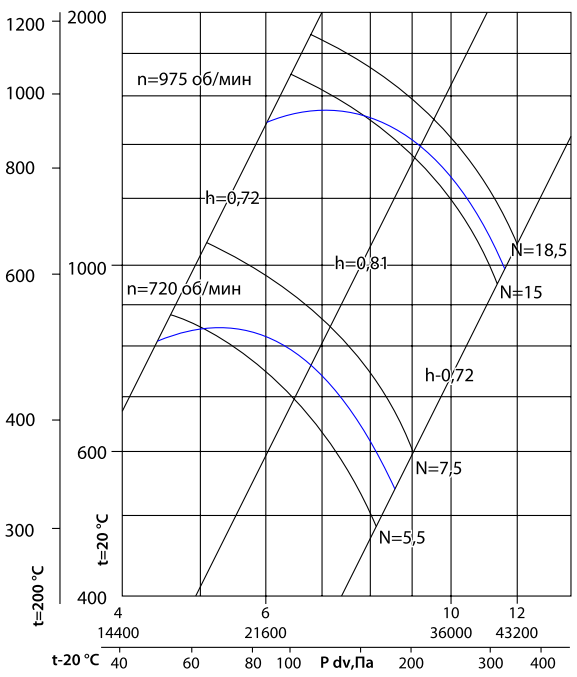
Acoustic characteristics of fan GHIMVENT-L-910N

Fan number	Variant of perfor mance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-910N	1	710	90	98	91	88	87	79	70	100
	1	970	94	102	95	96	91	83	74	102
	1	1500	104	111	104	103	101	93	85	110

PP AND POLYMER FANS

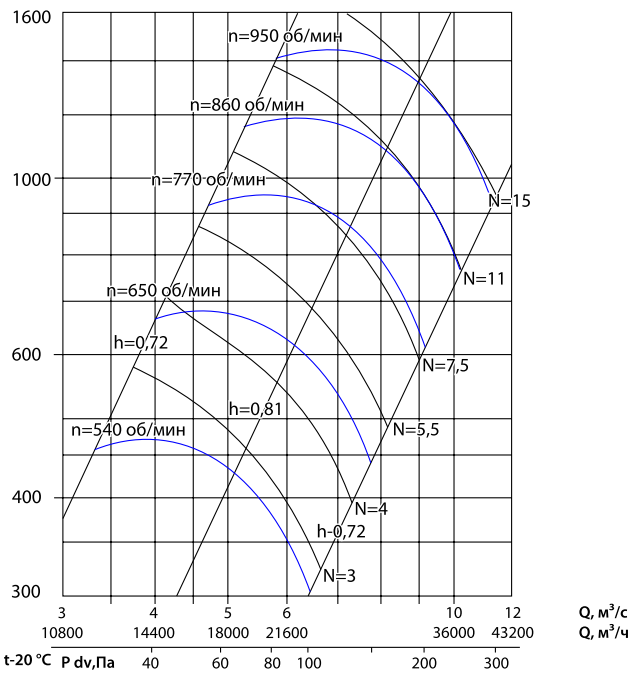
Aerodynamic Characteristics

GHIMVENT-L-1010N (var. 1)



Aerodynamic Characteristics

GHIMVENT-L-1010N (var. 5)



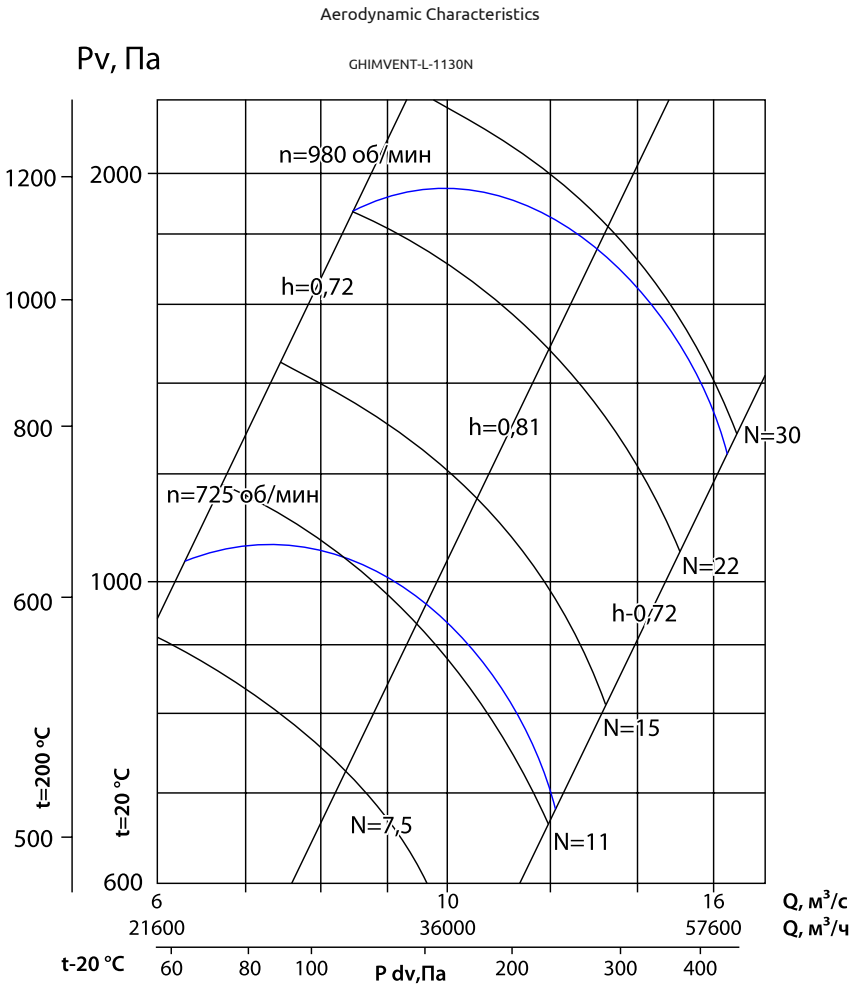
Technical data of fan GHIMVENT-L-1010N

Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m^3/s	m^3/h		
GHIMVENT-L-1010N (variant 1)	160S8	7,5	720	4,4-8,6	15840-30960	835-540	535
	180M6	18,5	975	6,0-11,6	21600-40760	1530-985	595
GHIMVENT-L-1010N (variant 5)	100L4 - - 160M4	2,2 - 18,5	500 -1000	3,5-11,0	12600-39600	300-1400	550 Without engine

Acoustic characteristics of fan GHIMVENT-L-1010N

Fan number	Variant of perfor mance	n, rotation/ min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-1010N	1	720	91	99	92	90	88	80	71	101
	1	975	98	106	99	97	95	87	78	108
	5	500÷1000	87÷98	95÷106	88÷99	86÷97	84÷95	76÷87	68÷78	97÷108

PP AND POLYMER FANS



Technical data of fan GHIMVENT-L-1130N

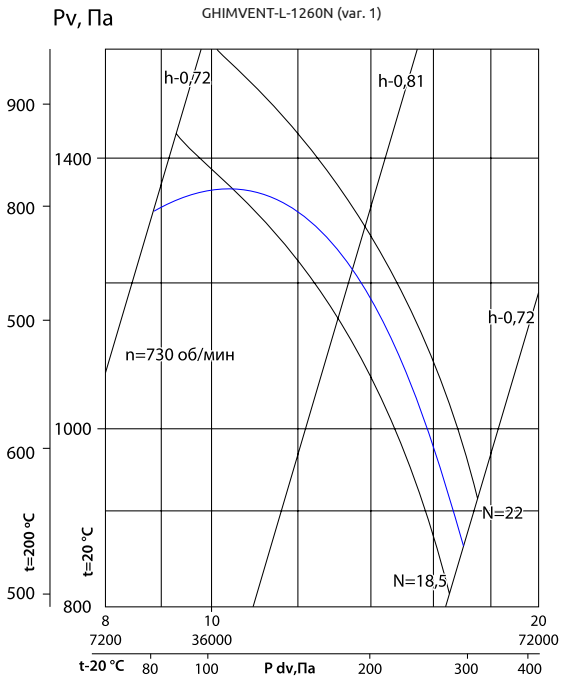
Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m^3/s	m^3/h		
GHIMVENT-L-1130N (variant 1)	160M8	11	720	6,2-8,6	22320-30960	1010-1010	585
	180M8	15	725	6,3-12,1	22680-43560	1030-680	620
	200L6	30	980	8,5-16,4	30600-59040	1880-1250	735

Acoustic characteristics of fan GHIMVENT-L-1130N

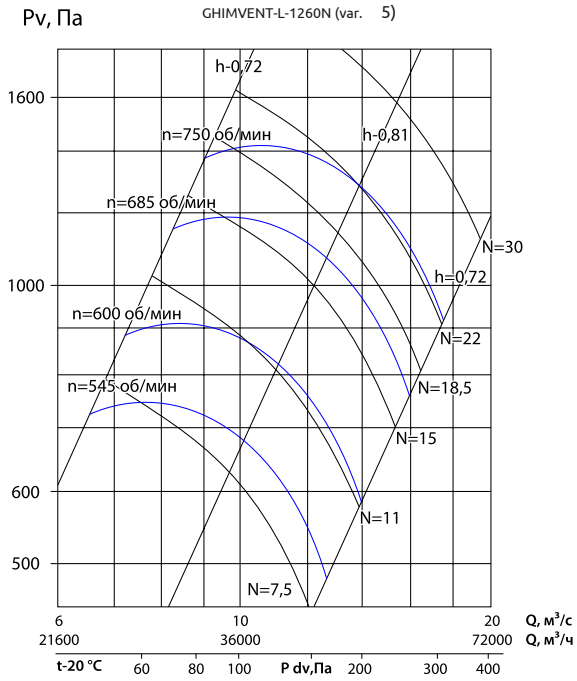
Fan number	Variant of perfor mance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-1130N	1	720 725	94	102	95	93	91	83	74	104
	1	980	101	109	102	100	95	90	81	111

PP AND POLYMER FANS

Aerodynamic Characteristics



Aerodynamic Characteristics



Technical data of fan GHIMVENT-L-1260N

Fan model	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow		Full pressure,Pa	Weight* kg
				m^3/s	m^3/h		
GHIMVENT-L-1260N (variant 1)	200M8	18,5	730	8,8-10,0	31680-36000	1300-1350	840
	200L8	22	730	8,8-17,0	31680-61200	1340-860	890
GHIMVENT-L-1260N (variant 5)	132M4 - - 180M4	7,5 - 30	500 - 800	6,0-18,0	21600-64800	500-1400	680 Without engine

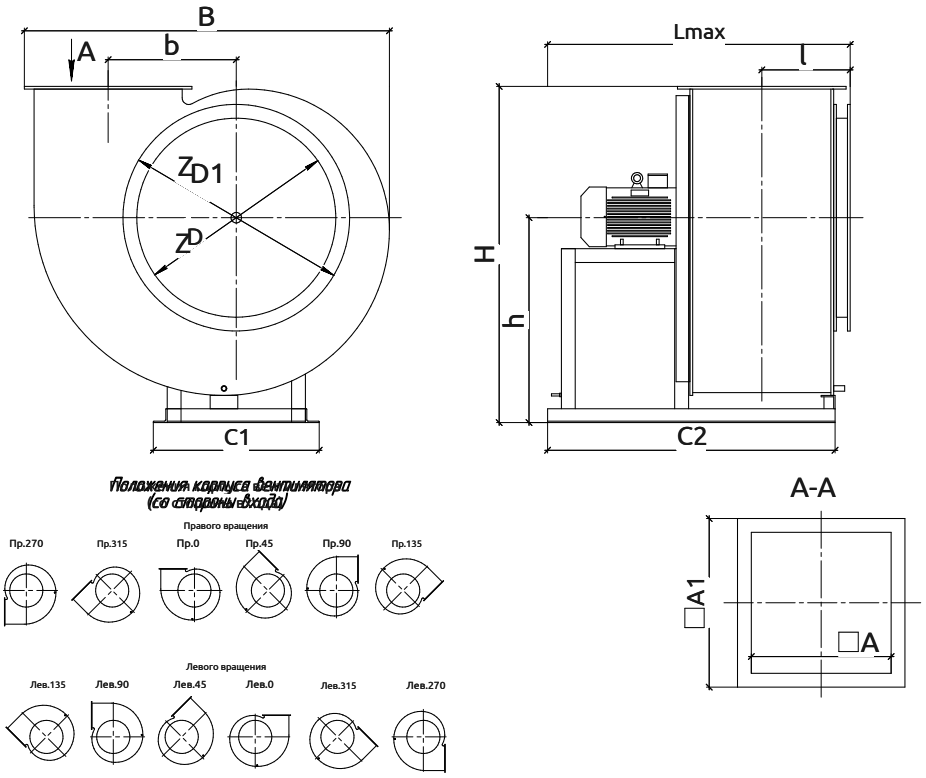
Acoustic characteristics of fan GHIMVENT-L-1260N

Fan number	Variant of perfor mance	n, rotation/ min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-L-1260N	1	730	98	105	101	97	95	87	78	108
	5	500÷800	90÷99	98÷106	91÷102	89÷98	87÷96	79÷88	71÷79	100÷109

PP AND POLYMER FANS

GHIMVENT-L-255N ... L-1260 (variant 1)

Overall and connecting dimensions

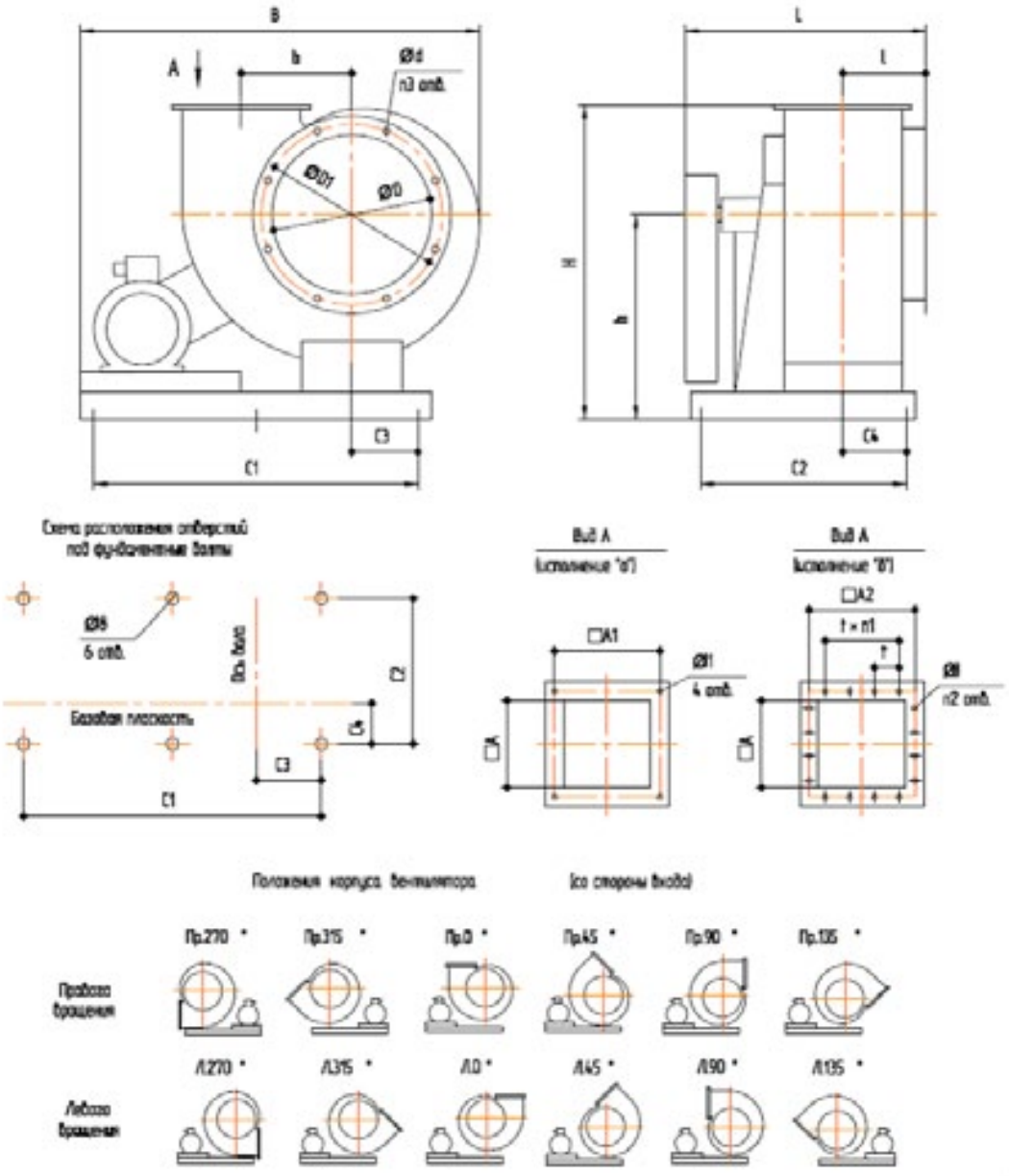


№	Motor frame	B	H	Lmax	b	h	l	D	D1	A	A1	C1	C2	Flange thickness
255	56A4-63A2	510	520	590	163	340	145	255	355	185	285	300	530	10
320	56B4	630	620	595	205	390	170	320	420	230	330	340	540	10
	80A2			665									610	
405	63A6-71A4	775	750	725	260	470	200	405	505	290	390	400	670	10
	80A4-100L2			785									730	
455	63B6-80A4	865	820	820	293	510	220	455	555	330	430	400	760	10
505	71B6-90L4	940	890	860	325	550	235	505	605	360	460	400	800	10
565	80A6-100S4	1050	980	950	360	605	260	565	665	410	510	500	890	10
635	90L6-100L4	1175	1110	990	410	685	281	635	735	451	551	500	940	10
	112M4-132M4			1090									1035	
720	112M6-132M4	1325	1220	1145	464	745	310	720	820	510	610	600	1090	10
810	112M6	1495	1410	1205	520	880	340	810	910	570	670	692	1150	10
	132S6-160M4			1355									1300	
910	132S8-160S6	1660	1565	1395	589	965	375	910	1010	640	740	692	1350	10
	160M4-180M2			1545									1500	
1010	160S8-180M2	1835	1715	1625	653	1050	430	1010	1110	710	810	792	1550	15
1130	160M8-200L6	2030	1905	1760	725	1170	475	1130	1230	800	900	792	1630	15
1260	200L6-200M8	2255	2070	1800	812	1260	518	1260	1360	885	985	892	1720	15

PP AND POLYMER FANS

GHIMVENT-L-635N ... L-1260 (variant 5)

Overall and connecting dimensions

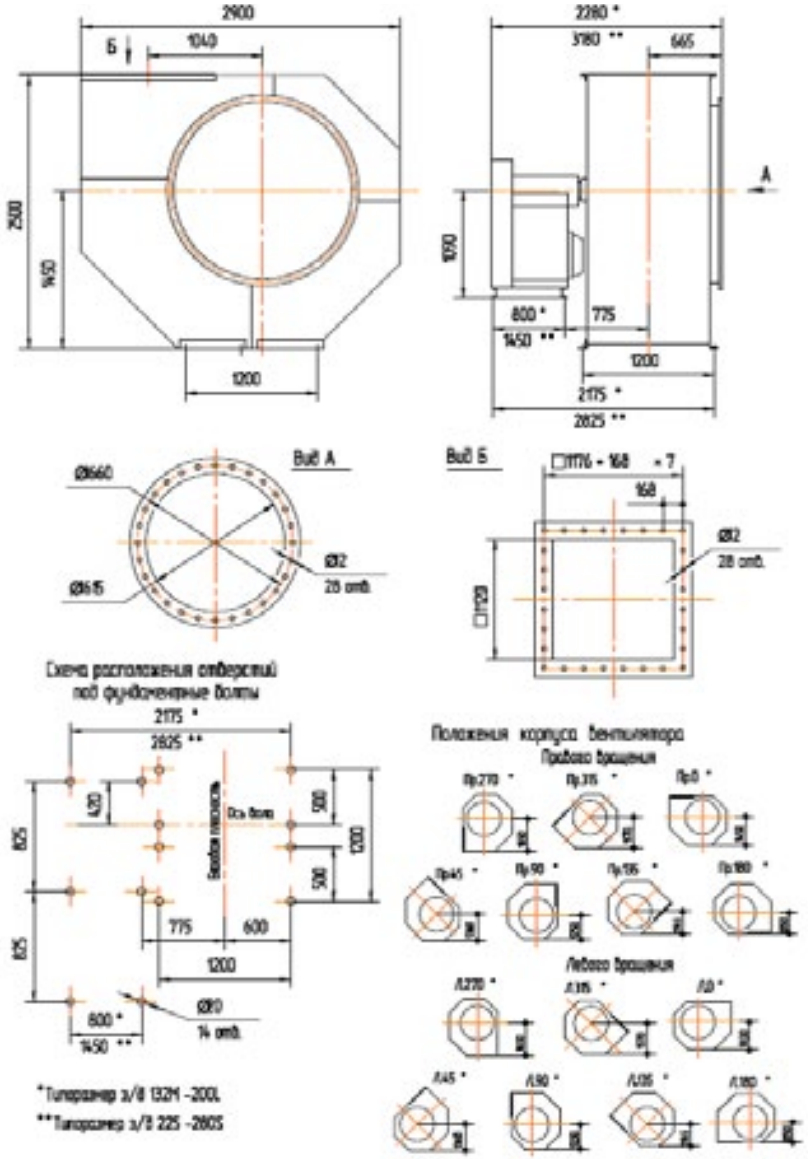


№B	max	H	L	b	h	l	D	D1	d	n3	A	A1	A2	t	n1	n2	C1	C2	C3	C4
635	1760	1165	900	410	760	307	635	670	7	16	441	465	470	100	4	20	600x2	785	245	245
810	2320	1460	1280	520	960	375	810	850	10	16	560	575	600	150	4	16	775x2	1050	245	302
1010	2710	1765	1500	651	1130	445	1010	1050	10	16	700	-	750	150	5	20	900x2	1190	335	373
1260	3100	2190	1650	814	1400	532	1260	1300	10	16	875	-	925	125	6	28	1000x2	1370	435	465

PP AND POLYMER FANS

GHIMVENT-L-1615N (variant 5)

Overall and connecting dimensions



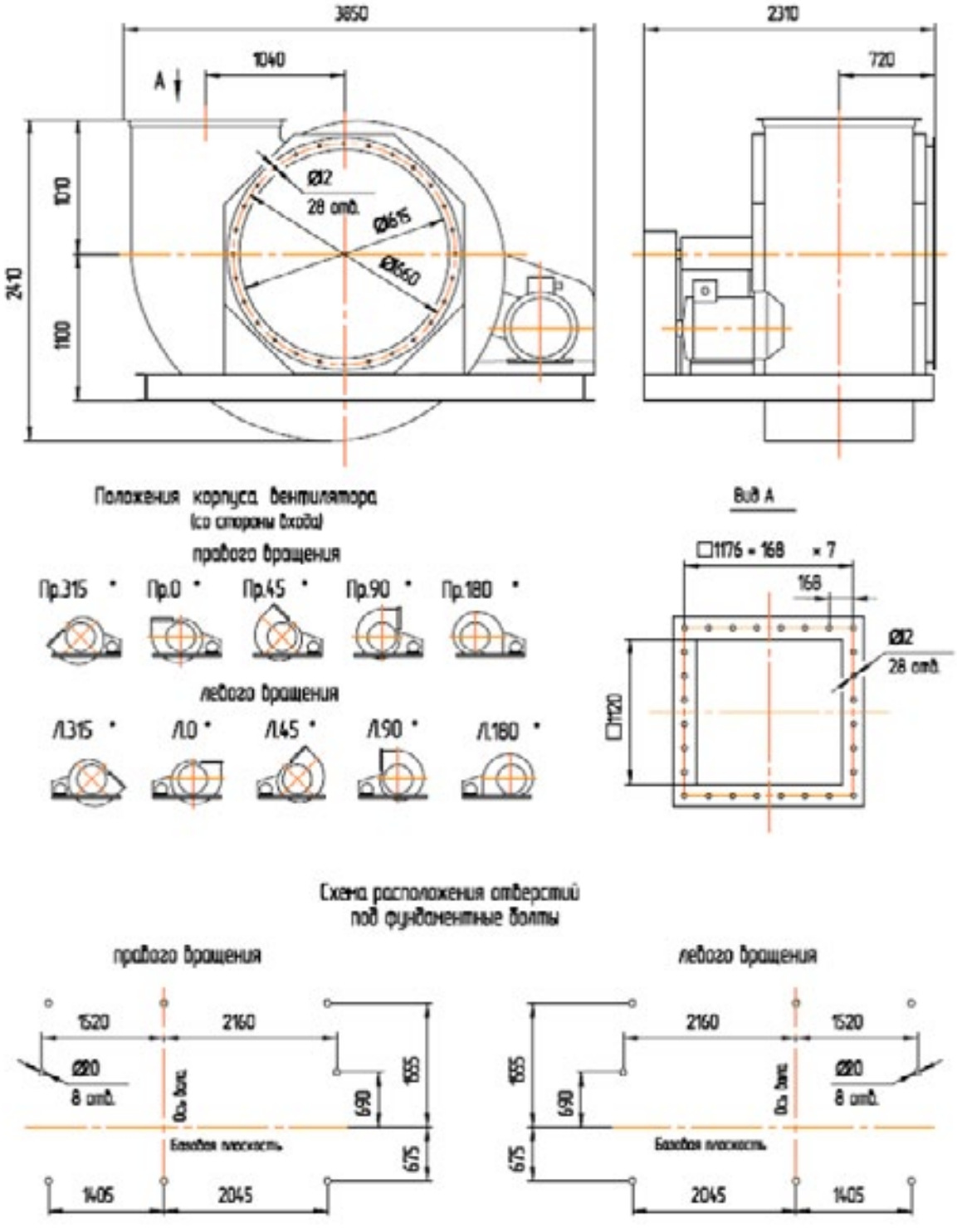
Acoustic characteristics of fan GHIMVENT-L-1615N

