Application

IBF-I fans are used in a variety of mechanical ventilation installations, combining the advantages of axial fans – direction flow and radial - stable pressure, low noise level, high efficiency. Examples of applications are supply ventilation and exhaust:

- apartments,
- offices, shops, bars, cafes, restaurants.

Construction

- housing made of galvanized steel sheet with sound insulation, class A1 fire resistance, 50mm thick,
- flanges on the inlet and outlet sides assembly,
- inspection hatch,
- rotors with backward curved blades,
- rotors are made of plastic or aluminum sheet (depending on the model),
- working temperature -40°C + 70°C (depending on the model),
- installation in any rectangular position ventilation ducts.

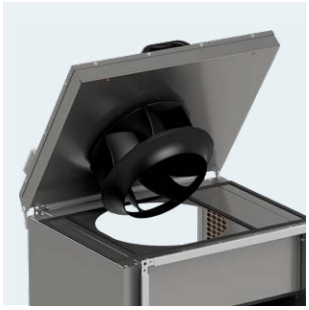
Electric motor

- asynchronous, single-phase 230V 50Hz with external rotor,
- asynchronous, three-phase 400V, 50Hz with external rotor,
- thermal protection against overload,
- for voltage regulation (single-phase motors),
- for frequency control (three-phase motors).

Special versions

- painting in a color other than the standard,
- painting in a higher corrosivity category.

Easy assembly
Standard rectangular flanges for easy installation.



Inspection flap
For ease of use.

Rotor
with sloped blades backward.

