

Manufactured in accordance with TU 4861-004-64600223-12

2300 – 130000 m³/hour

- ◆ Impeller with backward-curved blades
- ◆ Welded housing with powder paint coating
- ◆ Galvanized steel housing
- ◆ Bilateral emission of removable smoke

Low energy consumption.

Some fans are admitted to operate in the general ventilation mode at the speed decreased by at least 25% against specified in the catalog (for example, using frequency converter). Application capabilities are to be agreed with the manufacturer.

Equipment with dual-speed induction motors (optional).

Capability of compact installation of several fans on a roof.

Exceptional aerodynamic intensity of the “Б”-type impellers.



Version “П” (“P”)

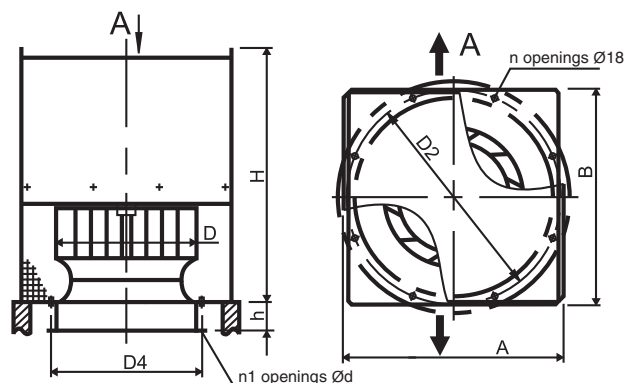
It is recommended to install ЗПД (ZPD) screens set providing weather protection in case of fan mounting in places with strong lateral wind (see p.168).

Explosion-proof version is available.

Fans are denoted as follows:

ВКРН – АП - 3,15 В ДУ 400 - 01 - У1

- Climatic version;
- Modification index number;
- Maximum temperature of the handled medium;
- Application code (smoke exhaustion);
- Special enclosure type (explosion-proof);
- Impeller diameter in decimeters;
- Housing version (П);
- Aerodynamic power index (А, Б or В);
- Impeller blades type: Н – Backward-curved blades;
- Fan type (Radial roof fan).



WARNING! ВКРН В ДУ (VKRN V DU, explosion-proof version) is available with “П”-type housing only due to oversized dimensions of explosion-proof motors and impossibility to mount them in the “Д”-type housing.

№	Fan Type	Dimensions [mm]										Weight [kg]
		A	B	D	D2	D4	H	h	d	n	n1	
1	ВКРН-А/Б-3,15ДУ-00	470	470	315	470	345	477/509	100	7	4	4	30,6/33,1
2	ВКРН-А/Б-3,55ДУ-00	560	560	355	585	385	570/610	100	7	4	4	40/43
3	ВКРН-А/Б-4ДУ-00	560	560	400	585	430	565/605	130	7	4	4	58,7/60,7
4	ВКРН-А/Б-4,5ДУ-00	650	650	450	665	480	630/675	130	7	8	5	71/80
5	ВКРН-А/Б-5ДУ-00	755	755	500	772	530	670/720	140	7	8	5	112,3/130
6	ВКРН-А/Б-5,6ДУ-00	755	755	560	772	590	800/855	130	10	8	6	140,2/153
7	ВКРН-А/Б-6,3ДУ-00	780	755	630	772	660	813/910	200	10	8	6	143/167
8	ВКРН-А/Б-6,3ДУ-01	780	755	630	772	660	813/910	200	10	8	6	171/206
9	ВКРН-А/Б-7,1ДУ-00	870	820	710	772	660	1090/1160	160	10	8	6	211/222
10	ВКРН-А/Б/В-7,1ДУ-01	870	820	710	772	660	1090/1160/1090	160	10	8	6	249/304/234
11	ВКРН-А/Б/В-8ДУ-00	1080	1080	800	1072	830	1160/1240/1160	197	10	8	6	281/413/270
12	ВКРН-А/Б-8ДУ-01	1080	1080	800	1072	830	1160/1240	197	10	8	6	305/341
13	ВКРН-А-8ДУ-02	1080	1080	800	1072	830	1160	197	10	8	6	382
14	ВКРН-А/Б-9ДУ-00	1095	1080	900	1072	940	1200/1290	130	10	8	8	330/362
15	ВКРН-А/Б-9ДУ-01	1095	1080	900	1072	940	1200/1290	130	10	8	8	383/400
16	ВКРН-А-9ДУ-02	1095	1080	900	1072	940	1200	130	10	8	8	455
17	ВКРН-А/Б-10ДУ-00	1290	1250	1000	1272	1040	1425/1525	130	10	8	8	419/559
18	ВКРН-А/Б-10ДУ-01	1290	1250	1000	1272	1040	1425/1525	130	10	8	8	445/610
19	ВКРН-А/Б-11,2ДУ-00	1350	1290	1120	1272	1165	1460/1702	190	12	8	9	582/652
20	ВКРН-А/Б/В-11,2ДУ-01	1350	1290	1120	1272	1165	1460/1702/1460	190	12	8	9	737/782/649
21	ВКРН-А/Б/В-12,5ДУ-00	1530	1485	1250	1522	1295	1537/1665/1537	130	12	8	9	667/811/660
22	ВКРН-А/Б-12,5ДУ-01	1530	1485	1250	1522	1295	1537/1665	130	12	8	9	782/911
23	ВКРН-А-12,5ДУ-02	1530	1485	1250	1522	1295	1537	130	12	8	9	1041
24	ВКРН-А/Б-14ДУ-00	1680	1680	1400	1522	1295	1785/1925	130	12	8	9	1001/1051
25	ВКРН-А/Б-14ДУ-01	1680	1680	1400	1522	1295	1785/1925	130	12	8	9	1189/1391

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- ◆ Bilateral emission of removable smoke

Low energy consumption.

Some fans are admitted to operate in the general ventilation mode at the speed decreased by at least 25% against specified in the catalog (for example, using frequency converter). Application capabilities are to be agreed with the manufacturer.

Equipment with dual-speed induction motors (optional). Capability of compact installation of several fans on a roof.

Exceptional aerodynamic intensity of the “Б”-type impellers.

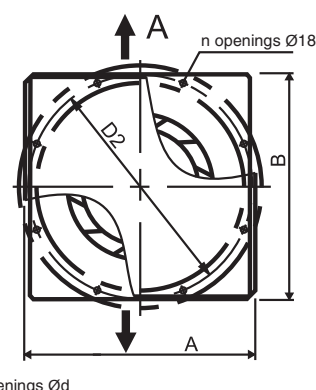
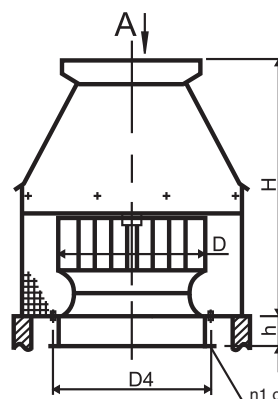
It is recommended to install ЗПД (ZPD) screens set providing weather protection in case of fan mounting in places with strong lateral wind (see p.168).



Version “Д” (“D”)



ЗПД (ZPD) screen (optional)



Fans are denoted as follows:

ВКРН - А Д - 3,15 ДУ 400 - 01 - У1

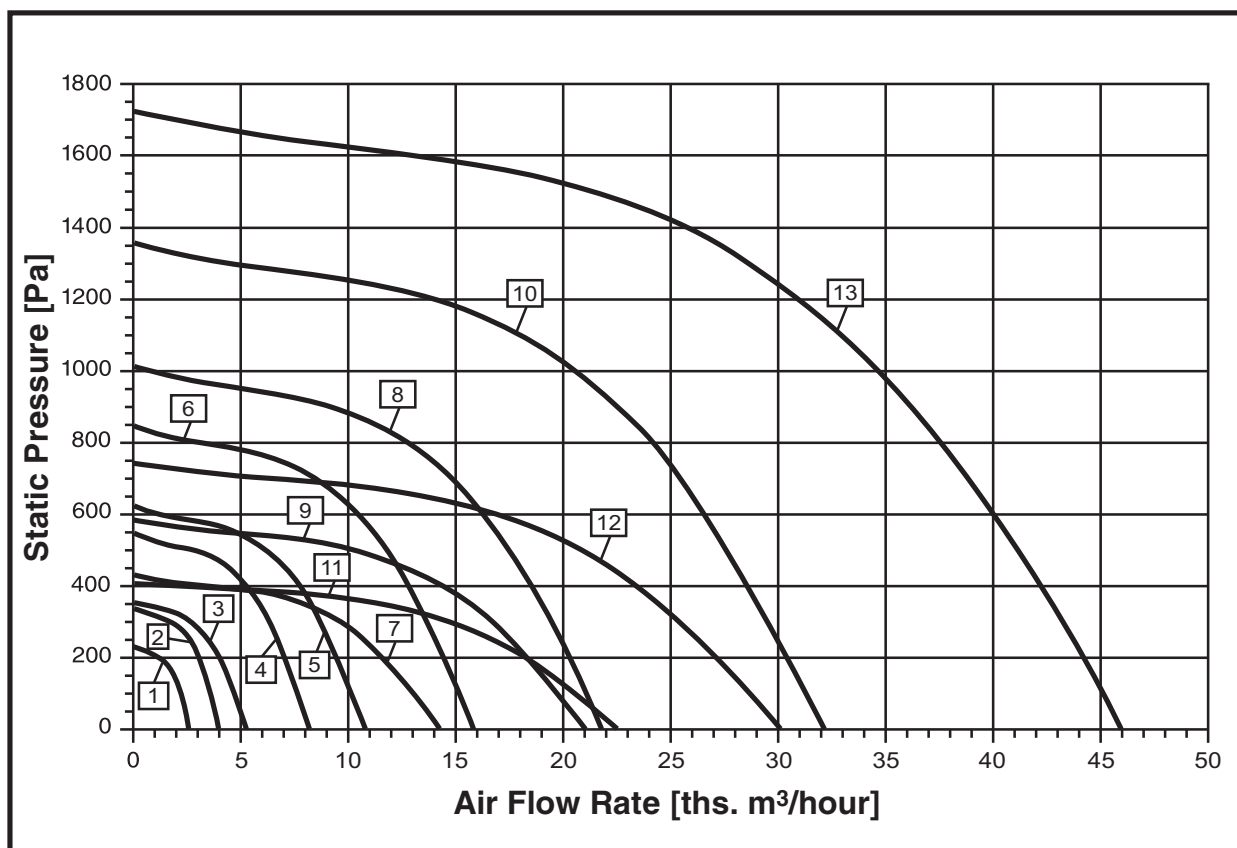
- Climatic version;
- Modification index number;
- Maximum temperature of the handled medium;
- Application code (smoke exhaustion);
- Impeller diameter in decimeters;
- Housing version (Д);
- Aerodynamic power index (А, Б or В);
- Impeller blades type: Н – Backward-curved blades;
- Fan type (Radial roof fan).

WARNING! ВКРН В ДУ (VKRN V DU, explosion-proof version) is available with “П”-type housing only due to oversized dimensions of explosion-proof motors and impossibility to mount them in the “Д”-type housing.

№	Fan Type	Dimensions [mm]										Weight [kg]
		A	B	D	D2	D4	H	h	d	n	n1	
1	ВКРН-А/Б-3,15ДУ-00	470	470	315	470	345	477/509	100	7	4	4	26/28,5
2	ВКРН-А/Б-3,55ДУ-00	560	560	355	585	385	570/610	100	7	4	4	39/42
3	ВКРН-А/Б-4ДУ-00	560	560	400	585	430	565/605	130	7	4	4	50,7/59,7
4	ВКРН-А/Б-4,5ДУ-00	650	650	450	665	480	630/675	130	7	8	5	67/76
5	ВКРН-А/Б-5ДУ-00	755	755	500	772	530	670/720	140	7	8	5	105,9/123,6
6	ВКРН-А/Б-5,6ДУ-00	755	755	560	772	590	800/855	130	10	8	6	132,7/146
7	ВКРН-А/Б-6,3ДУ-00	780	755	630	772	660	813/910	200	10	8	6	131/155
8	ВКРН-А/Б-6,3ДУ-01	780	755	630	772	660	813/910	200	10	8	6	159/194
9	ВКРН-А/Б-7,1ДУ-00	870	820	710	772	660	1090/1160	160	10	8	6	202/213
10	ВКРН-А/Б/В-7,1ДУ-01	870	820	710	772	660	1090/1160/1090	160	10	8	6	240/295/225
11	ВКРН-А/Б/В-8ДУ-00	1080	1080	800	1072	830	1160/1240/1160	197	10	8	6	249/382/240
12	ВКРН-А/Б-8ДУ-01	1080	1080	800	1072	830	1160/1240	197	10	8	6	273/309
13	ВКРН-А-8ДУ-02	1080	1080	800	1072	830	1160	197	10	8	6	350
14	ВКРН-А/Б-9ДУ-00	1095	1080	900	1072	940	1200/1290	130	10	8	8	311/343
15	ВКРН-А/Б-9ДУ-01	1095	1080	900	1072	940	1200/1290	130	10	8	8	364/406
16	ВКРН-А-9ДУ-02	1095	1080	900	1072	940	1200	130	10	8	8	435
17	ВКРН-А/Б-10ДУ-00	1290	1250	1000	1272	1040	1425/1525	130	10	8	8	413/553
18	ВКРН-А/Б-10ДУ-01	1290	1250	1000	1272	1040	1425/1525	130	10	8	8	438/604
19	ВКРН-А/Б-11,2ДУ-00	1350	1290	1120	1272	1165	1460/1702	190	12	8	9	549/619
20	ВКРН-А/Б/В-11,2ДУ-01	1350	1290	1120	1272	1165	1460/1702/1460	190	12	8	9	704/749/616
21	ВКРН-А/Б/В-12,5ДУ-00	1530	1485	1250	1522	1295	1537/1665/1537	130	12	8	9	605/777/600
22	ВКРН-А/Б-12,5ДУ-01	1530	1485	1250	1522	1295	1537/1665	130	12	8	9	720/877
23	ВКРН-А-12,5ДУ-02	1530	1485	1250	1522	1295	1537	130	12	8	9	971
24	ВКРН-А/Б-14ДУ-00	1680	1680	1400	1522	1295	1785/1925	130	12	8	9	960/1010
25	ВКРН-А/Б-14ДУ-01	1680	1680	1400	1522	1295	1785/1925	130	12	8	9	1148/1350

CHARACTERISTICS SUMMARY DIAGRAM

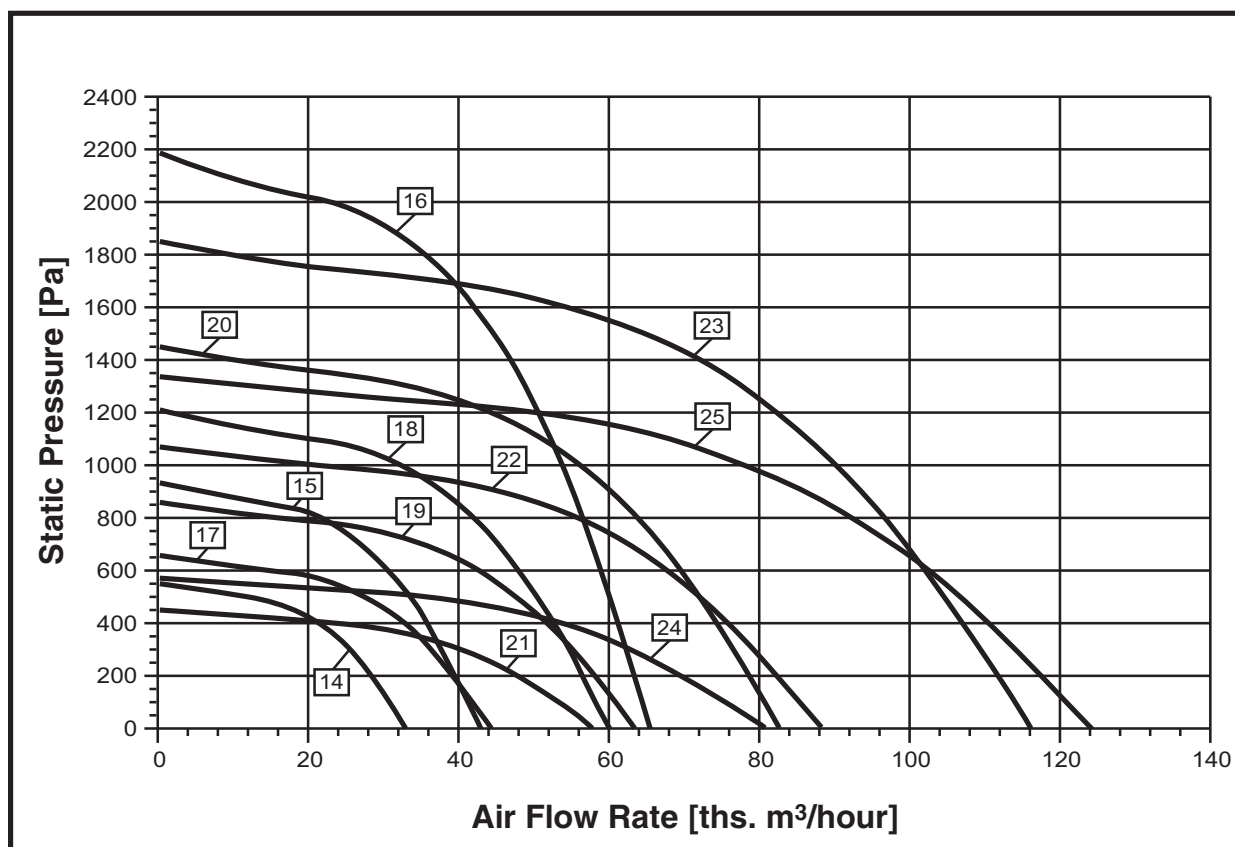
2300 – 44000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
1	ВКРН-АП/АД-3,15ДУ-00	АИР56В4	1350	0,18
2	ВКРН-АП/АД-3,55ДУ-00	АИР63В4	1450	0,37
3	ВКРН-АП/АД-4ДУ-00	АИР71А4	1320	0,55
4	ВКРН-АП/АД-4,5ДУ-00	АИР80А4	1450	1,1
5	ВКРН-АП/АД-5ДУ-00	АИР80В4	1395	1,5
6	ВКРН-АП/АД-5,6ДУ-00	АИР100S4	1450	3
7	ВКРН-АП/АД-6,3ДУ-00	АИР90L6	920	1,5
8	ВКРН-АП/АД-6,3ДУ-01	АИР112М4	1410	5,5
9	ВКРН-АП/АД-7,1ДУ-00	АИР112МА6	950	3
10	ВКРН-АП/АД-7,1ДУ-01	АИР132М4	1450	11
11	ВКРН-АП/АД-8ДУ-00	АИР112МА8	710	2,2
12	ВКРН-АП/АД-8ДУ-01	АИР132S6	950	5,5
13	ВКРН-АП/АД-8ДУ-02	АИР160S4	1450	15
	ВКРН-АП/АД-8ДУ-03	АИР160М4	1450	18,5