Fan number	Variant of performance	n, rotation/ min^{-1}	Value Lp1, dB octave bands f, Hz								LpA, dB
			63	125	250	500	1000	2000	4000	8000	
Gerhman - L-1615	5	420	91	95	102	101	100	95	88	76	104
	5	450	92	96	103	102	101	96	89	77	105
	5	500	95	99	106	105	104	99	92	80	108
	5	550	97	101	108	107	106	101	94	82	110
	5	600	103	107	114	113	112	107	100	88	116
	5	720	108	114	120	126	132	138	144	150	156

PP AND POLYMER FANS

GHIMVENT-L-1615N **(variant 5, on common frame)**

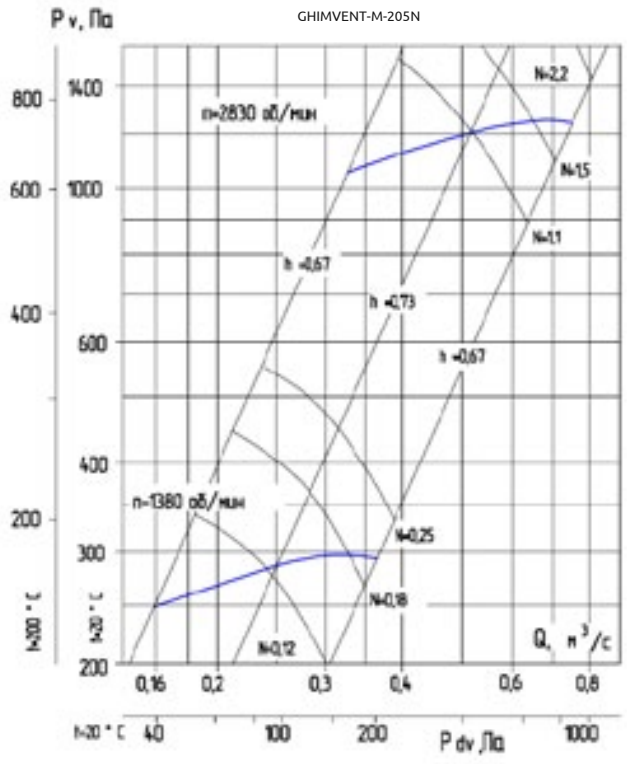
Overall and connecting dimensions



PP AND POLYMER FANS

Medium Pressure Radial Fan

Aerodynamic Characteristic



Technical data GHIMVENT-M-205N

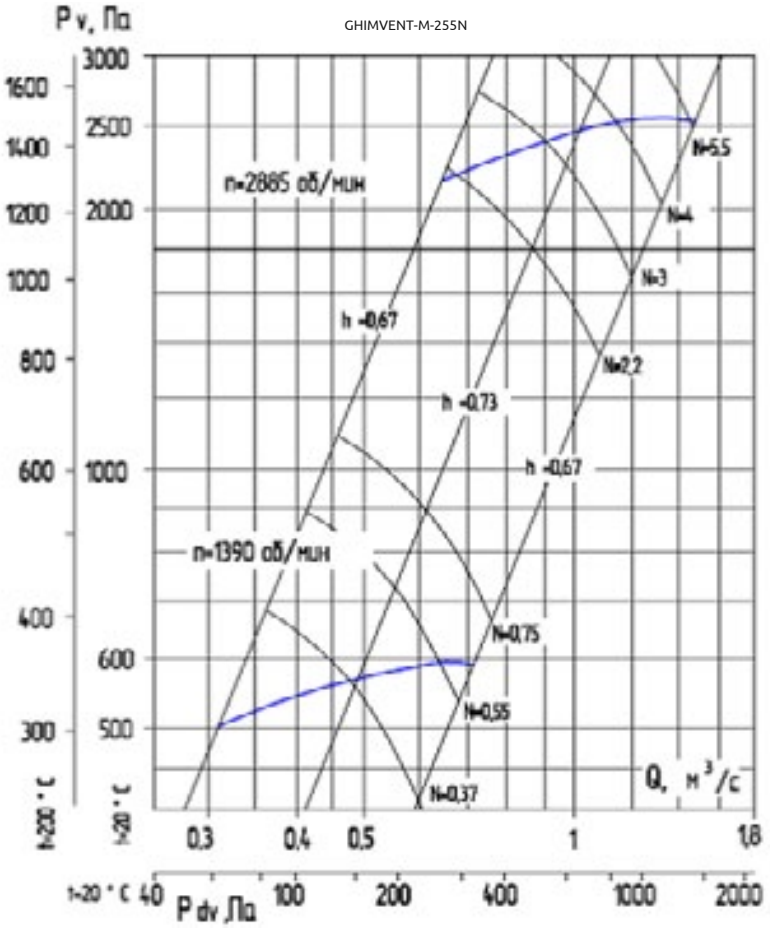
Fan designation	Engine capacity	Installed power,kW	Impeller rotation frequency,r	Airflow, m ³/s	Total pressure,Pa	Weight* kg
GHIMVENT-M-205N (variant 1)	56B4**	0,18	1370	0,16-0,32	250-290	21
	63A4	0,25	1380	0,16-0,36	255-300	23
	71B2	1,1	2810	0,32-0,5	1060-1205	32
	80A2	1,5	2820	0,32-0,6	1065-1255	34
	80B2	2,2	2830	0,33-0,74	1075-1255	37

Acoustic characteristics of fan medium pressure GHIMVENT-M-205N

Fan number	Variant of performance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-205N	1	1370 1380	69	73	75	71	67	62	54	86
	1	2810 2820 2830	84	88	90	86	82	77	69	69

PP AND POLYMER FANS

Aerodynamic Characteristic



Technical data GHIMVENT-M-255N

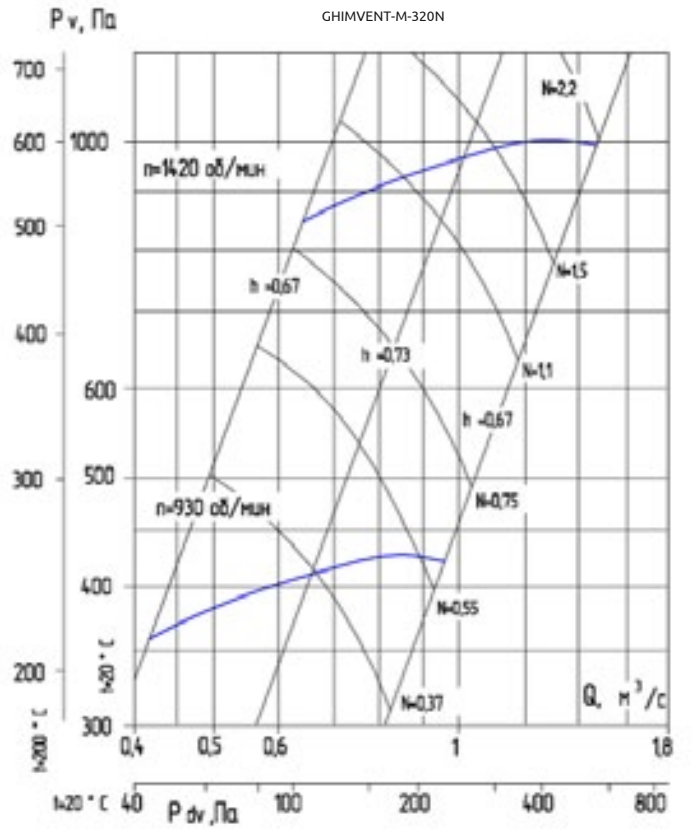
Fan designation	Engine capacity	Installed power,kW	Impeller rotation frequency,r	Airflow, m ³/s	Total pressure,Pa	Weight* kg
GHIMVENT-M-255N (variant 1)	71A4	0,55	1390	0,3-0,6	505-600	36
	71B4	0,75	1390	0,3-0,7	505-590	36
	90L2	3,0	2870	0,65-0,9	2180-2410	50
	100S2	4,0	2870	0,65-1,1	2180-2520	59
	100L2	5,5	2885	0,65-1,4	2180-2510	64

Acoustic characteristics of fan medium pressure GHIMVENT-M-255N

Fan number	Variant of performance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-255N	1	1390	74	78	80	76	72	67	59	84
	1	2870 2885	93	97	99	95	91	86	78	103

PP AND POLYMER FANS

Aerodynamic Characteristic



Technical data GHIMVENT-M-320N

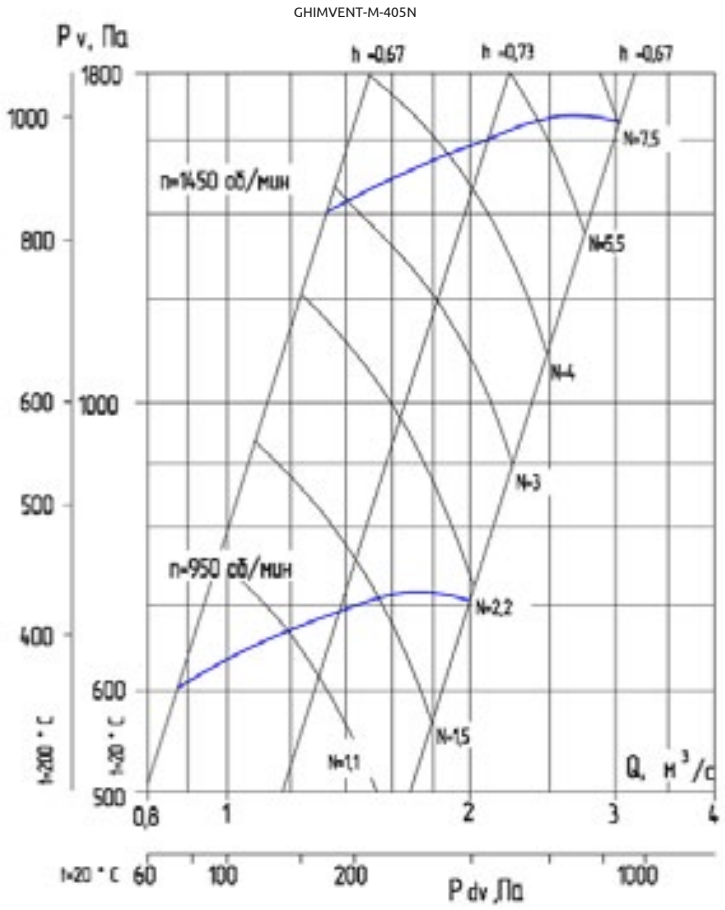
Fan designation	Engine capacity	Installed power,kW	Impeller rotation frequency,r	Airflow, m ^{3}/s	Total pressure,Pa	Weight* kg
GHIMVENT-M-320N (variant 1)	71A6	0,37	910	0,4-0,65	345-390	46
	71B6	0,55	900	0,4-0,9	340-390	46
	80A6	0,75	930	0,4-1,0	360-420	49
	80B4	1,5	1405	0,6-1,1	820-950	51
	90L4	2,2	1420	0,65-1,5	840-970	60

Acoustic characteristics of fan medium pressure GHIMVENT-M-320N

Fan number	Variant of performance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-320N	1	910 900	73	77	79	75	71	66	58	83
	1	1405 1420	82	86	88	84	80	75	67	92

PP AND POLYMER FANS

Aerodynamic Characteristic



Technical data GHIMVENT-M-405N

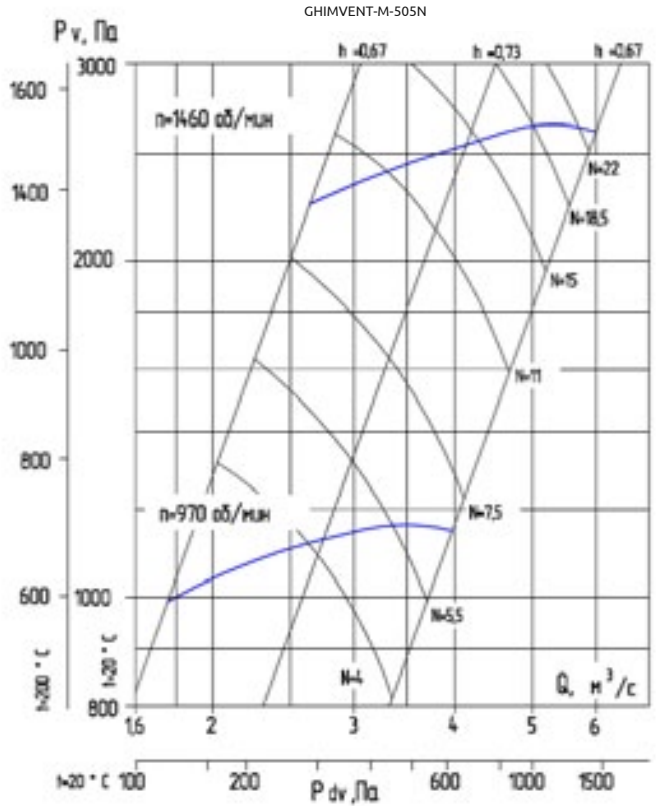
Fan designation	Engine capacity	Installed power,kW	Impeller rotation frequency,r	Airflow, m ³/s	Total pressure,Pa	Weight* kg
GHIMVENT-M-405N (variant 1)	90L6	1,5	940	0,9-1,5	590-680	78
	100L6	2,2	950	0,9-2,0	605-700	91
	100L4	4,0	1430	1,3-1,8	1370-1480	91
	112M4	5,5	1430	1,3-2,4	1370-1600	112
	132S4	7,5	1450	1,3-3,0	1410-1640	132

Acoustic characteristics of fan medium pressure GHIMVENT-M-405N

Fan number	Variant of performance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-405N	1	950	80	84	86	82	78	73	65	90
	1	1430 1450	91	95	97	93	89	84	76	101

PP AND POLYMER FANS

Aerodynamic Characteristic



Technical data GHIMVENT-M-505N

Fan designation	Engine capacity	Installed power,kW	Impeller rotation frequency,r	Airflow, m ³/s	Total pressure,Pa	Weight* kg
GHIMVENT-M-505N (variant 1)	112MB6	4,0	950	1,7-2,7	945-1075	145
	132S6	5,5	960	1,7-3,3	965-1100	165
	132M6	7,5	970	1,8-4,0	985-1150	185
	160S4	15	1450	2,6-4,3	2200-2500	225
	160M4	18.5	1450	2,6-5,0	2200-2550	250
	180S4	22	1460	2,6-5,8	2235-2600	265

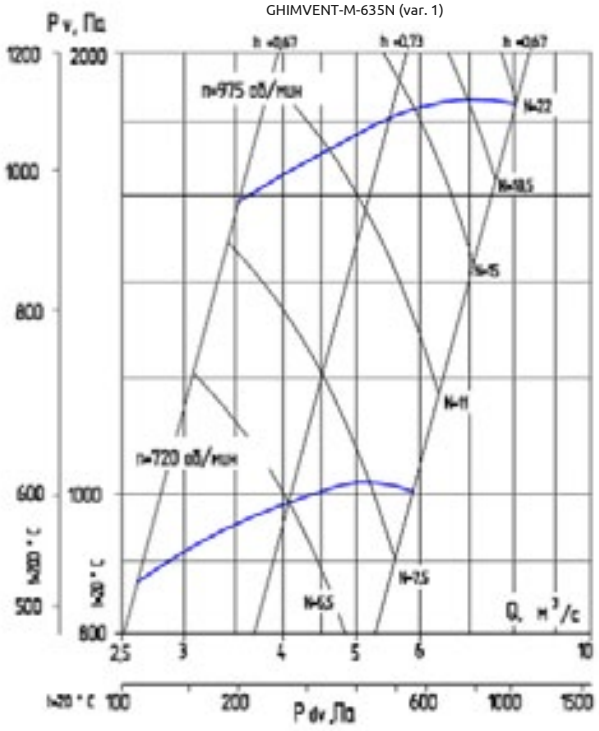
Acoustic characteristics of fan medium pressure GHIMVENT-M-505N

Fan number	Variant of performance	n, rotation/min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-505N	1	950 960 970	87	92	93	91	87	81	74	99
	1	1450 1460	98	103	104	101	98	90	83	109

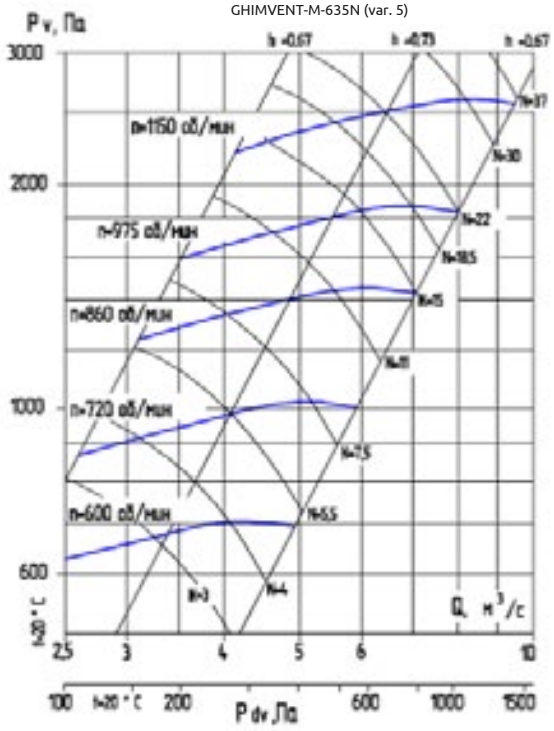
PP AND POLYMER FANS

Aerodynamic Characteristic

GHIMVENT-M-635N (var. 1)



GHIMVENT-M-635N (var. 5)



Technical data GHIMVENT-M-635N

Fan designation	Engine capacity	Installed power,kW	Impeller rotation frequency,r	Airflow, m ³/s	Full pressure,Pa	Weight* kg
GHIMVENT-M-635N (variant 1)	132M8	5,5	710	2,6-4,2	840-950	230
	160S8	7,5	720	2,6-5,1	860-1010	275
	160M8	11	720	2,6-5,9	860-1005	285
	160M6	15	975	3,5-6,0	1580-1800	285
	180M6	18,5	975	3,5-7,0	1580-1860	335
	200M6	22	975	3,5-8,0	1580-1840	410
GHIMVENT-M-635N (variant 5)	132S8-250S6	4,0 - 45	600 - 1150	2,2 - 9,5	600 - 2500	230 Without engine

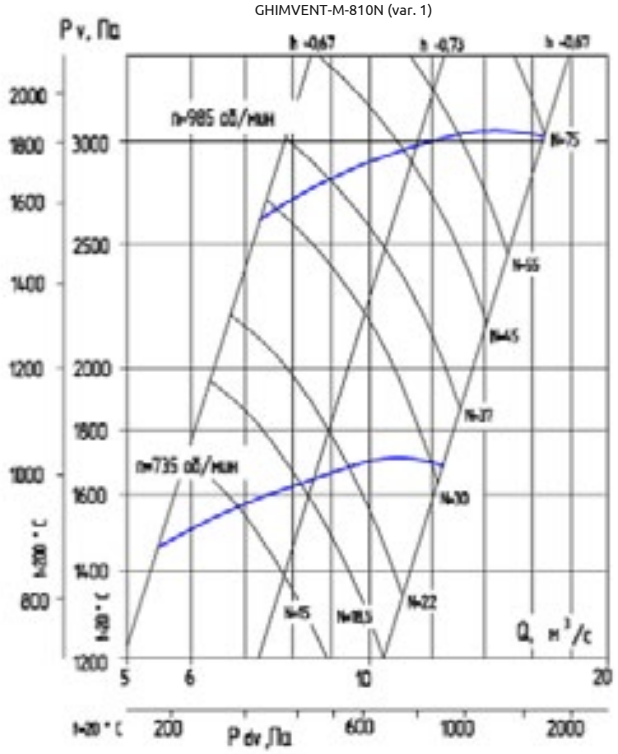
Acoustic characteristics of fan medium pressure GHIMVENT-M-635N

Fan number	Variant of perfor mance	n, rotation/ min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-635N	1	710 720	90	92	95	91	88	81	74	99
	1	975	98	100	103	100	96	91	82	106
	5	600÷1150	87÷100	89÷102	92÷105	88÷102	85÷98	78÷93	71÷84	96÷108

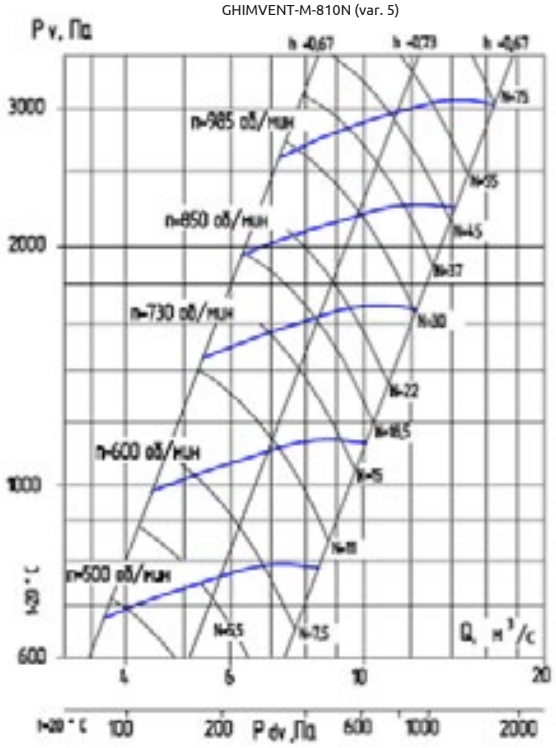
PP AND POLYMER FANS

Aerodynamic Characteristic

GHIMVENT-M-810N (var. 1)



GHIMVENT-M-810N (var. 5)



Technical data GHIMVENT-M-810N

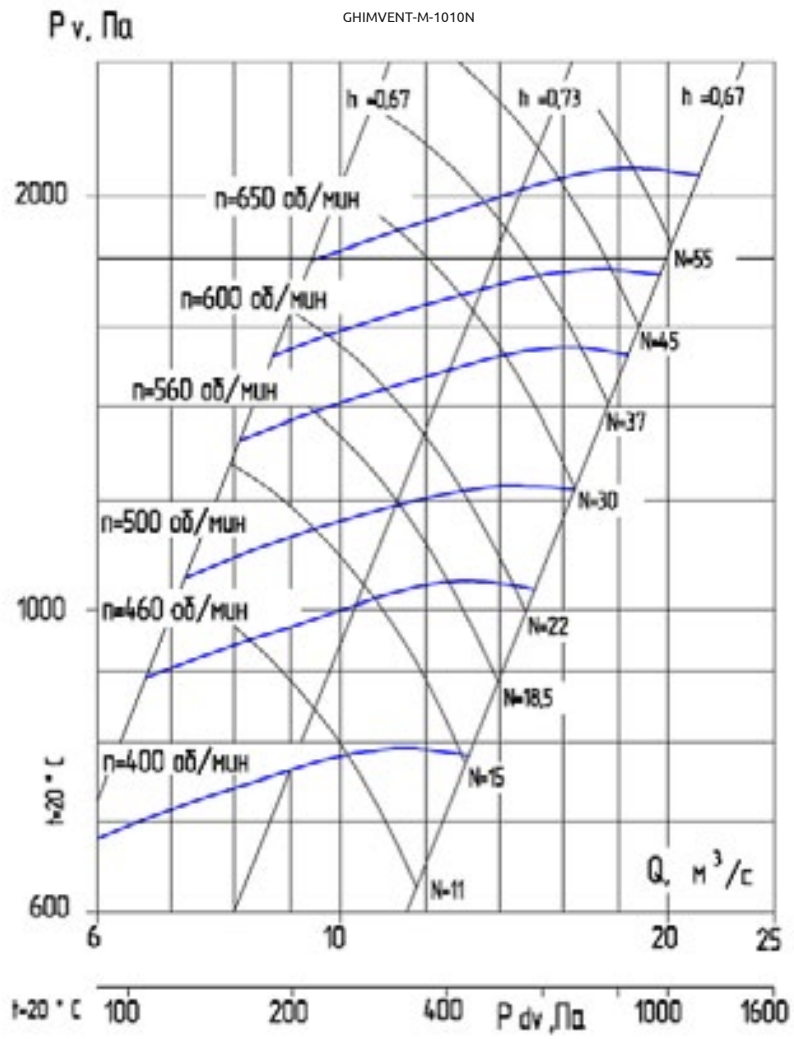
Fan designation	Engine capacity	Installed power,kW	Impeller rotation frequency,r	Airflow, m ³/s	Full pressure,Pa	Weight* kg
GHIMVENT-M-810N (variant 1)	200M8	18,5	730	5,4-8,5	1430-1600	500
	200L8	22	730	5,4-9,5	1430-1640	540
	225M8	30	735	5,4-12,0	1450-1700	585
	250S6	45	985	7,3-11,0	2600-2920	720
	250M6	55	985	7,3-13,0	2660-3000	765
GHIMVENT-M-810N (variant 5)	132M8-280S6	5,5 - 75	500 - 985	3,7 - 16,0	670 - 3000	380 Without engine