RELATED PRODUCTS

IBF
in-line duct fans

IBF/EC
version with EC motor

IBF-I/EC
version with EC motor

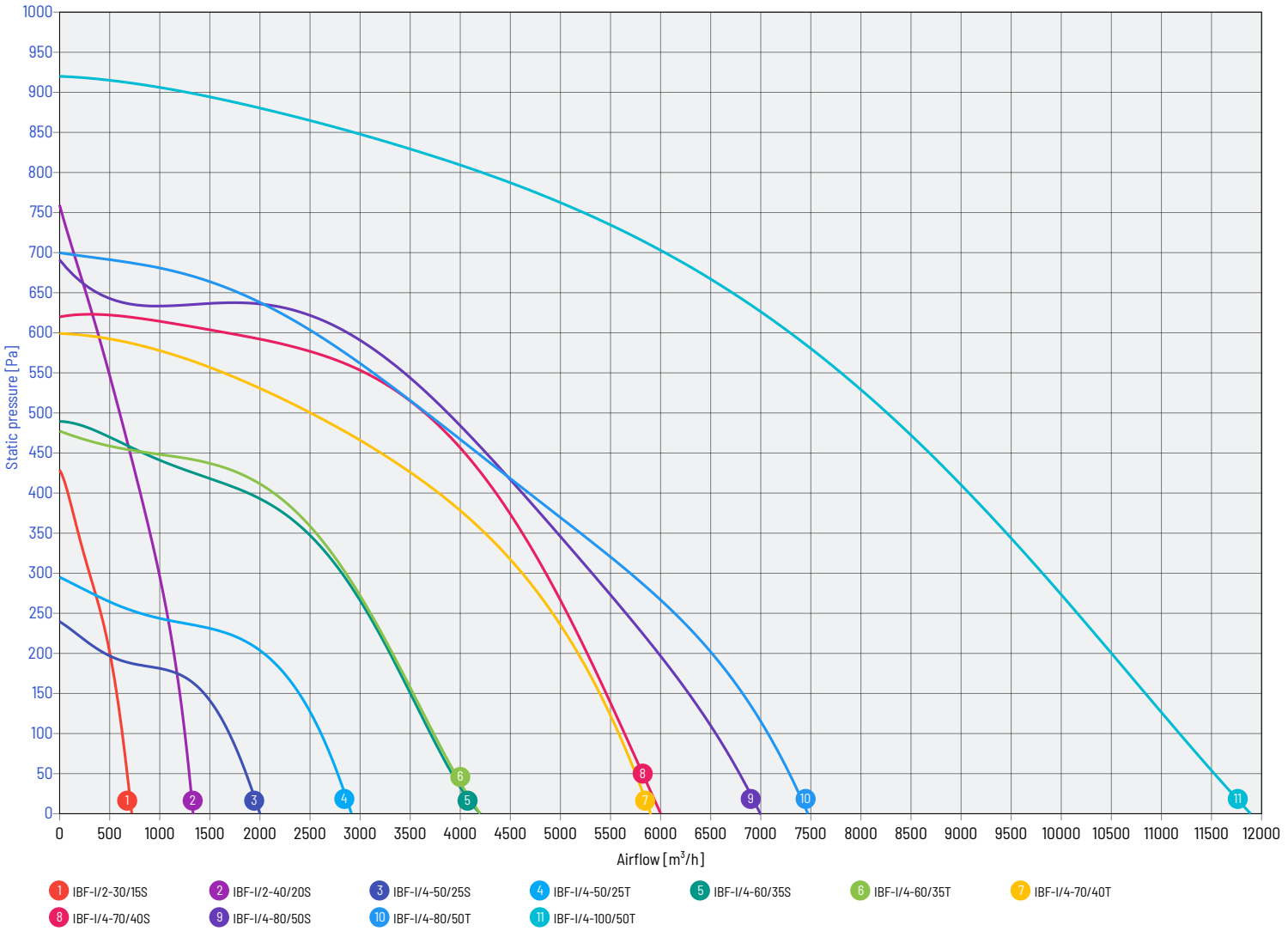
EBF
ATEX version

NOMINAL DATA

type	airflow max	pressure max	speed	voltage rated	current max abs.**	power max abs.	sound pressure level*	temperature operating min / max	weight	article number
IBF-I/2-30/15S	700 m³/h	430 Pa	2 500 rpm	230 V	0,52 A	120 W	52 dB(A)	-30 / 60 °C	15,0 kg	41010804
IBF-I/2-40/20S	1 350 m³/h	760 Pa	2 760 rpm	230 V	1,2 A	278 W	57 dB(A)	-40 / 70 °C	23,0 kg	41010814
IBF-I/4-50/25S	2 000 m³/h	240 Pa	1 370 rpm	230 V	1,1 A	220 W	58 dB(A)	-15 / 60 °C	31,0 kg	41010814
IBF-I/4-50/25T	2 900 m³/h	295 Pa	1 380 rpm	400 V	0,68 A	330 W	59 dB(A)	-15 / 60 °C	32,0 kg	41010826
IBF-I/4-60/35S	4 200 m³/h	490 Pa	1 310 rpm	230 V	2,7 A	650 W	58 dB(A)	-40 / 70 °C	60,0 kg	41010834
IBF-I/4-60/35T	4 200 m³/h	475 Pa	1 370 rpm	400 V	1,3 A	640 W	59 dB(A)	-40 / 70 °C	58,0 kg	41010836
IBF-I/4-70/40S	6 000 m³/h	620 Pa	1 345 rpm	230 V	5,3 A	1 270 W	60 dB(A)	-40 / 55 °C	82,0 kg	41010844
IBF-I/4-70/40T	5 900 m³/h	600 Pa	1 335 rpm	400 V	2 A	1 020 W	57 dB(A)	-40 / 70 °C	79,0 kg	41010846
IBF-I/4-80/50S	7 000 m³/h	690 Pa	1 345 rpm	230 V	5,3 A	1 270 W	60 dB(A)	-40 / 55 °C	113,0 kg	41010854
IBF-I/4-80/50T	7 500 m³/h	700 Pa	1 360 rpm	400 V	2,8 A	1 250 W	57 dB(A)	-15 / 60 °C	110,0 kg	41010856
IBF-I/4-100/50T	11 900 m³/h	920 Pa	1 305 rpm	400 V	4,9 A	2 770 W	59 dB(A)	-40 / 40 °C	131,0 kg	41010864

* Measurement made at a distance of 1.5m from the outlet, for Q = 2/3 * Qmax *
* value of the rated current may vary depending on the manufacturer of the electric motor used.

