

Air Eco₂nomy[®]

[40-400°C]

Exhaust-Air Management | Roof Exhaust Fans

GEA RoofJETT

The way to a new age of energy savings

1,000-19,000 m³/h

GEA RoofJETT exhaust-air systems

Making room for fresh air



An overview of RoofJETT::

- Solutions for customized exhaust-air management
- 12 model sizes
- Air-flow rates from 1,000 to 19,000 m³/h
- Standard motors for exhaust-air temperatures up to 60 °C
- EEx-rated motors for enhanced safety in hazardous atmospheres
- Motors for smoke exhaust up to 400 °C and 2 hours
- Automatic isolation flaps
- The GEA MATRIX exhaust-air management system
- For exhaust-air temperatures up to 40 °C, optional use of energy recuperation with efficiency up to 70 %

GEA RoofJETT exhaust-air systems effectively remove spent air, or air polluted with particles and gases, from hall-type buildings – and make room for supply air, rich in oxygen, at a pleasant temperature. In other words: RoofJETT systems make a major contribution to more personal comfort, greater productivity, and enhanced safety.

In many open-space, hall-type buildings – for example, automobile dealerships, furniture showrooms, and production shop floors – decentral solutions provide for heating and exchange of air. In the selection of components, air-exhaust systems deserve just as much attention as the rest of the equipment park after all, it is critical that vitiated air, gases and vapors, as well as airborne particles be effectively and reliably removed. And it is essential that this takes place as quietly and with as little consumption of energy as possible.

A total of 12 model sizes, for air-flow rates from approx. 1,000 to 19,000 m³/h, in addition to various motor variants, make it possible to select the equipment to optimally match the prevailing requirements. In addition to models for single-stage operation, solutions are available with several fan speeds and for operation with frequency converters for infinitely variable fan-speed matching. In this way, the GEA MATRIX control system can assure equilibrium between supply and exhaust air, with economical use of resources. When the units are shut down (for example, during non-working hours), automatic isolation flaps will shut to prevent the entry of cold air.

GEA RoofJETT vertically removes stale air from the facility through two air-exhaust openings. This configuration reduces the risk that the exhaust air will return to the building interior through windows or air-intake openings. With standard exhaust-air temperatures that can reach 40 °C, there is the additional possibility of implementing an energy recovery system, with efficiency up to 70 %. The motto “Air Eco₂nomy” therefore also applies to the exhaust-air side as well: precious energy is used to pre-heat outside air that is later drawn into the building, and is not simply lost to the outside air. (For more information on energy recovery, please see our product brochure GEA MAXX Ergo.)



Esthetics and acoustics to please your neighbors

Discreetly quiet, and very obviously pleasant in design

The GEA RoofJETT is one of the quietest roof exhaust fans on the European market. At the same time, it is an attractive esthetic component of rooftop landscapes – in any RAL color that the customer wishes.

Even at top output, the GEA RoofJETT purrs quietly along. This is made possible by decoupling the structure-borne noise of the motor-fan unit, and by implementation of optimal air-flow routing. In especially noise-sensitive areas, the noise level can be further attenuated by additional noise-suppression measures. Then there's no problem with your neighbors in peaceful residential areas.

The GEA RoofJETT is also highly attractive from the optical standpoint. Its long-life, zinc-plated and additionally powder-coated casing is available in the standard RAL 9002 color, and upon request in all other RAL shades. The highly functional roof exhaust fan therefore becomes a pleasant eye-catcher in rooftop landscapes with high optical standards.

Despite all design expectations, however: when installation and maintenance are involved, interior technical value and sophisticated details are essential. A selection of roof mounting bases makes installation faster and simpler, and an optional tiltable model makes it easy to open the unit for easy inspections or repairs on the ducts. It is also simple to open the cover hood with a few turns of the hand, which ensures fast cleaning and maintenance.



The GEA RoofJETT is available, as an option, with a tiltable casing. Matching accessories are likewise offered for a great number of applications. One example here is roof crossing, which simplifies connection of the roof exhaust unit with interior air ducts below.