CHARACTERISTICS SUMMARY DIAGRAM

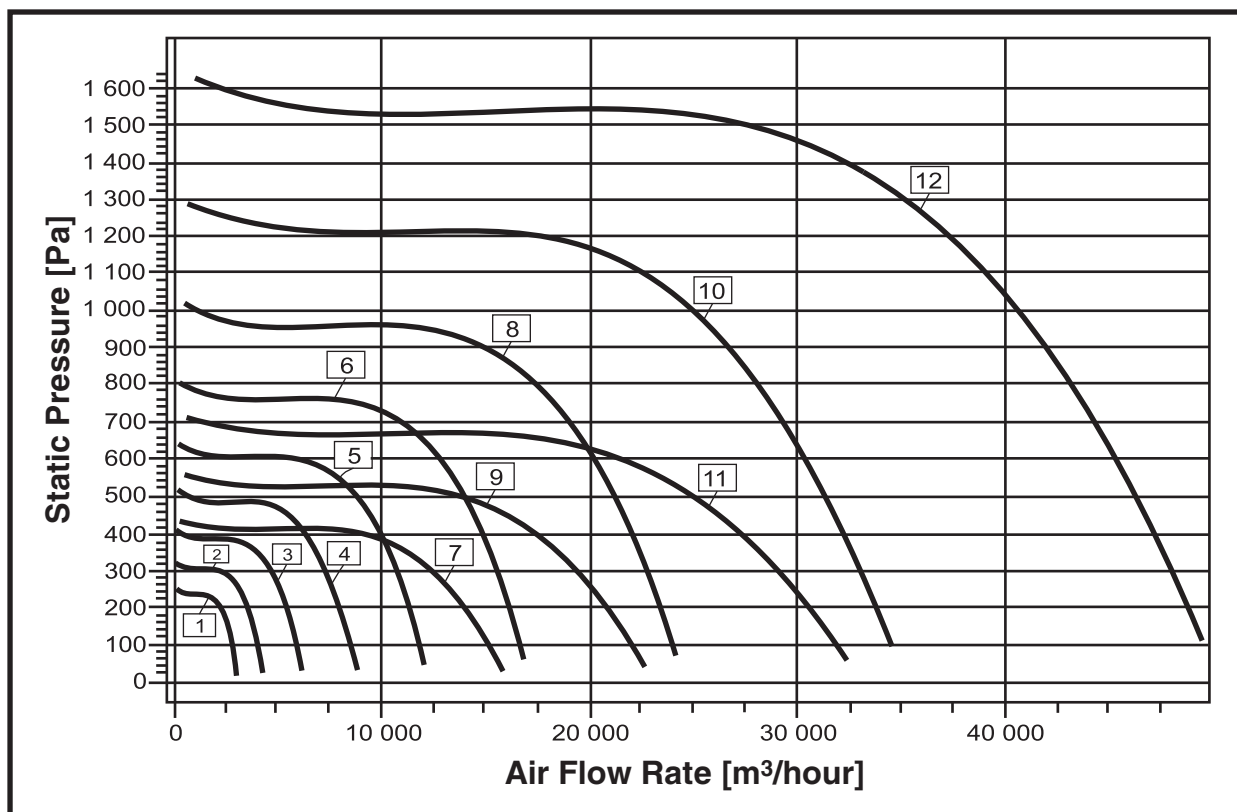
2300 – 116000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
14	ВКРН-АП/АД-9ДУ-00	АИР132S8	730	4
15	ВКРН-АП/АД-9ДУ-01	АИР160S6	950	11
16	ВКРН-АП/АД-9ДУ-02	АИР180M4	1450	30
17	ВКРН-АП/АД-10ДУ-00	АИР132M8	715	5,5
18	ВКРН-АП/АД-10ДУ-01	АИР160M6	970	15
19	ВКРН-АП/АД-11,2ДУ-00	АИР160M8	730	11
20	ВКРН-АП/АД-11,2ДУ-01	АИР200L6	950	30
21	ВКРН-АП/АД-12,5ДУ-00	АИР160M12	475	5,5
22	ВКРН-АП/АД-12,5ДУ-01	АИР200M8	730	18,5
23	ВКРН-АП/АД-12,5ДУ-02	АИР250S6	960	45
24	ВКРН-АП/АД-14ДУ-00	АИР180MB12	475	9
25	ВКРН-АП/АД-14ДУ-01	АИР250S8	730	37

CHARACTERISTICS SUMMARY DIAGRAM

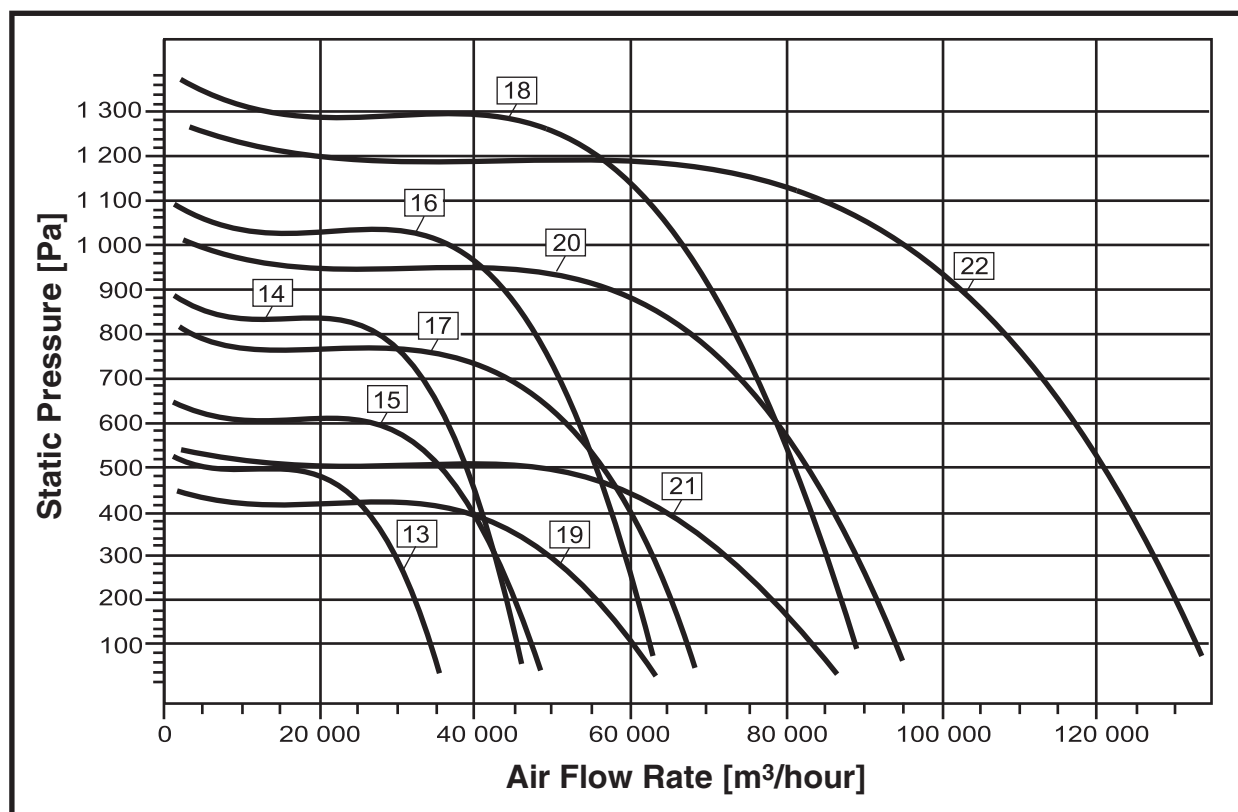
2500 – 50000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
1	ВКРН-БП/БД-3,15ДУ-00	АИР63А4	1450	0,25
2	ВКРН-БП/БД-3,55ДУ-00	АИР71А4	1450	0,55
3	ВКРН-БП/БД-4ДУ-00	АИР71В4	1450	0,75
4	ВКРН-БП/БД-4,5ДУ-00	АИР80В4	1450	1,5
5	ВКРН-БП/БД-5ДУ-00	АИР90L4	1450	2,2
6	ВКРН-БП/БД-5,6ДУ-00	АИР100L4	1450	4
7	ВКРН-БП/БД-6,3ДУ-00	АИР100L6	950	2,2
8	ВКРН-БП/БД-6,3ДУ-01	АИР132S4	1450	7,5
9	ВКРН-БП/БД-7,1ДУ-00	АИР112MB6	950	4
10	ВКРН-БП/БД-7,1ДУ-01	АИР160S4	1450	15
11	ВКРН-БП/БД-8ДУ-00	АИР132M6	950	7,5
12	ВКРН-БП/БД-8ДУ-01	АИР180S4	1450	22

CHARACTERISTICS SUMMARY DIAGRAM

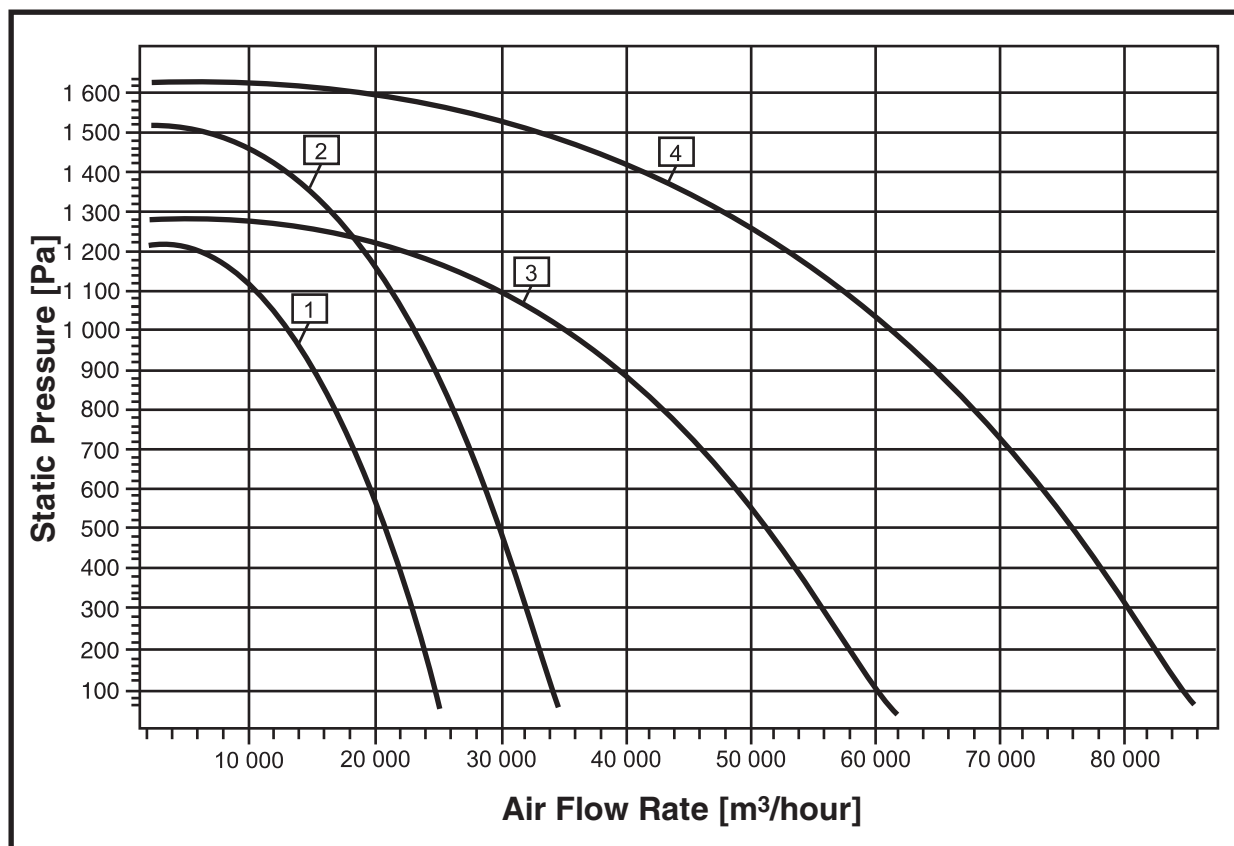
2500 – 130000 m³/hour



No	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
13	ВКРН-БП/БД-9ДУ-00	AIP132M8	730	5,5
14	ВКРН-БП/БД-9ДУ-01	AIP160S6	950	11
15	ВКРН-БП/БД-10ДУ-00	AIP160S8	730	7,5
16	ВКРН-БП/БД-10ДУ-01	AIP180M6	950	18,5
17	ВКРН-БП/БД-11,2ДУ-00	AIP180M8	730	15
18	ВКРН-БП/БД-11,2ДУ-01	AIP225M6	950	37
19	ВКРН-БП/БД-12,5ДУ-00	A180MB12	485	9
20	ВКРН-БП/БД-12,5ДУ-01	AIP225M8	730	30
21	ВКРН-БП/БД-14ДУ-00	A200LA12	475	13
22	ВКРН-БП/БД-14ДУ-01	AIP250M8	730	45

CHARACTERISTICS SUMMARY DIAGRAM

2500 – 85000 m³/hour



No	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
1	ВКРН-ВП/ВД-7,1ДУ-00	АИР132S4	1450	7,5
2	ВКРН-ВП/ВД-8ДУ-00	АИР132М4	1450	11
	ВКРН-ВП/ВД-8ДУ-01	АИР160S4	1450	15
3	ВКРН-ВП/ВД-11,2ДУ-00	АИР180М6	950	18,5
4	ВКРН-ВП/ВД-12,5ДУ-00	АИР200L6	950	30

Manufactured in accordance with TU 4861-004-64600223-12

2300 – 125000 m³/hour

- ◆ Impeller with backward-curved blades
- ◆ Welded steel frame with powder paint coating
- ◆ Galvanized steel hood
- ◆ Vertical emission of removable smoke

Low energy consumption.

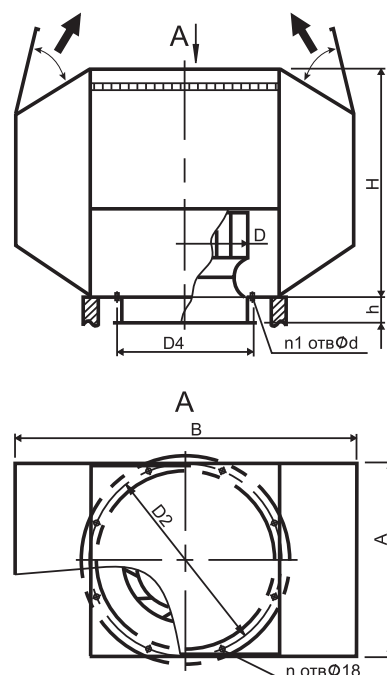
Completed with two-speed induction motor (optional).

Capability of more firm installation of several fans on a roof.
Full weather protection. Return valve is not required.

Maximum stumpiness of the structure.

Exceptional aerodynamic intensity of the “Б”-type impellers.

Explosion-proof version is available.



Fans are denoted as follows:

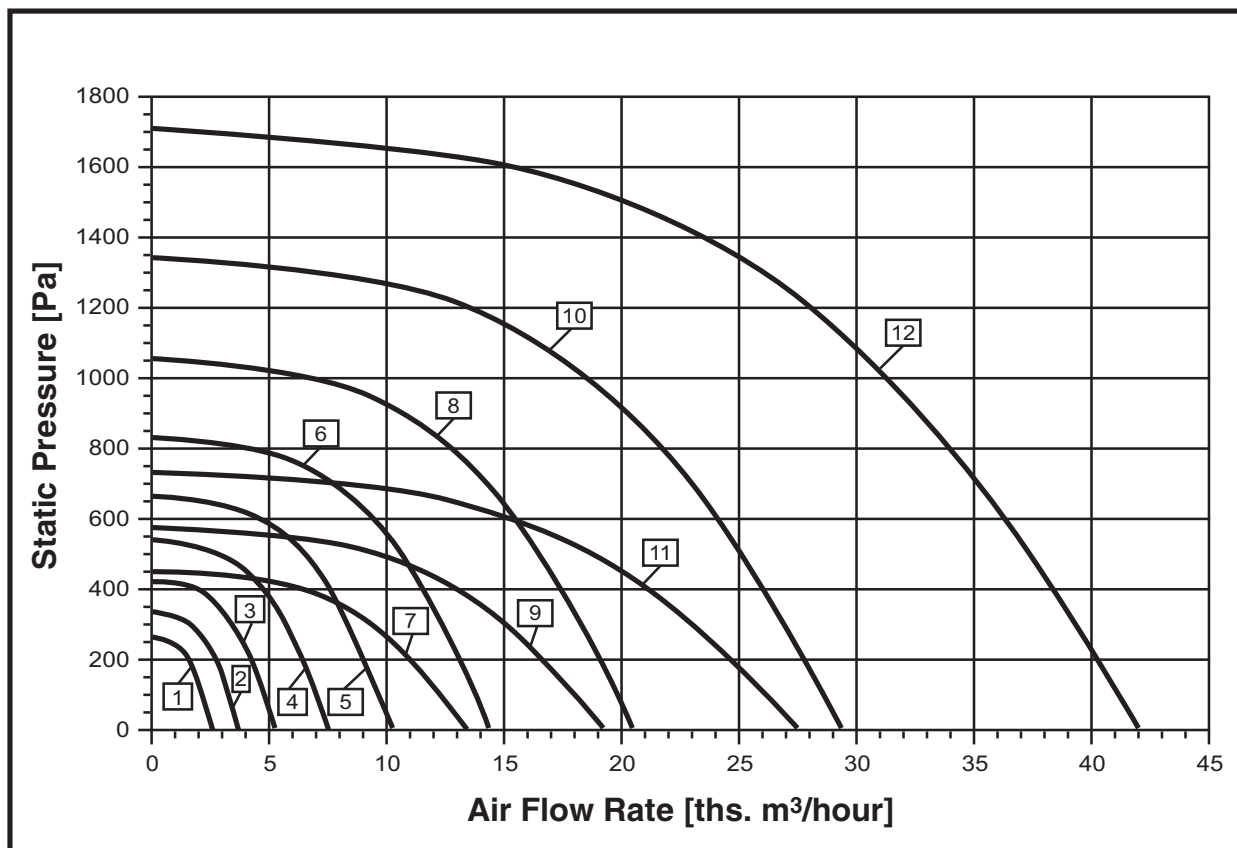
ВКРН – АФ – 3,15 В ДУ 400 – 01 – У1

- Climatic version;
- Index number of modification;
- Maximum temperature of handled medium;
- Designation code (smoke removal);
- Designation code (smoke removal);
- Impeller diameter in decimeters;
- Air outlet direction option (Φ) – Vertical air discharge upwards;
- Aerodynamic power index (A, Б, or B);
- Impeller blades type
- Fan type (Roof fan, Radial).