Acoustic characteristics of fan medium pressure GHIMVENT-M-810N

Fan number	Variant of perfor mance	n, rotation/ min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-810N	1	730 735	97	101	103	99	95	90	82	107
	1	985	104	108	110	106	102	97	89	114
	5	500÷985	94÷104	98÷108	100÷110	96÷106	92÷102	87÷97	79÷89	104÷114

PP AND POLYMER FANS

Aerodynamic Characteristic



Technical data GHIMVENT-M-1010N

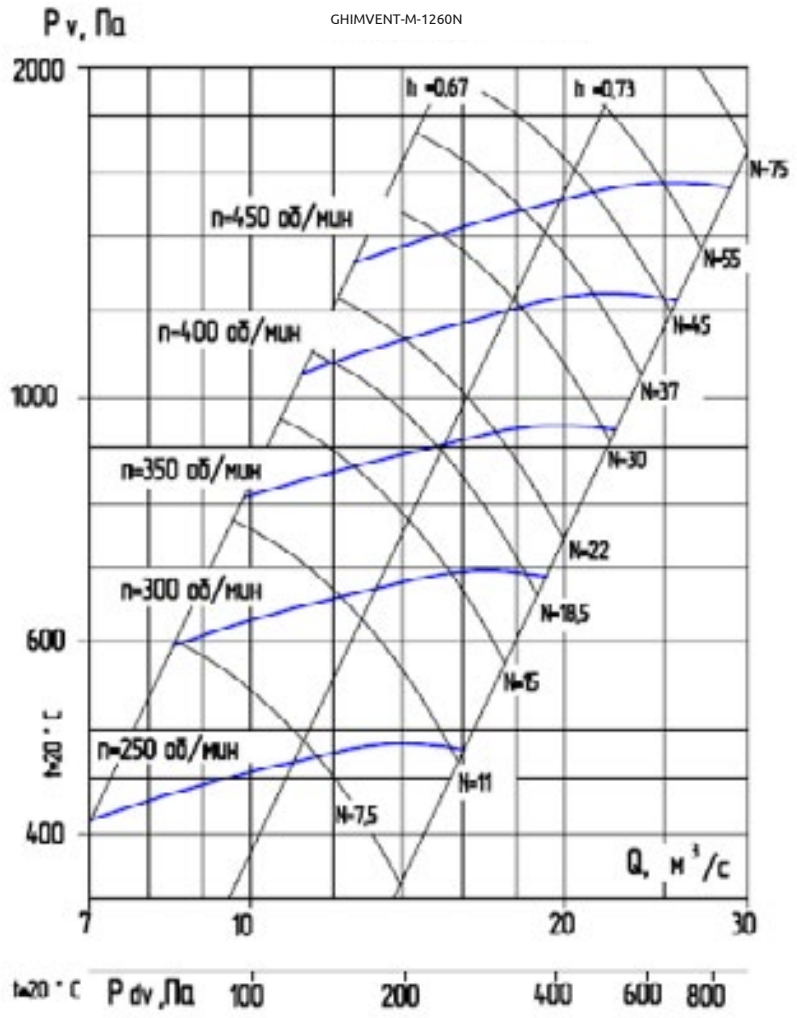
Fan designation	Engine capacity	Installed power,kW	Impeller rotation frequency,r	Airflow, m ^{3}/s	Full pressure,Pa	Weight* kg
GHIMVENT-M-1010N (variant 5)	160M8-280M8	11 - 75	400 - 650	6,0 - 21,0	640 - 2050	600 Without engine

Acoustic characteristics of fan medium pressure GHIMVENT-M-1010N

Fan number	Variant of performance	n, rotation/ min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-1010N	5	400÷650	92÷98	96÷102	98÷104	94÷100	90÷97	85÷92	77÷83	102÷107

PP AND POLYMER FANS

Aerodynamic Characteristic



Technical data GHIMVENT-M-1260N

Fan designation	Engine capacity	Installed power,kW	Impeller rotation frequency,r	Airflow, m ^{3}/s	Full pressure,Pa	Weight* kg
GHIMVENT-M-1260N (variant 5)	160S8-280M8	7,5 - 75	250 - 450	7,0 - 27,0	400 - 1500	750 без эд

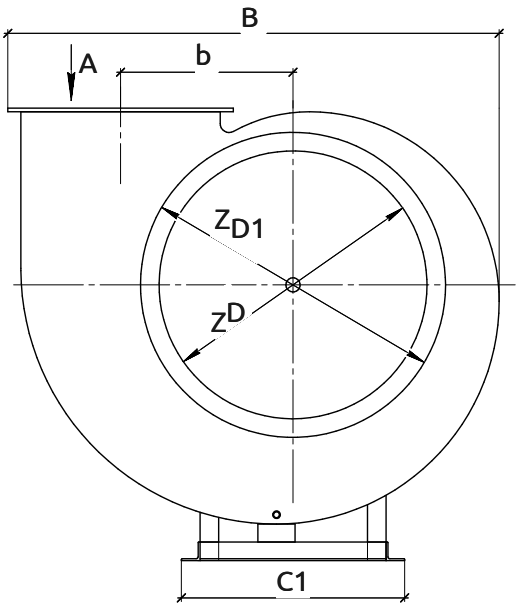
Acoustic characteristics of fan medium pressure GHIMVENT-M-1260N

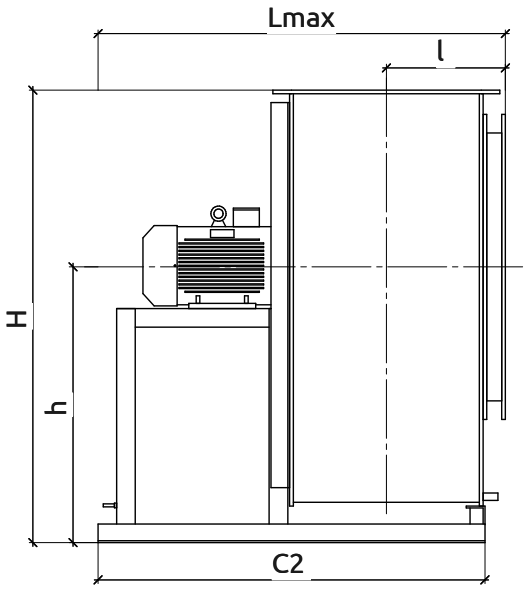
Fan number	Variant of perfor mance	n, rotation/ min	Value Lp1, dB octave bands f, Hz							LpA,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-1260N	5	450	104	108	110	106	102	97	89	114

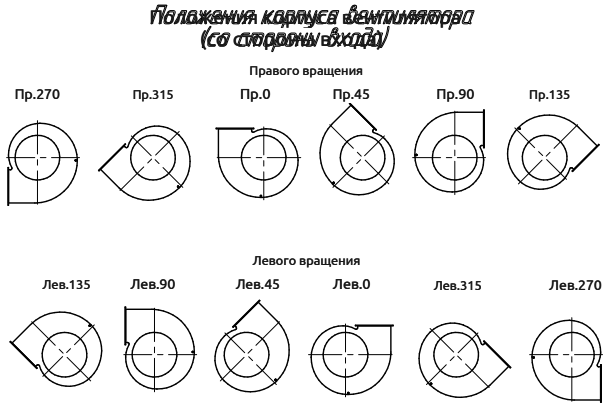
PP AND POLYMER FANS

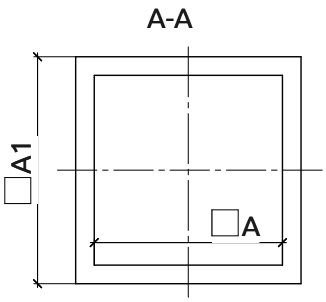
GHIMVENT-M-205N ... M-810 **(variant 1)**

Overall and connecting dimensions







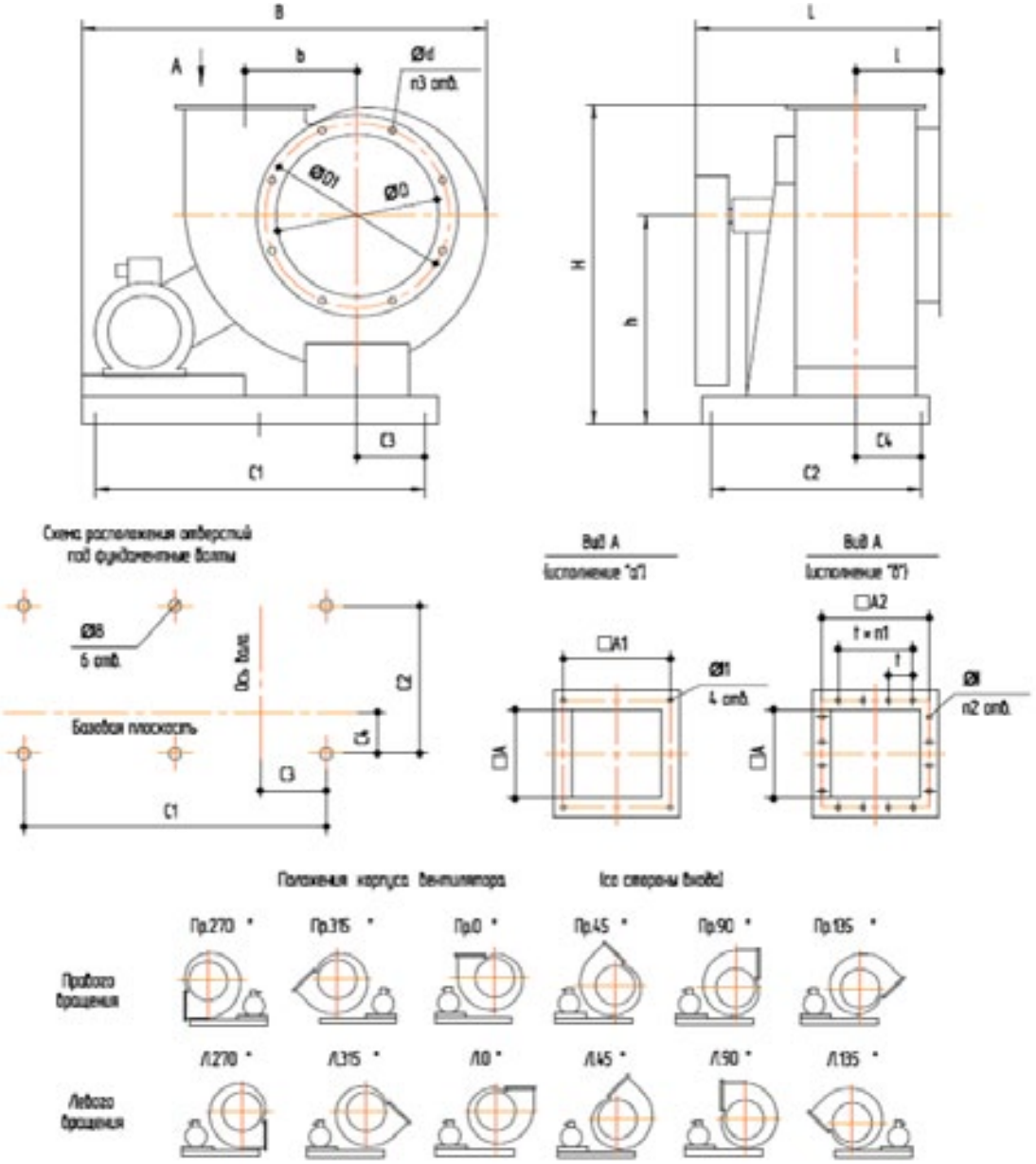


№ вент.	Motor frame	B	H	Lmax	b	h	l	D	D1	A	A1	C1	C2	Flange thickness
205	56B4-80B2	420	455	545	130	289	140	205	305	150	250	280	495	
255	71A4-100L2	510	520	670	163	340	145	255	355	185	285	350	630	10
320	71A6-90L4	630	620	710	205	390	170	320	420	230	330	340	660	10
405	80A4-100S4	775	750	820	260	470	200	405	505	290	390	450	775	
	90L4-132S4			920									875	10
505	112M4-132S4	940	890	1005	325	550	235	505	605	360	460	450	970	
	132M4-160S4			1105								450	1070	10
	160M4-180M2			1205								550	1170	
635	132S8-160S6	1175	1110	1190	410	685	281	635	735	451	551	526	1150	10
	180M6-200M6			1290								626	1250	10
810	200M8-250M6	1495	1410	1545	520	880	340	810	910	570	670	692	1500	

PP AND POLYMER FANS

GHIMVENT-M-635N ... M-1260 **(variant 5)**

Overall and connecting dimensions

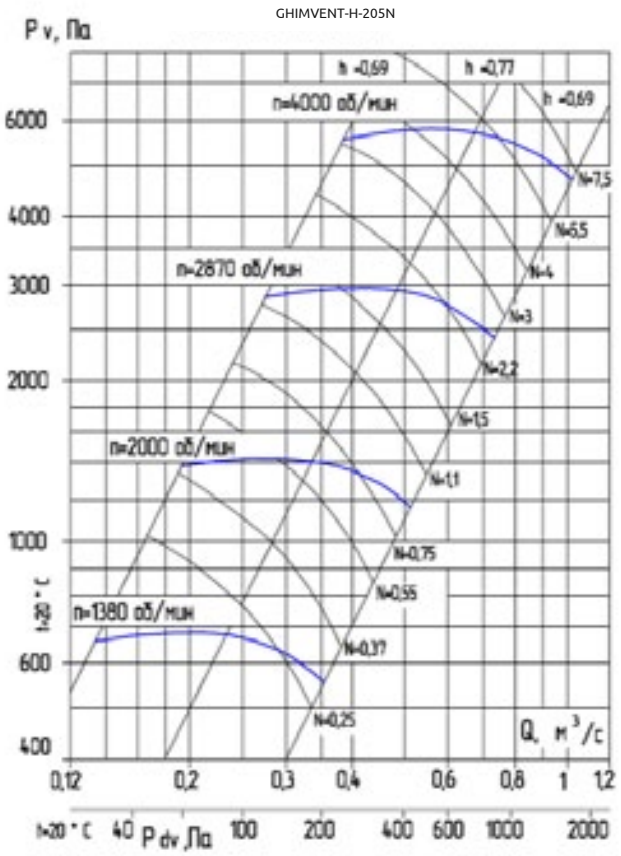


№	Bmax	H	L	b	h	l	D	D1	d	n3	A	A1	A2	t	n1	n2	C1	C2	C3	C4
635 15 кВт	1760	1165	900	410	760	307	635	670	7	16	441	465	470	100	4	20	600x2	785	245	245
635 18.5 кВт	1960	1165	1150	410	760	307	635	670	7	16	441	465	470	100	4	20	700x2	935	245	245
810 55 кВт	2320	1460	1280	520	960	375	810	850	10	16	560	575	600	150	4	16	775x2	1050	245	302
1010 55 кВт	2710	1765	1500	651	1130	445	1010	1050	10	16	700	-	750	150	5	20	900x2	1190	335	373
1260 75 кВт	3180	2190	1650	814	1460	532	1260	1300	10	16	875	-	925	125	6	28	1100x2	1390	545	475

PP AND POLYMER FANS

High pressure Radial fan Gerhman

Aerodynamic Characteristics



Technical data GHIMVENT-H-205N

Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ³/s	Full Pressure,Pa	Installed power,kW
GHIMVENT-H-205N (variant 1)	63B4 90L2	0,37 3	1380 2870	0,14-0,35 0,28-0,71	660-580 2860-2500	40 60
GHIMVENT-H-205N (variant 5)	80A2 - 112M2	1,5-7,5	1500-4000	0,14-1,0	660-4850	65 Without engine

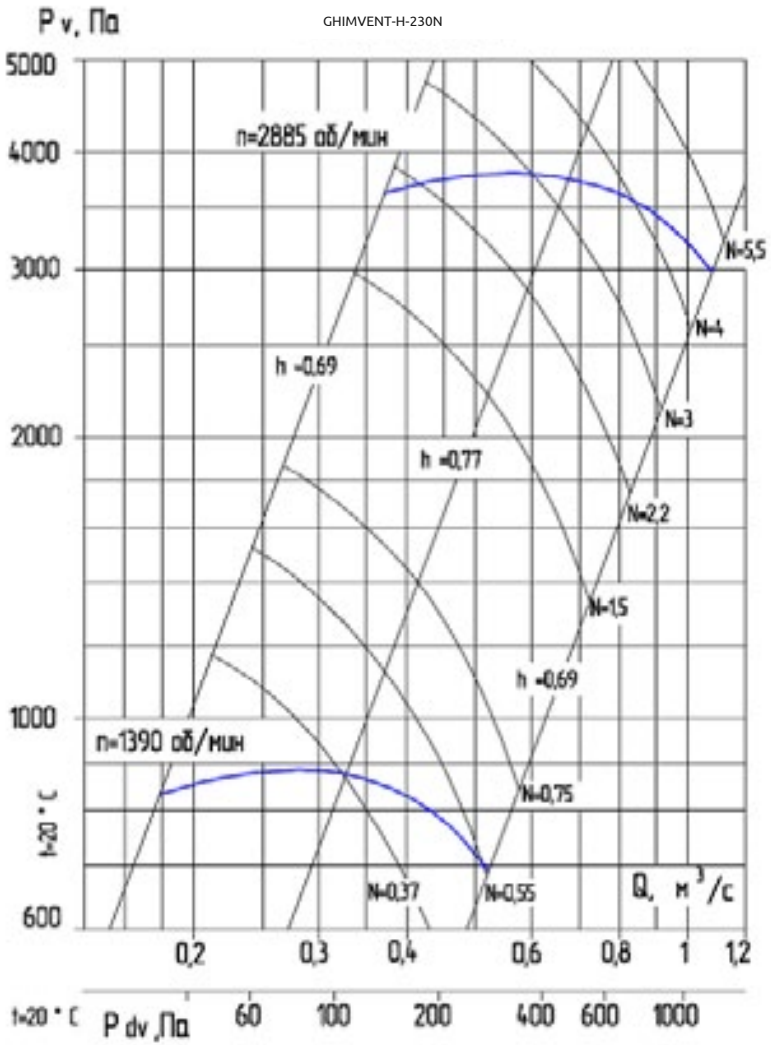
Acoustic characteristics of fan high pressure GHIMVENT-H-205N

Fan Number	Variant of Performance	n, rotations per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-205N	1	1380	83	74	75	76	79	76	74	70	60
	1	2870	99	87	88	90	95	94	93	90	85
	5	1500÷4000	86÷110	74÷98	74÷99	77÷101	83÷105	80÷107	76÷104	72÷101	71÷95

PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-H-230N



Technical data GHIMVENT-H-230N

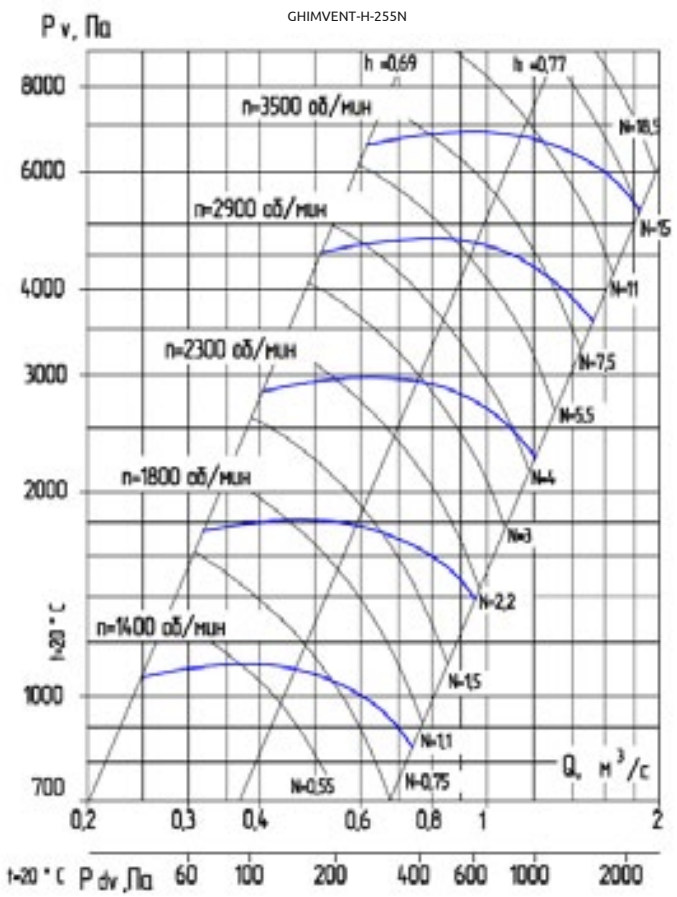
Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ^{3}/s	Full Pressure,Pa	Installed power,kW
GHIMVENT-H-230N (variant 1)	71B4 100L2	0,75 5,5	1390 2885	0,18-0,52 0,37-1,1	840-710 3600-3000	55 80

Acoustic characteristics of fan high pressure GHIMVENT-H-230N

Fan Number	Variant of Performance	n, rotations per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-PBBД-230N H-230	1	1390	87	77	78	79	82	79	77	73	62
	1	2885	100	88	89	91	96	95	94	91	86

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data GHIMVENT-H-255N

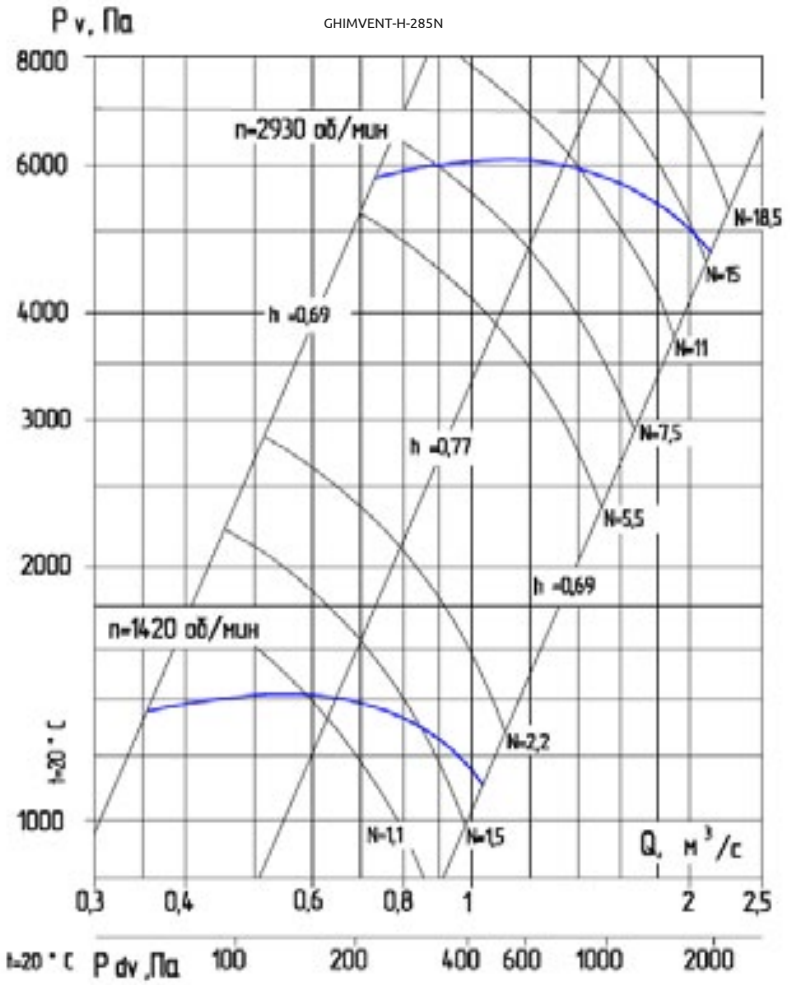
Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ³/s	Full Pressure,Pa	Installed power,kW
GHIMVENT- H-255N (variant 1)	80A4 132M2	1,1 11	1400 2900	0,25-0,74 0,52-1,5	1050-860 4500-3850	70 150
GHIMVENT- H-255N (variant 5)	90L2 - 160M2	3-18,5	1500-3500	0,25-1,82	1050-5360	120 Without engine

Acoustic characteristics of fan high pressure GHIMVENT-H-255N

Fan Number	Variant of Performance	n, rotations per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-255N	1	1400	89	80	81	82	85	82	80	76	64
	1	2900	102	90	91	93	98	98	97	93	88
	5	1500÷3500	89÷106	80÷94	81÷95	82÷97	85÷101	82÷103	80÷100	76÷97	64÷91