Benefits of the GEA RoofJETT:

- Optimized air flow and quiet operation
- Zinc-plated, powder-coated sheet-steel casing
- Availability of all RAL colors
- Various roof mounting bases for simple and reliable installation
- Fast cleaning and maintenance with only a few quick steps
- Optional tiltable version
- Extensive accessories for handling the exhaust of interior air

Also equally effective in meeting special requirements

Exhaust vapors and gases from your buildings






- GEA RoofJETT meets current requirements of EN 12101-3 for safe smoke exhaust in accordance with Fire-Protection Class F400
- Models are available for explosion-endangered environments
- RoofJETT can be supplied as individual solution or complete system for decentral energy recuperation

It's not always stale or vitiated air that must be removed from a building. Often, vapors, explosive gases, or smoke from fires must be safely and reliably exhaust into the open air. Absolutely no problem with the appropriate models of GEA RoofJETT.

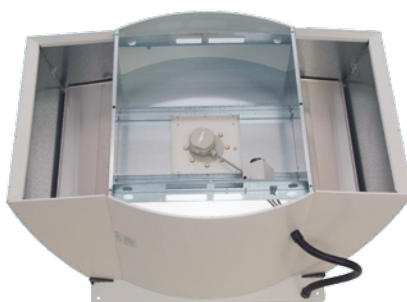
GEA RoofJETT not only quickly handles normal vitiated air: it also reliably removes smoke from fires and explosive gases from buildings.

Models with motors mounted outside the air flow can transport gases and vapors on a continuous-duty basis. The RoofJETT systems for smoke exhaust after a fire are suitable for up to 2 hours' duty at a maximum smoke temperature of 400°C. These features conform to EN 12101-3 for safe smoke exhaust in accordance with Fire-Protection Class F400 (400°C for 2 h).

In applications with explosive atmospheres, GEA RoofJETT is used in its  version, in accordance with the stipulations for enhanced security in explosion-endangered environments  II 2 G c IIB T3 and .

Thanks to the extensive spectrum of versions and model sizes, units in the GEA RoofJETT range can exhaust from buildings any kind of vitiated or polluted air that can encounter. For market halls, factory floors, paint lines, or restaurant kitchens: GEA RoofJETT is the safe and reliable solution against bad air.

The standard versions of GEA RoofJETT are equipped with automatic isolation flaps.