№	Fan Type	Dimensions [mm]										Weight [kg]
		A	B	D	D2	D4	H	h	d	n	n1	
1	ВКРН-АФ/БФ-3,15ДУ-00	470	610/700	315	470	345	500/532	100	7	4	4	42,4/46
2	ВКРН-АФ/БФ-3,55ДУ-00	560	685/785	355	585	385	595/635	100	7	4	4	50/54
3	ВКРН-АФ/БФ-4ДУ-00	560	786/880	400	585	430	590/630	130	7	4	4	70,2/73
4	ВКРН-АФ/БФ-4,5ДУ-00	650	860/985	450	665	480	655/700	130	7	4	5	86/98
5	ВКРН-АФ/БФ-5ДУ-00	755	950/1090	500	772	530	695/745	140	7	8	5	135,3/150
6	ВКРН-АФ/БФ-5,6ДУ-00	755	1060/1220	560	772	590	825/880	130	10	8	6	170,2/192
7	ВКРН-АФ/БФ-6,3ДУ-00	765	1190/1365	630	772	660	840/935	200	10	8	6	174/197
8	ВКРН-АФ/БФ-6,3ДУ-01	765	1190/1365	630	772	660	840/935	200	10	8	6	202/236
9	ВКРН-АФ/БФ-7,1ДУ-00	870	1335/1535	710	772	660	1115/1185	160	10	8	6	248/278
10	ВКРН-АФ/БФ/ВФ-7,1ДУ-01	870	1335/1535/1335	710	772	660	1115/1185/1115	160	10	8	6	286/360/271
11	ВКРН-АФ/БФ-8ДУ-00	1080	1500/1725	800	1072	830	1185/1265	197	10	8	6	360/375
12	ВКРН-АФ/БФ/ВФ-8ДУ-01	1080	1500/1725/1500	800	1072	830	1185/1265/1185	197	10	8	6	437/447/390
13	ВКРН-АФ/БФ-9ДУ-00	1095	1685/1935	900	1072	940	1225/1315	130	10	8	8	388/435
14	ВКРН-АФ/БФ-9ДУ-01	1095	1685/1935	900	1072	940	1225/1315	130	10	8	8	441/473
15	ВКРН-АФ-9ДУ-02	1095	1685	900	1072	940	1225	130	10	8	8	520
16	ВКРН-АФ/БФ-10ДУ-00	1300	1865/2145	1000	1272	1040	1450/1550	130	10	8	8	493/662
17	ВКРН-АФ/БФ-10ДУ-01	1300	1865/2145	1000	1272	1040	1450/1550	130	10	8	8	518/713
18	ВКРН-АФ/БФ-11,2ДУ-00	1350	2085/2400	1120	1272	1165	1485/1595	190	12	8	9	695/782
19	ВКРН-АФ/БФ/ВФ-11,2ДУ-01	1350	2085/2400/2085	1120	1272	1165	1485/1595/1485	190	12	8	9	850/912/762
20	ВКРН-АФ/БФ-12,5ДУ-00	1530	2325/2675	1250	1522	1295	1562/1690	130	12	8	9	787/973
21	ВКРН-АФ/БФ-12,5ДУ-01	1530	2325/2675	1250	1522	1295	1562/1690	130	12	8	9	902/1093
22	ВКРН-АФ/ВФ-12,5ДУ-02	1530	2325	1250	1522	1295	1562	130	12	8	9	1153/971
23	ВКРН-АФ/БФ-14ДУ-00	1680	2600/2990	1400	1522	1295	1810/1950	130	12	8	9	1163/1240
24	ВКРН-АФ/БФ-14ДУ-01	1680	2600/2990	1400	1522	1295	1810/1950	130	12	8	9	1351/1580

CHARACTERISTICS SUMMARY DIAGRAM

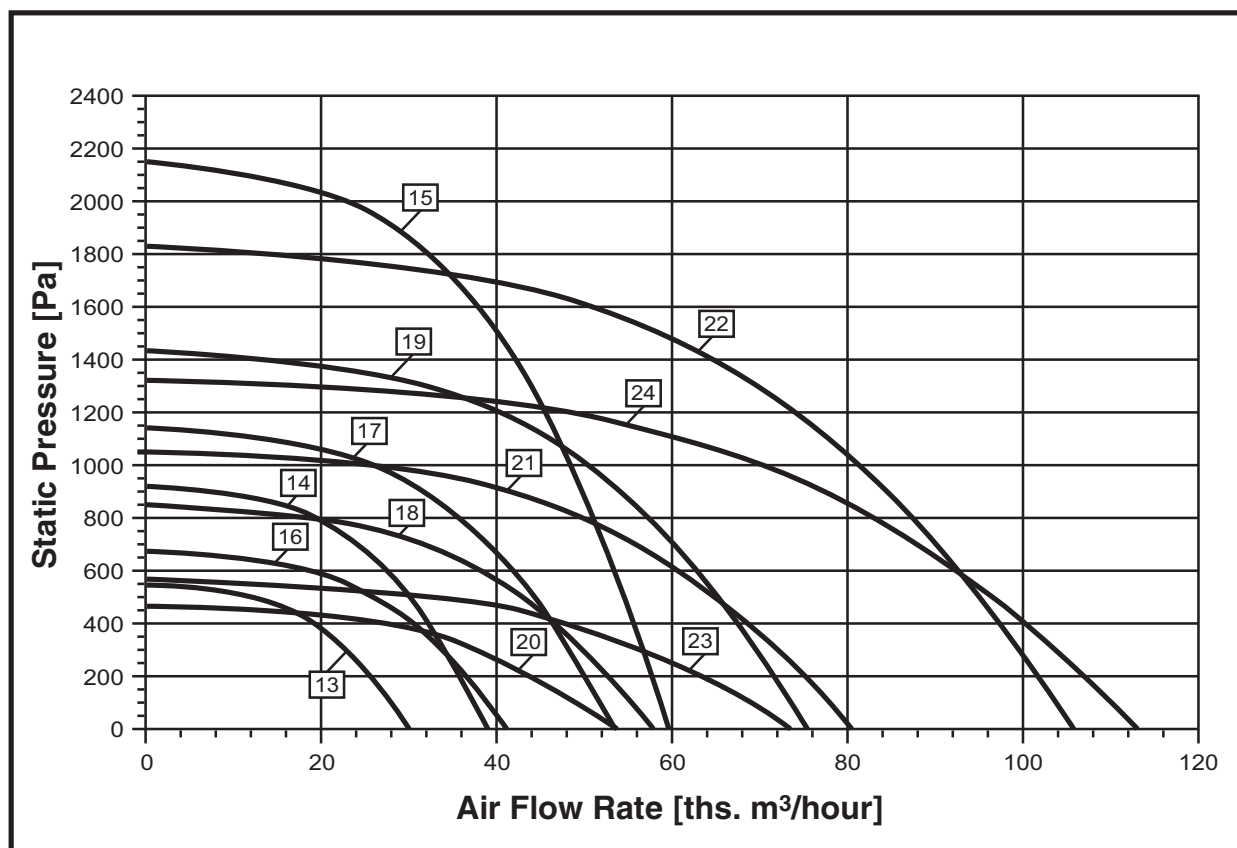
2300 – 40000 m³/hour



No	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
1	ВКРН-АФ-3,15ДУ-00	АИР56В4	1450	0,18
2	ВКРН-АФ-3,55ДУ-00	АИР63В4	1450	0,37
3	ВКРН-АФ-4ДУ-00	АИР71А4	1450	0,55
4	ВКРН-АФ-4,5ДУ-00	АИР80А4	1450	1,1
5	ВКРН-АФ-5ДУ-00	АИР80В4	1450	1,5
6	ВКРН-АФ-5,6ДУ-00	АИР100S4	1450	3
7	ВКРН-АФ-6,3ДУ-00	АИР90L6	950	1,5
8	ВКРН-АФ-6,3ДУ-01	АИР112М4	1450	5,5
9	ВКРН-АФ-7,1ДУ-00	АИР112МА6	950	3
10	ВКРН-АФ-7,1ДУ-01	АИР132М4	1450	11
11	ВКРН-АФ-8ДУ-00	АИР132S6	950	5,5
12	ВКРН-АФ-8ДУ-01	АИР160S4	1450	15
	ВКРН-АФ-8ДУ-02	АИР160М4	1450	18,5

CHARACTERISTICS SUMMARY DIAGRAM

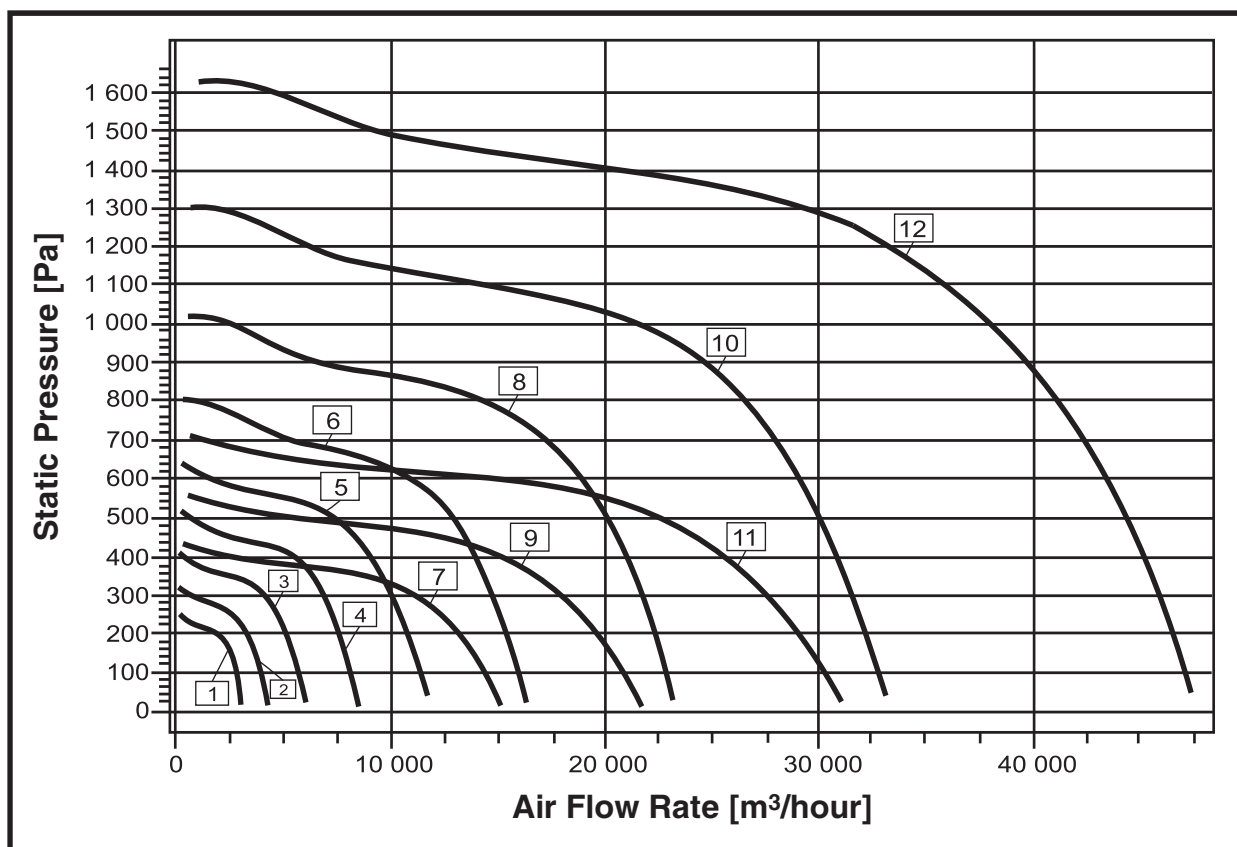
2300 – 108000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
13	ВКРН-АФ-9ДУ-00	АИР132S8	730	4
14	ВКРН-АФ-9ДУ-01	АИР160S6	950	11
15	ВКРН-АФ-9ДУ-02	АИР180M4	1450	30
16	ВКРН-АФ-10ДУ-00	АИР132M8	730	5,5
17	ВКРН-АФ-10ДУ-01	АИР160M6	950	15
18	ВКРН-АФ-11,2ДУ-00	АИР160M8	730	11
19	ВКРН-АФ-11,2ДУ-01	АИР200L6	950	30
20	ВКРН-АФ-12,5ДУ-00	АИР160M12	485	5,5
21	ВКРН-АФ-12,5ДУ-01	АИР200M8	730	18,5
22	ВКРН-АФ-12,5ДУ-02	АИР250S6	960	45
23	ВКРН-АФ-14ДУ-00	АИР180MB12	475	9
24	ВКРН-АФ-14ДУ-01	АИР250S8	730	37

CHARACTERISTICS SUMMARY DIAGRAM

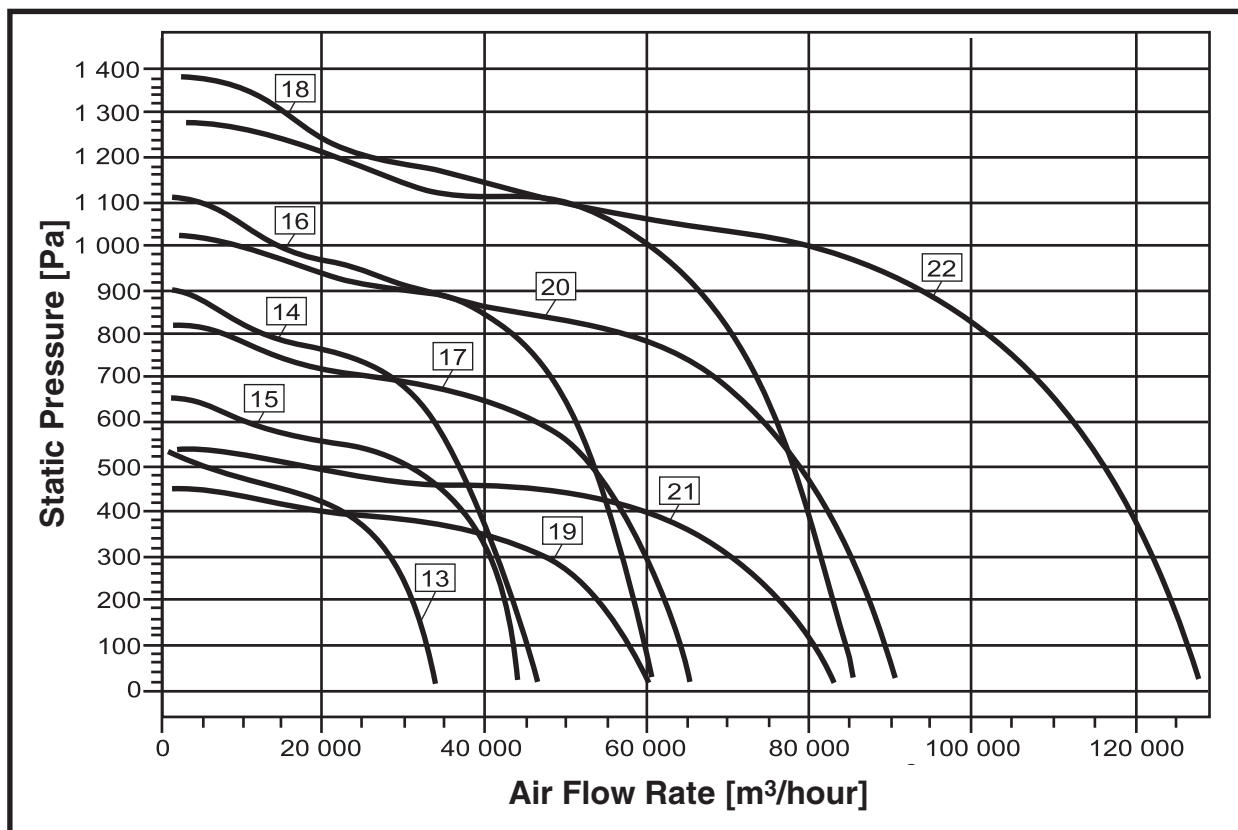
2600 – 47000 m³/hour



No	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
1	ВКРН-БФ-3,15ДУ-00	АИР63А4	1450	0,25
2	ВКРН-БФ-3,55ДУ-00	АИР71А4	1450	0,55
3	ВКРН-БФ-4ДУ-00	АИР71В4	1450	0,75
4	ВКРН-БФ-4,5ДУ-00	АИР80В4	1450	1,5
5	ВКРН-БФ-5ДУ-00	АИР90L4	1450	2,2
6	ВКРН-БФ-5,6ДУ-00	АИР100L4	1450	4
7	ВКРН-БФ-6,3ДУ-00	АИР100L6	950	2,2
8	ВКРН-БФ-6,3ДУ-01	АИР132S4	1450	7,5
9	ВКРН-БФ-7,1ДУ-00	АИР112MB6	950	4
10	ВКРН-БФ-7,1ДУ-01	АИР160S4	1450	15
11	ВКРН-БФ-8ДУ-00	АИР132M6	950	7,5
12	ВКРН-БФ-8ДУ-01	АИР180S4	1450	22