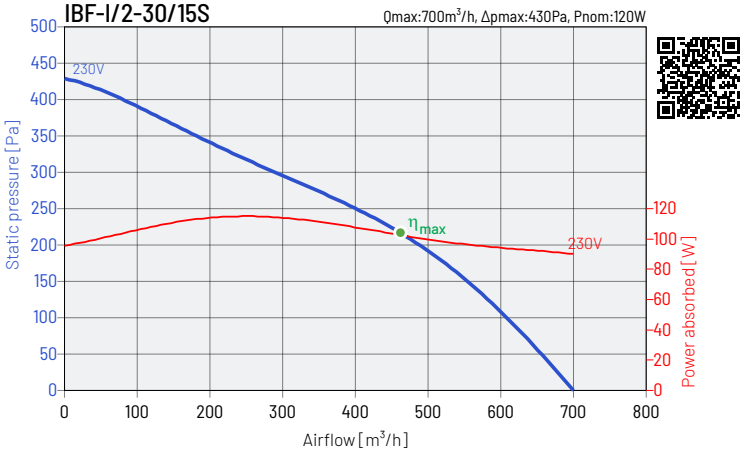
PERFORMANCE CHARACTERISTICS OF THE FANS



PERFORMANCE CHARACTERISTICS OF THE FANS

IBF-I/2-30/15S

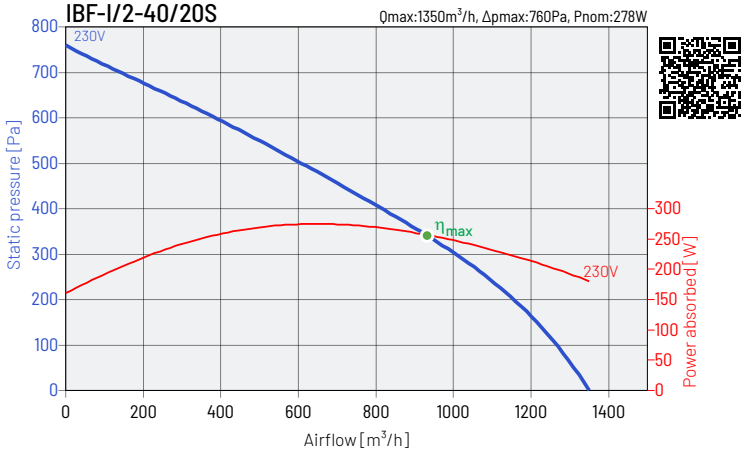
Qmax:700m³/h, Δpmax:430Pa, Pnom:120W



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	51	62	66	65	65	57	46	71	59
outlet	54	63	68	70	69	63	49	75	63
emitted	49	55	58	57	47	47	45	62	51

IBF-I/2-40/20S

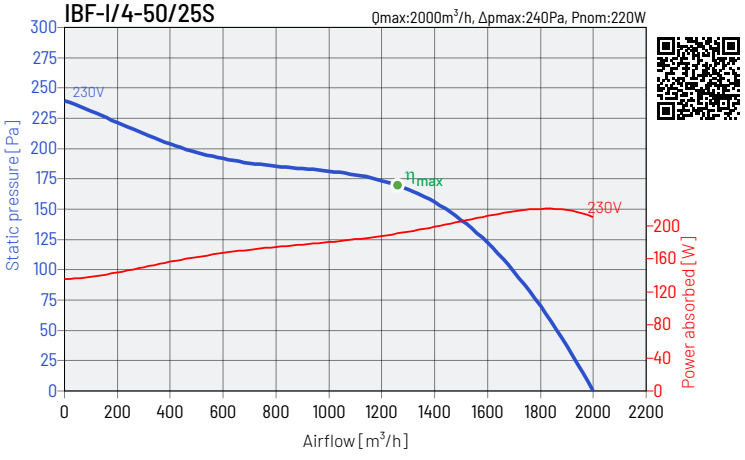
Qmax:1350m³/h, Δpmax:760Pa, Pnom:278W



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	65	65	66	67	64	58	52	73	61
outlet	64	66	68	69	69	68	60	76	64
emitted	57	58	59	59	56	57	49	66	54

IBF-I/4-50/25S

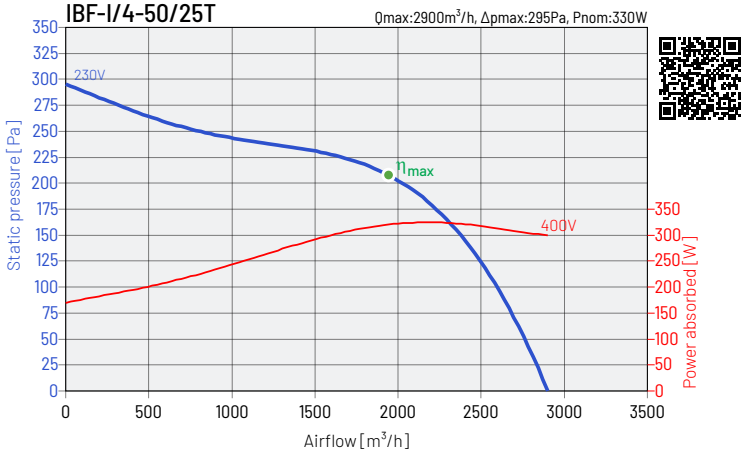
Qmax:2000m³/h, Δpmax:240Pa, Pnom:220W



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	71	71	71	69	69	67	58	78	66
outlet	74	73	75	75	74	68	63	82	70
emitted	61	64	62	60	55	52	48	68	57

IBF-I/4-50/25T

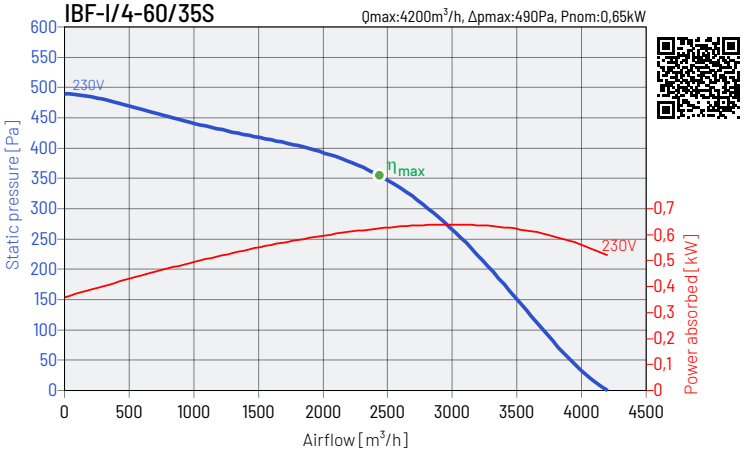
Qmax:2900m³/h, Δpmax:295Pa, Pnom:330W



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	73	73	72	69	69	70	62	79	68
outlet	74	73	75	75	74	71	67	82	70
emitted	64	64	62	60	55	52	51	69	58