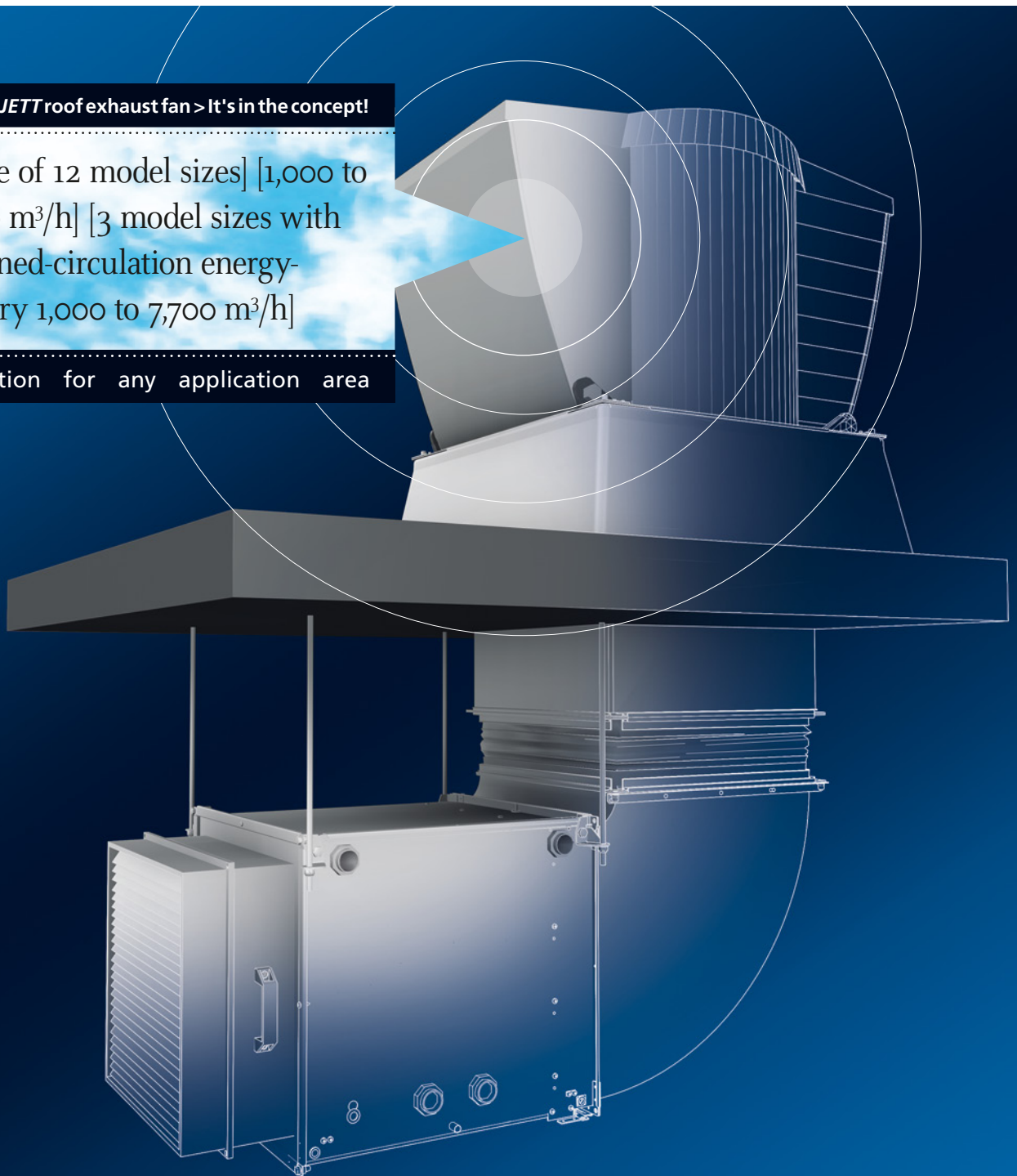




Owing to its optional Cu-Al heat exchanger (shown in the illustration below), the GEA RoofJETT can recover thermal energy from factory-floor air up to 40°C. In the GEA MAXX Ergo system, the energy moves through a brine circulation system to the corresponding supply-air unit – with the result that cool outside air can be pre-heated to save energy.

GEA RoofJETT roof exhaust fan > It's in the concept!



[Choice of 12 model sizes] [1,000 to 19,000 m³/h] [3 model sizes with combined-circulation energy-recovery 1,000 to 7,700 m³/h]

A solution for any application area



Available models of GEA RoofJETT	
Casing:	Motors with 1, 2, or 3 speeds, depending on RJ series (continuously variable upon request)
R J N Casing not tiltable	L Motor inside the air flow – max. exhaust-air temp. 40 °C M Motor outside the air flow – max. exhaust-air temp. 60 °C
R J V Casing tiltable	L Motor inside the air flow – max. exhaust-air temp. 40 °C Motors outside the air flow M Max. exhaust-air temp. 60 °C H Max. exhaust-air temp. 400 °C / 2 h smoke exhaust X Max. exhaust-air temp. 40 °C – enhanced safety as per  II 2 G c IIB T3 Y Max. exhaust-air temp. 40 °C – enhanced safety as per  II 2 G c IIB + H ₂ T4
R J S Casing tiltable and * Noise suppression on air-discharge side	L Motor inside the air flow – max. exhaust-air temp. 40 °C M Motor outside the air flow – max. exhaust-air temp. 60 °C

Increased exhaust-air temperature limits for L and M motors are available upon request.

Fan motors	L	M	H	X	Y
Max. exhaust-air temp.	40 °C	60 °C	400 °C / 2h	 II 2 G c IIB T3 40 °C	 II 2 G c IIB + H ₂ T4 40 °C
Air-flow rate	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h
Model size:	max	max	max	max	max
2022	940	-	-	-	-
2025	1,480	-	-	-	-
2528	1,170	1,150	-	-	-
2531	1,720	1,740	2,810	1,440	1,480
3135	2,690	2,650	2,550	2,600	-
3140	3,620	3,640	3,240	3,300	-
4045	5,120	5,290	4,980	5,040	5,110
4050	6,900	7,380	6,810	6,980	-
5056	6,260	6,710	9,580	6,340	6,340
5063	8,550	9,250	13,250	8,640	8,830
6371	12,780	13,500	18,940	12,490	-
6380	16,920	18,690	-	16,610	-

Increased exhaust-air temperature limits for L and M motors are available upon request.