CHARACTERISTICS SUMMARY DIAGRAM

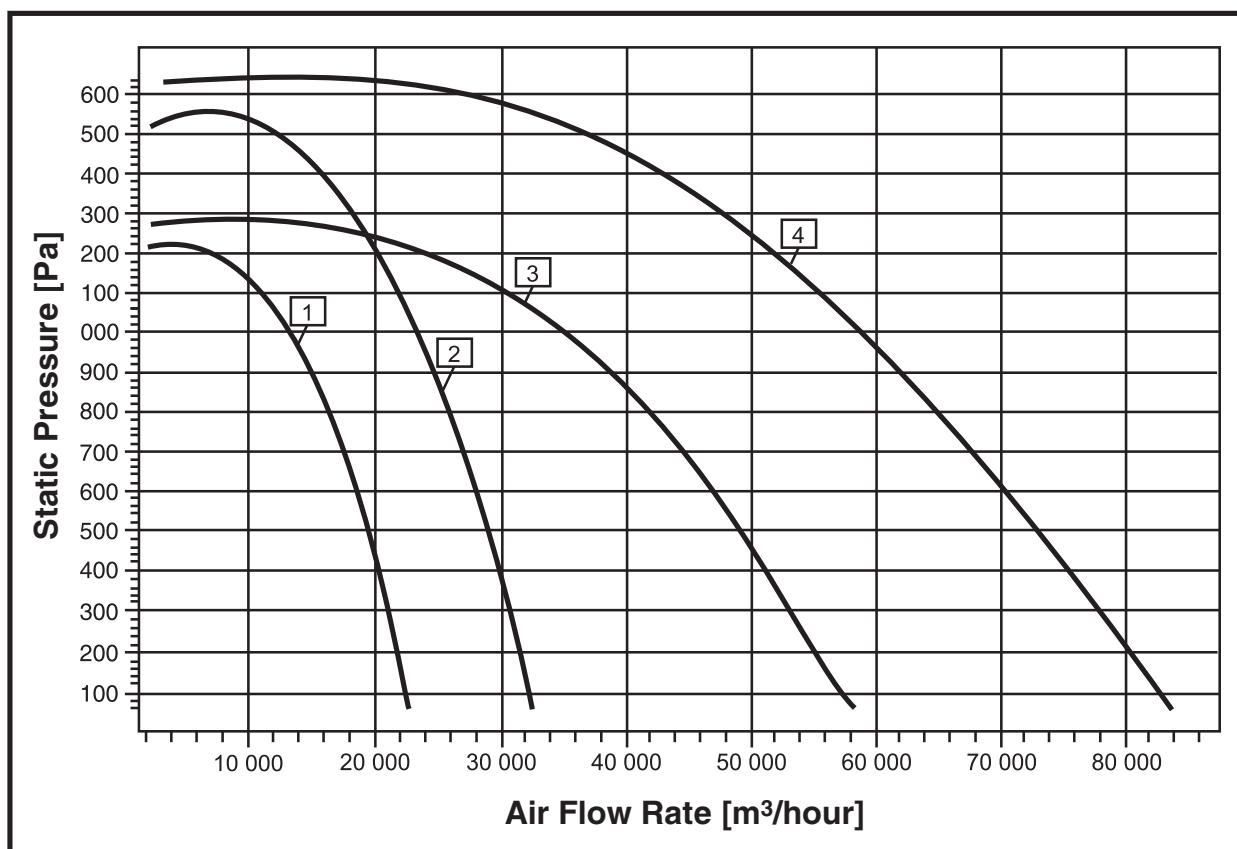
2600 – 125000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
13	ВКРН-БФ-9ДУ-00	АИР132М8	730	5,5
14	ВКРН-БФ-9ДУ-01	АИР160S6	950	11
15	ВКРН-БФ-10ДУ-00	АИР160S8	730	7,5
16	ВКРН-БФ-10ДУ-01	АИР180М6	950	18,5
17	ВКРН-БФ-11,2ДУ-00	АИР180М8	730	15
18	ВКРН-БФ-11,2ДУ-01	АИР225М6	950	37
19	ВКРН-БФ-12,5ДУ-00	А180МВ12	485	9
20	ВКРН-БФ-12,5ДУ-01	АИР225М8	730	30
21	ВКРН-БФ-14ДУ-00	А200LА12	475	13
22	ВКРН-БФ-14ДУ-01	АИР250М8	730	45

CHARACTERISTICS SUMMARY DIAGRAM

1800 - 80000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
1	БКРН-ВФ-7,1ДУ-00	АИР132S4	1450	7,5
2	БКРН-ВФ-8ДУ-00	АИР132М4	1450	11
	БКРН-ВФ-8ДУ-01	АИР160S4	1450	15
3	БКРН-ВФ-11,2ДУ-00	АИР180М6	950	18,5
4	БКРН-ВФ-12,5ДУ-00	АИР200L6	950	30

Manufactured in accordance with TU 4861-004-64600223-12

2000 – 47000 m³/hour

- ◆ Forward-curved blades impeller
- ◆ Welded frame with powder paint coating
- ◆ Galvanized steel hood
- ◆ Bilateral emission of removable smoke

Capability of high pressure maintaining the compact structure.

Capability of compact installation of several fans on a roof.

Fan design is protected by the Russian Useful Model Certificate.

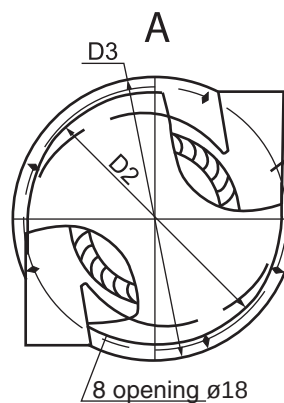
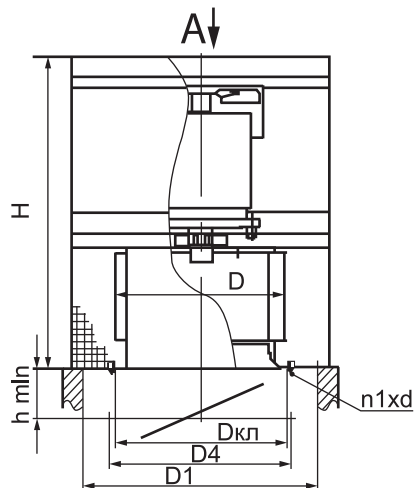


Explosion-proof version is available.

Fans are denoted as follows:

ВКРВ – 3,15 В ДУ 400 – 01 – У1

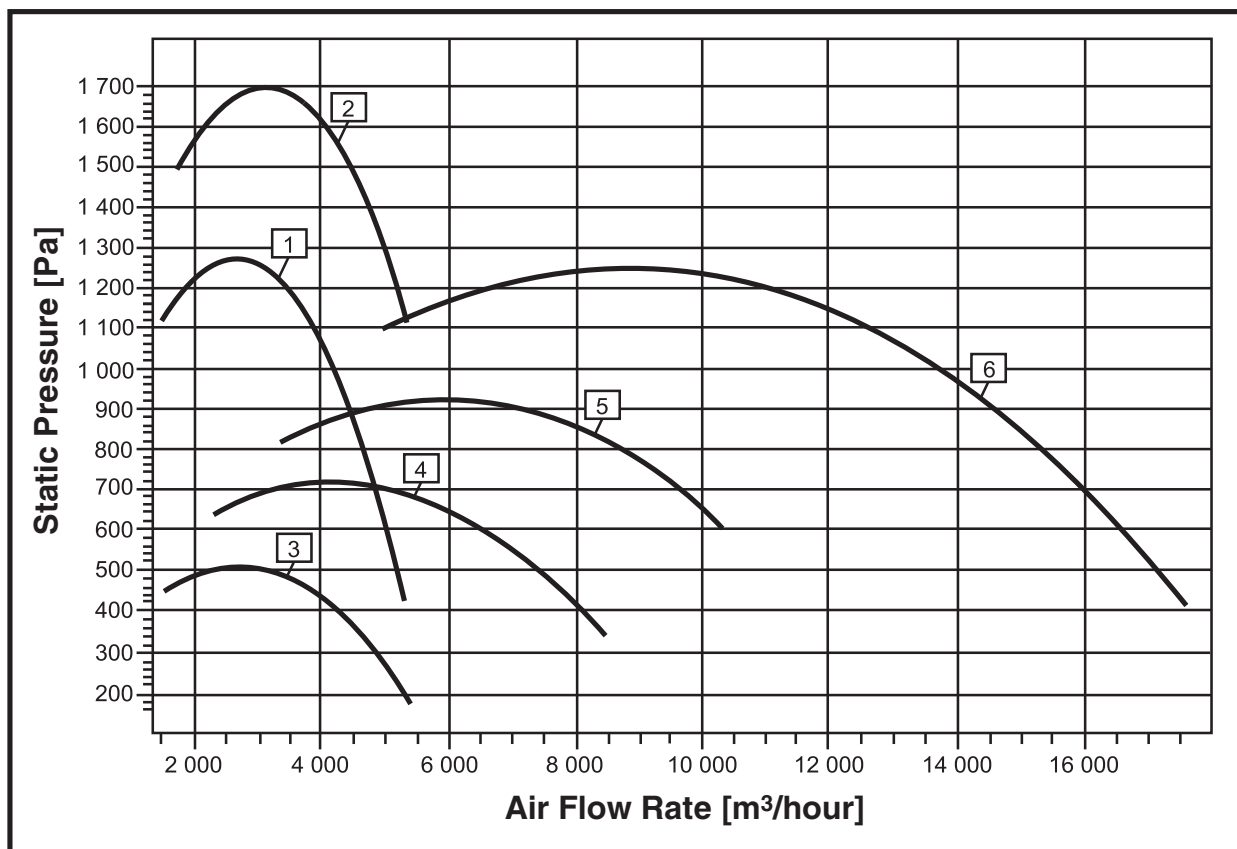
- Climatic version;
- Index number of modification;
- Maximum temperature of handled medium;
- Designation code (smoke removal);
- Designation code (smoke removal);
- Impeller diameter in decimeters;
- Impeller blades type
- B – forward-curved blades;
- Fan type (Roof fan, Radial).



Fan Model	Dimensions [mm]									n	n1
	D	D1	D2	D3	D4	Dкл	H	h1	d		
ВКРВ-2,5ДУ	250	400	470	528	280	250	590	190	7	4	4
ВКРВ-2,8ДУ	280	400	470	528	310	280	615	220	7	4	4
ВКРВ-3,15ДУ	315	400	470	528	345	315	615	220	7	4	4
ВКРВ-3,55ДУ	355	515	585	655	385	355	656	260	7	4	5
ВКРВ-4ДУ	400	515	585	655	430	400	820	260	7	8	5
ВКРВ-4,5ДУ	450	700	772	810	480	450	854	280	7	8	5
ВКРВ-5ДУ	500	700	772	810	530	500	1015	320	7	8	5
ВКРВ-5,6ДУ	560	700	772	810	590	560	1174	340	10	8	5
ВКРВ-6,3ДУ	630	1000	1072	1112	660	630	1250	380	10	8	5
ВКРВ-7,1ДУ	710	1000	1072	1112	740	710	1470	410	10	8	6
ВКРВ-8ДУ	800	1200	1072	1312	830	800	1540	460	10	8	6

CHARACTERISTICS SUMMARY DIAGRAM

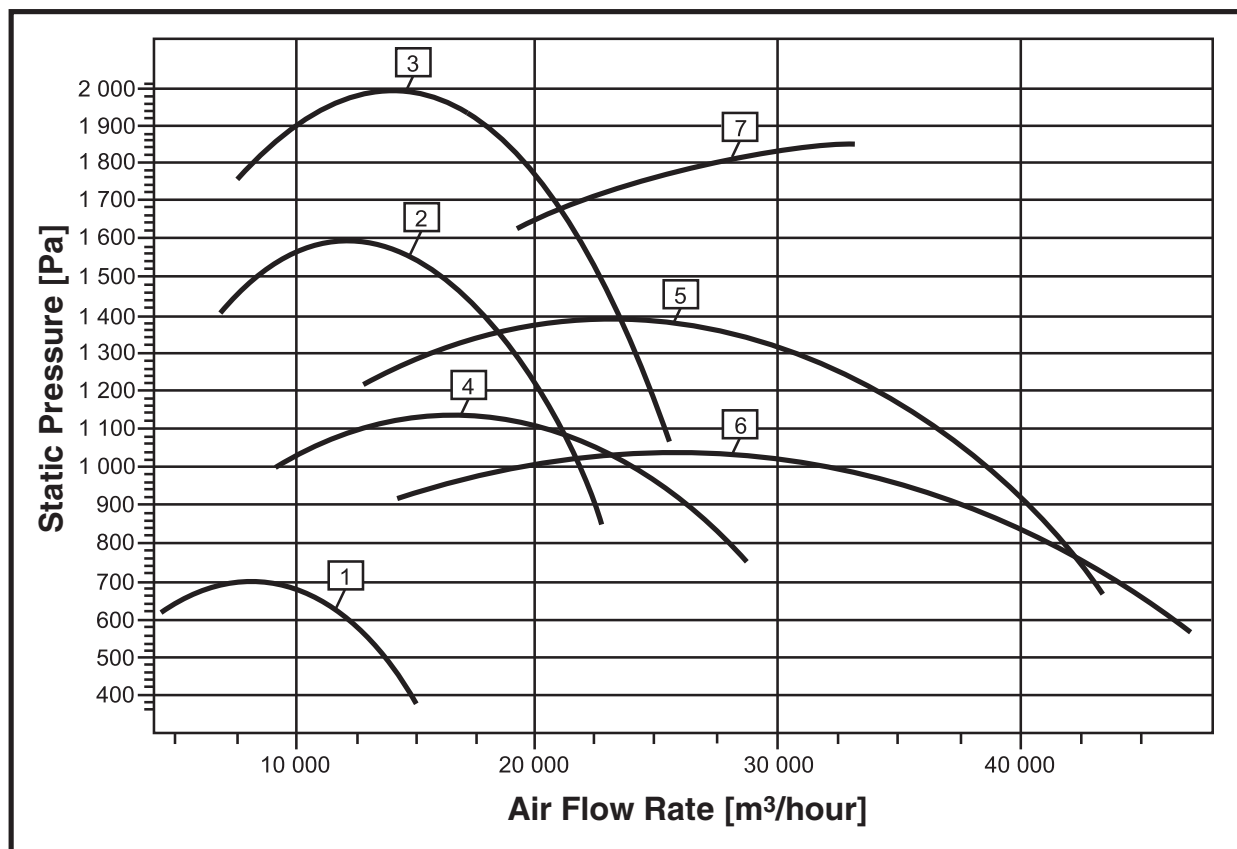
2000 – 17500 m³/hour



No.	Fan Model	No. of Modification	Electric Motor Type	Motor Parameters		Capacity Rating [m ³ /hour]	Fan Weight [kg]
				Rotation Speed [rpm]	Power [kW]		
1	ВКРВ-2,5ДУ	00	АИР80В2	2900	2,2	3000	70,1
		01	АИР90Л2		3	4000	81,1
		02	АИР100S2		4	5200	80,2
2	ВКРВ-2,8ДУ	00	АИР90Л2	2900	3	2800	85
		01	АИР100S2		4	3800	89
		02	АИР100Л2		5,5	5100	94
3	ВКРВ-3,15ДУ	00	АИР80В4	1450	1,5	5500	63
4	ВКРВ-3,55ДУ	00	АИР80В4	1450	1,5	4500	78,5
		01	АИР90Л4		2,2	6500	108
		02	АИР100S4		3	8000	120
5	ВКРВ-4ДУ	00	АИР100S4	1450	3	6000	121
		01	АИР100Л4		4	8000	135
		02	АИР112М4		5,5	10000	140
6	ВКРВ-4,5ДУ	00	АИР112М4	1450	5,5	9000	168
		01	АИР132S4		7,5	13000	193
		02	АИР132М4		11	17000	235

CHARACTERISTICS SUMMARY DIAGRAM

5000 – 47000 m³/hour



No.	Fan Model	No. of Modification	Electric Motor Type	Motor Parameters		Capacity Rating [m³/hour]	Fan Weight [kg]
				Rotation Speed [rpm]	Power [kW]		
1	ВКРВ-5ДУ	00	АИР112МА6	960	3	8000	158
		01	АИР112МБ6	960	4	11000	158
		02	АИР132S6	960	5,5	15000	167
2	ВКРВ-5,6ДУ	03	АИР132М4	1450	11	15000	173
		04	АИР160М4	1450	18,5	23000	286
3	ВКРВ-5,6ДУ	00	АИР160S4	1450	15	14500	291
		01	АИР180S4		22	20000	323
		02	АИР180М4		30	25000	352
4	ВКРВ-6,3ДУ	00	АИР160S6	970	11	20000	360
		01	АИР160М6		15	28000	372
5	ВКРВ-7,1ДУ	00	АИР160М6	950	15	25000	472
		01	АИР200М6		22	35000	572
		02	АИР200L6		30	40000	637
6	ВКРВ-8ДУ	00	АИР180М8	730	15	30000	592
		01	АИР200L8	730	22	46000	645
7	ВКРВ-8ДУ	02	АИР200М6	975	22	26000	605
		03	АИР200L6	975	30	33000	660

Manufactured in accordance with TU 4861-004-64600223-12

5000 – 90000 m³/hour

- ◆ Double fans installation
- ◆ Forward-curved blades impeller
- ◆ Welded frame with powder paint coating
- ◆ Galvanized steel hood
- ◆ Bilateral emission of removable smoke

Capability of high pressure and increased efficiency maintaining the compact structure.