IBF-I/4-60/35S

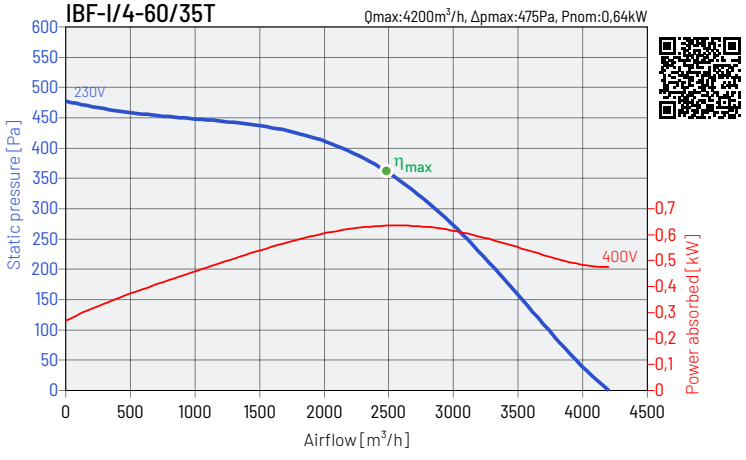
Qmax:4200m³/h, Δpmax:490Pa, Pnom:0,65kW



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	72	70	72	70	68	63	55	78	66
outlet	72	72	72	73	73	71	66	80	69
emitted	64	64	61	55	53	51	48	68	57

IBF-I/4-60/35T

Qmax:4200m³/h, Δpmax:475Pa, Pnom:0,64kW



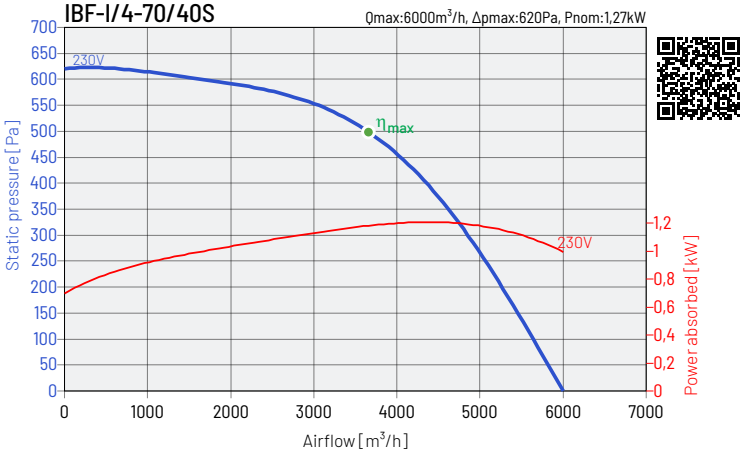
Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	73	71	73	71	68	64	56	79	67
outlet	73	72	73	73	74	72	66	81	69
emitted	65	65	62	56	54	53	48	69	58

The performance characteristics of the fans are determined for a medium with a temperature of 20°C. Sound pressure level dB (A), determined at a distance of 1,5 m

PERFORMANCE CHARACTERISTICS OF THE FANS

IBF-I/4-70/40S

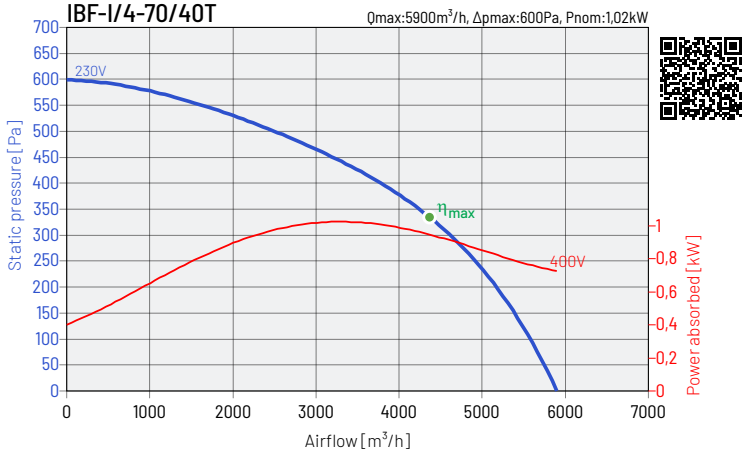
Qmax:6000m³/h, Δpmax:620Pa, Pnom:1,27kW



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	72	73	75	74	73	69	61	81	69
outlet	74	76	77	79	76	74	66	84	73
emitted	66	65	63	58	58	51	50	70	59