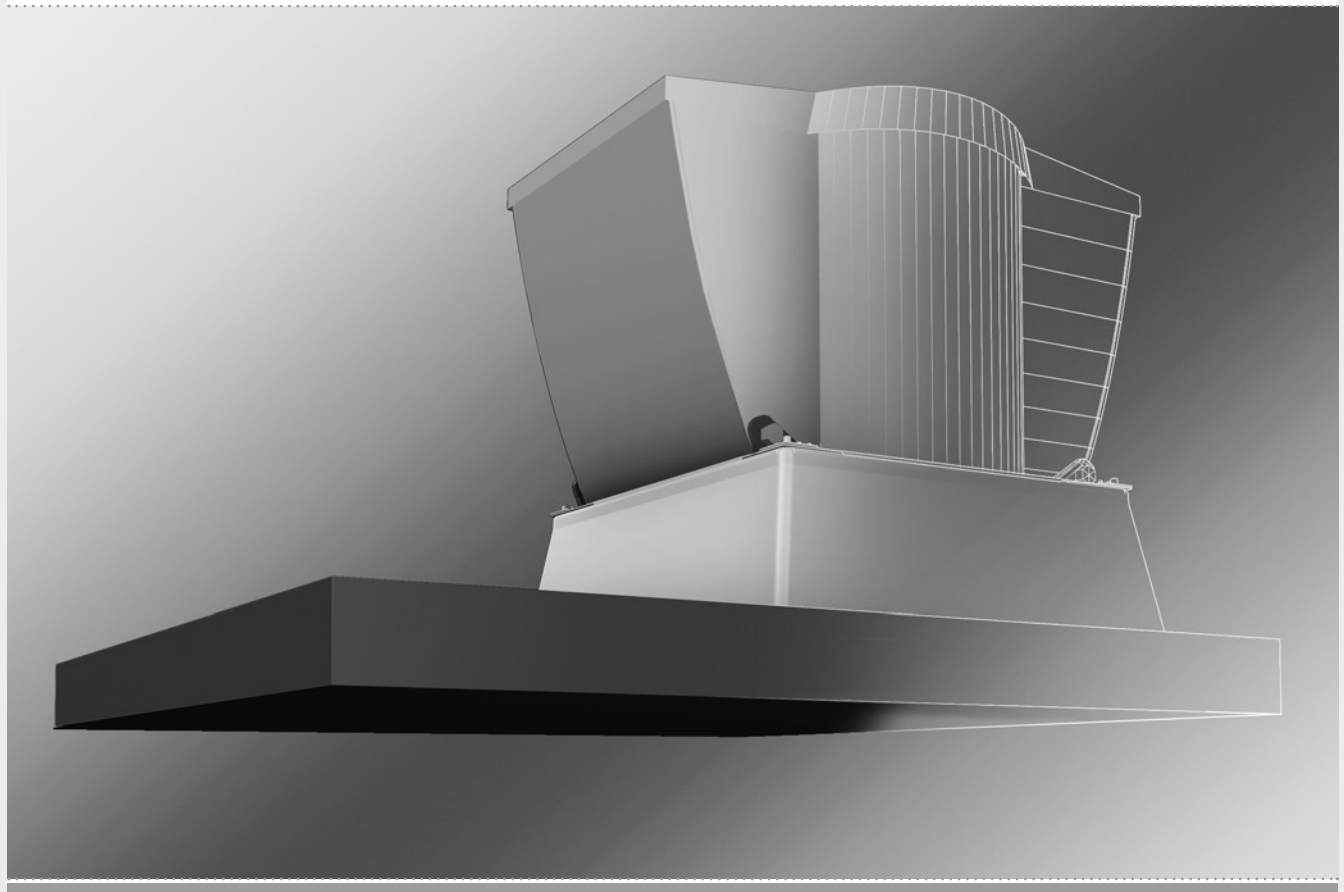
Model range	RJVL-Ergo	High-efficiency energy recovery via a combined circulation system in conjunction with the GEA MAXX Ergo supply-air system. Detailed information to this in special GEA MAXX Ergo documentation.			
Max. exhaust-air temp.	40 °C				
Air-flow rate	m ³ /h				
Model size:	Stage 1	Stage 3	Stage 1	Stage 3	
3140	1,000	2,300	Heat-recovery coeff. 0.68	11 kW	0.63 36 kW
5056	1,600	3,800	Heat-recovery coeff. 0.58	18 kW	0.54 52 kW
6371	3,300	7,700	Heat-recovery coeff. 0.54	22 kW	0.50 65 kW

Ergo output ratings: excerpt from separate GEA MAXX Ergo documentation.