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data GHIMVENT-H-285N

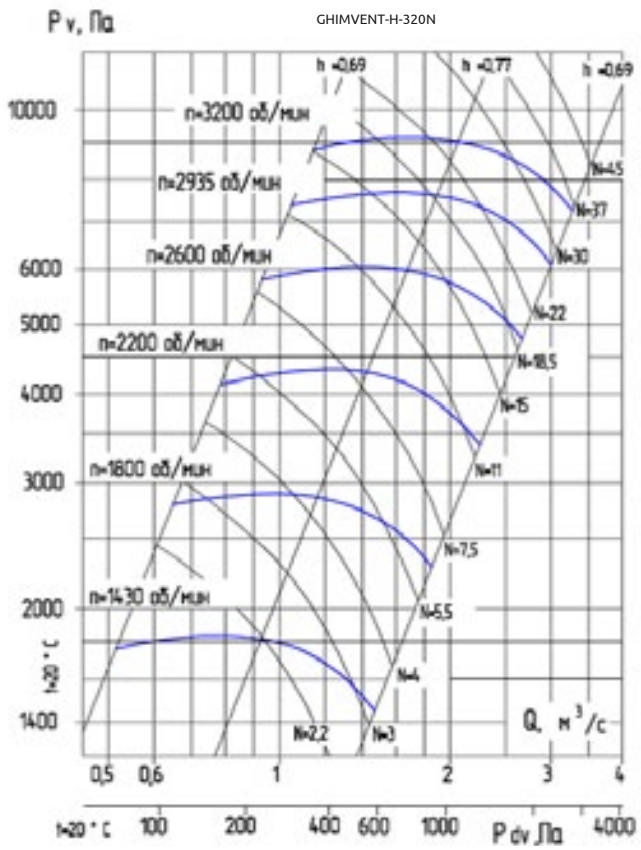
Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ³/s	Full Pressure,Pa	Installed power,kW
GHIMVENT- H-285N (variant 1)	90L4 160S2	2,2 15	1420 2930	0,35-1,03 0,73-2,2	1360-1120 5790-4760	90 205

Acoustic characteristics of fan high pressure GHIMVENT-H-285N

Fan Number	Variant of Performance	n, rotations per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-285N	1	1420	92	81	82	84	88	86	84	81	72
	1	2930	104	92	92	95	99	101	98	95	89

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data GHIMVENT-H-320N

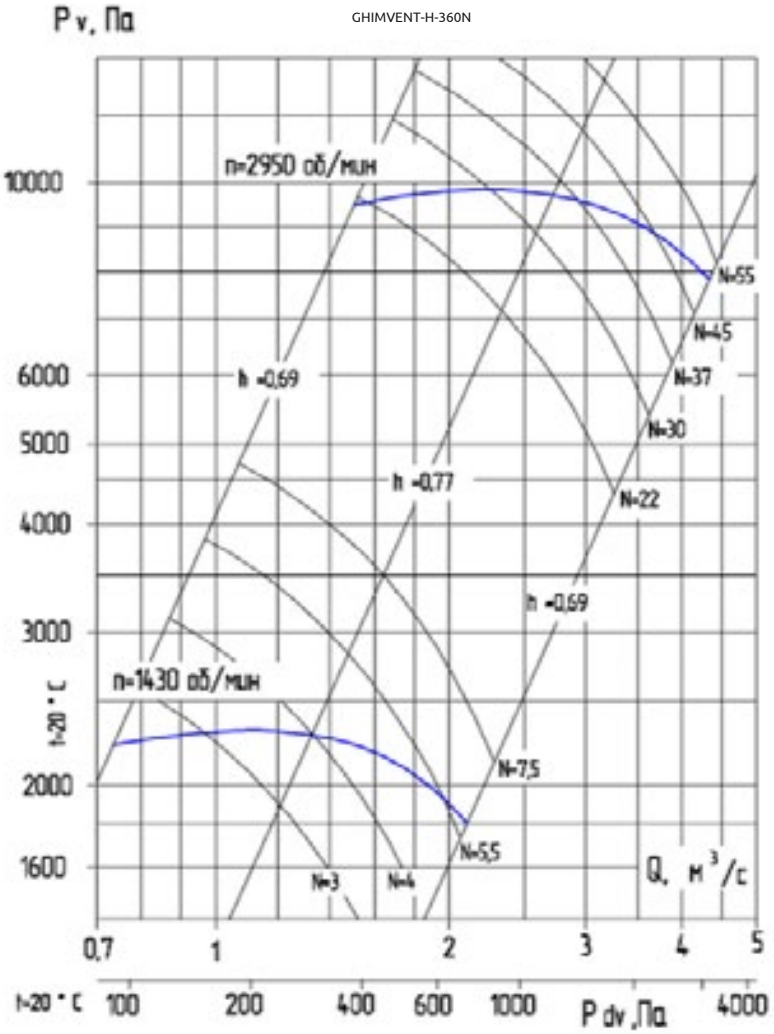
Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ^{3}/s	Full Pressure,Pa	Installed power,kW
GHIMVENT- H-320N (variant 1)	100L4 180M2	4,0 30	1430 2935	0,5-1,5 1,1-3,0	1750-1450 7350-6050	120 310
GHIMVENT- H-320N (variant 5)	100L4 - 200M2	4-37	1500-3200	0,5-3,3	1750-7250	165 Without engine

Acoustic characteristics of fan high pressure GHIMVENT-H-320N

Fan Number	Variant of Performance	n, rotations per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-320N	1	1430	95	83	84	86	92	90	89	86	80
	1	2935	110	98	99	101	107	105	104	101	95
	5	1500÷3200	112	100	101	103	109	107	106	103	97

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data GHIMVENT-H-360N

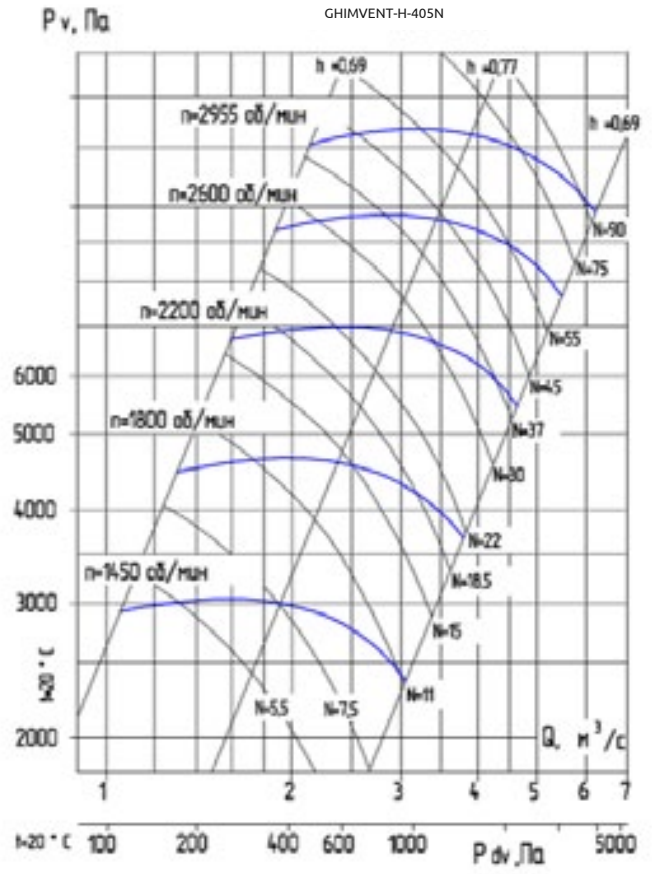
Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ³/s	Full Pressure,Pa	Installed power,kW
GHIMVENT- H-360N	132S4 - 225M2	7,5 55	1430 2950	0,7-2,2 1,5-4,4	2250-1950 9450-7800	210 515

Acoustic characteristics of fan high pressure GHIMVENT-H-360N

Fan Number	Variant of Perfor mance	n, rotati onper min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-360N	1	1430	99	86	87	90	95	93	92	90	84
	1	2950	114	101	102	106	111	109	108	105	99

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data GHIMVENT-H-405N

Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ³/s	Full Pressure,Pa	Installed power,kW
GHIMVENT- H-405N (variant 1)	132M4 250M2	11 90	1450 2955	1,1-3,1 2,2-6,0	2900-2350 12050-10000	1255 700
GHIMVENT- H-405N (variant 5)	132S4 - 250M2	7,5-90	1500-3200	1,0-6,0	2900-10000	350 Without engine

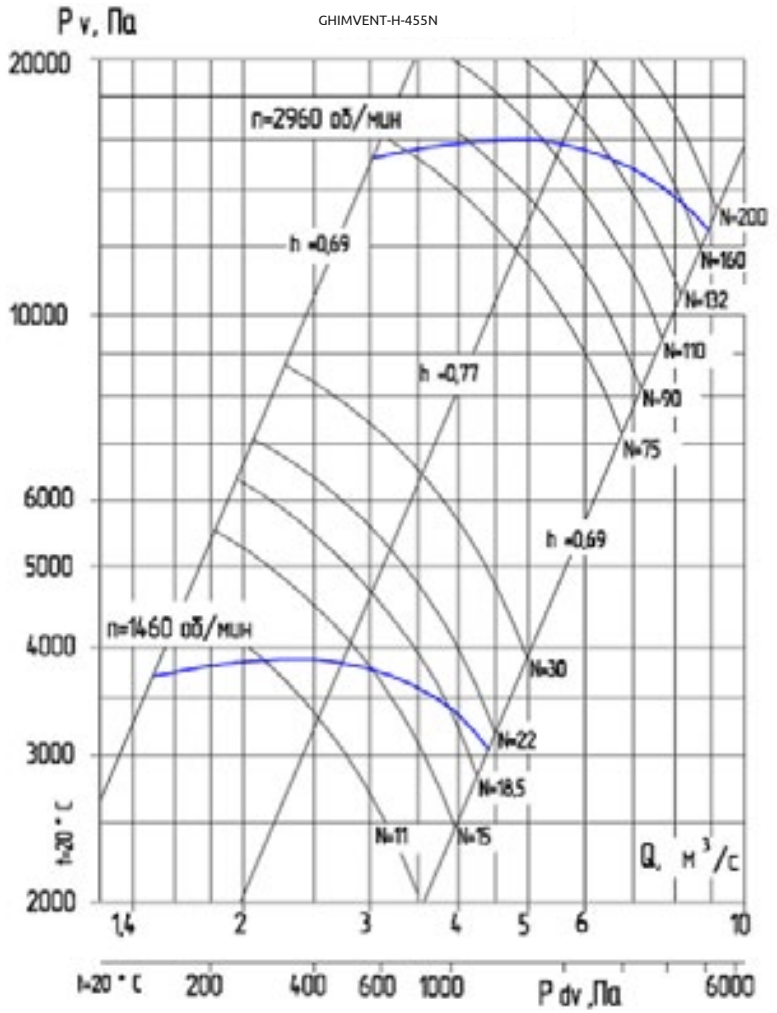
Acoustic characteristics of fan high pressure GHIMVENT-H-405N

Fan Number	Variant of Performance	n, rotations per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-405N	1	1450	103	89	90	95	99	97	96	94	88
	1	2955	119	105	106	111	115	113	112	110	104
	5	1500÷3200	104÷119	90÷105	91÷106	96÷111	100÷115	98÷113	97÷112	95÷110	89÷104

PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-H-455N



Technical data GHIMVENT-H-455N

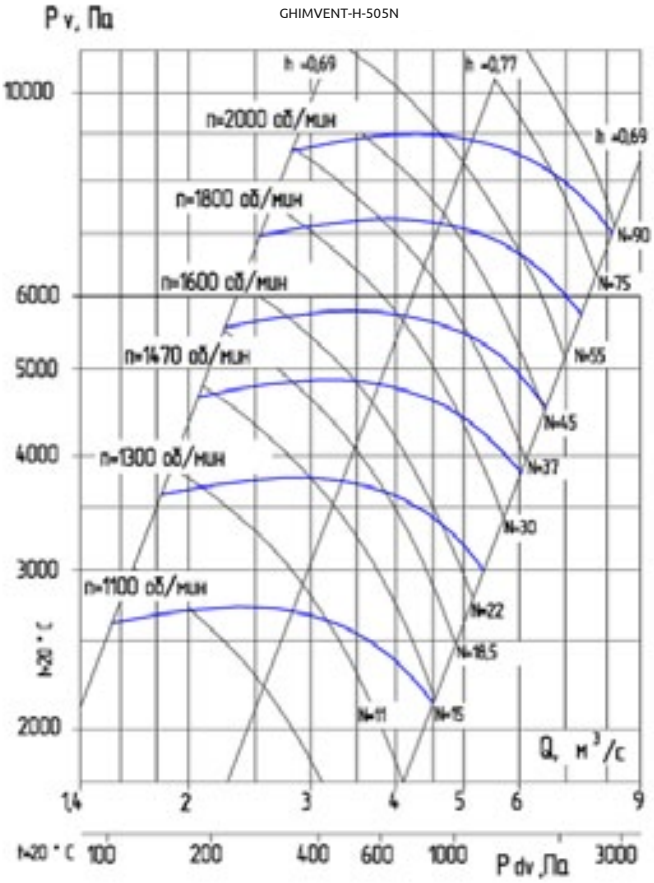
Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ³/s	Full Pressure,Pa	Installed power,kW
GHIMVENT- H-455N (variant 1)	180S4 280M2	22 132	1460 2960	1,5-4,4 3,0-6,5	3700-3100 15300-15200	390 1190

Acoustic characteristics of fan high pressure GHIMVENT-H-455N

Fan Number	Variant of Performance	n, rotations per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-455N	1	1460	105	92	93	96	102	100	99	96	90
	1	2960	123	109	110	115	119	117	116	114	108

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data GHIMVENT-H-505N

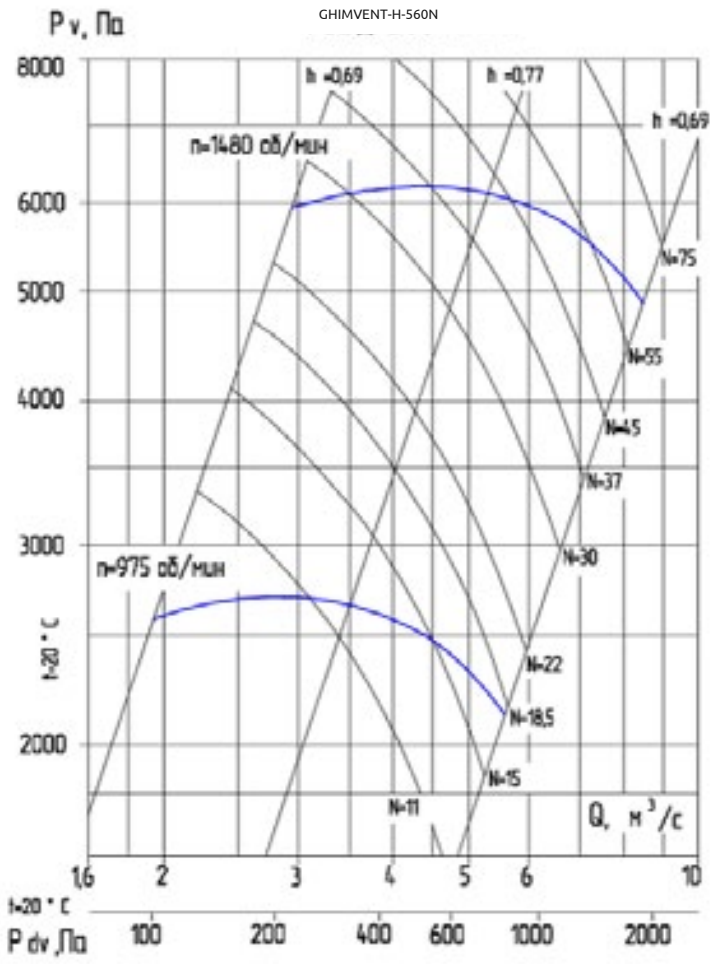
Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ^{3}/s	Full Pressure,Pa	Installed power,kW
GHIMVENT- H-505N (variant 1)	200M4	37	1470	2,1-6,0	4650-3850	545
GHIMVENT- H-505N (variant 5)	160S4 - 250M4	15 - 90	1100 - 2000	1,6-8,2	2600-7000	480 Without engine

Acoustic characteristics of fan high pressure GHIMVENT-H-505N

Fan Number	Variant of Performance	n, rotation per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-505N	1	1470	108	95	96	97	104	103	102	99	93
	5	1100÷2000	103÷115	89÷103	92÷104	101÷106	103÷112	100÷110	99÷109	97÷106	91÷100

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data GHIMVENT-H-560N

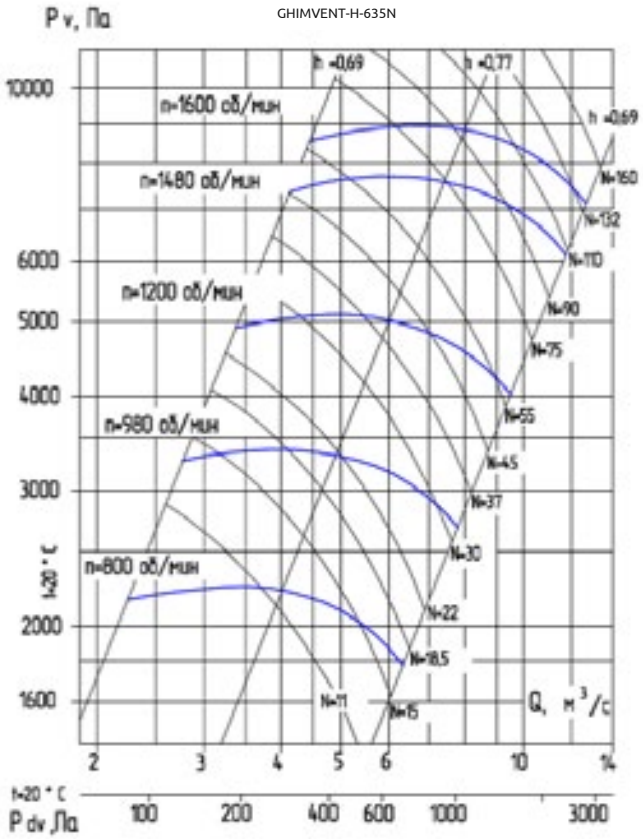
Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ³/s	Full Pressure,Pa	Installed power,kW
GHIMVENT- H-560N (variant 1)	180M6 250S4	18,5 75	975 1480	1,9-5,5 2,9-8,4	2550-2150 5900-5000	580 890

Acoustic characteristics of fan high pressure GHIMVENT-H-560N

Fan Number	Variant of Performance	n, rotations per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-560N	1	975	104	91	92	95	101	99	98	95	89
	1	1480	109	97	98	100	105	106	103	100	94

PP AND POLYMER FANS

Aerodynamic Characteristics



Technical data GHIMVENT-H-635N

Fan designation	Engine capacity	Motor power, kW	Impeller rotation frequency,r/m	Airflow,m ³/s	Full Pressure,Pa	Installed power,kW
GHIMVENT-H-635N (variant 1)	200L6 250M4	30 90	980 1480	2,7-7,8 4,2-11,6	3250-2700 7350-6200	785 1015
GHIMVENT-H-635N (variant 5)	160S4 - 280M4	15-55 75-90 110-132	800 – 1600	2,3-12,5	2150-7250	690 750 940 Without engine

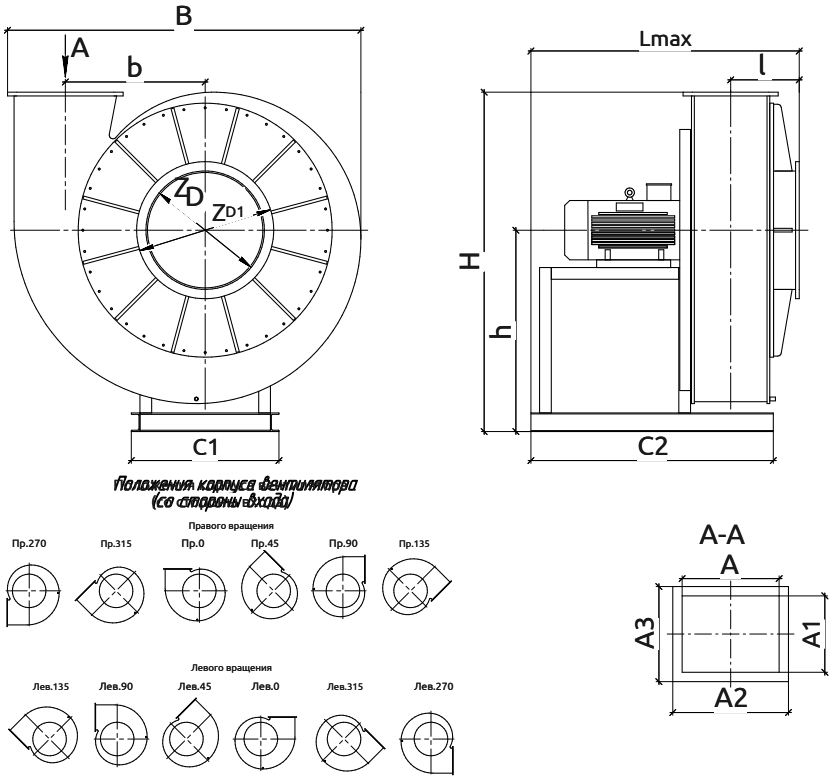
Acoustic characteristics of fan high pressure GHIMVENT-H-635N

Fan Number	Variant of Performance	n, rotations per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
GHIMVENT-H-635N	1	970	105	92	93	96	102	100	99	97	91
	1	1480	110	99	100	102	108	107	104	101	95
	5	800÷1600	103÷113	89÷101	90÷102	95÷104	99÷110	97÷108	96÷107	94÷104	88÷98

PP AND POLYMER FANS

GHIMVENT-H-205N ... H-635 **(variant 1)**

Overall and connecting dimensions

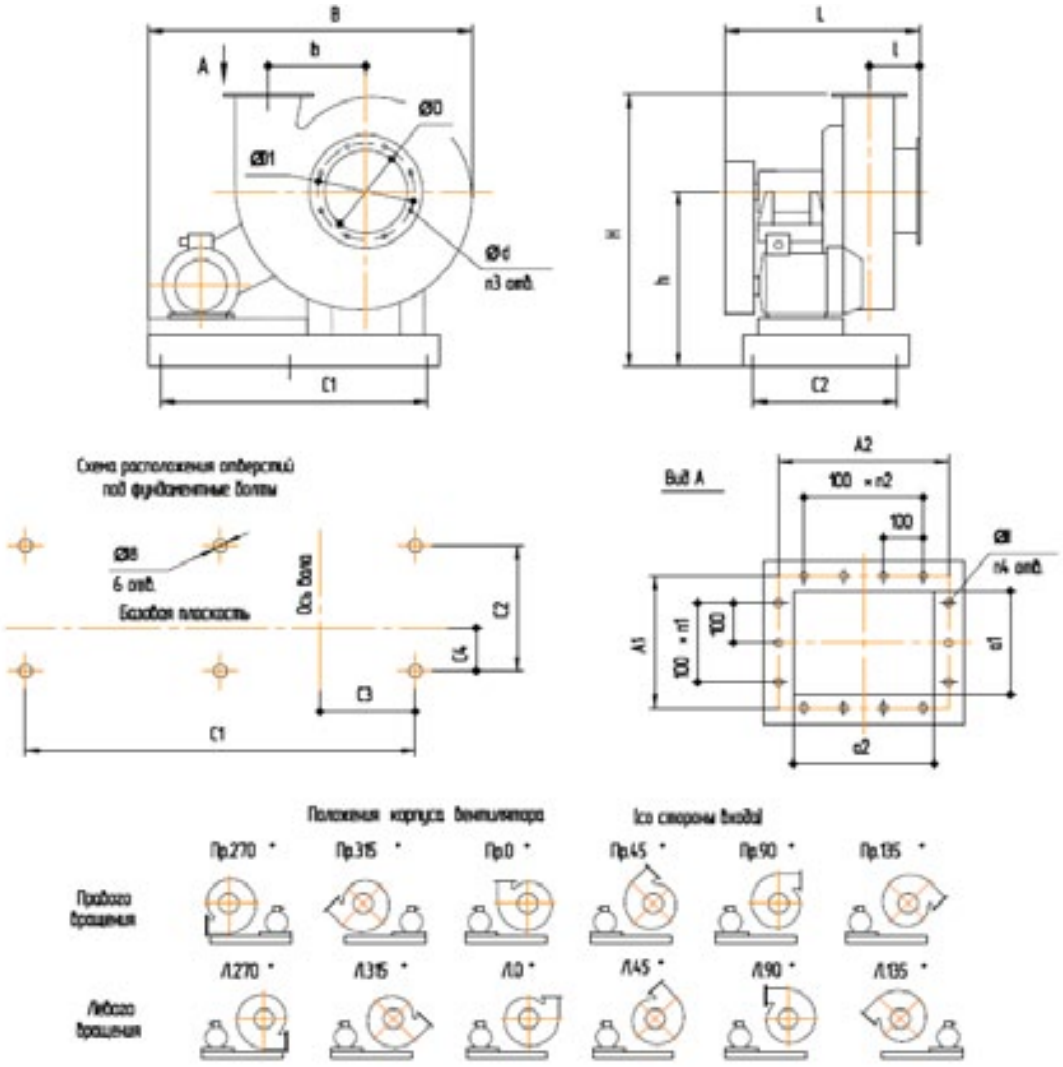


№	Motor frame	B	H	Lmax	b	h	l	D	D1	A	A1	A2	A3	C1	C2
205	63B4-90L2	655	670	630	240	410	140	205	305	180	140	280	240	380	580
230	71B4-100L2	730	725	680	270	445	162	230	330	185	150	285	250	440	600
255	80A4-100L2	800	780	655	300	481	155	255	355	220	170	320	270	400	600
	112M4-132M4			755											700
285	90L4-112M4	885	865	745	336	525	180	285	385	230	195	330	295	480	670
	132M4-160S2			945											870
320	100L4-160S4	990	975	950	380	585	180	320	420	270	210	370	310	540	900
	160M4-180M2			1100											1050
360	132S4-180S4	1110	1115	1110	426	685	240	360	460	300	235	400	335	600	995
	180M4-225M4			1260											1145
405	132M4-180S4	1235	1230	1050	480	750	220	405	505	340	270	440	370	600	980
	180M4-250M2			1250											1180
455	180S4-225M5	1385	1370	1240	541	825	310	455	555	375	300	475	400	650	1120
	250S4-280M2			1590											1470
	315S2			1790										700	1670
505	200M4	1525	1490	1240	600	895	340	505	605	410	330	510	430	600	1110
560	180M6	1700	1655	1300	675	985	375	560	660	455	365	555	465	700	1170
	250S4			1520											1390
635	200L6-250M4	1895	1820	1590	750	1080	430	635	735	520	410	620	510	800	1450