Capability of compact installation of several fans on a roof.

Fan design is protected by the Russian Useful Model Certificate.

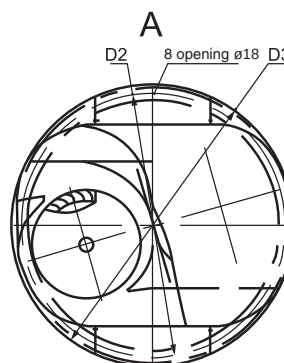
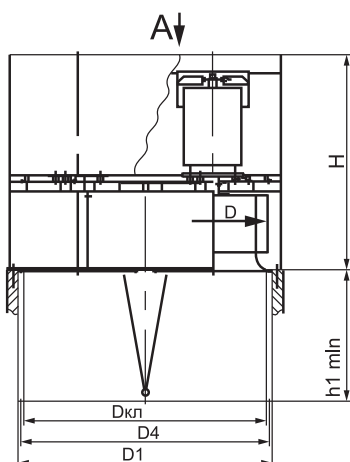


Explosion-proof version is available.

Fans are denoted as follows:

БКРВ 2х - 3,15 В ДУ 400 - 01 У1

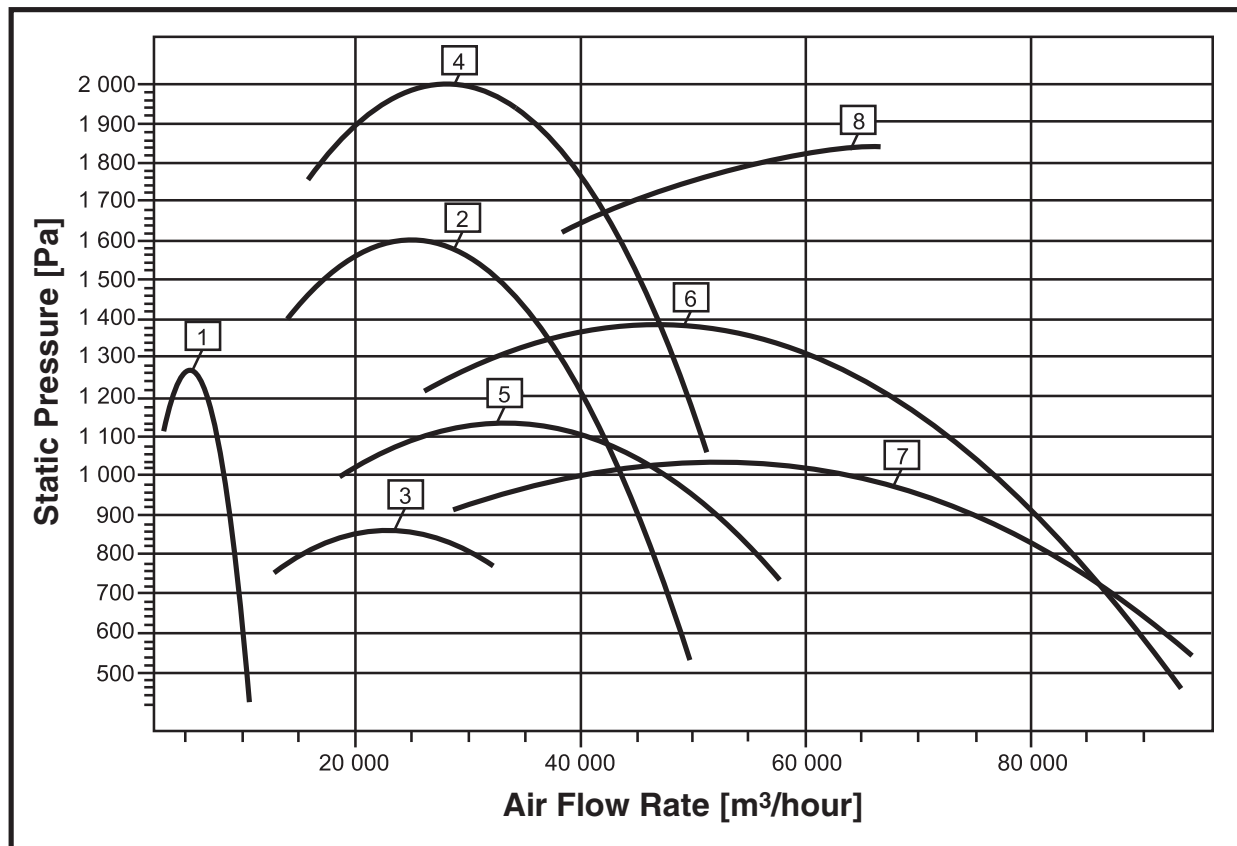
- Climatic version;
- Index number of modification;
- Maximum temperature of the handled medium;
- Designation code (smoke removal);
- Enclosure type (explosion proof);
- Impeller diameter in decimeters;
- Sign of fans coupling in a plant;
- Impeller blades type – В – forward-curved blades;
- Fan type (Roof fan, Radial).



Fan Model	Dimensions [mm]									n1
	D	D1	D2	D3	D4	Dкл	H	h1	d	
БКРВ2х2,5ДУ	250	700	665	690	560	560	590	323	7	6
БКРВ2х5ДУ	500	1270	1272	1320	1125	1000	1015	600	10	8
БКРВ2х5,6ДУ	560	1500	1522	1595	1245	1250	1174	730	12	9
БКРВ2х6,3ДУ	630	1500	1522	1595	1395	1250	1250	730	12	9
БКРВ2х7,1ДУ	710	1685	1757	1825	1555	1510	1610	810	12	13
БКРВ2х8ДУ	800	1900	1957	2000	1745	1680	1663	910	12	13

CHARACTERISTICS SUMMARY DIAGRAM

5000 – 90000 m³/hour



No.	Fan Model	No. of Modification	Electric Motor Type	Motor Parameters		Capacity Rating [m³/hour]	Fan Weight [kg]
				Rotation Speed [rpm]	Power [kW]		
1	ВКРВ2х2,5ДУ	00	АИР80В2	2845	2х2.2	6000	159
		01	АИР90Л2		2х3	8000	179
		02	АИР100S2		2х4	11000	177
2	ВКРВ2х5ДУ	00	АИР132М4	1450	2х11	30000	426
		01	АИР160М4		2х18.5	46000	615
3	ВКРВ2х5,6ДУ	00	АИР112МА6	970	2х3	18000	474
		01	АИР112МВ6		2х4	23500	504
		02	АИР132S6		2х5.5	31000	513
4	ВКРВ2х5,6ДУ	03	АИР160S4	1450	2х15	30000	690
		04	АИР180S4		2х22	41000	754
		05	АИР180М4		2х30	50000	812
5	ВКРВ2х6,3ДУ	00	АИР160S6	970	2х11	40000	681
		01	АИР160М6		2х15	56000	725
6	ВКРВ2х7,1ДУ	00	АИР160М6	970	2х15	50000	918
		01	АИР200М6		2х22	70000	1117
		02	АИР200L6		2х30	86000	1177
7	ВКРВ2х8ДУ	00	АИР180М8	730	2х15	60000	1015
		01	АИР200L8		2х22	92000	1245
8	ВКРВ2х8ДУ	02	АИР200М6	970	2х22	52000	1145
		03	АИР200L6		2х30	66000	1205

Manufactured in accordance with TU 4861-007-64600223-13

2400 – 120000 m³/hour

- ◆ Axial impeller;
- ◆ Integrated return valve at the fan outlet
- ◆ Reliable room protection against weather
- ◆ Powder paint coating of exteriors

Compact installation of several fans on one roof is available.

Radial roof fans may be replaced under pressure of up to 500 Pa.

Some fans are allowed to be applied in the general ventilation mode providing rotation speed decrease by at least 25% against value specified in the catalogue (for instance, using frequency converter). Application shall be agreed with manufacturer.

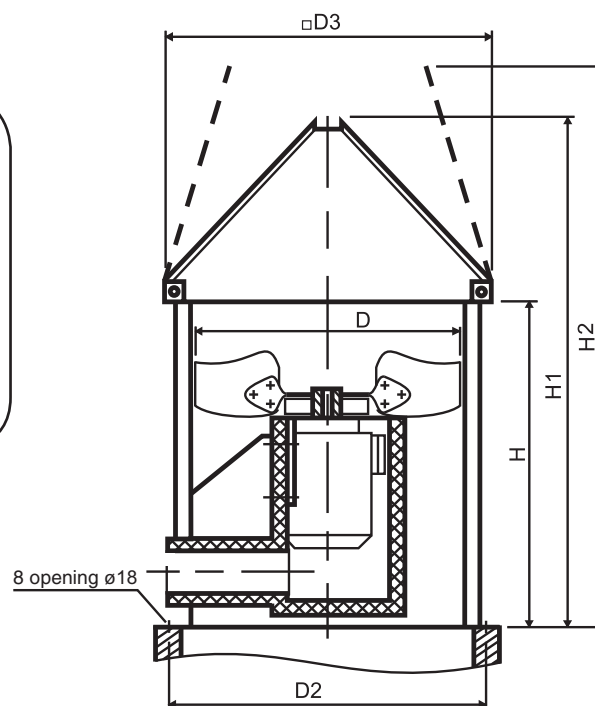


Explosion-proof version is available.

Fans are denoted as follows:

BO 21-210 K A - 6,3 В ДУ 400 - 4 - У1

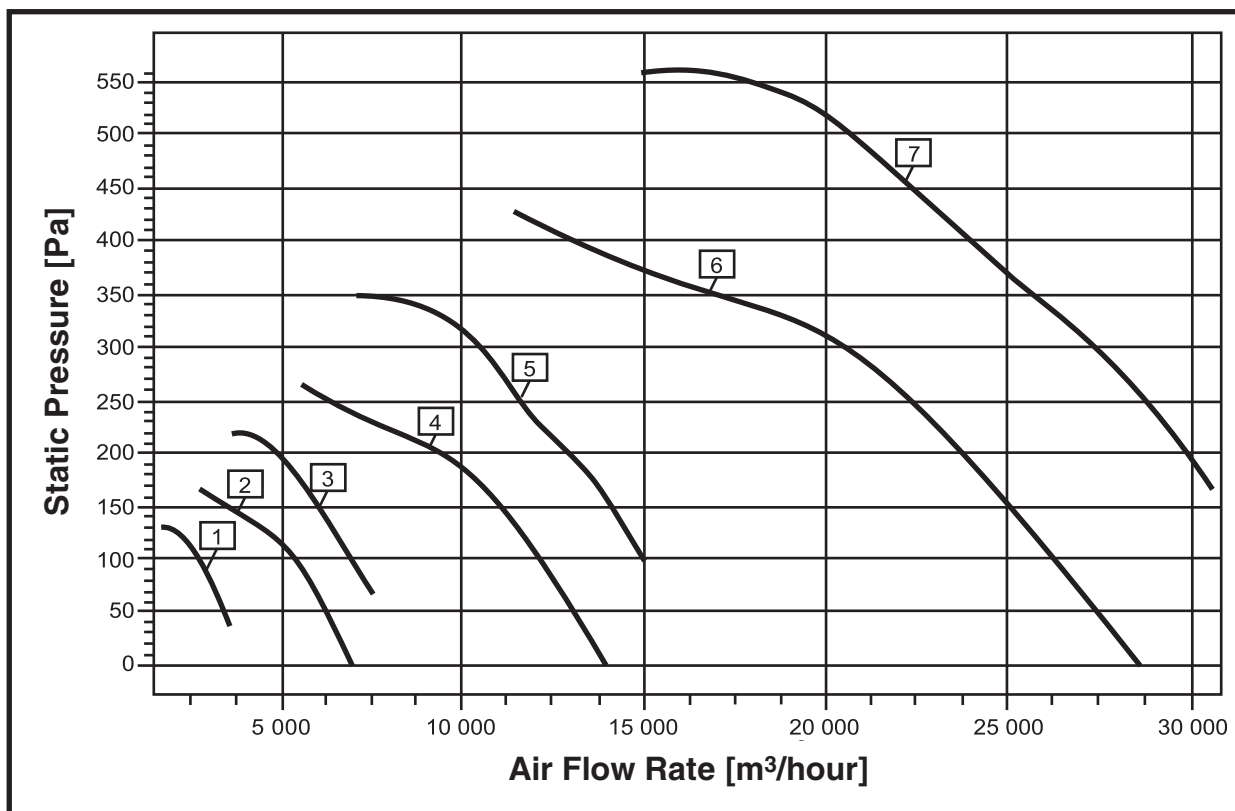
- BO — Climatic version;
- 21 — Number of motor poles;
- 210 — Maximum temperature of handled medium;
- K — Designation code (smoke removal);
- A — Enclosure type (explosion proof);
- 6,3 — Impeller diameter in decimeters;
- В — Impeller design: A-4; Б-6;
- ДУ — Fan design index (roof);
- 400 — Aerodynamic configuration index;
- 4 — Fan Type (axial fan);
- У1 —



№	Fan Type	Dimensions [mm]						Weight [kg]
		D	D2	D3	H	H1	H2	
1	BO-21-210KB-4ДУ-4	400	585	700	430	620	695	40
2	BO-21-210KA-5ДУ-4	500	772	810	570	795	895	65
3	BO-21-210KB-5ДУ-4	500	772	810	570	795	895	65
4	BO-21-210KA-6,3ДУ-4	630	772	1000	750	975	1110	110
5	BO-21-210KB-6,3ДУ-4	630	772	1000	750	975	1110	110
6	BO-21-210KA-8ДУ-4	800	1072	1400	900	1280	1430	180
7	BO-21-210KB-8ДУ-4	800	1072	1400	900	1280	1430	180
8	BO-21-210KA-10ДУ-6	1000	1272	1600	1200	1650	1850	280
9	BO-21-210KB-10ДУ-6	1000	1272	1600	1200	1650	1850	280
10	BO-21-210KA-12,5ДУ-8	1250	1522	1800	1500	2050	2320	440
11	BO-21-210KB-12,5ДУ-8	1250	1522	1800	1500	2050	2320	440
12	BO-21-210KA-12,5ДУ-6	1250	1522	1800	1500	2050	2320	440
13	BO-21-210KB-12,5ДУ-6	1250	1522	1800	1500	2050	2320	440
14	BO-21-210KA-16ДУ-8	1600	1957	2200	1800	2555	2860	730
15	BO-21-210KB-16ДУ-8	1600	1957	2200	1800	2555	2860	730

CHARACTERISTICS SUMMARY DIAGRAM

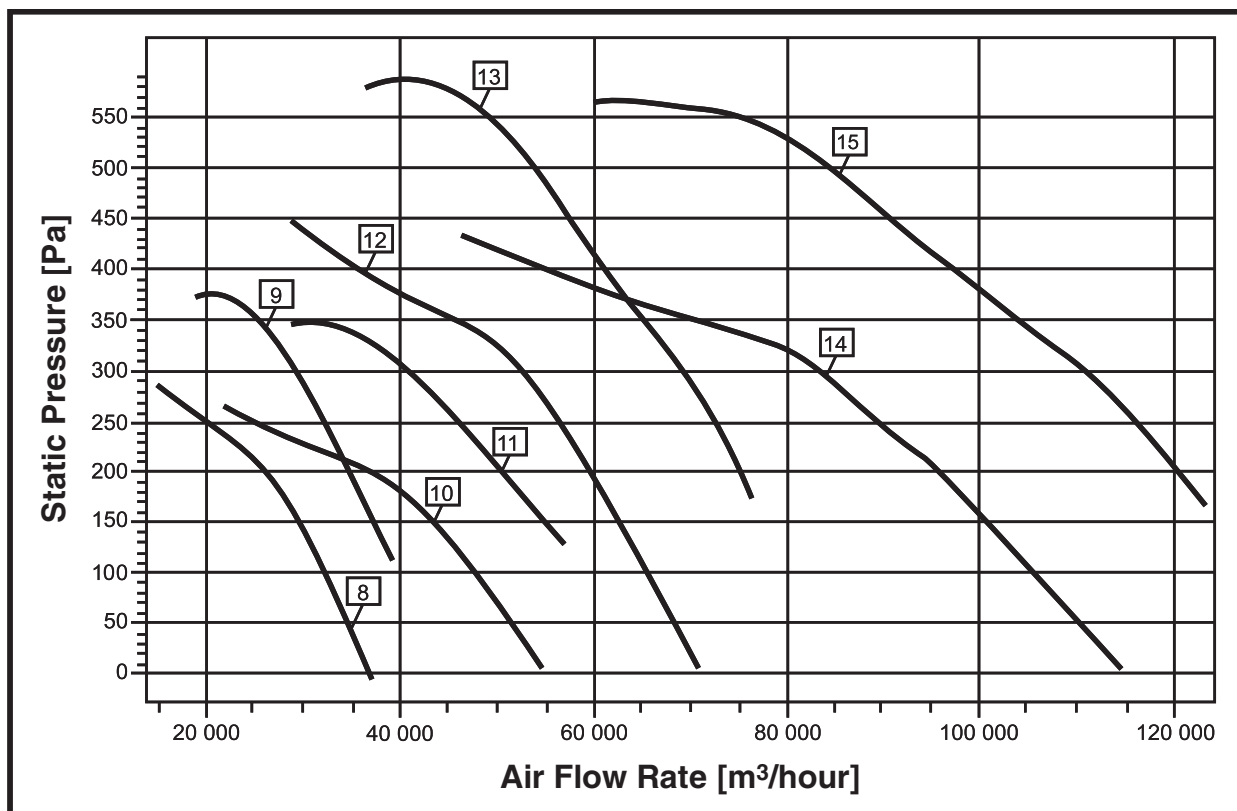
2400 – 30000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
1	ВО-21-210КБ-4ДУ-4	АИР63А4	1450	0,25
2	ВО-21-210КА-5ДУ-4	АИР71А4	1450	0,55
3	ВО-21-210КБ-5ДУ-4	АИР71А4	1450	0,55
4	ВО-21-210КА-6,3ДУ-4	АИР80В4	1450	1,5
5	ВО-21-210КБ-6,3ДУ-4	АИР90L4	1450	2,2
6	ВО-21-210КА-8ДУ-4	АИР100L4	1450	4
7	ВО-21-210КБ-8ДУ-4	АИР112М4	1450	5,5

CHARACTERISTICS SUMMARY DIAGRAM

18000 – 120000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
8	ВО-21-210КА-10ДУ-6	АИР112МВ6	950	4
9	ВО-21-210КБ-10ДУ-6	АИР132S6	950	5,5
10	ВО-21-210КА-12,5ДУ-8	АИР132М8	950	5,5
11	ВО-21-210КБ-12,5ДУ-8	АИР160S8	950	7,5
12	ВО-21-210КА-12,5ДУ-6	АИР160S6	950	11
13	ВО-21-210КБ-12,5ДУ-6	АИР160М6	950	15
14	ВО-21-210КА-16ДУ-8	АИР200М8	950	18,5
15	ВО-21-210КБ-16ДУ-8	АИР225М8	950	30

Manufactured in accordance with TU 4861-007-64600223-13

2400 – 120000 m³/hour

BO-21-210 ДУ (VO-21-210 DU) fans are equipped with axial impellers directly driven from industrial induction motor.