Model size		2022	2025	2528	2531	3135	3140
Dimensions	mm	max	max	max	max	max	max
Width	mm	588	588	588	820	820	820
Height	mm	364	364	364	480	480	480
Depth	mm	400	400	400	560	560	560
Weight	kg	max	max	max	max	max	max
	kg	20	22	23	43	35	39

Model size		4045	4050	5056	5063	6371	6380
Dimensions	mm	max	max	max	max	max	max
Width	mm	1,168	1,168	1,168	1,630	1,630	1,630
Height	mm	632	632	632	865	865	865
Depth	mm	800	800	800	1,120	1,120	1,120
Weight	kg	max	max	max	max	max	max
	kg	78	79	88	157	182	187

Illustration of the GEA RoofJETT with flat-roof plinth (optional)



Fan motor L in air flow		2022	2025	2528	2531	3135	3140
Model size							
Max. exhaust-air temp. 40 °C							
Max. air-flow rate	m ³ /h	940	1,480	1,170	1,720	2,690	3,620
Sound power level, intake side	Lw	77	81	66	69	76	77
Sound pressure level	Lp	61	66	51	54	60	62
Sound power level, output side	Lw	80	83	68	73	78	79
Sound pressure level	Lp	60	63	48	53	58	59
Output-side sound attenuation RJSL	m ³ /h	860	1,290	940	1,660	2,560	3,360
Sound pressure level - RJSL	Lp	55	56	41	47	52	53
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Fan motor L in air flow		4045	4050	5056	5063	6371	6380
Model size							
Max. exhaust-air temp. 40 °C							
Max. air-flow rate	m ³ /h	5,120	6,900	6,260	8,550	12,780	16,920
Sound power level, intake side	Lw	82	84	75	79	84	86
Sound pressure level	Lp	67	69	60	63	69	71
Sound power level, output side	Lw	84	87	78	81	86	88
Sound pressure level	Lp	64	67	58	61	66	68
Output-side sound attenuation RJSL	m ³ /h	5,000	6,640	5,620	8,440	11,680	16,840
Sound pressure level RJSL	Lp	59	61	51	55	60	63
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Fan motor M outside the air flow			2528	2531	3135	3140	4045
Model size							
Max. exhaust-air temp. 60 °C							
Max. air-flow rate	m ³ /h		1,150	1,740	2,650	3,640	5,290
Sound power level, intake side	Lw		66	70	75	77	83
Sound pressure level	Lp		50	54	60	62	68
Sound power level, output side	Lw		68	73	77	80	85
Sound pressure level	Lp		48	53	57	60	65
Output-side sound attenuation RJSM	m ³ /h		930	1,690	2,520	3,390	5,160
Sound pressure level - RJSM	Lp		41	47	51	53	60
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Fan motor M outside the air flow			4050	5056	5063	6371	6380
Model size							
Max. exhaust-air temp. 60 °C							
Max. air-flow rate	m ³ /h		7,380	6,710	9,250	13,500	18,690
Sound power level, intake side	Lw		86	77	81	86	88
Sound pressure level	Lp		71	61	65	71	73
Sound power level, output side	Lw		89	80	83	88	91
Sound pressure level	Lp		69	60	63	68	70
Output-side sound attenuation RJSM	m ³ /h		7,100	6,020	9,140	12,340	18,610
Sound pressure level - RJSM	Lp		63	53	57	61	65


Measuring conditions for the sound pressure level Lp


Intake side: interval = 4 m; room volume = 2,500 m³; reverberation time = 2 s; directional factor = 2 (hemispherical radiation)


Output side: interval = 4 m; free field; directional factor = 2 (hemispherical radiation)