PP AND POLYMER FANS

GHIMVENT-H-205N ... H-635 **(variant 5)**

Overall and connecting dimensions

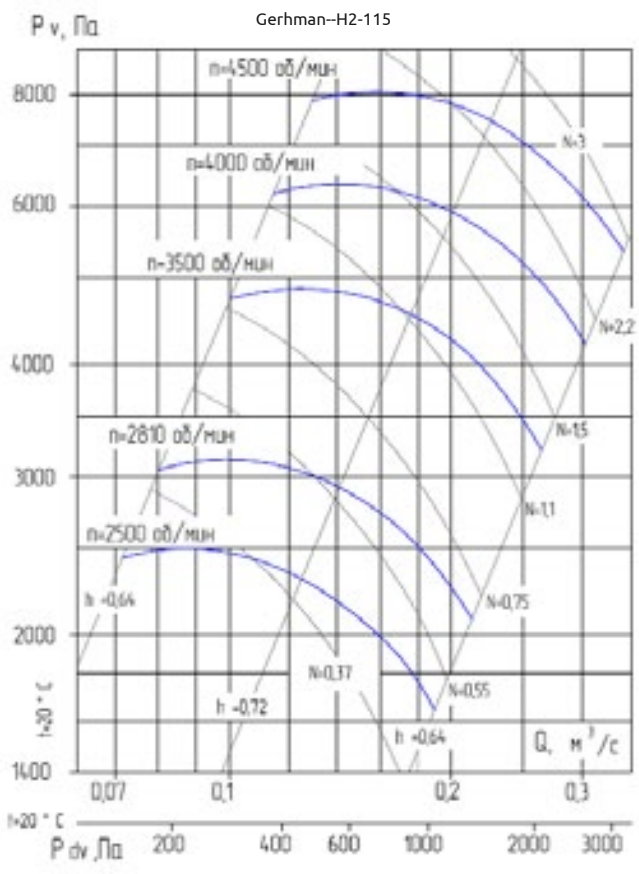


№	kW power	Bmax	H	L	b	h	l	D	D1	d	n3	a1	A1	n1	a2	A2	n2	n4	C1	C2	C3	C4
205	7,5	990	645	530	240	400	140	205	240	7	8	130	170	1отв.	170	210	2	8	360x2	415	140	60
255	18,5	1215	840	640	300	540	155	255	290	7	8	160	200	1	210	250	2	10	450x2	470	176	103
320	37	1475	1015	690	379	640	175	320	355	7	8	200	240	1	260	300	3	12	550x2	470	216	124
405	55	1890	1245	940	480	770	220	405	440	10	8	250	300	2	330	380	3	14	725x2	725	306	153
	75-90	1990																	775x2			
505	55	2170	1525	1080	600	935	310	505	540	10	16	310	360	2	405	455	4	16	800x2	790	336	182
	75-90	2270																	850x2			
635	55	2500	1860	1260	750	1130	368	635	670	10	16	390	440	3	510	560	5	20	920x2	935	451	219
	75-90	2650																	1000x2			
	110-132	2830	1960	1520		1230													1070x2	1170		234

PP AND POLYMER FANS

Radial type fan high pressure –H2

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-115N

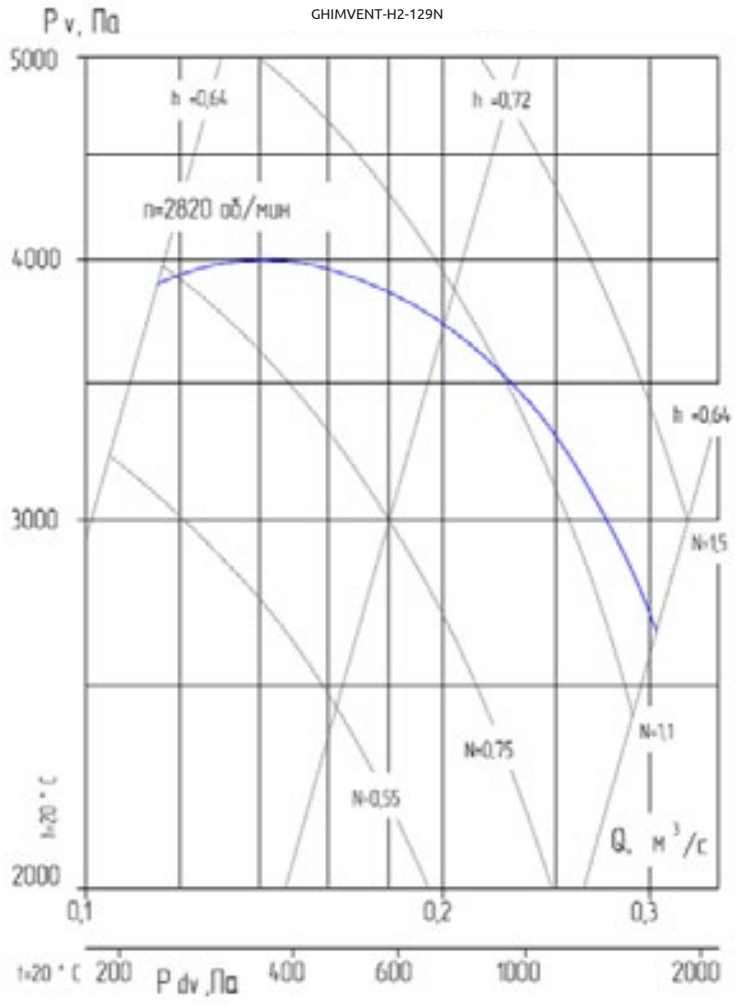
Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-115N (variant 1)	71A2	0,75	2810	0,08-0,21	3000-2080	45
GHIMVENT- H2-115N (variant 5)	63B2-90L2	0,55-3	2500-4500	0,07-0,33	2400-5300	55 Without engine

Acoustic characteristics of fan high pressure GHIMVENT-H2-115N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dБA
115	1	2810	79	86	85	86	85	84	82	78	93
	5	2500÷4500	77÷96	84÷107	83÷109	84÷113	83÷115	82÷112	80÷109	76÷103	91÷118

PP AND POLYMER FANS

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-129N

Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-129N (variant 1)	80A2	1,5	2820	0,11-0,30	3800-2600	55

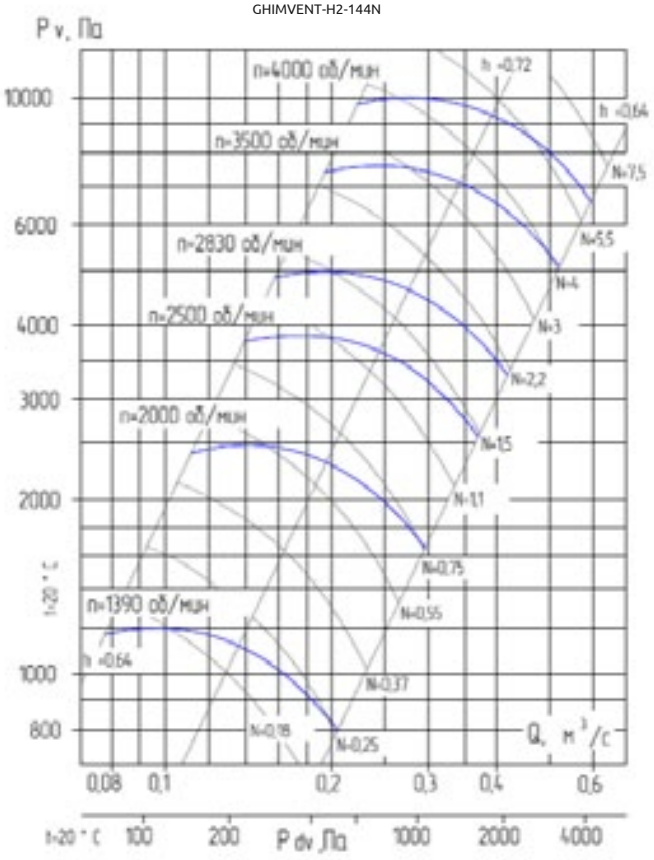
Acoustic characteristics of fan high pressure GHIMVENT-H2-129N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dBA
129	1	2820	81	88	87	88	87	86	84	80	95

PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-H2-144N



Basic technical Characteristics GHIMVENT-H2-144N

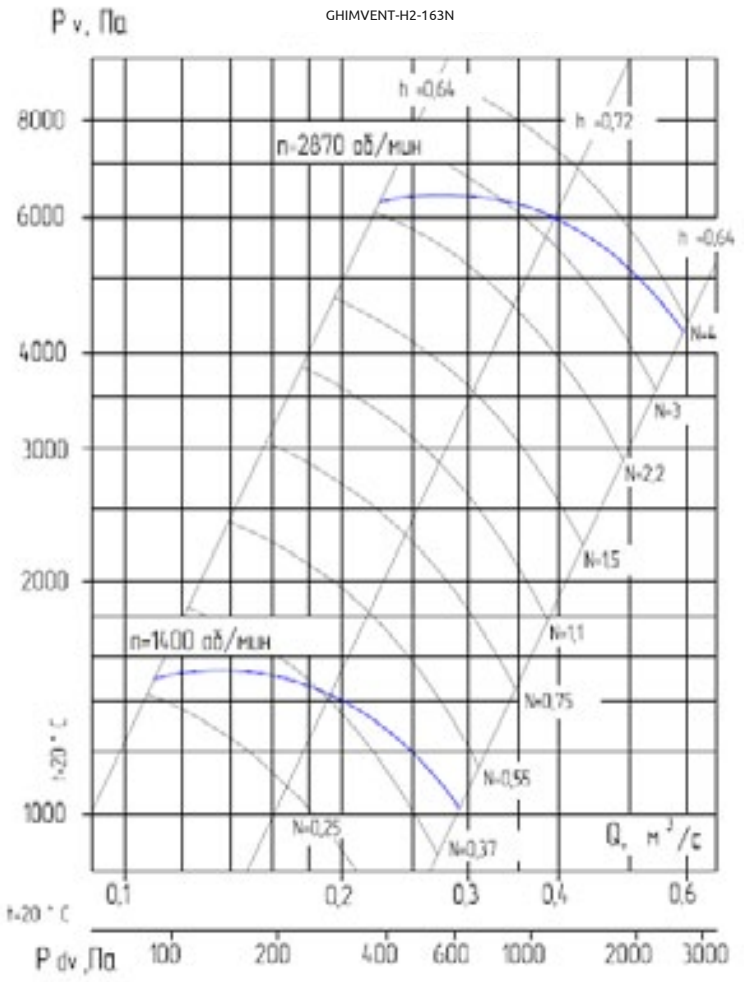
Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-144N (variant1)	63A4 80B2	0,25 2,2	1390 2830	0,08-0,20 0,16-0,40	1150-800 4500-33000	50 65
GHIMVENT- H2-144N (variant 5)	63A4-112M2	0,25-7,5	1500-4000	0,08-0,60	1150-6500	95 Without engine

Acoustic characteristics of fan high pressure GHIMVENT-H2-144N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dБA
144	1	1390	68	75	74	75	74	73	71	67	82
	1	2830	85	92	91	92	91	90	88	84	99
	5	1500÷4000	68÷97	75÷108	74÷110	75÷114	74÷116	73÷113	71÷110	67÷104	82÷119

PP AND POLYMER FANS

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-163N

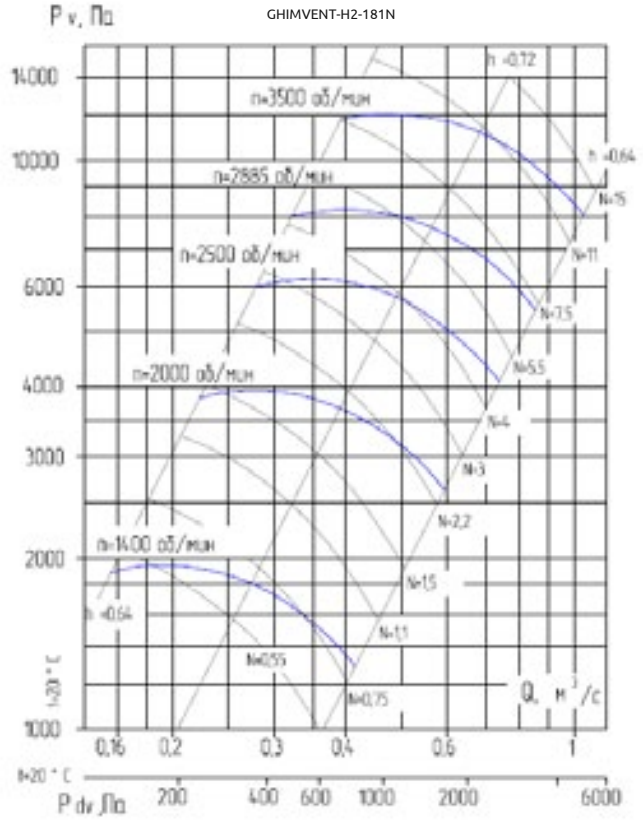
Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-163N (variant 1)	80A4 100S2	1,1 4	1400 2870	0,11-0,30 0,22-0,60	1500-1000 6200-4200	75 90

Acoustic characteristics of fan high pressure GHIMVENT-H2-163N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dBA
163	1	1400	73	80	79	80	79	78	76	72	87
	1	2870	90	97	96	97	96	95	93	89	104

PP AND POLYMER FANS

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-181N

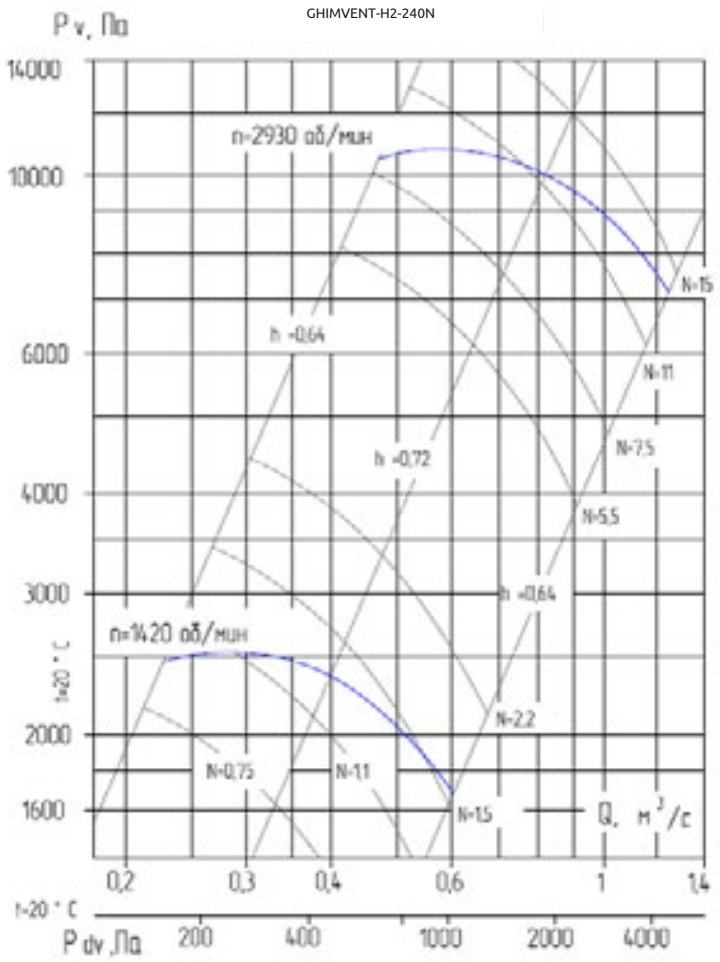
Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-181N (variant 1)	80A4 112M2	1,1 7,5	1400 2885	0,15-0,40 0,32-0,85	1900-1270 7900-5400	95 130
GHIMVENT- H2-181N (variant 5)	80A4-160S2	1,1-15	1500-3500	0,15-1,0	1900-8000	150 Without engine

Acoustic characteristics of fan high pressure GHIMVENT-H2-181N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dБA
181	1	1400	78	85	84	85	84	83	81	77	92
	1	2885	95	102	101	102	101	100	98	94	109
	5	1500÷3500	79÷100	86÷107	85÷106	86÷107	85÷106	84÷105	82÷103	78÷99	93÷114

PP AND POLYMER FANS

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-240N

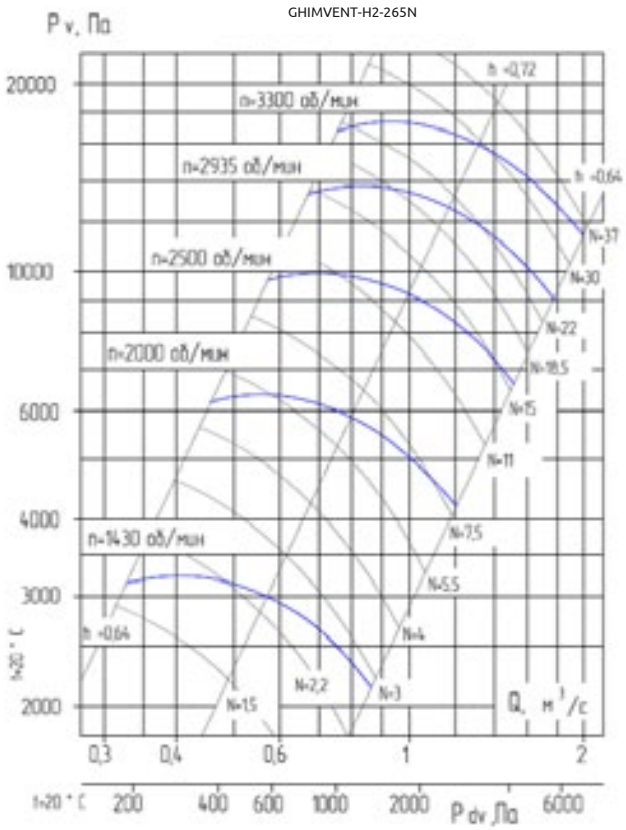
Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-240N (variant 1)	90L4	2,2	1420	0,23-0,60	2500-1660	140
	160S2	15	2930	0,47-1,20	10400-7100	245

Acoustic characteristics of fan high pressure GHIMVENT-H2-240N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dБA
240	1	1420	80	87	86	87	86	85	83	79	94
	1	2930	97	104	103	104	103	102	100	96	111

PP AND POLYMER FANS

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-265N

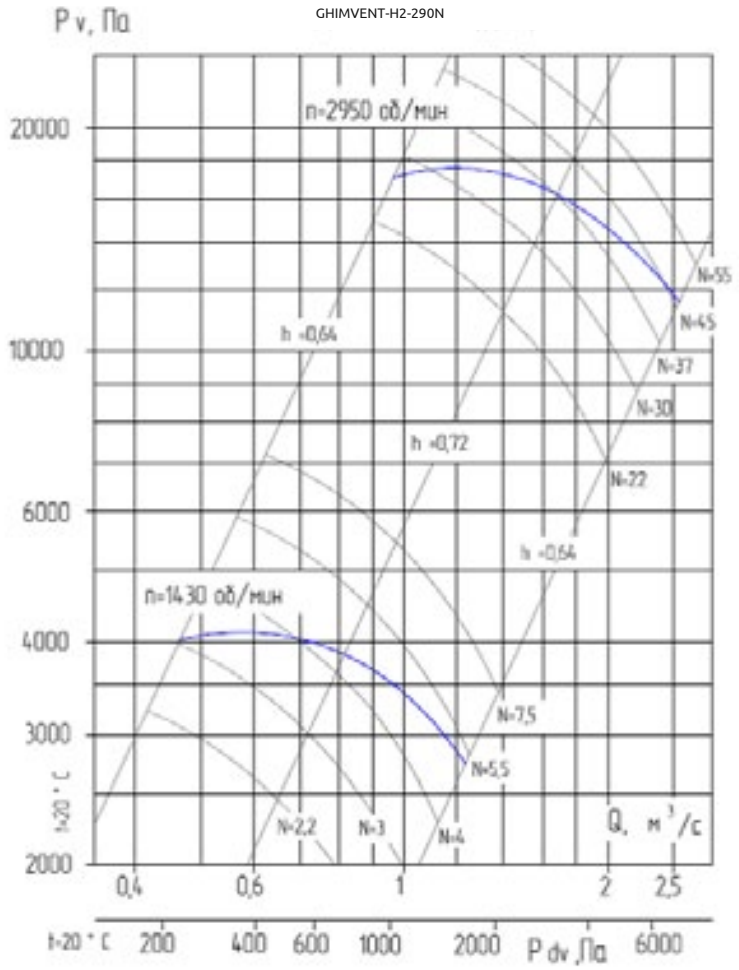
Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-265N (variant 1)	100S4 180M2	3,0 30	1430 2935	0,33-0,85 0,68-1,80	3100-2150 13000-9080	170 330
GHIMVENT- H2-265N (variant 5)	100S4-200M2	3-37	1500-3300	0,33-2,0	3100-11500	290 Without engine

Acoustic characteristics of fan high pressure GHIMVENT-H2-265N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dБA
265	1	1430	82	89	88	89	88	87	85	81	96
	1	2935	99	106	105	106	105	104	102	98	113
	5	1500÷3300	83÷102	90÷109	89÷108	90÷109	89÷108	88÷107	86÷105	82÷101	97÷116

PP AND POLYMER FANS

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-290N

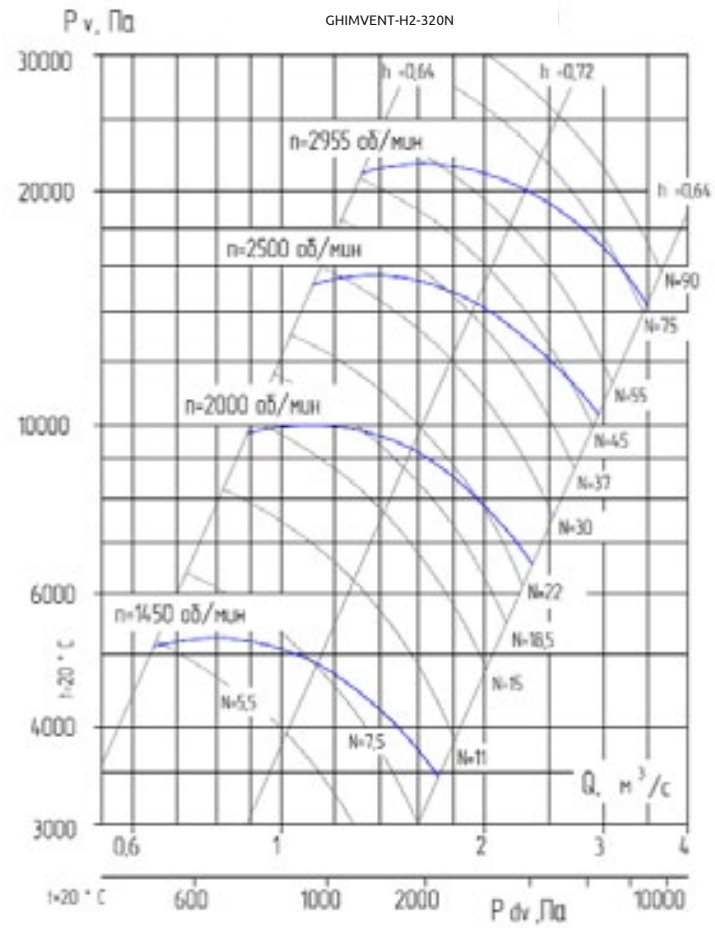
Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-290N (variant 1)	100S4 200L2	5,5 45	1430 2950	0,47-1,23 0,94-2,50	4000-2700 17000-11600	215 485

Acoustic characteristics of fan high pressure GHIMVENT-H2-290N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dBA
290	1	1430	84	91	90	91	90	89	87	83	98
	1	2950	100	107	106	107	106	105	103	99	114