IBF-I/4-70/40T

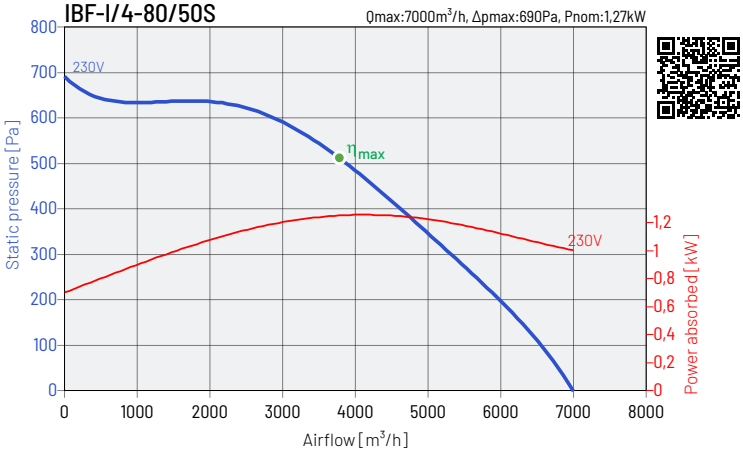
Qmax:5900m³/h, Δpmax:600Pa, Pnom:1,02kW



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	70	70	73	72	70	67	59	79	67
outlet	71	74	74	75	74	71	63	81	70
emitted	64	62	61	58	56	51	49	68	57

IBF-I/4-80/50S

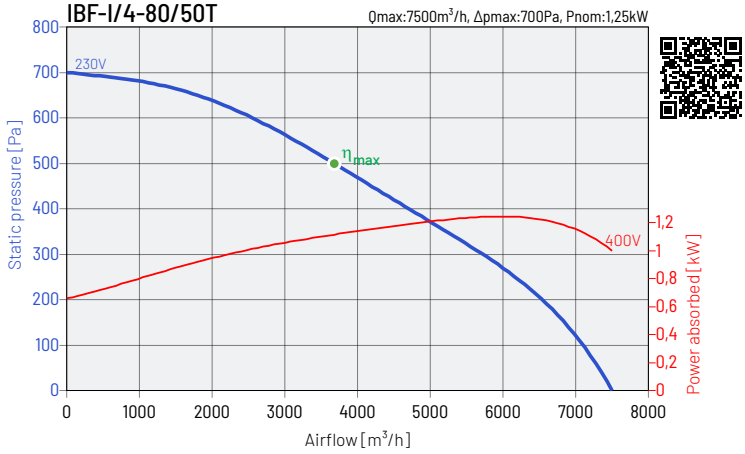
Qmax:7000m³/h, Δpmax:690Pa, Pnom:1,27kW



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	73	74	75	73	72	67	60	81	67
outlet	74	77	78	79	76	73	66	85	73
emitted	65	65	61	58	57	50	46	69	58

IBF-I/4-80/50T

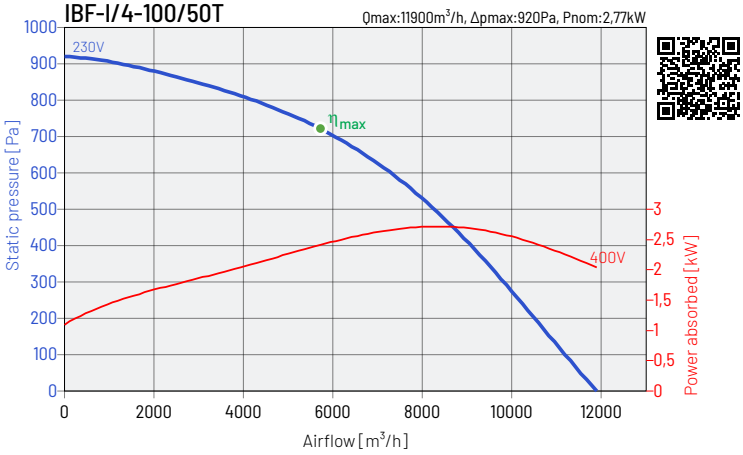
Qmax:7500m³/h, Δpmax:700Pa, Pnom:1,25kW



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	70	73	71	67	65	60	55	77	66
outlet	74	75	74	73	69	66	60	81	69
emitted	63	63	60	54	53	48	44	67	56