Fan motor H outside the air flow		2531	3135	3140	4045
Model size					
Max. exhaust-air temp. 400 °C / 2 h					
Max. air-flow rate	m ³ /h	2,810	2,550	3,240	4,980
Sound power level, intake side	Lw	85	74	75	82
Sound pressure level	Lp	70	59	60	66
Sound power level, output side	Lw	90	78	80	85
Sound pressure level	Lp	70	58	60	65

Fan motor H outside the air flow		4050	5056	5063	6371
Model size					
Max. exhaust-air temp. 400 °C / 2 h					
Max. air-flow rate	m ³ /h	6,810	9,580	13,250	18,940
Sound power level, intake side	Lw	84	87	92	100
Sound pressure level	Lp	69	71	77	84
Sound power level, output side	Lw	88	91	96	101
Sound pressure level	Lp	68	71	76	81

Fan motor X outside the air flow - increased safety per  II 2 G c IIB T3		2531	3135	3140	4045	4050
Model size						
Max. exhaust-air temp. 40 °C						
Max. air-flow rate	m ³ /h	1,440	2,600	3,300	5,040	6,980
Sound power level, intake side	Lw	71	75	76	82	85
Sound pressure level	Lp	56	59	60	67	69
Sound power level, output side	Lw	74	77	78	84	87
Sound pressure level	Lp	54	57	58	64	67

Fan motor X outside the air flow - increased safety per  II 2 G c IIB T3		5056	5063	6371	6380
Model size					
Max. exhaust-air temp. 40 °C					
Max. air-flow rate	m ³ /h	6,340	8,640	12,490	16,610
Sound power level, intake side	Lw	76	81	89	86
Sound pressure level	Lp	61	65	73	71
Sound power level, output side	Lw	79	83	91	88
Sound pressure level	Lp	59	63	71	68

Fan motor Y outside the air flow - increased safety per  II 2 G c IIB + H ₂ T4		2531	4045	5056	5063
Model size					
Max. exhaust-air temp. 40 °C					
Max. air-flow rate	m ³ /h	1,480	5,110	6,340	8,830
Sound power level, intake side	Lw	72	82	76	81
Sound pressure level	Lp	56	67	61	66
Sound power level, output side	Lw	75	85	79	83
Sound pressure level	Lp	55	65	59	63

Measuring conditions for the sound pressure level Lp

Intake side: interval = 4 m; room volume = 2,500 m³; reverberation time = 2 s; directional factor = 2 (hemispherical radiation)

Output side: interval = 4 m; free field; directional factor = 2 (hemispherical radiation)

Model size	2022 / 2025						2528						2531					
Type for motor versions	L	M	H	X	Y	kg	L	M	H	X	Y	kg	L	M	H	X	Y	kg
10 Flat-roof mounting base, sheet steel	●					7	●	●				7	●	●	●	●	●	12
11 Duct through roof	●					20	●	●				20	●	●	●	●	●	37
12 Flat-roof mounting base, synthetic	●					6	●	●				6	●	●				8
13 Mounting strip for 11, 20	●					1	●	●				1	●	●	●	●	●	1
20F Sound-damping base, high - free intake	●					23	●	●				23	●	●	●	●	●	45
20D Sound-damping base, high - duct connection	●					23	●	●				23	●	●	●	●	●	45
21F Sound-damping base, flat - free intake	●					24	●	●				24	●	●	●	●	●	47
21D Sound-damping base, flat - duct connection	●					24	●	●				24	●	●	●	●	●	47
22 Sound-damping unit for 10, 11, 12	●					17	●	●				17	●	●	●	●	●	32
31 Contact protection grille, intake side	●					1	●	●				1	●	●	●	●	●	1
32 Intake fitting, flexible	●					1	●	●				2	●	●	●	●	●	2
33 Intake fitting, steel sheet	●					3	●	●				3	●	●	●	●	●	3
34 Counter flange, round, for user's piping	●					1	●	●				1	●	●	●	●	●	1
35 Inflow nozzle, only with 31	●					2	●	●				2	●	●	●	●	●	2
36 Servodriven closure flap, 230 V	●					3	●	●				3	●	●				3
37 Spacers 500...1,000 mm Top part	●					4	●	●				4	●	●	●	●	●	7
38 Bottom part	●					4	●	●				4	●	●	●	●	●	7