PP AND POLYMER FANS

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-320N

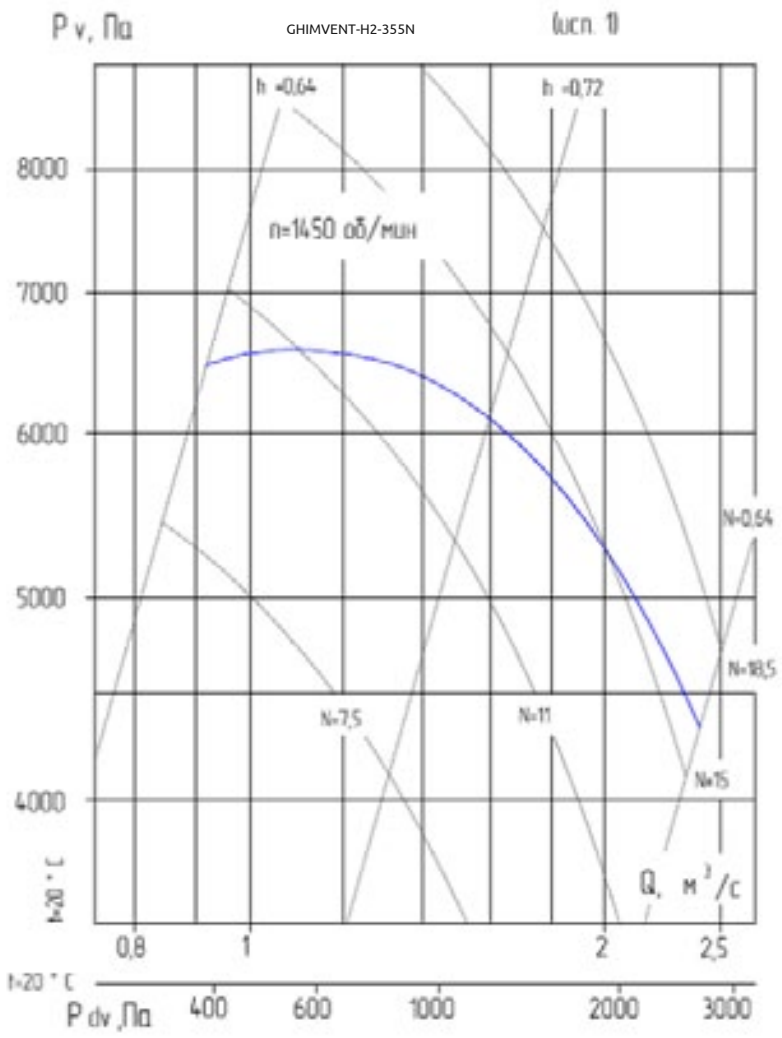
Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-320N (variant 1)	132M4 250M2	11 90	1450 2955	0,65-1,7 1,3-3,5	5000-3460 20000-14300	335 770
GHIMVENT- H2-320N (variant 5)	132S4-250M2	7,5-90	1500-3000	0,65-3,5	5000-14300	400 Without engine

Acoustic characteristics of fan high pressure GHIMVENT-H2-320N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dБA
320	1	1450	87	94	93	94	93	92	90	86	101
	5	1500÷3000	88÷102	95÷109	94÷108	95÷109	94÷108	93÷107	91÷105	87÷101	102÷116

PP AND POLYMER FANS

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-355N

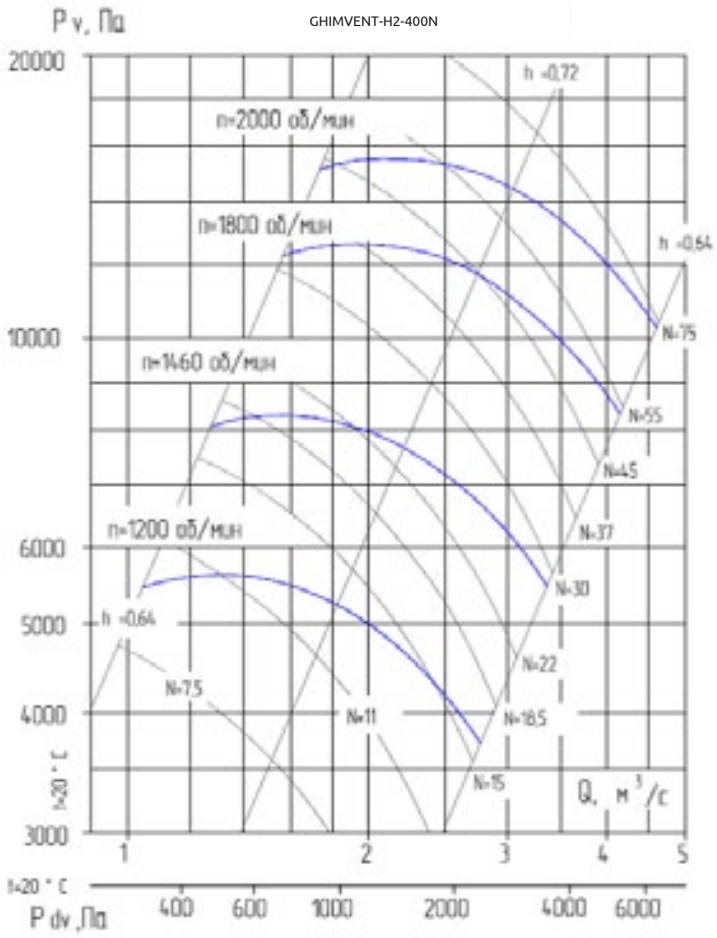
Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-355N (variant 1)	160M4	18,5	1450	0,9-2,4	6300-4300	445

Acoustic characteristics of fan high pressure GHIMVENT-H2-355N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dБA
355	1	1450	90	97	96	97	96	95	93	89	104

PP AND POLYMER FANS

Aerodynamic Characteristics



Basic technical Characteristics GHIMVENT-H2-400N

Fan designation	Engine capacity	Installed power, kW	Impeller rotation per min	Airflow, m ^{3}/s	Total pressure, Pa	Wight*, kg
GHIMVENT- H2-400N (variant 1)	180M4	30	1450	1,3-3,4	8000-5500	575
GHIMVENT- H2-400N (variant 5)	160S4-250M4	15-90	1500-2000	1,0-4,6	5400-10300	600 Without engine

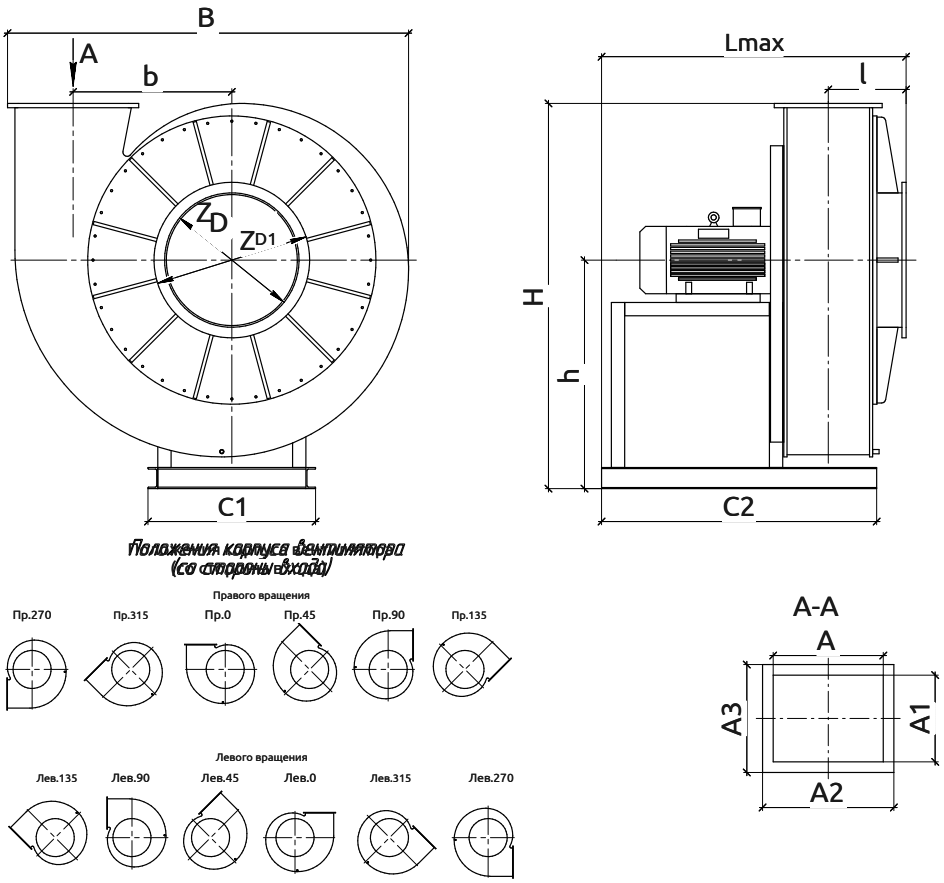
Acoustic characteristics of fan high pressure GHIMVENT-H2- 400N

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								LpA
			63	125	250	500	1000	2000	4000	8000	dБA
400	1	1450	94	101	100	101	100	99	97	93	108
	5	1500÷2000	94÷103	101÷110	100÷109	101÷110	100÷109	99÷108	97÷106	93÷102	108÷117

PP AND POLYMER FANS

GHIMVENT-H2-115N ... 400 (variant 1)

Overall and connection sizes

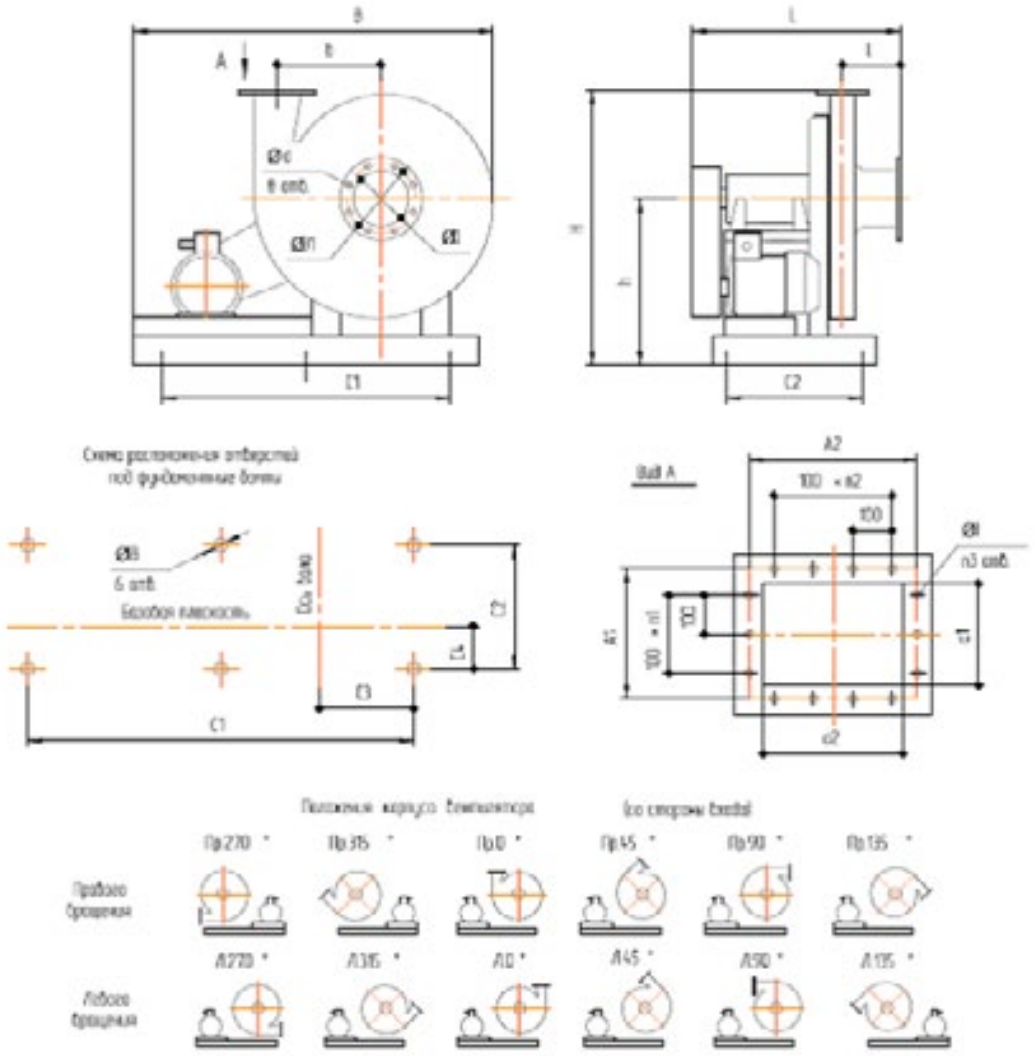


№	Motor frame	B	H	Lmax	b	h	l	D	D1	A	A1	A2	A3	C1	C2
115	63B-80B	570	610	490	216	360	127	115	215	115	45	215	145	300	420
129	71B-80B	630	660	530	243	395	133	129	229	125	52	225	152	350	460
144	63A-100S	695	720	600	270	430	151	144	244	140	60	240	160	400	500
163	80A-100L	785	800	570	302	475	165	163	263	150	65	250	165	400	500
181	90L-132M	850	875	620	340	485	175	181	281	160	75	260	175	450	550
240	90L-112M	965	995	620	384	590	200	240	340	186	84	286	184	550	550
	132M-160M			770											700
265	100L-160S	1075	1095	770	432	640	208	265	365	208	95	308	195	500	700
	160M-200L			970										650	900
290	112M-132M	1220	1240	770	487	730	234	290	390	230	110	330	210	500	700
	200M-225M			1120										700	1050
320	132S-160S	1330	1375	770	540	810	264	320	420	260	120	360	220	500	700
	225M-250M			1220										800	1150
355	160S-180M	1475	1500	970	605	875	284	355	455	285	135	385	235	550	900
400	180S-200M	1640	1695	970	675	1000	329	400	500	320	150	420	250	600	900

PP AND POLYMER FANS

GHIMVENT-H2-115N ... 400 (variant 5)

Overall and connection sizes



№ вент.	кВт мощность	B max	H	L	b	h	l	D	D1	d	a1	A1	n1	a2	A2	n2	n3	C1	C2	C3	C4
115	4	915	560	440	216	335	127	115	150	7	55	95	1 отв.	105	145	1	6	350 x 2	340	140	50
144	7,5	1015	715	550	270	435	151	144	180	7	70	110	1 отв.	130	170	1	6	375 x 2	460	180	113
181	15	1340	900	630	340	550	175	181	215	7	85	125	1 отв.	160	200	2	8	525 x 2	450	216	100
265	45	1265	1105	900	432	660	208	229	265	7	105	155	1 отв.	198	250	2	8	650 x 2	520	306	-30
320	55	1970	1360	980	540	810	264	290	320	10	130	180	1 отв.	250	300	3	10	775 x 2	710	346	171
	75-90	2070																825 x 2			
400	55	2240	1690	1120	675	1000	329	364	400	10	160	210	1	310	360	3	12	850 x 2	800	391	181
	75-90	2340																950 x 2			

Roof radial fan GHIMVENT-RFN

Conditions of usage

Material	Polymer
Fans performance variants	Chemical acid-resistant
max t transferred media	80 0C
presence of solid impurities	No more than 0,1 г/м3

Additional conditions of fans exploitation in explosion-proof performance	
category of explosive mixtures	IIA, IIB
groups of explosive mixture	T1 – T4
classes of hazardous areas of the room	BIa, BIб, BIr, BIIa

Gerhman polyethylene fans handle compatible media. Select the configuration for the corrosive properties and explosion hazard of the conveyed stream.

Housing of roof fan can be manufactured from:

- From polyethylene HDPE
- Made of reinforced chemically resistant polymer.

Working wheel(Impeller) can be manufactured from:

- Made of reinforced chemically resistant polymer.
- Steel rubberized PVC.

We manufacture roof fans GHIMVENT-RFN UA from No. 3.55 to No. 14 with the following characteristics:

Productivity of 900 m ^{3}/ h to 111 to 600 m ^{3}/ h.

Total pressure from 100 to 1815 Pa.

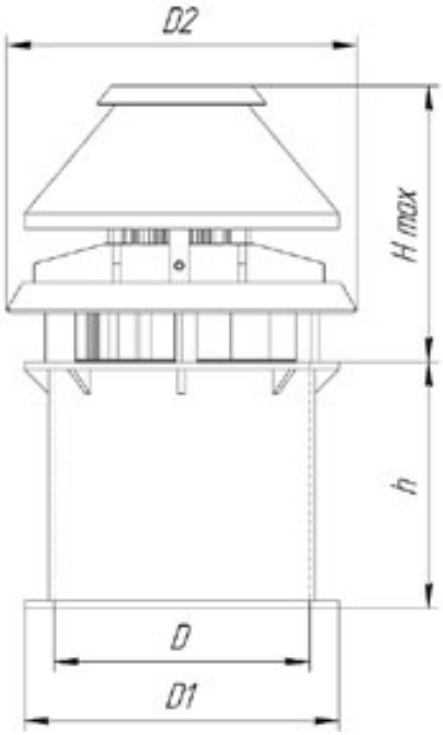
Operating temperature from -50 to + 80 degrees.

A roof-mounted HDPE fan can be configured with the motor isolated from the gas stream and a separate cooling system.

PP AND POLYMER FANS

GHIMVENT-RFN № 3,55-14

Overall sizes



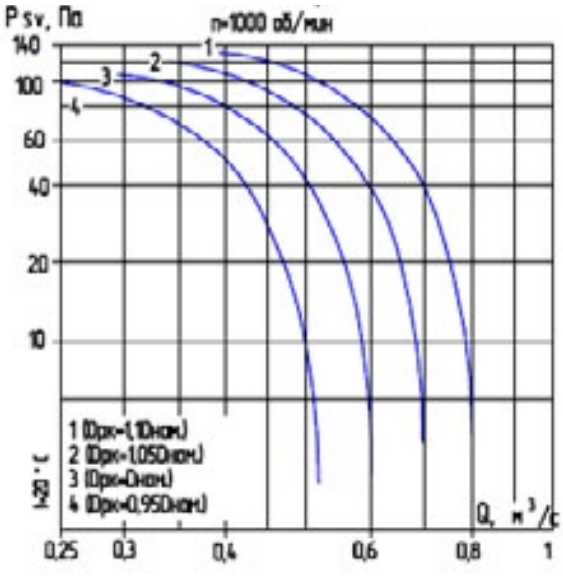


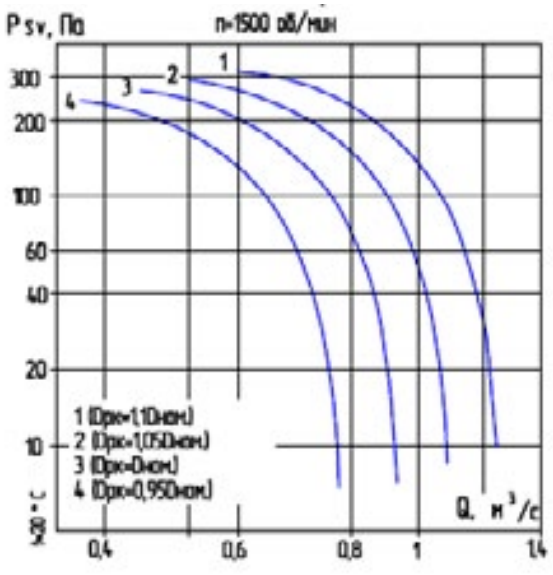
RF	D	D1	D2	H max	h
3.55	405	521	770	790	500
4	405	521	770	870	500
4.5	505	621	1000	970	500
5	505	621	1000	780	500
5,6	635	751	1170	875	500
6,3	635	755	1170	985	500
7,1	810	930	1200	945	500
8	1010	1130	1200	1185	500
9	1010	1130	1460	1275	500
10	1260	1380	1460	1275	500
11,2	1260	1390	1750	1340	500
12,5	1260	1390	1750	1340	500
14	1260	1390	1960	1470	500

PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RFN 3,55





Technical data GHIMVENT-RF-3,55N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GChimVent- UAN Radial Roof Fan 3,55 (variant 1)	0,95	63A6**	0,18	890	0,25-0,52	100-0	43
	1	63A6**	0,18	890	0,29-0,61	110-0	43
	1,05	63A6**	0,18	890	0,34-0,7	120-0	43
	1,1	63A6**	0,18	890	0,39-0,8	130-0	43
	0,95	63A4	0,25	1380	0,39-0,8	240-0	43
	1	63A4	0,25	1380	0,46-0,94	265-0	43
	1,05	63B4	0,37	1380	0,53-1,1	290-0	43
	1,1	71A4	0,55	1390	0,61-1,3	325-0	52

Acoustic characteristics roof fan GHIMVENT-RF-3,55N

1. Fans must provide the acoustic characteristics shown in the table.

2. Permissible upper deviations of the total sound power level up to 3 dB.

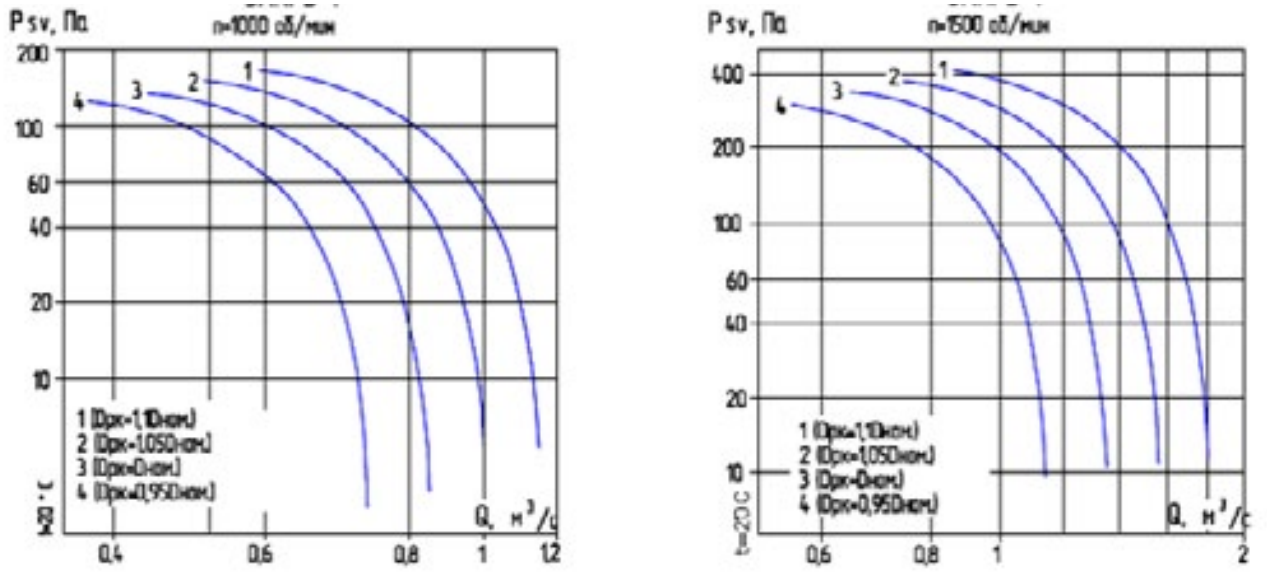
Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
3,55	1	890	56	56	60	62	61	58	53	46	65
	1	1380	58	58	62	64	63	60	55	48	67

PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RF-4N



Technical data GHIMVENT-RF-4N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GChimVent- RF-4N (variant 1)	0,95	63A6**	0,18	890	0,36-0,74	125-0	46
	1	63A6**	0,18	890	0,42-0,87	140-0	46
	1,05	63A6**	0,18	890	0,49-1,0	155-0	46
	1,1	63B6**	0,25	890	0,56-1,2	170-0	46
	0,95	63B4	0,37	1370	0,56-1,14	300-0	46
	1	71A4	0,55	1390	0,65-1,35	340-0	55
	1,05	71B4	0,75	1390	0,76-1,57	375-0	55
	1,1	71B4	0,75	1390	0,88-1,8	410-0	55

Acoustic characteristics roof fan GHIMVENT-RF-4N

1. Fans must provide the acoustic characteristics shown in the table.

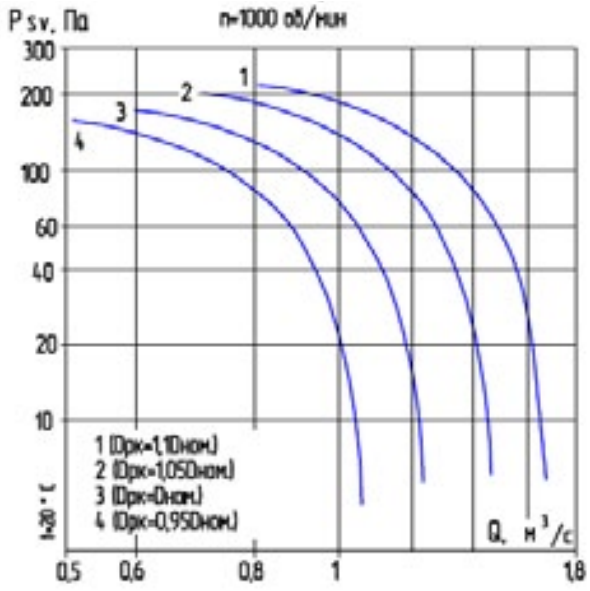
2. Permissible upper deviations of the total sound power level up to 3 dB.