Some fans are allowed to be applied in the general ventilation mode providing rotation speed decrease by at least 25% against value specified in the catalogue (for instance, using frequency converter). Application shall be agreed with manufacturer.

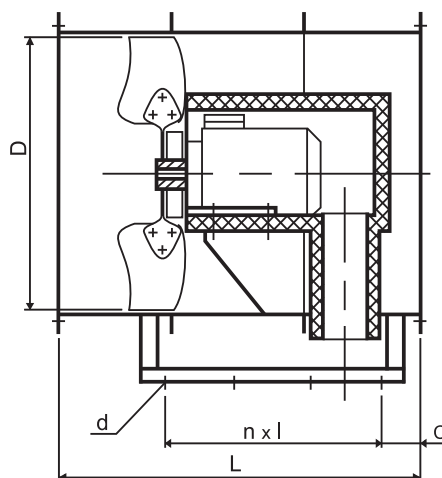
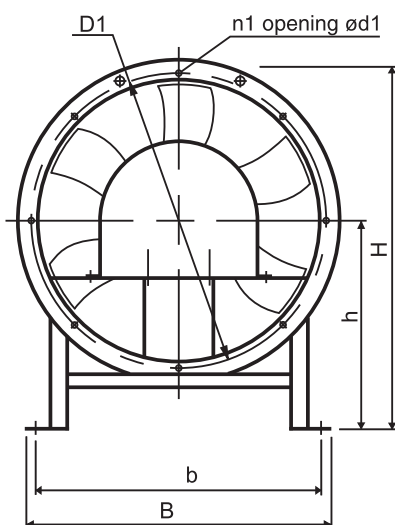
Explosion-proof version is available.



Fans are denoted as follows:

BO 21-210 A-6,3 B ДУ 400 - 4 - Y2

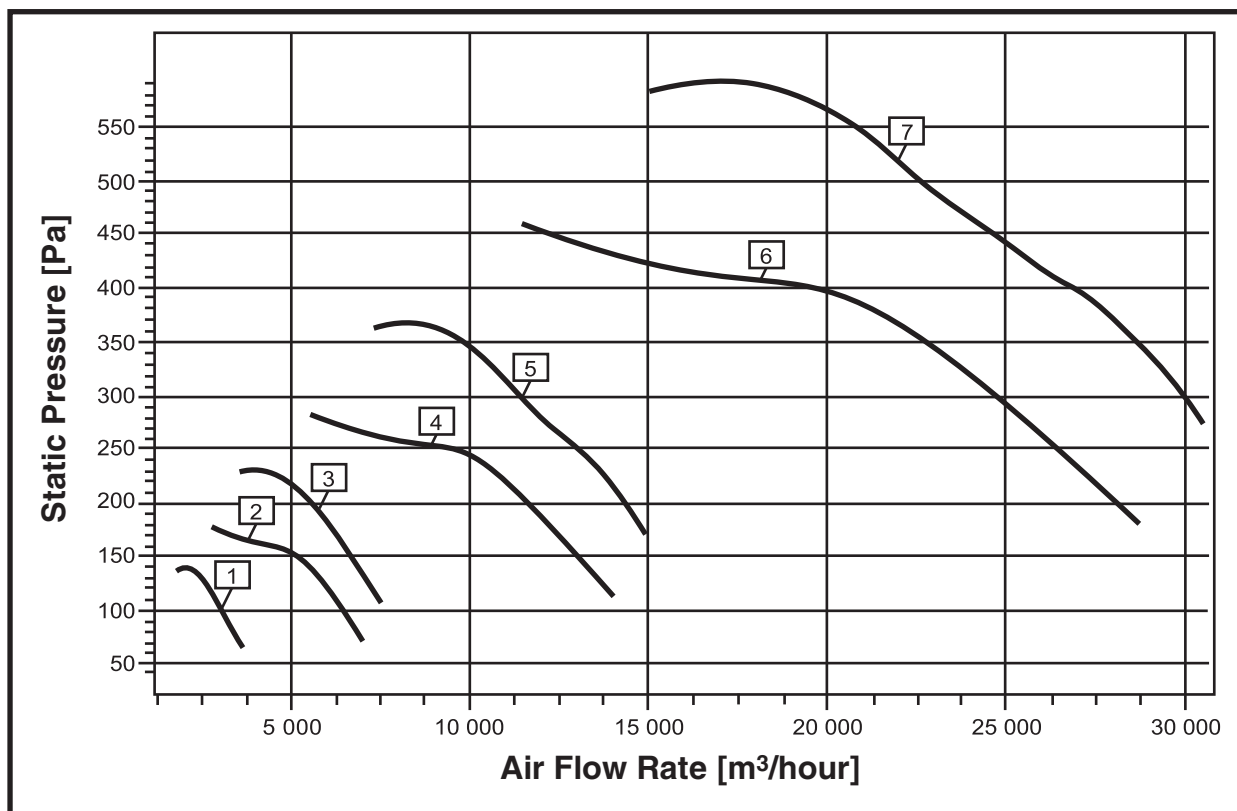
- └ Climatic version;
- └ Number of motor poles;
- └ Maximum temperature of handled medium;
- └ Designation code (smoke removal);
- └ Enclosure type (explosion proof);
- └ Impeller diameter in decimeters;
- └ Impeller design: A-4; B-6;
- └ Aerodynamic configuration index;
- └ Fan Type (axial fan).



№	Fan Type	Dimensions [mm]													Weight [kg]
		D	D1	d	d1	B	b	H	h	L	l	C	n	n1	
1	BO-21-210Б-4ДУ-4	400	430	13	7	455	300	520	290	430	300	65	---	8	30
2	BO-21-210A-5ДУ-4	500	530	13	7	555	490	640	360	570	170	70	2	10	55
3	BO-21-210Б-5ДУ-4	500	530	13	7	555	490	640	360	570	170	70	2	10	55
4	BO-21-210A-6,3ДУ-4	630	680	18	10	690	630	785	440	700	200	85	2	12	95
5	BO-21-210Б-6,3ДУ-4	630	680	18	10	690	630	785	440	700	200	85	2	12	95
6	BO-21-210A-8ДУ-4	800	850	18	10	860	760	993	560	900	260	75	2	12	160
7	BO-21-210Б-8ДУ-4	800	850	18	10	860	760	993	560	900	260	75	2	12	160
8	BO-21-210A-10ДУ-6	1000	1055	18	10	1072	910	1198	660	1100	240	105	3	16	260
9	BO-21-210Б-10ДУ-6	1000	1055	18	10	1072	910	1198	660	1100	240	105	3	16	260
10	BO-21-210A-12,5ДУ-8	1250	1310	18	12	1332	1180	1495	830	1400	310	115	3	18	415
11	BO-21-210Б-12,5ДУ-8	1250	1310	18	12	1332	1180	1495	830	1400	310	115	3	18	415
12	BO-21-210A-12,5ДУ-6	1250	1310	18	12	1332	1180	1495	830	1400	310	115	3	18	415
13	BO-21-210Б-12,5ДУ-6	1250	1310	18	12	1332	1180	1495	830	1400	310	115	3	18	415
14	BO-21-210A-16ДУ-8	1600	1675	22	12	1692	1550	1890	1050	1800	400	160	3	26	690
15	BO-21-210Б-16ДУ-8	1600	1675	22	12	1692	1550	1890	1050	1800	400	160	3	26	690

CHARACTERISTICS SUMMARY DIAGRAM

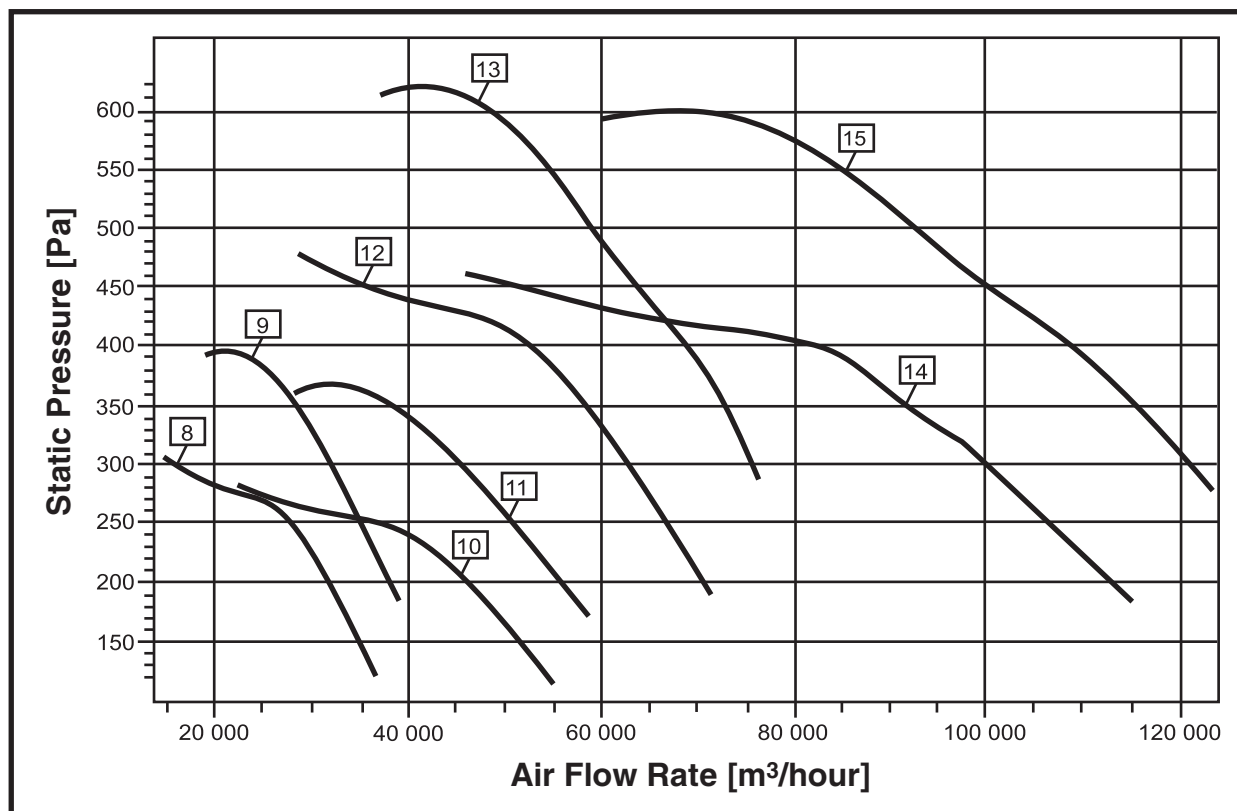
2400 – 30000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
1	ВО-21-210Б-4ДУ-4	АИР63А4	1450	0,25
2	ВО-21-210А-5ДУ-4	АИР71А4	1450	0,55
3	ВО-21-210Б-5ДУ-4	АИР71А4	1450	0,55
4	ВО-21-210А-6,3ДУ-4	АИР80В4	1450	1,5
5	ВО-21-210Б-6,3ДУ-4	АИР90Л4	1450	2,2
6	ВО-21-210А-8ДУ-4	АИР100Л4	1450	4
7	ВО-21-210Б-8ДУ-4	АИР112М4	1450	5,5

CHARACTERISTICS SUMMARY DIAGRAM

18000 – 120000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]
8	ВО-21-210А-10ДУ-6	АИР112МВ6	950	4
9	ВО-21-210Б-10ДУ-6	АИР132S6	950	5,5
10	ВО-21-210А-12,5ДУ-8	АИР132М8	730	5,5
11	ВО-21-210Б-12,5ДУ-8	АИР160S8	730	7,5
12	ВО-21-210А-12,5ДУ-6	АИР160S6	950	11
13	ВО-21-210Б-12,5ДУ-6	АИР160М6	950	15
14	ВО-21-210А-16ДУ-8	АИР200М8	730	18,5
15	ВО-21-210Б-16ДУ-8	АИР225М8	730	30

Manufactured in accordance with TU 4861-018-64600223-13

500 – 49000 m³/hour

- ◆ Impeller with backward-curved blades;
- ◆ Powder coating of basic assemblies.

Low energy consumption.

Some fans are admitted to operate in the general ventilation mode at the speed decreased by at least 25% against specified in the catalog (for example, using frequency converter). Application capabilities are to be agreed with the manufacturer.

БРП-ДУ-С (VRP-DU-S) fans are fitted with exhaust connection providing jet velocity at the fan outlet of no less than 20 m/s.

Mountable both indoor and outdoor.

Impellers with high aerodynamic load.



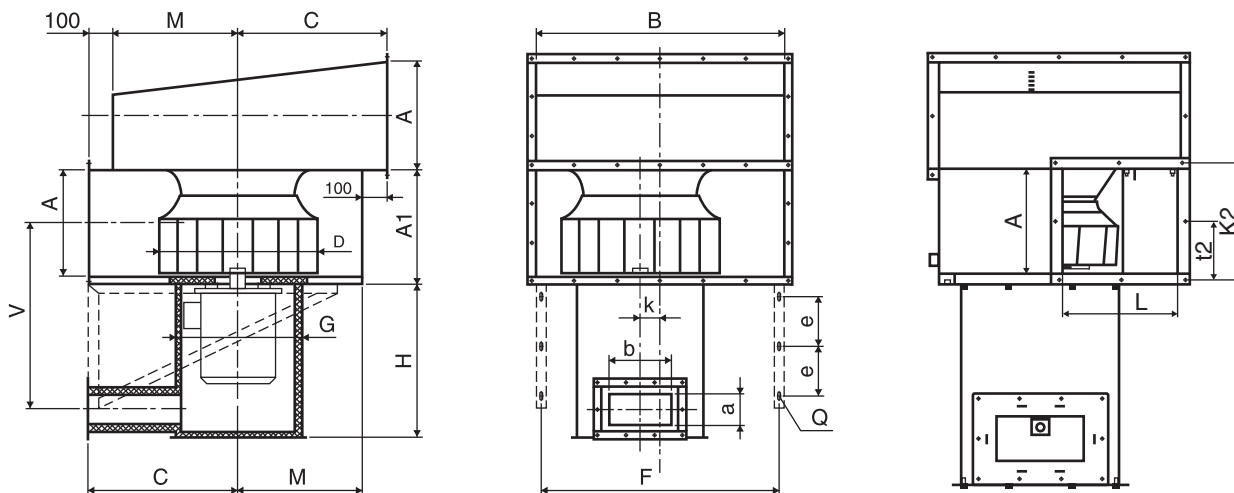
Explosion-proof version is available.

Fans are denoted as follows:

БРП - А - 3,15 В ДУ 400 - 01 С Пp - 4 - У1

- Climatic version;
- Number of motor poles (2, 4, 6, or 8);
- Air inlet arrangement with reference to the exhaust connection:
H – against; Пp – to the right; Лев – to the left;
- Spiral case;
- Modification index number:
01 – air inlet + thermo-insulated housing;
02 – thermally insulated housing only; 03 – Sir inlet only;
- Maximum temperature of the handled medium;
- Application code (smoke exhaustion);
- Special enclosure type (explosion-proof);
- Impeller diameter in decimeters;
- Power index (A or B);
- Fan type (Wall-mounted radial fan).

Floor-mounted version is optionally available.