IBF-I/4-100/50T

Qmax:11900m³/h, Δpmax:920Pa, Pnom:2,77kW



Hz / dB(A)	125	250	500	1000	2000	4000	8000	L_{WA}	L_{PA}
inlet	68	68	64	63	73	75	59	78	67
outlet	69	71	69	66	73	83	63	84	73
emitted	62	62	57	52	56	61	48	67	56

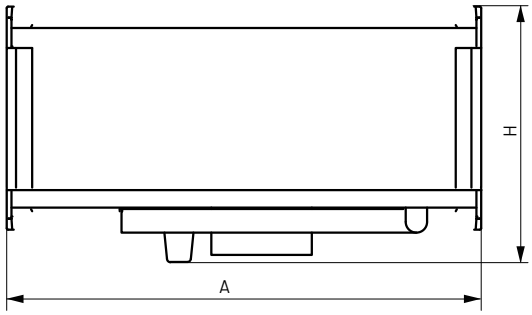
The performance characteristics of the fans are determined for a medium with a temperature of 20°C. Sound pressure level dB (A), determined at a distance of 1,5 m

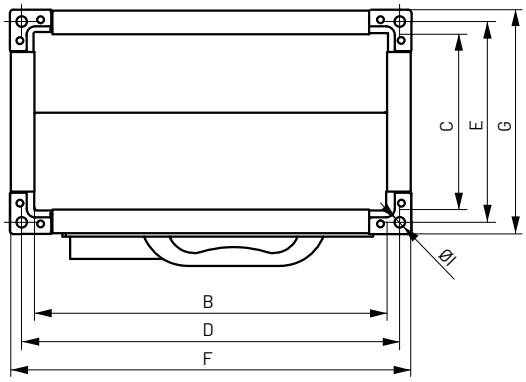
ECO PROJECT

	Type	IBF-I/2-30/15S	IBF-I/2-40/20S	IBF-I/4-50/25S	IBF-I/4-50/25T	IBF-I/4-60/35S	IBF-I/4-60/35T
a	**Supplier name**	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b	**Article number**	41010804	41010814	41010824	41010826	41010834	41010836
c	**Device category**	NRVU	NRVU	NRVU	NRVU	NRVU	NRVU
c	**Device type**	UVU	UVU	UVU	UVU	UVU	UVU
d	**Type of drive**	variable speed drive v	variable speed drive v	variable speed drive v	variable speed drive v	variable speed drive v	variable speed drive v
e	**Type of heat recovery system**	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
f	**Thermal efficiency of heat recovery [%]**	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
g	**Reference flow rate in NRVU [m³/s]**	0,12	0,27	0,35	0,5	0,65	0,6
h	**Electric power input [kW]**	0,1	0,25	0,19	0,31	0,61	0,62
i	**SFPint [W/(m³/s)]**	853	938	547	620	934	1030
j	**Face velocity [m/s]**	0,69	1,21	1,35	1,74	1,83	1,83
k	**Δps, ext [Pa]**	237	335	171	220	365	410
l	**Δps, int [Pa]**	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
m	**Δps, add [Pa]**	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
n	**Static efficiency of fans [%]**	28,1	35,7	31,9	35,5	39,1	39,8
o	**Maximum external leakage rate [%]**	0	0	0	0	0	0
p	**Energy performance**	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
q	**Visual filter warning**	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
r	**L_{WA} [dB(A)]**	63	66	69	69	69	70
s	**Internet address**	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu

	Type	IBF-I/4-70/40S	IBF-I/4-70/40T	IBF-I/4-80/50S	IBF-I/4-80/50T	IBF-I/4-100/50T
a	**Supplier name**	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b	**Article number**	41010844	41010846	41010854	41010856	41010864
c	**Device category**	NRVU	NRVU	NRVU	NRVU	NRVU
c	**Device type**	UVU	UVU	UVU	UVU	UVU
d	**Type of drive**	variable speed drive v	variable speed drive v	variable speed drive v	variable speed drive v	variable speed drive v
e	**Type of heat recovery system**	not applicable	not applicable	not applicable	not applicable	not applicable
f	**Thermal efficiency of heat recovery [%]**	not applicable	not applicable	not applicable	not applicable	not applicable
g	**Reference flow rate in NRVU [m³/s]**	1,07	1,14	0,86	1,11	1,79
h	**Electric power input [kW]**	1,18	0,98	1,2	1,15	2,5
i	**SFPint [W/(m³/s)]**	1103	856	1393	1035	1395
j	**Face velocity [m/s]**	2,7	2,87	2,18	2,72	3,59
k	**Δps, ext [Pa]**	481	369	605	472	675
l	**Δps, int [Pa]**	not applicable	not applicable	not applicable	not applicable	not applicable
m	**Δps, add [Pa]**	not applicable	not applicable	not applicable	not applicable	not applicable
n	**Static efficiency of fans [%]**	43,4	43,2	43,4	45,4	48,4
o	**Maximum external leakage rate [%]**	0	0	0	0	0
p	**Energy performance**	not applicable	not applicable	not applicable	not applicable	not applicable
q	**Visual filter warning**	not applicable	not applicable	not applicable	not applicable	not applicable
r	**L_{WA} [dB(A)]**	70	68	71	67	69
s	**Internet address**	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu

DIMENSIONS

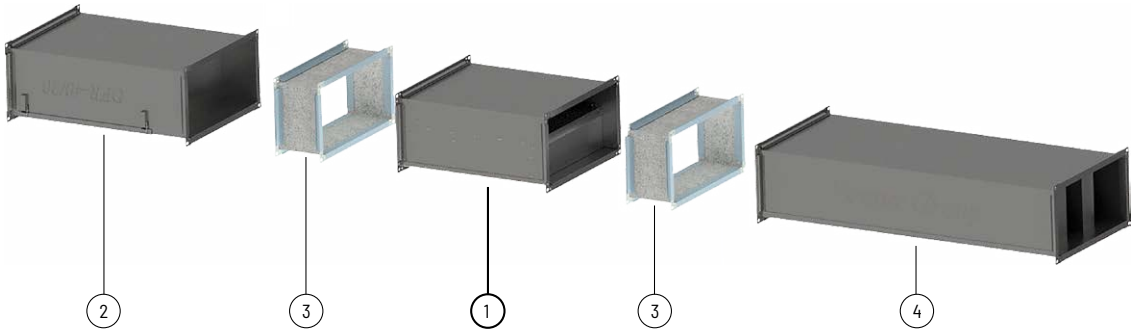




type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	ØI mm
IBF-I/2-30/15S	402	300	150	320	170	410	260	304	9
IBF-I/2-40/20S	502	400	200	420	220	510	310	354	9
IBF-I/4-50/25S	532	500	250	520	270	610	360	404	9
IBF-I/4-50/25T	532	500	250	520	270	610	360	404	9
IBF-I/4-60/35S	724	600	350	620	370	710	460	504	9

type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	ØI mm
IBF-I/4-60/35T	724	600	350	620	370	710	460	504	9
IBF-I/4-70/40S	724	700	400	722	420	812	510	554	9
IBF-I/4-70/40T	724	700	400	722	420	812	510	554	9
IBF-I/4-80/50S	880	800	500	822	522	912	612	656	9
IBF-I/4-80/50T	880	800	500	822	522	912	612	656	9
IBF-I/4-100/50T	1 000	1 000	500	1 029	529	1 112	612	656	13

MOUNTING ACCESSORIES



1 | 2 | (2) | (2) | (2) | 3 | 4

type	duct filter DFR	cartridge filter EU3	cartridge filter EU5	cartridge filter EU7	flexible connector IAE-PL	silencer RCS
IBF-I/2-30/15	DFR-30/15	EU3 | 30/15 cm	EU5 | 30/15 cm	EU7 | 30/15 cm	IAE-PL-190	RCS-30/15
IBF-I/2-40/20	DFR-40/20	EU3 | 40/20 cm	EU5 | 40/20 cm	EU7 | 40/20 cm	IAE-PL-200	RCS-40/20
IBF-I/4-50/25	DFR-50/25	EU3 | 50/25 cm	EU5 | 50/25 cm	EU7 | 50/25 cm	IAE-PL-225	RCS-50/25
IBF-I/4-60/35	DFR-60/35	EU3 | 60/35 cm	EU5 | 60/35 cm	EU7 | 60/35 cm	IAE-PL-315	RCS-60/35
IBF-I/4-70/40	DFR-70/40	EU3 | 70/40 cm	EU5 | 70/40 cm	EU7 | 70/40 cm	IAE-PL-355	RCS-70/40
IBF-I/4-80/50	DFR-80/50	EU3 | 80/50 cm	EU5 | 80/50 cm	EU7 | 80/50 cm	IAE-PL-400	RCS-80/50
IBF-I/4-100/50	DFR-100/50	EU3 | 100/50 cm	EU5 | 100/50 cm	EU7 | 100/50 cm	IAE-PL-450	RCS-100/50