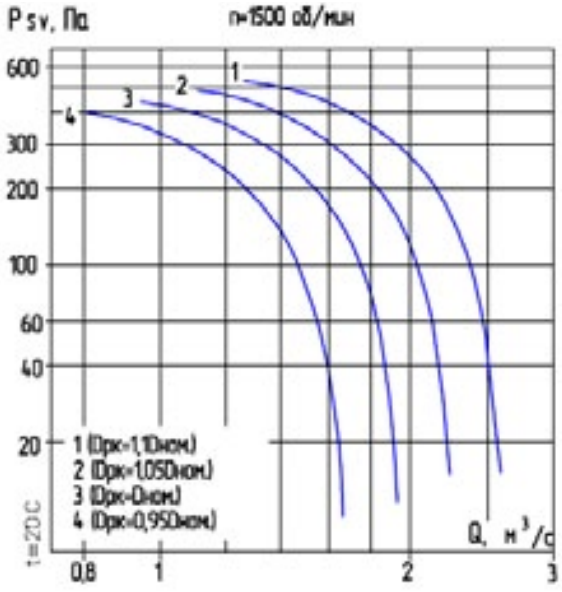
Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
4	1	890	67	72	77	80	74	66	58	51	79
	1	1390	69	74	79	81	77	69	61	52	80

Aerodynamic Characteristics

GHIMVENT-RF-4,5N





Technical data GHIMVENT-RF-4,5N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GChimVent- RFN-4,5 (variant 1)	0,95	63A6**	0,18	890	0,52-1,1	160-0	52
	1	63B6**	0,25	890	0,6-1,25	175-0	52
	1,05	71A6	0,37	910	0,71-1,47	205-0	60
	1,1	71A6	0,37	910	0,82-1,7	225-0	60
	0,95	71B4	0,75	1390	0,81-1,7	390-0	60
	1	80A4	1,1	1400	0,95-1,95	435-0	65
	1,05	80B4	1,5	1405	1,1-2,26	485-0	65
	1,1	80B4	1,5	1405	1,26-2,6	530-0	65

Acoustic characteristics roof fan GHIMVENT-RF-4,5N

1. Fans must provide the acoustic characteristics shown in the table.
2. Permissible upper deviations of the total sound power level up to 3 dB.

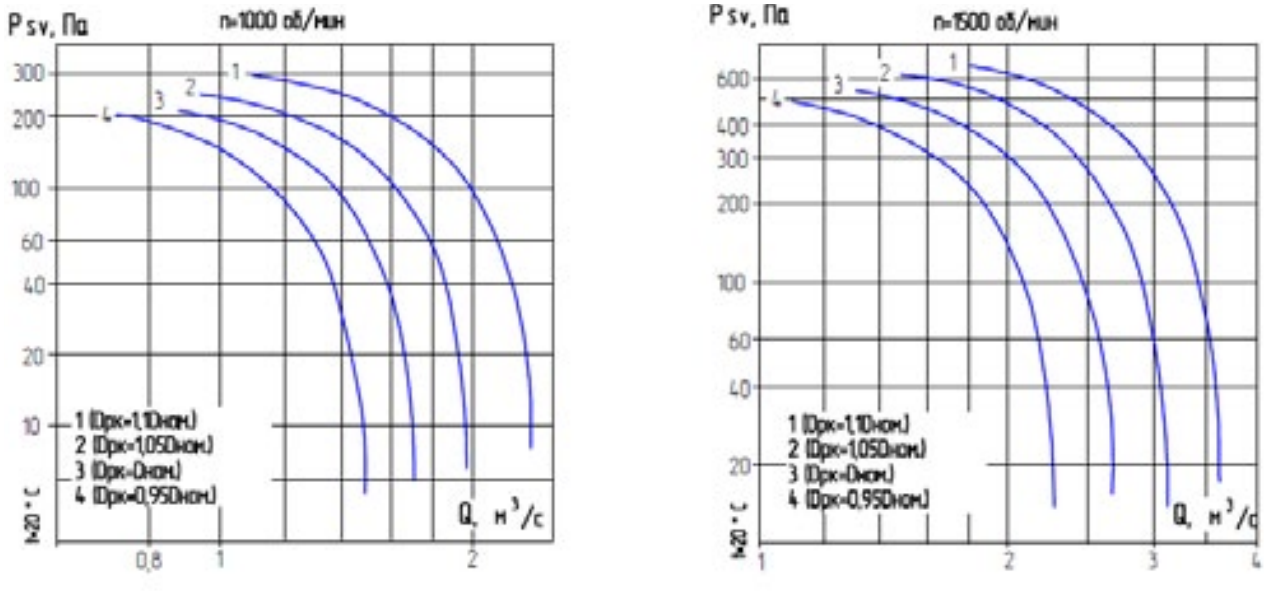
Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
4,5	1	910	69	75	80	82	79	72	64	54	81
	1	1405	71	81	83	84	82	77	71	58	83

PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RF-5N



Technical data GHIMVENT-RF-5N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GHIMVENT- RF-5N (variant 1)	0,95	71A6	0,37	910	0,71-1,5	200-0	75
	1	71B6	0,55	900	0,85-1,7	225-0	75
	1,05	71B6	0,55	900	0,96-2,0	245-0	75
	1,1	80A6	0,75	930	1,15-2,5	290-0	80
	0,95	80A4	1,1	1400	1,1-2,4	485-0	80
	1	80B4	1,5	1405	1,3-2,7	545-0	80
	1,05	90L4	2,2	1420	1,5-3,2	610-0	90
	1,1	100S4	3	1430	1,8-3,7	680-0	95

Acoustic characteristics roof fan GHIMVENT-RF-5N

1. Fans must provide the acoustic characteristics shown in the table.

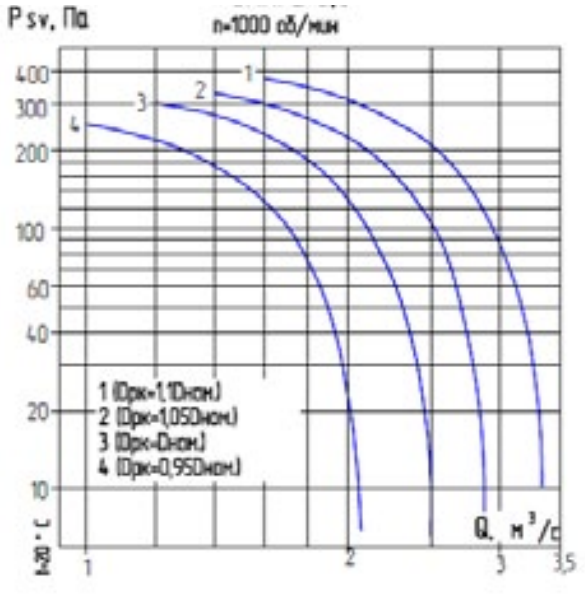
2. Permissible upper deviations of the total sound power level up to 3 dB.

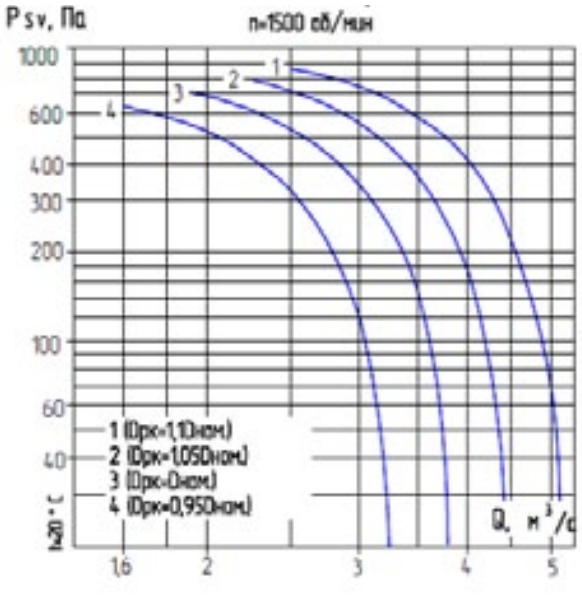
Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
5	1	930	71	80	83	84	81	77	71	58	83
	1	1430	73	83	85	86	84	79	73	60	85

Aerodynamic Characteristics

GHIMVENT-RF-5,6N





Technical data GHIMVENT-RF-5,6N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GHIMVENT- RFN -5,6 (variant1)	0,95	71B6	0,55	900	1,0-2,2	250-0	80
	1	80A6	0,75	930	1,2-2,5	300-0	85
	1,05	80B6	1,1	930	1,4-2,9	330-0	85
	1,1	90L6	1,5	940	1,6-3,4	370-0	95
	0,95	90L4	2,2	1420	1,6-3,3	630-0	95
	1	100S4	3,0	1430	1,9-3,8	705-0	100
	1,05	100L4	4	1430	2,2-4,4	780-0	110
	1,1	112M4	5,5	1430	2,5-5,2	855-0	120

Acoustic characteristics roof fan GHIMVENT-RF-5,6N

1. Fans must provide the acoustic characteristics shown in the table.

2. Permissible upper deviations of the total sound power level up to 3 dB.

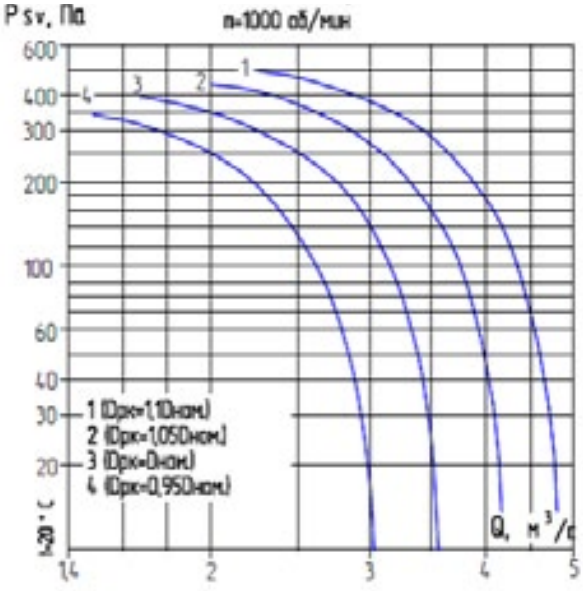
Lower values - not limited.

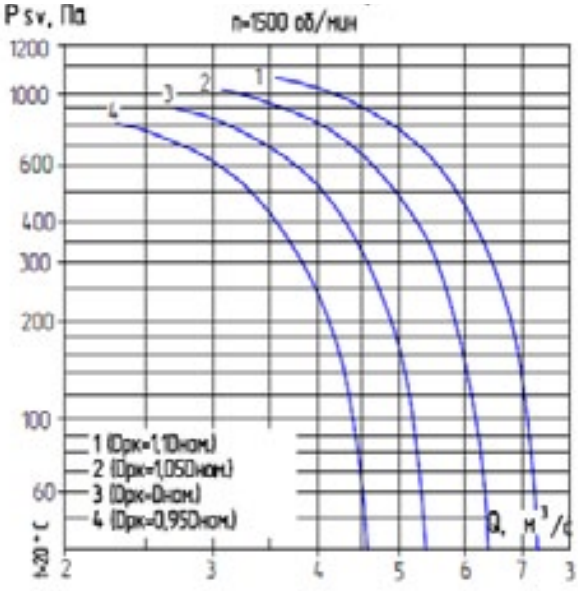
Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
5,6	1	940	73	79	84	86	82	78	71	60	86
	1	1430	77	81	86	89	83	80	72	62	88

PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RF 6,3N





Technical data GHIMVENT-RF-6,3N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GHIMVENT- RF-6,3N (variant 1)	0,95	80B6	1,1	930	1,5-3,0	340-0	110
	1	90L6	1,5	940	1,7-3,6	385-0	120
	1,05	100L6	2,2	950	2,0-4,3	435-0	135
	1,1	112MA6	3	950	2,3-4,8	475-0	145
	0,95	100L4	4	1430	2,3-4,5	805-0	135
	1	112M4	5,5	1430	2,7-5,5	890-0	145
	1,05	132S4	7,5	1450	3,1-6,5	1015-0	165
	1,1	132M4	11	1450	3,6-7,5	1110-0	185

Acoustic characteristics roof fan GHIMVENT-RF-6,3N

1. Fans must provide the acoustic characteristics shown in the table.
2. Permissible upper deviations of the total sound power level up to 3 dB.

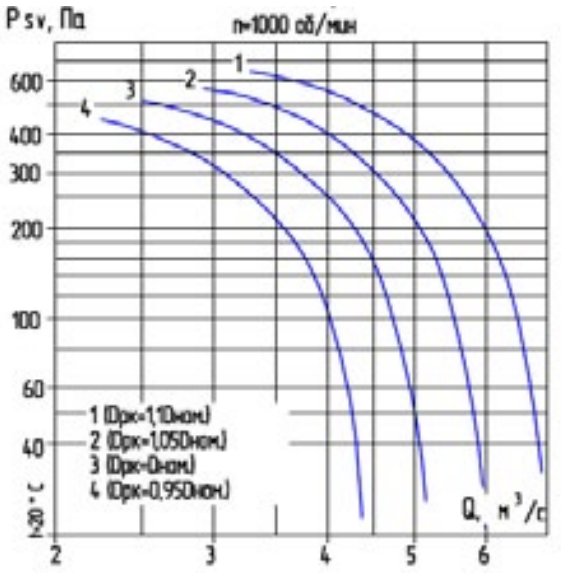
Lower values - not limited.

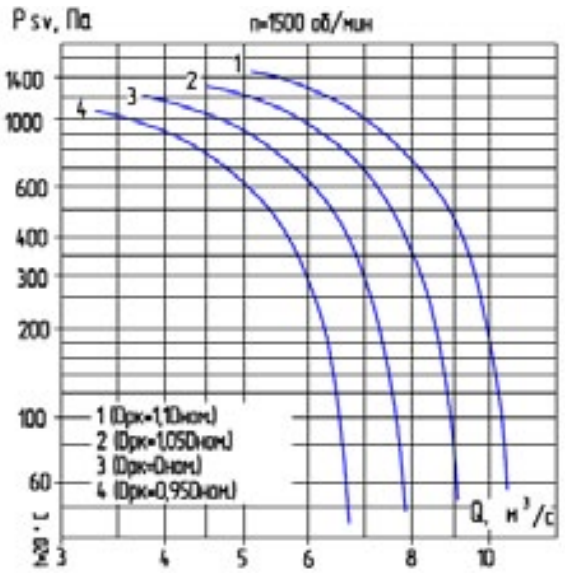
Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp, dB
6,3	1	950	77	81	86	89	83	78	69	62	89
	1	1450	80	83	88	91	84	80	71	64	91

PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RF-7,1N





Technical data GHIMVENT-RF-7,1N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GHIMVENT- RF-7,1N (variant 1)	0,95	100L6	2,2	950	2,2-4,5	450-0	140
	1	112MA6	3,0	950	2,5-5,2	500-0	160
	1,05	112MB6	4	950	2,9-6,0	550-0	160
	1,1	132S6	5,5	960	3,4-7,0	620-0	180
	0,95	132S4	7,5	1450	3,3-6,8	1055-0	180
	1	132M4	11	1450	3,8-8,0	1165-0	195
	1,05	160S4	15	1450	4,5-9,2	1290-0	235
	1,1	160S4	15	1450	5,1-10,5	1410-0	235

Acoustic characteristics roof fan GHIMVENT-RF-7,1N

1. Fans must provide the acoustic characteristics shown in the table.

2. Permissible upper deviations of the total sound power level up to 3 dB.

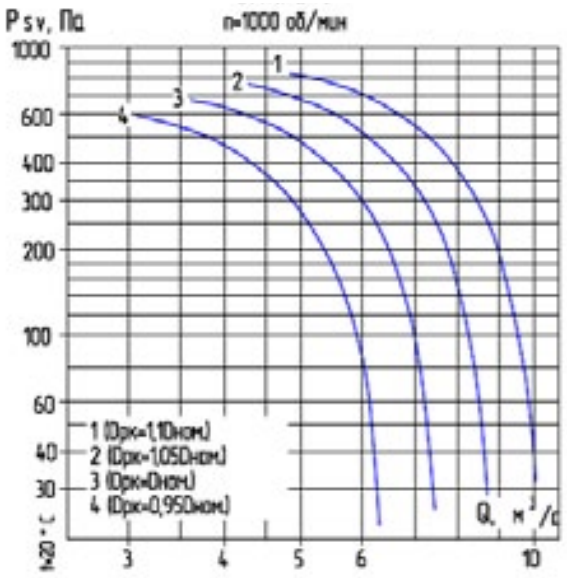
Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
7,1	1	960	80	86	87	89	86	80	73	61	90
	1	1450	82	88	89	93	88	82	74	65	92

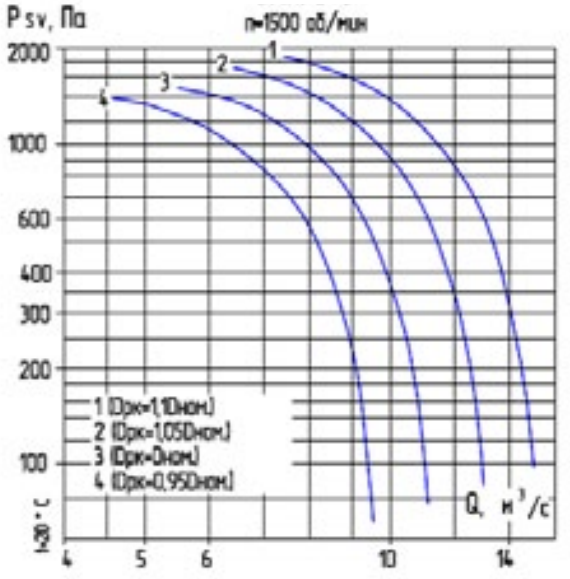
PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RF-8N



GHIMVENT-RF-8N



Technical data GHIMVENT-RF-8N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GHIMVENT- RF-8N (variant 1)	0,95	112MB6	4	950	3,1-6,4	575-0	220
	1	132S6	5,5	960	3,6-7,5	650-0	240
	1,05	132M6	7,5	970	4,3-8,8	730-0	260
	1,1	160S6	11	970	4,9-10,1	800-0	300
	0,95	160S4	15	1450	4,7-9,7	1335-0	300
	1	160M4	18,5	1450	5,5-11,3	1480-0	325
	1,05	180S4	22	1460	6,4-13,2	1655-0	340
	1,1	180M4	30	1460	7,4-15,1	1815-0	360

Acoustic characteristics roof fan GHIMVENT-RF-8N

1. Fans must provide the acoustic characteristics shown in the table.

2. Permissible upper deviations of the total sound power level up to 3 dB.

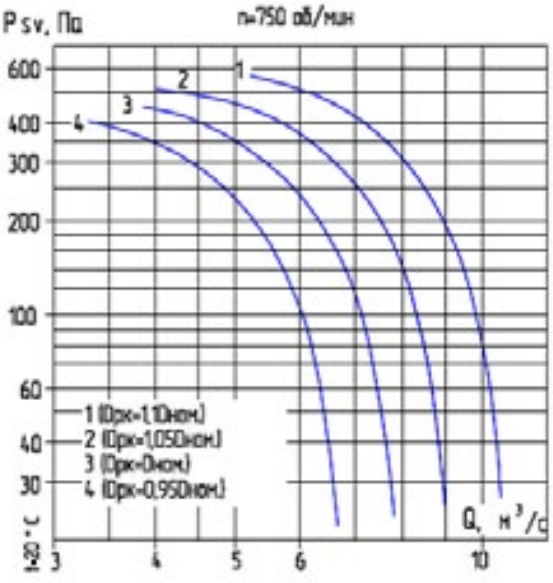
Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
8	1	970	84	91	89	90	87	82	73	64	91
	1	1460	86	93	91	95	89	84	75	66	93

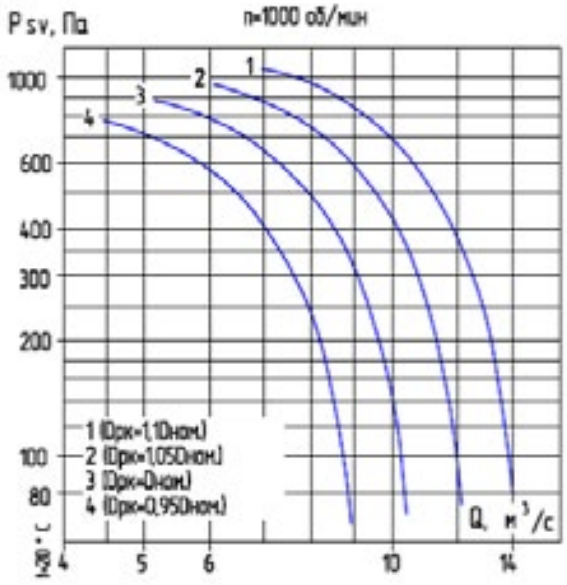
PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RF-9N



GHIMVENT-RF-9N



Technical data GHIMVENT-RF-9N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GHIMVENT- RF-9N (variant 1)	0,95	112MB6	3	710	3,3-6,8	405-0	250
	1	132S8	4	710	3,8-7,9	450-0	270
	1,05	132M8	5,5	710	4,4-9,2	495-0	290
	1,1	160S8	7,5	720	5,1-10,5	560-0	330
	0,95	132M6	7,5	970	4,5-9,2	755-0	290
	1	160S6	11	970	5,2-10,8	840-0	330
	1,05	160M6	15	975	6,1-12,5	935-0	355
	1,1	160M6	15	975	7,0-14,4	1025-0	355

Acoustic characteristics roof fan GHIMVENT-RF-9N

1. Fans must provide the acoustic characteristics shown in the table.

2. Permissible upper deviations of the total sound power level up to 3 dB.

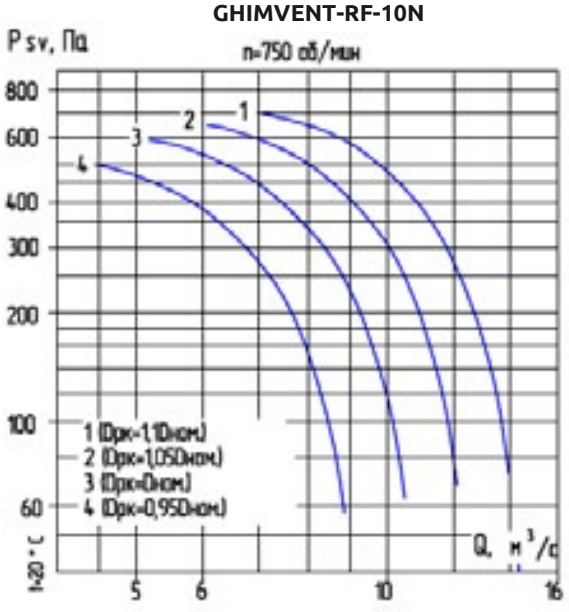
Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
9	1	720	84	95	95	94	91	86	77	68	96
	1	975	86	97	97	97	93	88	79	70	98

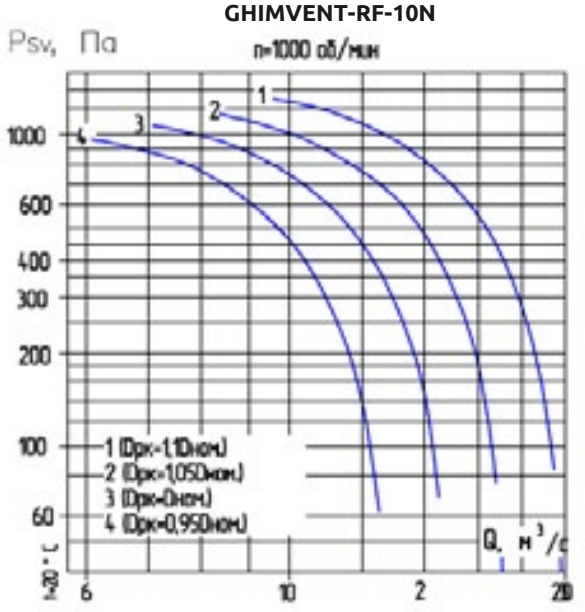
PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RF-10N



GHIMVENT-RF-10N



Technical data GHIMVENT-RF-10N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GHIMVENT- RF-10N (variant 1)	0,95	132M8	5,5	710	4,5-9,3	500-0	355
	1	160S8	7,5	720	5,3-11,0	570-0	395
	1,05	160M8	11	720	6,2-12,7	630-0	420
	1,1	160M8	11	720	7,1-14,6	690-0	420
	0,95	160M6	15	975	6,2-12,7	945-0	420
	1	180M6	18,5	975	7,2-14,8	1050-0	455
	1,05	200M6	22	975	8,4-17,2	1150-0	530
	1,1	200L6	30	980	9,7-19,9	1280-0	570

Acoustic characteristics roof fan GHIMVENT-RF-10N

1. Fans must provide the acoustic characteristics shown in the table.
2. Permissible upper deviations of the total sound power level up to 3 dB.