№	Fan Type	Dimensions [mm]															
		D	A	B	A1	C	M	G	H	V	F	a	b	e	Q	k	W
1	БРП-А/Б-3,15ДУ-4	315	220	500	247	350	250	280	350	371	460	80	160	125	10x20	40	245
2	БРП-А/Б-3,55ДУ-4	355	245	560	272	380	280	367	465	508	520	100	200	125	10x20	43	270
3	БРП-А/Б-4ДУ-4	400	275	630	302	415	315	367	465	523	590	100	200	150	12x30	48	300
4	БРП-А/Б-4,5ДУ-4	450	310	710	337	455	355	367	465	540	670	100	200	150	12x30	55	345
5	БРП-А/Б-5ДУ-4	500	340	800	374	500	400	412	525	600	760	125	250	175	12x30	66	375
6	БРП-А/Б-5,6ДУ-4	560	380	900	414	550	450	512	635	728	860	125	250	200	12x30	76	420
7	БРП-А/Б-6,3ДУ-6	630	430	1000	464	600	500	512	635	753	960	125	250	200	12x30	80	480
8	БРП-А/Б-6,3ДУ-4	630	430	1000	464	600	500	512	635	753	960	125	250	200	12x30	80	480
9	БРП-А/Б-7,1ДУ-6	710	500	1125	534	662	562	642	760	909	1085	140	315	225	14x30	90	550
10	БРП-А/Б-7,1ДУ-4	710	500	1125	534	662	562	642	760	909	1085	140	315	225	14x30	90	550
11	БРП-А-8ДУ-8	800	560	1250	594	725	625	722	840	1017	1210	140	315	225	14x30	90	620
12	БРП-А/Б-8ДУ-6	800	560	1250	594	725	625	722	840	1017	1210	140	315	225	14x30	90	620
13	БРП-А/Б-8ДУ-4	800	560	1250	594	725	625	722	840	1017	1210	140	315	225	14x30	90	620

* Dimensions are reference only

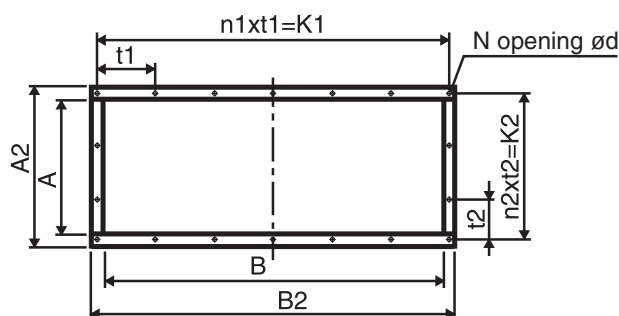


Fig. 1. Air Inlet and Outlets

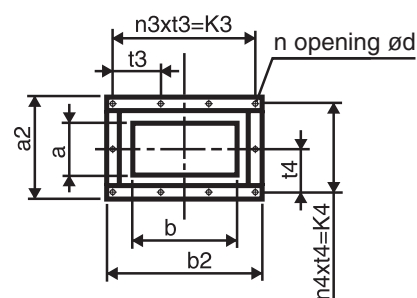
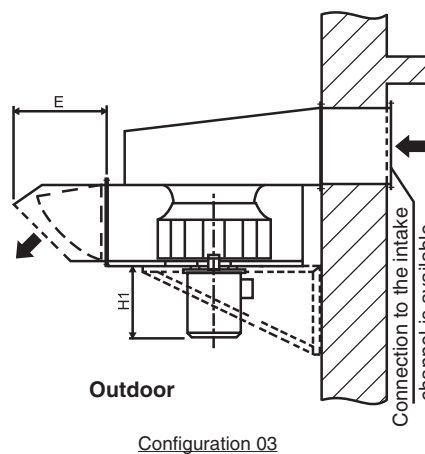
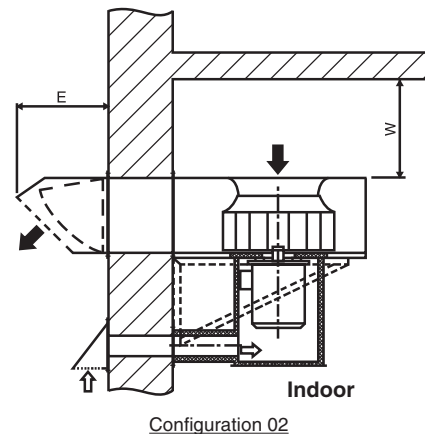
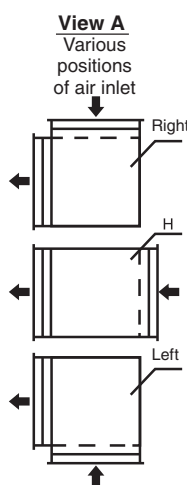
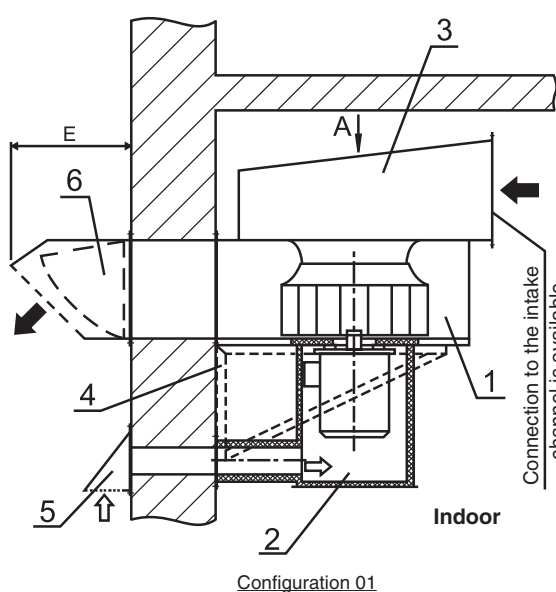


Fig. 2. Cooling Air Inlet

№	Fan Type	Dimensions [mm], See Fig. 1												Dimensions [mm], See Fig. 2														
		A	B	A2	B2	t1	t2	N	n1	n2	K1	K2	d	a	b	a2	b2	t3	t4	n	n3	n4	K3	K4	d1			
1	БРП-А/Б-3,15ДУ	220	500	270	550	132,5	125	12	4	2	530	250	8	80	160	188	268	82,5	84	10	3	2	247,5	168	8			
2	БРП-А/Б-3,55ДУ	245	560	295	610	147,5	137,5	12	4	2	590	275	8	100	200	208	308	96	94	10	3	2	288	188	8			
3	БРП-А/Б-4ДУ	275	630	325	680	132	152,5	14	5	2	660	305	8	100	200	208	308	96	94	10	3	2	288	188	8			
4	БРП-А/Б-4,5ДУ	310	710	360	760	148	113	16	5	3	740	339	8	100	200	208	308	96	94	10	3	2	288	188	8			
5	БРП-А/Б-5ДУ	340	800	390	850	166	123	16	5	3	830	369	8	125	250	247	372	116	111,5	10	3	2	348	223	10			
6	БРП-А/Б-5,6ДУ	380	900	444	964	156,5	139	18	6	3	939	417	10	125	250	247	372	116	111,5	10	3	2	348	223	10			
7	БРП-А/Б-6,3ДУ	430	1000	494	1064	173	156	18	6	3	1038	468	10	125	250	247	372	116	111,5	10	3	2	348	223	10			
8	БРП-А/Б-7,1ДУ	500	1125	564	1189	166	179	20	7	3	1162	537	10	140	315	262	437	137	118	10	3	2	411	236	10			
9	БРП-А/Б-8ДУ	560	1250	624	1314	184	199	20	7	3	1288	597	10	140	315	262	437	137	118	10	3	2	411	236	10			

VRP DU Fan Positioning Options (Wall-Mounted Configuration)



Main Configuration:

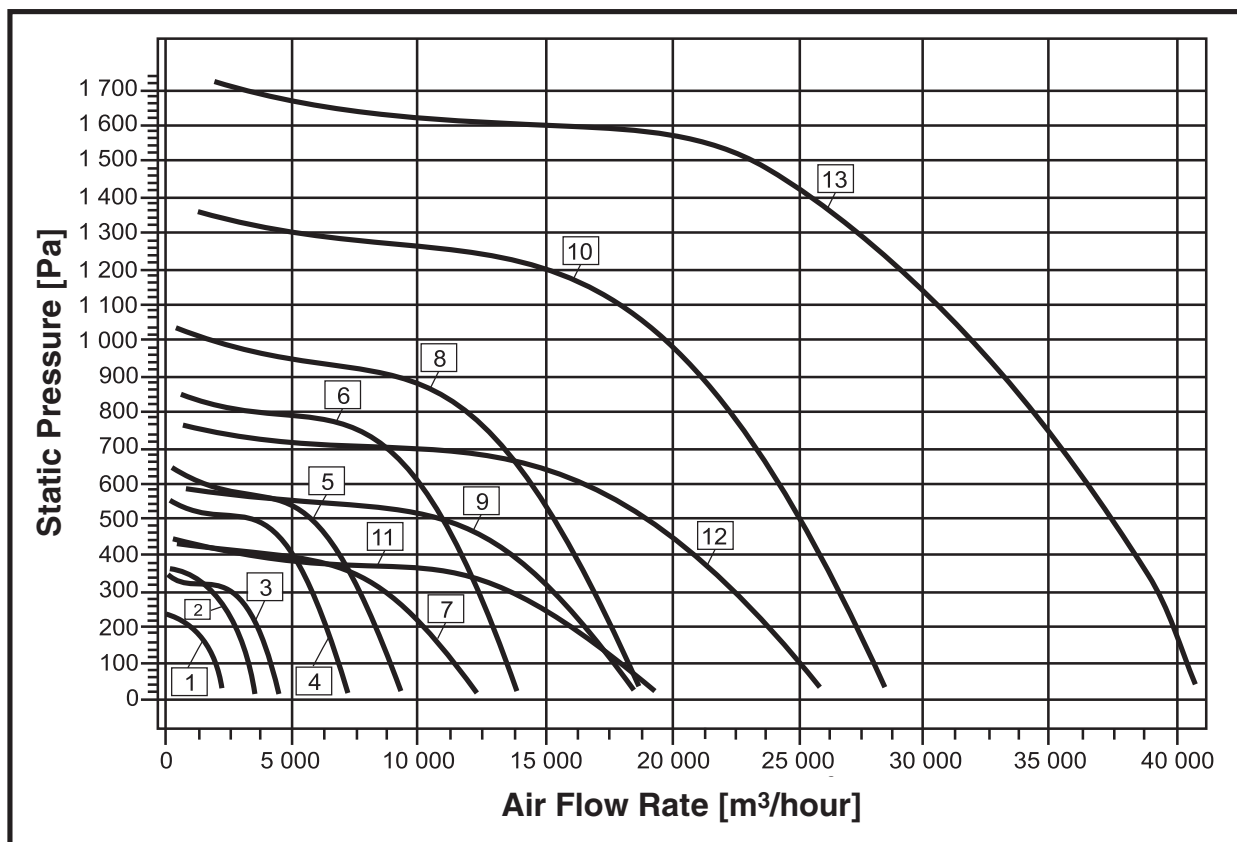
- 1 – Housing
- 2 – Thermally insulated cover
- 3 – Air inlet (in version 01, 03)

Accessories (see page 167):

- 4 – Mounting brackets
- 5 – Outdoor air hood
- 6 – Masked inlet damper

CHARACTERISTICS SUMMARY DIAGRAM

500 – 41000 m³/hour



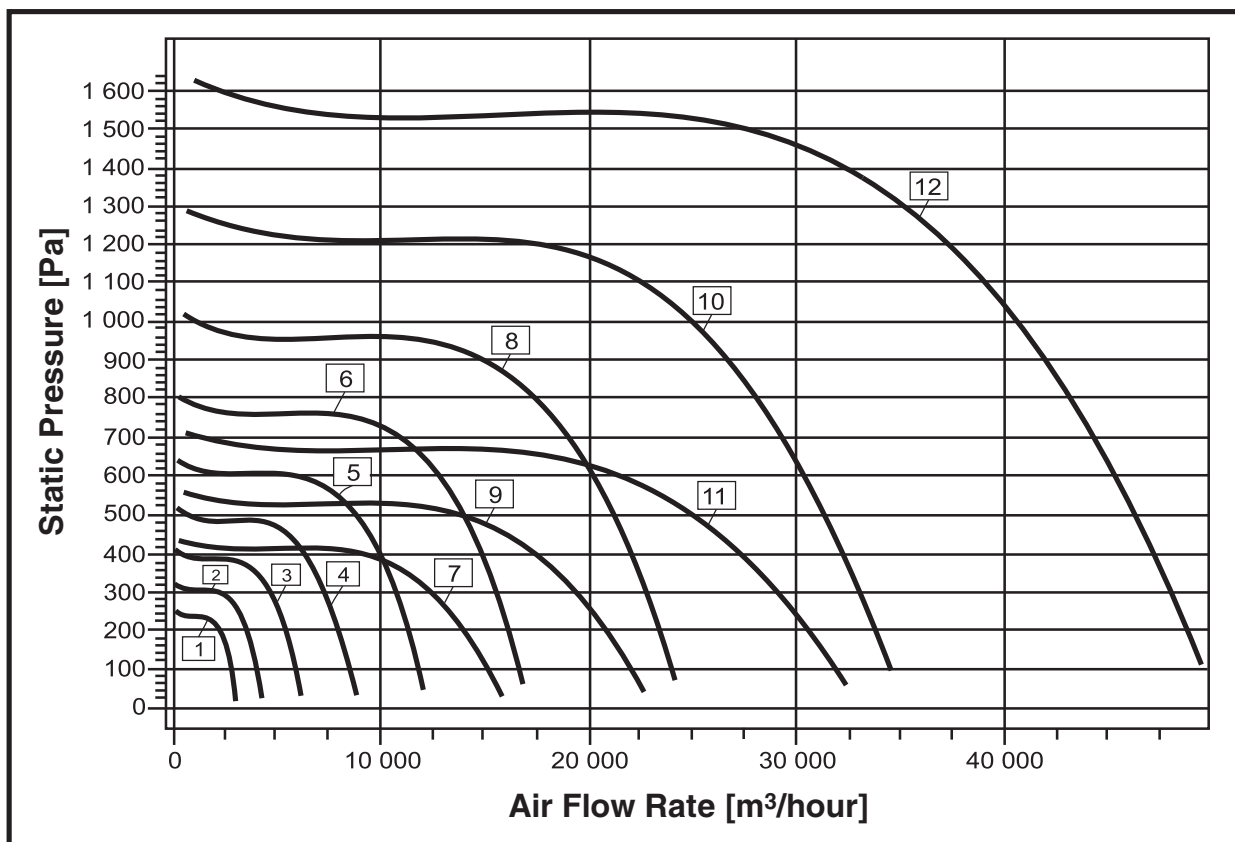
No.	Fan Model	Motor			Capacity Rating [m ³ /hour]	Fan Weight [kg]
		Type	Rotation Speed [rpm]	Power [kW]		
1	ВРП-А-3,15ДУ-4	АИР56В4	1450	0,18	2000	57
2	ВРП-А-3,55ДУ-4	АИР63В4	1450	0,37	4000	70
3	ВРП-А-4ДУ-4	АИР71А4	1450	0,55	4800	100
4	ВРП-А-4,5ДУ-4	АИР80А4	1450	1,1	7000	130
5	ВРП-А-5ДУ-4	АИР80В4	1450	1,5	9000	164
6	ВРП-А-5,6ДУ-4	АИР100S4	1450	3	14000	225
7	ВРП-А-6,3ДУ-6	АИР90L6	950	1,5	12000	240
8	ВРП-А-6,3ДУ-4	АИР112М4	1450	5,5	18000	265
9	ВРП-А-7,1ДУ-6	АИР112МА6	950	3	17500	345
10	ВРП-А-7,1ДУ-4	АИР132М4	1450	11	38000	380
11	ВРП-А-8ДУ-8	АИР112МА8	710	2,2	19000	480
12	ВРП-А-8ДУ-6	АИР132S6	950	5,5	25000	490
13	ВРП-А-8ДУ-4	АИР160S4	1450	15	40000	540

Notes:

1) Fan weight values are specified for configuration with air inlet and thermally insulated housing (weights of mounting brackets are not considered. Weight is specified for reference only).

CHARACTERISTICS SUMMARY DIAGRAM

1000 – 49000 m³/hour



No.	Fan Model	Motor				Fan Weight [kg]
		Type	Rotation Speed [rpm]	Power [kW]	apacity Rating [m³/hour]	
1	ВРП-Б-3,15ДУ-4	АИР63В4	1450	0,37	2600	60
2	ВРП-Б-3,55ДУ-4	АИР71А4	1450	0,55	4500	75
3	ВРП-Б-4ДУ-4	АИР71В4	1450	0,75	6000	115
4	ВРП-Б-4,5ДУ-4	АИР80В4	1450	1,5	8500	150
5	ВРП-Б-5ДУ-4	АИР90Л4	1450	2,2	12000	180
6	ВРП-Б-5,6ДУ-4	АИР100Л4	1450	4	16000	235
7	ВРП-Б-6,3ДУ-6	АИР100Л6	950	2,2	15500	255
8	ВРП-Б-6,3ДУ-4	АИР132S4	1450	7,5	24000	295
9	ВРП-Б-7,1ДУ-6	АИР112MB6	950	4	22000	345
10	ВРП-Б-7,1ДУ-4	АИР160S4	1450	15	34000	425
11	ВРП-Б-8ДУ-6	АИР132M6	950	7,5	32000	510
12	ВРП-Б-8ДУ-4	АИР180S4	1450	22	35000	590
		АИР180M4	1450	30	48000	620

Notes:

1) Fan weight values are specified for configuration with air inlet and thermally insulated housing (weights of mounting brackets are not considered. Weight is specified for reference only.

Manufactured in accordance with TU 4861-005-64600223-12

800 – 65000 m³/hour

VR-80-70 DU fans are equipped with radial impellers with backward-curved blades directly driven from industrial three-phase induction motor.

Some fans are allowed to be applied in the general ventilation mode providing rotation speed decrease by at least 25% against value specified in the catalogue (for instance, using frequency converter). Application shall be agreed with manufacturer.

Explosion-proof version is available.

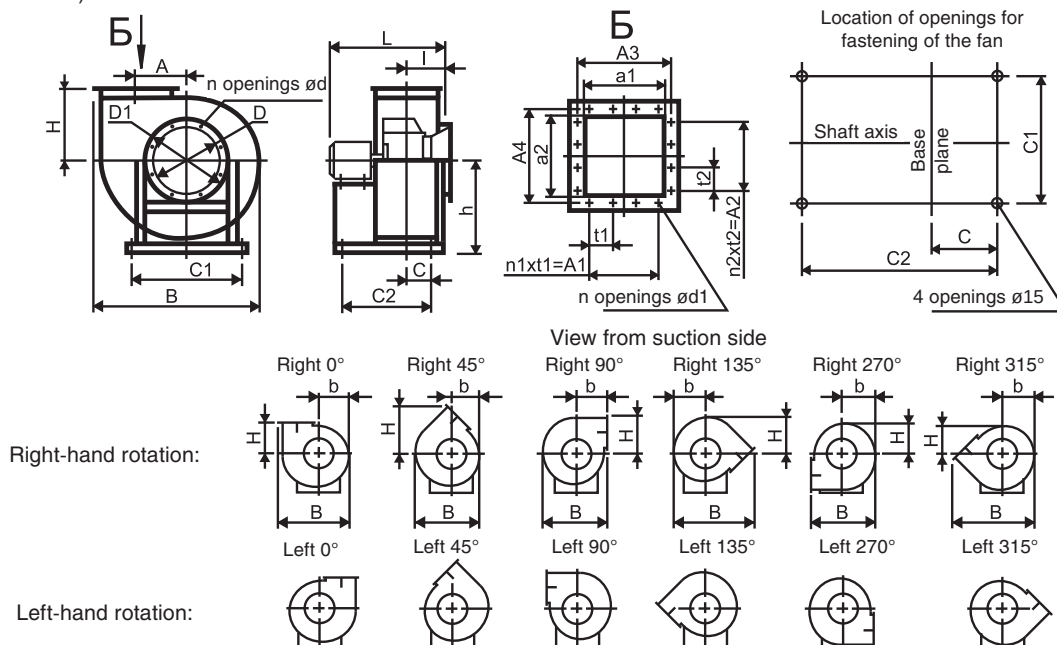


Fans are denoted as follows:

BP - 80 - 70 - 6,3 B ДУ400 - 01 - ПР90° У2

- BP - Fan Type (radial fan).
- 80 - Aerodynamic configuration index
- 70 - Enclosure type (explosion proof);
- 6,3 - Application code (smoke removal);
- B - Designation code (smoke exhaust);
- ДУ400 - Maximum temperature of the handled medium;
- 01 - Modification index number;
- ПР90° - Rotating direction and housing positioning;
- У2 - Climatic version;

It is allowed operating fans according to the first category of location provided special appliances and motor weather protection (see pp.169-170).