Article numbers

40520910 DFR-30/15	**40520913** EU3 | 30/15cm	**40520915** EU5 | 30/15cm	**40520917** EU7 | 30/15cm	**40532800** IAE-PL-190	**40521900** RCS-30/15
40520920 DFR-40/20	**40520923** EU3 | 40/20cm	**40520925** EU5 | 40/20cm	**40520927** EU7 | 40/20cm	**40532810** IAE-PL-200	**40521910** RCS-40/20
40520930 DFR-50/25	**40520933** EU3 | 50/25cm	**40520935** EU5 | 50/25cm	**40520937** EU7 | 50/25cm	**40532820** IAE-PL-225	**40521920** RCS-50/25
40520960 DFR-60/35	**40520963** EU3 | 60/35cm	**40520965** EU5 | 60/35cm	**40520967** EU7 | 60/35cm	**40532850** IAE-PL-315	**40521950** RCS-60/35
40520970 DFR-70/40	**40520973** EU3 | 70/40cm	**40520975** EU5 | 70/40cm	**40520977** EU7 | 70/40cm	**40532860** IAE-PL-355	**40521960** RCS-70/40
40520980 DFR-80/50	**40520983** EU3 | 80/50cm	**40520985** EU5 | 80/50cm	**40520987** EU7 | 80/50cm	**40532870** IAE-PL-400	**40521970** RCS-80/50
40520990 DFR-100/50	**40520993** EU3 | 100/50cm	**40520995** EU5 | 100/50cm	**40520997** EU7 | 100/50cm	**40532880** IAE-PL-450	**40521980** RCS-100/50

ELECTRICAL ACCESSORIES

type	wall thermostat	duct thermostat	air quality sensor	humidistat	thyristor regulator	thyristor regulator
	TS	**TK-21**	**SQA**	**HIG-2**	**REB N**	**REB NE**
IBF-I/2-30/15S	TS	TK-21	SQA	HIG-2	REB-1 N	REB-1 NE
IBF-I/2-40/20S	TS	TK-21	SQA	HIG-2	REB-2,5 N	REB-2,5 NE
IBF-I/4-50/25S	TS	TK-21	SQA	HIG-2	REB-2,5 N	REB-2,5 NE
IBF-I/4-50/25T	TS + DILM7	TK-21+ DILM7	SQA + DILM7	HIG-2 + DILM7	-	-
IBF-I/4-60/35S	TS	TK-21	SQA	HIG-2	REB-5	-
IBF-I/4-60/35T	TS + DILM7	TK-21+ DILM7	SQA + DILM7	HIG-2 + DILM7	-	-
IBF-I/4-70/40S	TS	TK-21	SQA	HIG-2	REB-10	-
IBF-I/4-70/40T	TS + DILM7	TK-21+ DILM7	SQA + DILM7	HIG-2 + DILM7	-	-
IBF-I/4-80/50S	TS	TK-21	SQA	HIG-2	REB-10	-
IBF-I/4-80/50T	TS + DILM7	TK-21+ DILM7	SQA + DILM7	HIG-2 + DILM7	-	-
IBF-I/4-100/50T	TS + DILM7	TK-21+ DILM7	SQA + DILM7	HIG-2 + DILM7	-	-

type	thyrist. reg. 2-pos 6-speed	transformer regulator	transformer regulator	transformer regulator	2-speed transformer regulator	inverter
	RND-1	**RMB**	**RVS**	**RMT**	**SC2A**	**L**
IBF-I/2-30/15S	RND-1	RMB-1,5	RVS-1,5	-	SC2A1-15L25	-
IBF-I/2-40/20S	RND-1	RMB-1,5	RVS-1,5	-	SC2A1-15L25	-
IBF-I/4-50/25S	RND-1	RMB-1,5	RVS-1,5	-	SC2A1-15L25	-
IBF-I/4-50/25T	-	-	-	RMT-1,5	SC2A4-15L55	L 0.4kW
IBF-I/4-60/35S	-	RMB-3,5	RVS-7	-	SC2A1-35L25	-
IBF-I/4-60/35T	-	-	-	RMT-2,5	SC2A4-25L55	L 0.75kW
IBF-I/4-70/40S	-	RMB-8	RVS-7	-	SC2A1-75L25	-
IBF-I/4-70/40T	-	-	-	RMT-2,5	SC2A4-25L55	L 1.5kW
IBF-I/4-80/50S	-	RMB-8	RVS-7	-	SC2A1-75L25	-
IBF-I/4-80/50T	-	-	-	RMT-5	SC2A4-40L55	L 1.5kW
IBF-I/4-100/50T	-	-	-	RMT-8	SC2A4-60L55	L 4.0kW

Article numbers

40025345 TS
40025320 TK-21
40025140 SQA
40025150 HIG-2
91040997 DILM7

40025010 REB-1 N
40025020 REB-1 NE
40025030 REB-2,5 N
40025040 REB-2,5 NE
40025051 REB-5
40025055 REB-10
40025630 RND-1

40025060 RMB-1,5
40025070 RMB-3,5
40025080 RMB-8
40025232 RVS-1,5
40025236 RVS-7
40025100 RMT-1,5
40025105 RMT-2,5
40025115 RMT-5
40025120 RMT-8

40025251 SC2A1-15L25
40025255 SC2A1-35L25
40025258 SC2A1-75L25
40025270 SC2A4-15L55
40025272 SC2A4-25L55
40025274 SC2A4-40L55
40025276 SC2A4-60L55

40016302 L 0.4kW
40016312 L 0.75kW
40016322 L 1.5kW
40016352 L 4.0kW