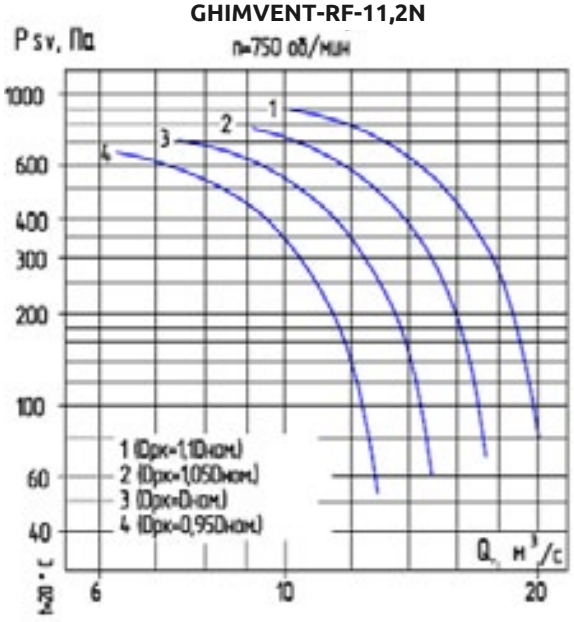
Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
10	1	720	88	97	96	95	92	86	77	69	97
	1	980	90	99	97	99	94	88	80	70	99

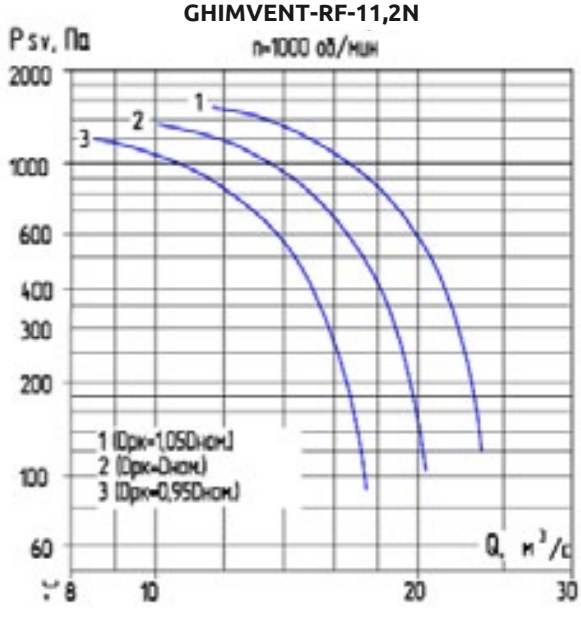
PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RF-11,2N



GHIMVENT-RF-11,2N



Technical data GHIMVENT-RF-11,2N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GHIMVENT- RF-11,2N (variant 1)	0,95	160M8	11	720	6,4-13,2	645-0	455
	1	160M8	11	720	7,5-15,4	715-0	455
	1,05	180M8	15	725	8,7-18,0	800-0	490
	1,1	200M8	18,5	730	10,1-20,8	890-0	565
	0,95	200M6	22	975	8,7-17,9	1185-0	565
	1	200L6	30	980	10,2-21,0	1325-0	605
	1,05	225M6	37	985	11,9-24,4	1475-0	650

Acoustic characteristics roof fan GHIMVENT-RF-11,2N

1. Fans must provide the acoustic characteristics shown in the table.
2. Permissible upper deviations of the total sound power level up to 3 dB.

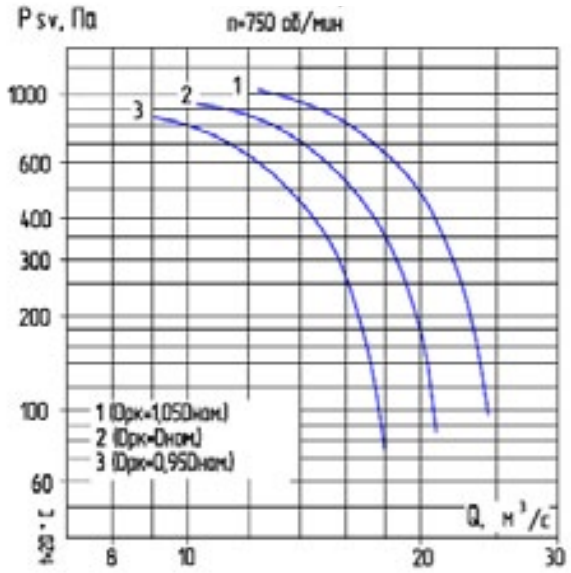
Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
11,2	1	730	83	86	74	71	76	64	57	53	82
	1	985	94	101	99	101	96	88	80	72	100

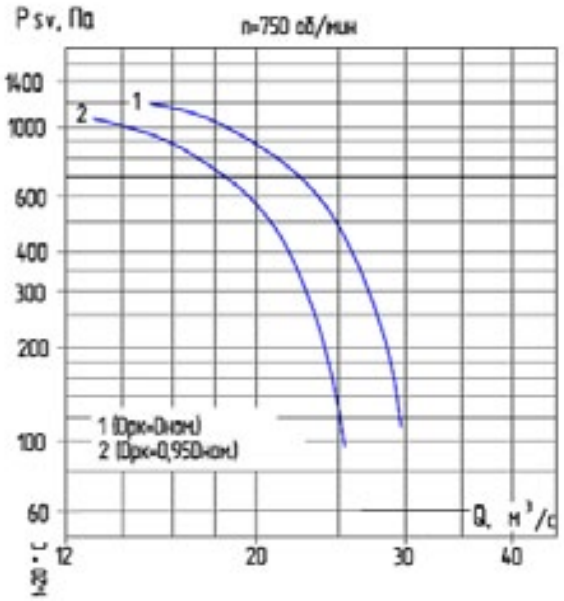
PP AND POLYMER FANS

Aerodynamic Characteristics

GHIMVENT-RF-12,5N



GHIMVENT-RF-14N



Technical data GHIMVENT-RF-12,5N, GHIMVENT-RF-14N

Fan designation	Dрк	Engine capacity.	Motor power, kW	Impeller frequency rotation per min	Airflow, m^3/s	Static pressure, Pa	weight, kg
GHIMVENT- RF-12,5N (variant 1)	0,95	200M8	18,5	730	9,1-18,6	830-0	615
	1	200L8	22	730	10,6-22,0	915-0	655
	1,05	225M8	30	735	12,3-25,3	1025-0	700
GHIMVENT- RF-14N (variant1)	0,95	225M8	30	735	12,8-26,3	1050-0	800
	1	250S8	37	735	15,0-31,0	1165-0	930

Acoustic characteristics roof fan GHIMVENT-RF-12,5N

1.Fans must provide the acoustic characteristics shown in the table.

2. Permissible upper deviations of the total sound power level up to 3 dB.

Lower values - not limited.

Fan number	Variant of perfor mance	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,
			63	125	250	500	1000	2000	4000	8000	dB
12,5	1	735	96	102	100	102	97	89	81	73	101

PP AND POLYMER FANS

Acoustic characteristics of duct fan GHIMVENT-L-110N

1. Duct fan GHIMVENT-N-110N must provide acoustic characteristics given in table 1.
2. Permissible upper deviations of the total sound power level up to 3 dB.

Lower values are not limited.

3. The acoustic characteristics of the fan are shown in Table 1.

Table 1

Fan designation	Engine Capacity	Motor power, kW	Impeller frequency rotation, rotation per min	Airflow, m^3/h	Total pressure, Pa	The total sound power level, L_{A3m} *
GHIMVENT- L-110N	5АИ56А4	0,12	1500	30-180	87-13	45
	5АИ56А2	0,18	3000	60-330	320-50	51

* LA3m = A - weighted sound pressure level at a distance of 3 m

PP AND POLYMER FANS

Acoustic characteristics of the laboratory ventilator GHIMVENT-H-L-164N

1. Laboratory ventilator GHIMVENT-H-L-164N must provide the acoustic characteristics shown in Table 1, Table 2.
2. Permissible upper deviations of the total sound power level up to 3 dB. Lower values are not limited.
3. The acoustic characteristics of the fan without a frequency converter are shown in Table 1.
4. Acoustic characteristics of the fan with a frequency converter

are shown in Table 2.

Table 1

Fan designation	Engine Capacity	Motor power, kW	Impeller frequency rotation, rotation per min	Airflow, m^3/h	Total pressure, Pa	Sound level around hmax * [dB (A)]
GHIMVENT- L-LN (laboratory) -164	5АИ63А6	0,18	860	180-560	130-68	56
	5АИ56В4	0,18	1325	280-800	270-130	65
	5АИ63В2	0,55	2770	560-1600	1100-560	80

Table 2

Fan designation	Engine Capacity	Motor power, kW	Impeller frequency rotation, rotation per min	Airflow, m^3/h	Total pressure, Pa	Sound level around hmax * [dB (A)]
GHIMVENT- L-LN (laboratory) -164	5АИ56В4	0,18	1400	280-800	270-130	66
			1250	250-710	210-110	64
			1120	200-630	165-85	61
			1000	180-560	130-68	58
	5АИ63В2	0,55	2800	560-1600	1100-560	81
			2500	500-1400	845-450	79
			2240	450-1250	680-350	76
			2000	400-1120	540-280	74
			1800	355-1000	425-220	71
			1600	315-800	340-175	68

* LA3m = A - weighted sound pressure level at a distance of 3 m

Acoustic performance of low pressure fans
GHIMVENT-LN (255; 320; 405; 455; 505; 565; 635; 720; 810; 910; 1010; 1130; 1260)

1. The laboratory ventilator GHIMVENT-LN must provide the acoustic characteristics given in table 1, table 2.
2. Permissible upper deviations of the total sound power level up to 3 dB. The lower values are not limited.
3. The acoustic characteristics of the fan without a frequency converter are shown in Table 1.
4. The acoustic characteristics of the fan with a frequency converter are shown in table.

Table 1

Fan number	Variant	Frequency rotation per min	Value Lp1, dB octave bands f, Hz							Lp,dB
			125	250	500	1000	2000	4000	8000	
255	1	1380	61	69	62	60	58	50	41	67
	1	2750	73	76	84	77	75	73	65	84
320	1	1370	68	76	69	67	65	57	48	74
	1	2870	81	84	92	85	83	81	73	92
405	1	890	68	76	69	67	65	57	46	73
	1	1390	77	85	78	76	74	66	57	82
	1	2885	93	96	98	95	90	85	78	103
	1	2970	94	98	99	96	92	87	79	104
455	1	910	70	78	71	70	68	60	51	75
	1	1400	79	87	80	78	76	68	59	84
505	1	900	73	81	73	72	71	62	53	78
	1	1405	83	91	83	81	80	71	63	87
565	1	930	79	87	80	77	71	68	60	84
	1	1420 1430	84	92	85	82	81	73	65	88
635	1	940 950	81	89	82	80	73	70	61	86
	1	1430	92	100	93	91	89	81	72	97
	5	1000÷1700	81÷100	89÷108	82÷101	80÷99	73÷97	70÷88	61÷80	86÷105
720	1	950	86	94	87	85	80	75	76	91
	1	1450	95	103	96	94	92	84	75	100
810	1	710	88	96	89	86	85	77	68	93
	1	960	91	99	92	90	88	80	71	96
	1	1450	98	106	99	97	95	87	78	103
	5	700÷1500	88÷98	96÷106	89÷99	86÷97	85÷95	77÷87	68÷78	93÷103
910	1	710	90	98	91	88	87	79	70	100
	1	970	94	102	95	96	91	83	74	102
	1	1500	104	111	104	103	101	93	85	110

PP AND POLYMER FANS

Continue

Table 1

Fan number	Variant	Frequency rotation per min	Value Lp1, dB octave bands f, Hz							Lp,dB
			125	250	500	1000	2000	4000	8000	
1010	1	720	91	99	92	90	88	80	71	101
	1	975	98	106	99	97	95	87	78	108
	5	500÷1000	87÷98	95÷106	88÷99	86÷97	84÷95	76÷87	68÷78	97÷108
1130	1	720 725	94	102	95	93	91	83	74	104
	1	980	101	109	102	100	95	90	81	111
1260	1	730	98	105	101	97	95	87	78	108
	5	500÷800	90÷99	98÷106	91÷102	89÷98	87÷96	79÷88	71÷79	100÷109

3. Acoustic performance measured on the discharge side at nominal fan operation. On the suction side, the sound power levels are 3 dB lower than those given in table 1; 2.

4. At the boundaries of the working section of the aerodynamic characteristic, the sound power levels 3 dB above the sound power level correspond to the nominal fan operating mode.

Table 2

Fan number	Variant	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,dB
			63	125	250	500	1000	2000	4000	8000	
1615	5	420	91	95	102	101	100	95	88	76	104
	5	450	92	96	103	102	101	96	89	77	105
	5	500	95	99	106	105	104	99	92	80	108
	5	550	97	101	108	107	106	101	94	82	110
	5	600	103	107	114	113	112	107	100	88	116
	5	720	108	114	120	126	132	138	144	150	156

PP AND POLYMER FANS

Acoustic characteristics of fan medium pressure GHIMVENT-MN (205; 255; 320; 405; 505; 635; 810; 1010; 1260)

1. GHIMVENT MN fans must provide the acoustic characteristics shown in the table
2. Permissible upper deviations of the total sound power level up to 3 dB. Lower values - not limited
3. Acoustic performance measured on the discharge side at nominal fan operation. On the suction side, the sound power levels are 3 dB lower than those given in Table 1.
4. At the boundaries of the working section of the aerodynamic characteristic, the sound power levels are 3 dB higher than the sound power level corresponding to the nominal fan operating mode.

Table 1

Fan number	Variant	Frequency rotation per min	Value Lp1, dB octave bands f, Hz							Lp,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M-205N	1	1370 1380	69	73	75	71	67	62	54	86
	1	2810 2820 2830	84	88	90	86	82	77	69	69
GHIMVENT-M-255N	1	1390	74	78	80	76	72	67	59	84
	1	2870 2885	93	97	99	95	91	86	78	103
GHIMVENT-M-320N	1	910 900	73	77	79	75	71	66	58	83
	1	1405 1420	82	86	88	84	80	75	67	92
GHIMVENT-M-405N	1	950	80	84	86	82	78	73	65	90
	1	1430 1450	91	95	97	93	89	84	76	101
GHIMVENT-M-505N	1	950 960 970	87	92	93	91	87	81	74	99
	1	1450 1460	98	103	104	101	98	90	83	109

PP AND POLYMER FANS

Continue

Table 1

Fan number	Variant	Frequency rotation per min	Value Lp1, dB octave bands f, Hz							Lp,dB
			125	250	500	1000	2000	4000	8000	
GHIMVENT-M -635N	1	710 720	90	92	95	91	88	81	74	99
	1	975	98	100	103	100	96	91	82	106
	5	600÷1150	87÷100	89÷102	92÷105	88÷102	85÷98	78÷93	71÷84	96÷108
GHIMVENT-M -810N	1	730 735	97	101	103	99	95	90	82	107
	1	985	104	108	110	106	102	97	89	114
	5	500÷985	94÷104	98÷108	100÷110	96÷106	92÷102	87÷97	79÷89	104÷114
GHIMVENT-M -1010N	5	400÷650	92÷98	96÷102	98÷104	94÷100	90÷97	85÷92	77÷83	102÷107
GHIMVENT-M -1260N	5	450	104	108	110	106	102	97	89	114

PP AND POLYMER FANS

Acoustic Characteristics of fan high pressure GHIMVENT-HN (205; 230; 255; 285; 320; 360; 405; 455; 505; 560; 635)

1.GHIMVENT HN fans must provide the acoustic characteristics shown in the table
2. Permissible upper deviations of the total sound power level up to 3 dB. Lower values - not limited
3. Acoustic performance measured on the discharge side at nominal fan operation. On the suction side, the sound power levels are 3 dB lower than those given in Table 1.
4. At the boundaries of the working section of the aerodynamic characteristic, the sound power levels are 3 dB higher than the sound power level corresponding to the nominal fan operating mode.

Table 1

Fan number	Variant	Frequency rotation per min	LpA, dB	Value Lp1, dB octave bands f, Hz							
				63	125	250	500	1000	2000	4000	8000
Gerhman H-205	1	1380	83	74	75	76	79	76	74	70	60
	1	2870	99	87	88	90	95	94	93	90	85
	5	1500÷4000	86÷110	74÷98	74÷99	77÷101	83÷105	80÷107	76÷104	72÷101	71÷95
Gerhman H-230	1	1390	87	77	78	79	82	79	77	73	62
	1	2885	100	88	89	91	96	95	94	91	86
Gerhman H-255	1	1400	89	80	81	82	85	82	80	76	64
	1	2900	102	90	91	93	98	98	97	93	88
	5	1500÷3500	89÷106	80÷94	81÷95	82÷97	85÷101	82÷103	80÷100	76÷97	64÷91
Gerhman H-285	1	1420	92	81	82	84	88	86	84	81	72
	1	2930	104	92	92	95	99	101	98	95	89
Gerhman H-320	1	1430	95	83	84	86	92	90	89	86	80
	1	2935	110	98	99	101	107	105	104	101	95
	5	1500÷3200	112	100	101	103	109	107	106	103	97
Gerhman H-360	1	1430	99	86	87	90	95	93	92	90	84
	1	2950	114	101	102	106	111	109	108	105	99
Gerhman H-405	1	1450	103	89	90	95	99	97	96	94	88
	1	2955	119	105	106	111	115	113	112	110	104
	5	1500÷3200	104÷119	90÷105	91÷106	96÷111	100÷115	98÷113	97÷112	95÷110	89÷104
Gerhman H-455	1	1460	105	92	93	96	102	100	99	96	90
	1	2960	123	109	110	115	119	117	116	114	108
Gerhman H505	1	1470	108	95	96	97	104	103	102	99	93
	5	1100÷2000	103÷115	89÷103	92÷104	101÷106	103÷112	100÷110	99÷109	97÷106	91÷100
Gerhman H-560	1	975	104	91	92	95	101	99	98	95	89
	1	1480	109	97	98	100	105	106	103	100	94
Gerhman H-635	1	970	105	92	93	96	102	100	99	97	91
	1	1480	110	99	100	102	108	107	104	101	95
	5	800÷1600	103÷113	89÷101	90÷102	95÷104	99÷110	97÷108	96÷107	94÷104	88÷98

PP AND POLYMER FANS

Acoustic characteristics of fan High pressure GHIMVENT H2N

GHIMVENT-H2N (115; 129; 144; 163; 181; 240; 265; 290; 320 355; 400)

1. GHIMVENT H2N fans must provide the acoustic characteristics shown in the table
2. Permissible upper deviations of the total sound power level up to 3 dB. Lower values - not limited
3. Acoustic performance measured on the discharge side at nominal fan operation. On the suction side, the sound power levels are 3 dB lower than those given in Table 1.
4. At the boundaries of the working section of the aerodynamic characteristic, the sound power levels are 3 dB higher than the sound power level corresponding to the nominal fan operating mode.

Table 1

Fan number	Variant	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,dB
			63	125	250	500	1000	2000	4000	8000	dB
115	1	2810	79	86	85	86	85	84	82	78	93
	5	2500÷4500	77÷96	84÷107	83÷109	84÷113	83÷115	82÷112	80÷109	76÷103	91÷118
129	1	2820	81	88	87	88	87	86	84	80	95
144	1	1390	68	75	74	75	74	73	71	67	82
	1	2830	85	92	91	92	91	90	88	84	99
	5	1500÷4000	68÷97	75÷108	74÷110	75÷114	74÷116	73÷113	71÷110	67÷104	82÷119
163	1	1400	73	80	79	80	79	78	76	72	87
	1	2870	90	97	96	97	96	95	93	89	104
181	1	1400	78	85	84	85	84	83	81	77	92
	1	2885	95	102	101	102	101	100	98	94	109
	5	1500÷3500	79÷100	86÷107	85÷106	86÷107	85÷106	84÷105	82÷103	78÷99	93÷114
240	1	1420	80	87	86	87	86	85	83	79	94
	1	2930	97	104	103	104	103	102	100	96	111
265	1	1430	82	89	88	89	88	87	85	81	96
	1	2935	99	106	105	106	105	104	102	98	113
	5	1500÷3300	83÷102	90÷109	89÷108	90÷109	89÷108	88÷107	86÷105	82÷101	97÷116
290	1	1430	84	91	90	91	90	89	87	83	98
	1	2950	100	107	106	107	106	105	103	99	114
320	1	1450	87	94	93	94	93	92	90	86	101
	5	1500÷3000	88÷102	95÷109	94÷108	95÷109	94÷108	93÷107	91÷105	87÷101	102÷116
355	1	1450	90	97	96	97	96	95	93	89	104
400	1	1450	94	101	100	101	100	99	97	93	108
	5	1500÷2000	94÷103	101÷110	100÷109	101÷110	100÷109	99÷108	97÷106	93÷102	108÷117

Acoustic characteristics of roof fan GHIMVENT-RFN (3,55; 4; 4,5; 5; 5,6; 6,3; 7,1; 8; 9; 10; 11,2; 12; 14)

1. GHIMVENT RFN fans must provide the acoustic characteristics shown in Table 1.
2. Permissible upper deviations of the total sound power level up to 3 dB. Lower values are not limited.

Table 1

Fan number	Variant	Frequency rotation per min	Value Lp1, dB octave bands f, Hz								Lp,dB
			63	125	250	500	1000	2000	4000	8000	dB
3,55	1	890	56	56	60	62	61	58	53	46	65
	1	1380	58	58	62	64	63	60	55	48	67
4	1	890	67	72	77	80	74	66	58	51	79
	1	1390	69	74	79	81	77	69	61	52	80
4,5	1	910	69	75	80	82	79	72	64	54	81
	1	1405	71	81	83	84	82	77	71	58	83
5	1	930	71	80	83	84	81	77	71	58	83
	1	1430	73	83	85	86	84	79	73	60	85
5,6	1	940	73	79	84	86	82	78	71	60	86
	1	1430	77	81	86	89	83	80	72	62	88
6,3	1	950	77	81	86	89	83	78	69	62	89
	1	1450	80	83	88	91	84	80	71	64	91
7,1	1	960	80	86	87	89	86	80	73	61	90
	1	1450	82	88	89	93	88	82	74	65	92
8	1	970	84	91	89	90	87	82	73	64	91
	1	1460	86	93	91	95	89	84	75	66	93
9	1	720	84	95	95	94	91	86	77	68	96
	1	975	86	97	97	97	93	88	79	70	98
10	1	720	88	97	96	95	92	86	77	69	97
	1	980	90	99	97	99	94	88	80	70	99
11,2	1	730	83	86	74	71	76	64	57	53	82
	1	985	94	101	99	101	96	88	80	72	100
12,5	1	735	96	102	100	102	97	89	81	73	101

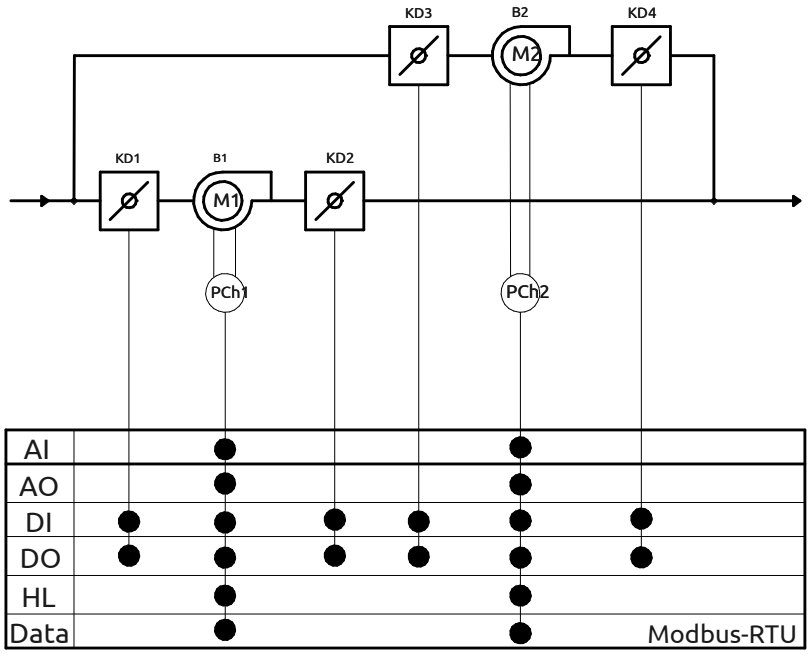
Control cabinet for fan GHIMVENT-SHUVN

The fan control cabinet operates the selected fan motor.



Motor overload and short-circuit protection, remote operation and alarm interfaces are configured for the control system.

Control schematic GChimVent-SHUVN



Device in SHUV	Control cabinet	
AL	Analog input	
AO	Analog output	
DI	Discrete input	
DO	Discrete output	
HL	Indication	
Data	Communication protocol	RS485 (in ACS)

PP AND POLYMER FANS

Technical characteristics and operational conditions	
Characteristic	Value
Supply voltage	380 (±10 %) V.
AC frequency	(50±1) Hz.
Insulation resistance between power lead and grounding bar	At least 20 mOhm.
Level of protection of casing against environmental factors	IP54
Maximum ambient temperature	from -20 °C till +50 °C
Maximum ambient relative humidity	80 % (at t=+25 °C)

The environment should not contain explosive or aggressive gases, current-conducting dust. Vibration should be max. 1 g at a frequency of 20 Hz.

GHIMVENT-SHUVN.X - X. X. X. X. X. X. X. X. X. X- X - X

Fan control cabinet

Fans (quantity, pcs.)

Configuration

O – not equipped
DV - vibration sensor, motor protection
DD - pressure sensor
DR – underpressure sensor
NT – outside air temperature sensor
PT – intake air temperature sensor
RT – temperature motor protection
RD - pressure difference switch on filter
EP – air damper motor drive
D - remote control
PCH - frequency converter
PP - soft starter

Optional

P - operator's control panel
SP - operator's control touchpanel

Type of casing

1 – Steel IP31, 54
2 – Stainless steel IP66

FANS | PROJECT SELECTION SCHEDULE

Define the duty before ordering

Complete the selection information for each fan tag and duty point.

SELECTION FIELD	PROJECT INFORMATION
Customer / project / fan tag	
Application / extraction source	
Quantity and operating schedule	
Airflow [m³/h]	
Required pressure [Pa] and pressure basis	
Gas composition and concentrations	
Normal / maximum gas temperature [°C]	
Gas density / humidity / condensate	
Dust loading and particle description	
Hazardous-area classification, if applicable	
Housing / impeller / seal materials	
Indoor / outdoor and ambient conditions	
Inlet / outlet sizes and connections	
Rotation / orientation / installation limits	
Supply voltage / frequency / speed control	
Noise target and accessories	
Selected model / motor / drawing revision	



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