Model size	3135 / 3140						4045 / 5056						4050					
Type for motor versions	L	M	H	X	Y	kg	L	M	H	X	Y	kg	L	M	H	X	Y	kg
10 Flat-roof mounting base, sheet steel	●	●	●	●		12	●	●	●	●	●	19	●	●	●	●		19
11 Duct through roof	●	●	●	●		37	●	●	●	●	●	66	●	●	●	●		66
12 Flat-roof mounting base, synthetic	●	●				8	●	●				10	●	●				10
13 Mounting strip for 11, 20	●	●	●	●		1	●	●	●	●	●	2	●	●	●	●		2
20F Sound-damping base, high - free intake	●	●	●	●		45	●	●	●	●	●	71	●	●	●	●		71
20D Sound-damping base, high - duct connection	●	●	●	●		45	●	●	●	●	●	71	●	●	●	●		71
21F Sound-damping base, flat - free intake	●	●	●	●		47	●	●	●	●	●	74	●	●	●	●		74
21D Sound-damping base, flat - duct connection	●	●	●	●		47	●	●	●	●	●	74	●	●	●	●		74
22 Sound-damping unit for 10, 11, 12	●	●	●	●		32	●	●	●	●	●	49	●	●	●	●		49
31 Contact protection grille, intake side	●	●	●	●		1	●	●	●	●	●	1	●	●	●	●		1
32 Intake fitting, flexible	●	●	●	●		2	●	●	●	●	●	4	●	●	●	●		3
33 Intake fitting, steel sheet	●	●	●	●		4	●	●	●	●	●	9	●	●	●	●		7
34 Counter flange, round, for user's piping	●	●	●	●		1	●	●	●	●	●	1	●	●	●	●		1
35 Inflow nozzle, only with 31	●	●	●	●		3	●	●	●	●	●	7	●	●	●	●		5
36 Servodriven closure flap, 230 V	●	●				3	●	●				7	●	●				4
37 Spacers 500...1,000 mm Top part	●	●	●	●		7	●	●	●	●	●	14	●	●	●	●		14
38 Bottom part	●	●	●	●		7	●	●	●	●	●	14	●	●	●	●		14

Model size	5063						6371						6380							
	L	M	H	X	Y	kg	L	M	H	X	Y	kg	L	M	H	X	Y	kg		
Type for motor versions																				
10	Flat-roof mounting base, sheet steel					27	●	●	●	●	●	27	●	●	●	●	27	●	●	●
11	Duct through roof					97	●	●	●	●	●	97	●	●	●	●	97	●	●	●
12	Flat-roof mounting base, synthetic					13	●	●				13	●	●			13	●	●	
13	Mounting strip for 11, 20					2	●	●	●	●	●	2	●	●	●	●	2	●	●	●
20F	Sound-damping base, high - free intake					100	●	●	●	●	●	100	●	●	●	●	100	●	●	●
20D	Sound-damping base, high - duct connection					100	●	●	●	●	●	100	●	●	●	●	100	●	●	●
21F	Sound-damping base, flat - free intake					105	●	●	●	●	●	105	●	●	●	●	105	●	●	●
21D	Sound-damping base, flat - duct connection					105	●	●	●	●	●	105	●	●	●	●	105	●	●	●
22	Sound-damping unit for 10, 11, 12					71	●	●	●	●	●	71	●	●	●	●	71	●	●	●
31	Contact protection grille, intake side					1	●	●	●	●	●	1	●	●	●	●	1	●	●	●
32	Intake fitting, flexible					4	●	●	●	●	●	5	●	●	●	●	5	●	●	●
33	Intake fitting, steel sheet					9	●	●	●	●	●	11	●	●	●	●	11	●	●	●
34	Counter flange, round, for user's piping					1	●	●	●	●	●	2	●	●	●	●	2	●	●	●
35	Inflow nozzle, only with 31					7	●	●	●	●	●	9	●	●	●	●	9	●	●	●
36	Servodriven closure flap, 230 V					7	●	●				9	●	●			9	●	●	
37	Spacers 500...1,000 mm Top part					21	●	●	●	●	●	21	●	●	●	●	21	●	●	●
38	Bottom part					21	●	●	●	●	●	21	●	●	●	●	21	●	●	●



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