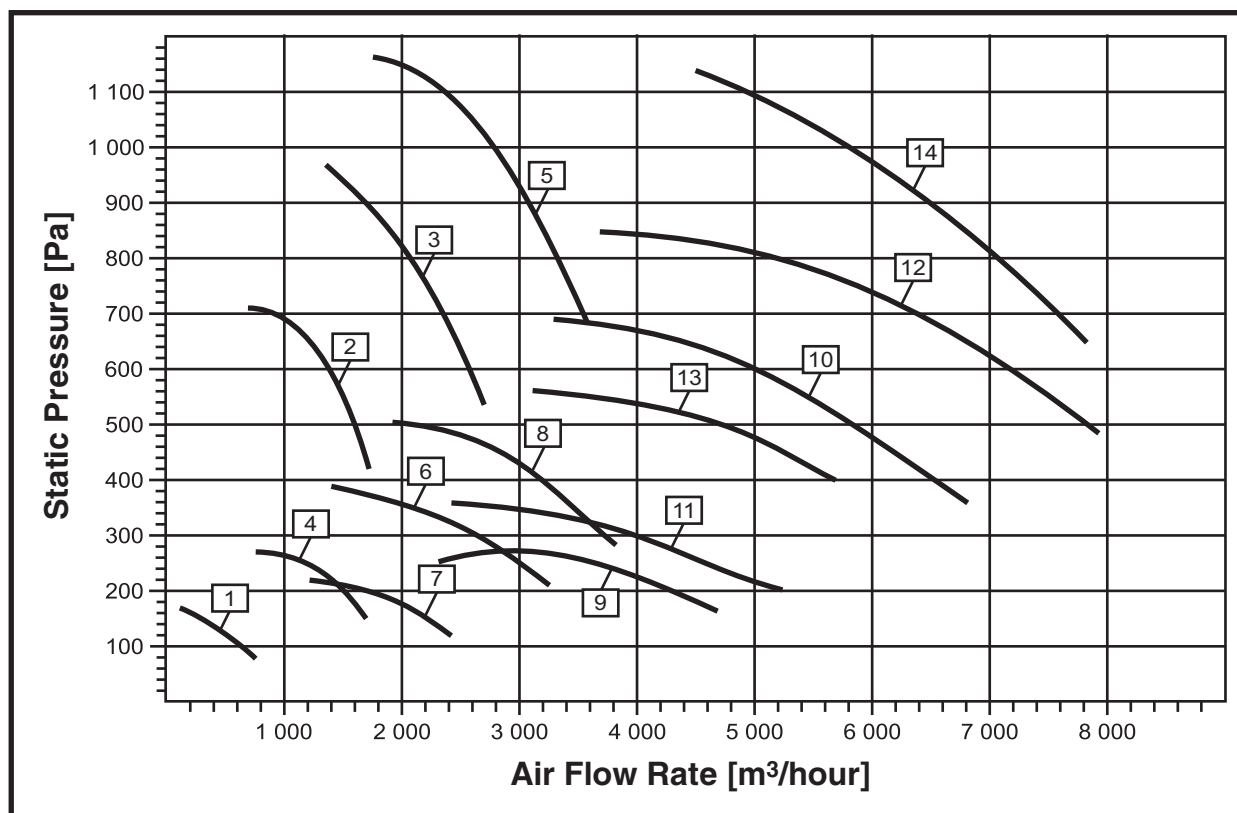


Fan Type	Dimensions [mm]																					
	h	l	L _{max}	A	D	D1	d	d1	a1	a2	A1	A2	A3	A4	t1	t2	C	C1	C2	N	n	n1
BP-80-70-2.5ДУ	320	132	625	162	250	274	7	7	175		100		205		100	113	280	514	8	8	1	
BP-80-70-2.8ДУ	350	150	545	182	280	300	7	7	196		100		230		100	123	500	500	8	8	1	2
BP-80-70-3.15ДУ	410	162	625	205	315	345	7	7	221		200		255		100	316	220	400	8	8	2	2
BP-80-70-3.55ДУ	430	430	670	230	355	385	7	7	248		200		280		100	95	350	500	8	12	2	2
BP-80-70-4ДУ	520	190	820	260	400	430	7	7	280		200		310		100	165	350	640	8	12	2	2
BP-80-70-4.5ДУ	464	207	790	292	450	480	7	7	315		200		350		100	192	410	750	8	12	2	2
BP-80-70-5ДУ	650	225	830	324	500	530	7	7	350		300		380		100	95	410	900	8	12	3	3
BP-80-70-5.6ДУ	640	640	860	364	560	590	7	7	392		300		425		100	136	410	600	8	12	3	3
BP-80-70-6.3ДУ	720	300	1000	409	630	660	7	7	447		400		470		100	285	480	900	16	16	4	4
BP-80-70-7.1ДУ	800	302	1100	462	710	740	7	7	497		300		540		150	205	550	900	16	16	2	2
BP-80-70-8ДУ	905	378	1500	520	800	830	10	10	560		600		600		150	229	610	1050	16	16	4	4
BP-80-70-9ДУ	1000	258	1250	589	900	940	10	10	630		450		670		150	242	620	1000	16	16	3	3
BP-80-70-10ДУ	1130	433	1440	650	1000	1040	12	12	704		750		750		150	360	840	1260	24	20	4	4
BP-80-70-11.2ДУ	1250	445	1610	728	1120	1165	12	12	784		600		840		150	302	620	1300	24	20	4	4
BP-80-70-12.5ДУ	1350	542	1690	813	1250	1295	12	12	875		750		930		150	267	1260	1350	24	24	5	5

Fan Type	Position																	
	Rt0°, Lt0°			Rt45°, Lt45°			Rt90°, Lt90°			Rt135°, Lt135°			Rt270°, Lt270°			Rt315°, Lt315°		
	B	b	H	B	b	H	B	b	H	B	b	H	B	b	H	B	b	H
BP-80-70-2.5ДУ	465	199	198	408	173	335	417	220	276	535	204	235	417	219	189	539	204	173
BP-80-70-2.8ДУ	735	217	200	469	200	359	459	201	307	594	235	270	459	259	217	594	235	200
BP-80-70-3.15ДУ	410	238	293	515	218	413	516	277	342	670	258	297	516	277	238	670	258	218
BP-80-70-3.55ДУ	655	273	255	591	251	450	573	255	382	746	296	340	573	317	273	746	296	340
BP-80-70-4ДУ	735	307	292	633	282	510	648	292	428	840	332	382	648	307	307	840	332	280
BP-80-70-4.5ДУ	822	344	313	744	316	560	713	313	292	932	372	428	713	400	344	932	372	316
BP-80-70-5ДУ	915	389	340	940	357	612	790	454	526	1032	420	376	790	454	389	1032	420	357
BP-80-70-5.6ДУ	1015	427	390	923	392	690	885	390	364	1152	462	531	885	496	426	1152	462	531
BP-80-70-6.3ДУ	1143	487	420	1052	447	760	985	564	656	1286	526	605	985	564	487	1286	526	447
BP-80-70-7.1ДУ	1280	538	476	1164	493	862	1102	476	744	1444	582	671	1102	626	538	1444	582	493
BP-80-70-8ДУ	1450	614	533	1328	564	965	1247	714	836	1629	664	764	1247	714	614	1629	664	564
BP-80-70-9ДУ	1590	628	612	1476	626	1092	1405	612	934	1830	738	850	1405	628	628	1830	738	626
BP-80-70-10ДУ	1130	762	646	1642	695	1191	1525	892	1044	2012	820	951	1525	892	762	2012	820	695
BP-80-70-11.2ДУ	2015	848	733	1835	777	1344	1720	733	1167	2260	918	1058	1720	708	848	2260	918	777
BP-80-70-12.5ДУ	1350	952	800	2060	880	1490	1908	1116	1294	2520	1030	1180	1908	1116	952	2520	1030	880

CHARACTERISTICS SUMMARY DIAGRAM

800 – 7800 m³/hour



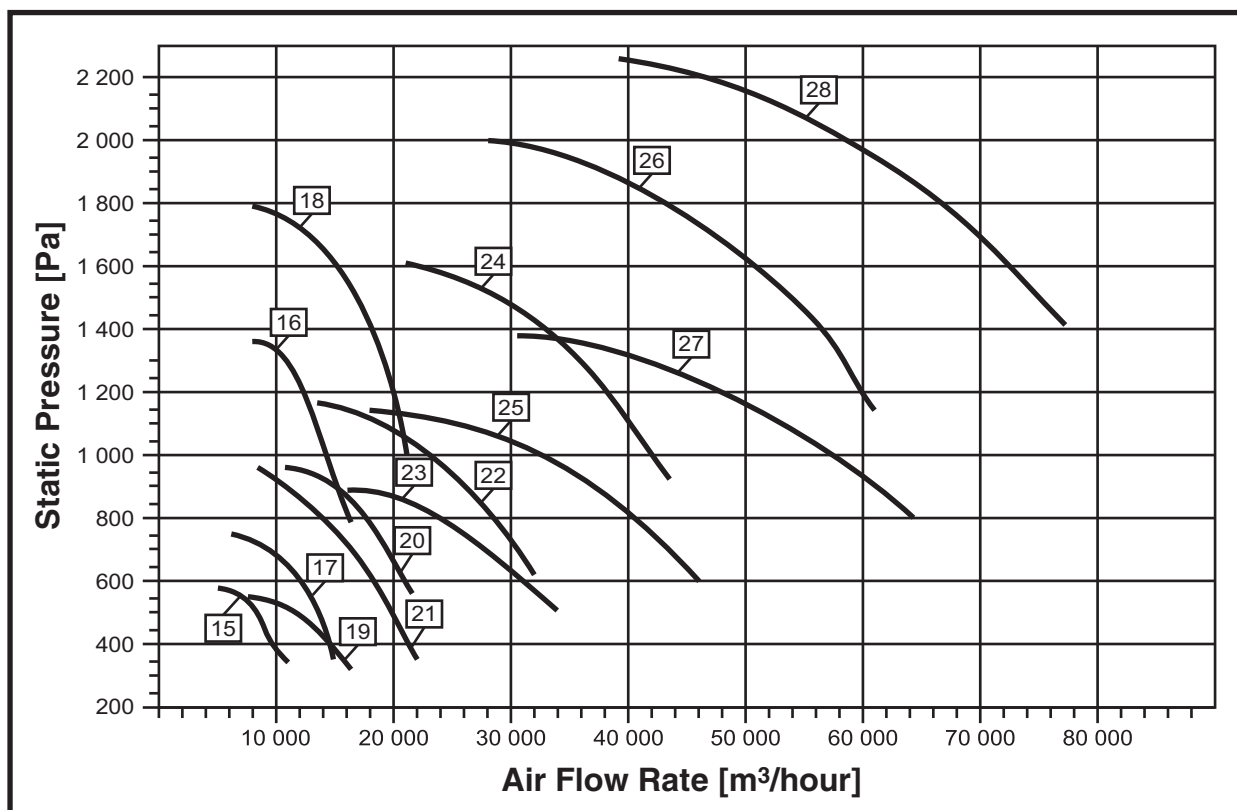
No.	Fan Model	No. of Modification	Motor			Fan Weight [kg]
			Type	Rotation Speed [rpm]	Power [kW]	
1	BP-80-70-2,5ДУ	00	AIP56A4	1450	0,12	30
2		01	AIP63B2	2950	0,55	30
3	BP-80-70-2,8ДУ	00	AIP71A2	2950	0,25	33
4	BP-80-70-3,15ДУ	00	AIP56B4	1450	0,18	36
5		01	AIP80A2	2950	1,5	40
6	BP-80-70-3,55ДУ	00	AIP63A4	1450	0,25	45
7	BP-80-70-4ДУ	00	AIP63A6	950	0,18	52
8		01	AIP71A4	1450	0,55	55
9	BP-80-70-4,5ДУ	00	AIP63B6	950	0,25	56
10		01	AIP71B2	1450	1,1	60
11	BP-80-70-5ДУ	00	AIP71B6	950	0,55	92
12		01	AIP90L4	1450	2,2	107
13	BP-80-70-5,6ДУ	00	AIP80A6	950	0,75	116
14		01	AIP100S4	1450	3	135

Notes:

- 1) Aerodynamic performance of BP-80-70ДУ fans shall be selected in accordance with the table above
- 2) Weight is specified for reference only.

CHARACTERISTICS SUMMARY DIAGRAM

5500 – 65000 m³/hour



No.	Fan Model	No. of Modification	Motor			Fan Weight [kg]
			Type	Rotation Speed [rpm]	Power [kW]	
15	BP-80-70-6,3ДУ	00	AIP100L6	950	2,2	162
16		01	AIP112M4	1450	5,5	179
17	BP-80-70-7,1ДУ	00	AIP112MA6	950	3	205
18		01	AIP132M4	1450	11	225
19	BP-80-70-8ДУ	00	AIP112MB8	730	3	252
20		01	AIP132S6	950	5,5	277
21	BP-80-70-9ДУ	00	AIP132S8	730	4	460
22		01	AIP160S6	950	11	410
23	BP-80-70-10ДУ	00	AIP160S8	730	7,5	600
24		01	AIP180M6	950	18,5	680
25	BP-80-70-11,2ДУ	00	AIP180M8	730	15	880
26		01	AIP200L6	950	30	790
27		00	AIP200L8	730	22	950
28	BP-80-70-12,5ДУ	01	AIP225M8	730	30	1000
		02	AIP250S6	950	45	1100

Notes:

- 1) Aerodynamic performance of BP-80-70ДУ fans shall be selected in accordance with the table above
- 2) Weight is specified for reference only.

Manufactured in accordance with TU 4861-005-64600223-12

3000 – 52000 m³/hour

BP-280-46 ДУ (VR-280-46 DU) fans are equipped with radial impellers with forward-curved blades directly actuated by general purpose industrial-grade three-phase induction motors.

Some fans are allowed to be applied in the general ventilation mode providing rotation speed decrease by at least 25% against value specified in the catalogue (for instance, using frequency converter). Application shall be agreed with manufacturer.

Explosion-proof version is available.

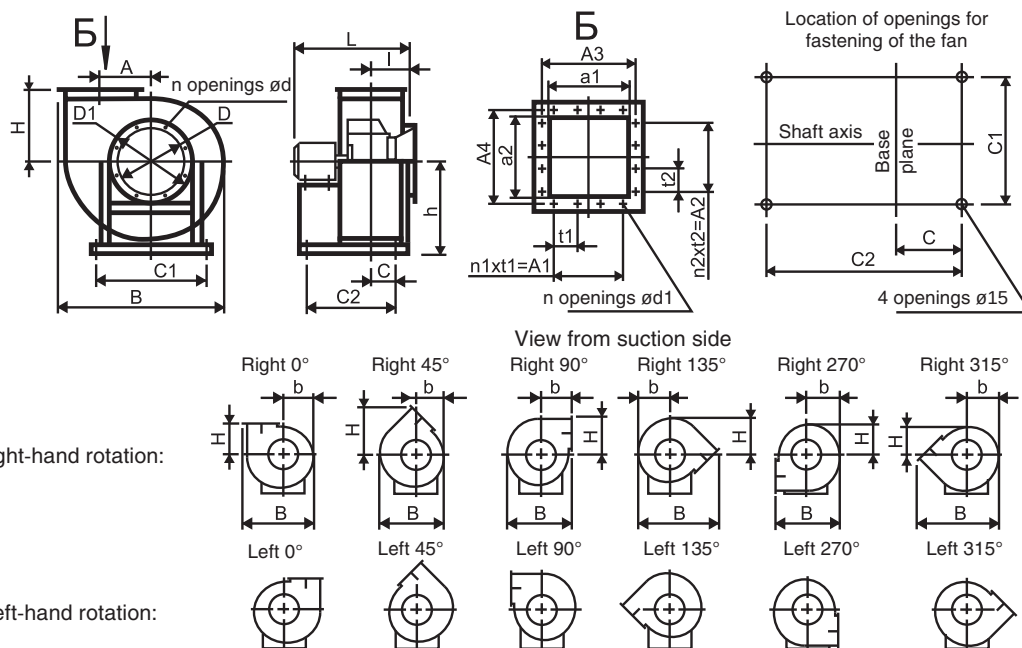
It is allowed operating fans according to the first category of location provided special appliances and motor weather protection (see pp.169-170).



Fans are denoted as follows:

BP - 280 - 46 - 6,3 B ДУ 400 - 01 - ПР90° - Y2

- BP - Fan Type (radial fan);
- 280 - Aerodynamic configuration index;
- 46 - Impeller diameter in decimeters;
- 6,3 B - Enclosure type (explosion proof);
- ДУ - Application code (smoke exhaustion);
- 400 - Maximum temperature of the handled medium;
- 01 - Modification index number;
- ПР90° - Rotating direction and housing positioning;
- Y2 - Climatic version;

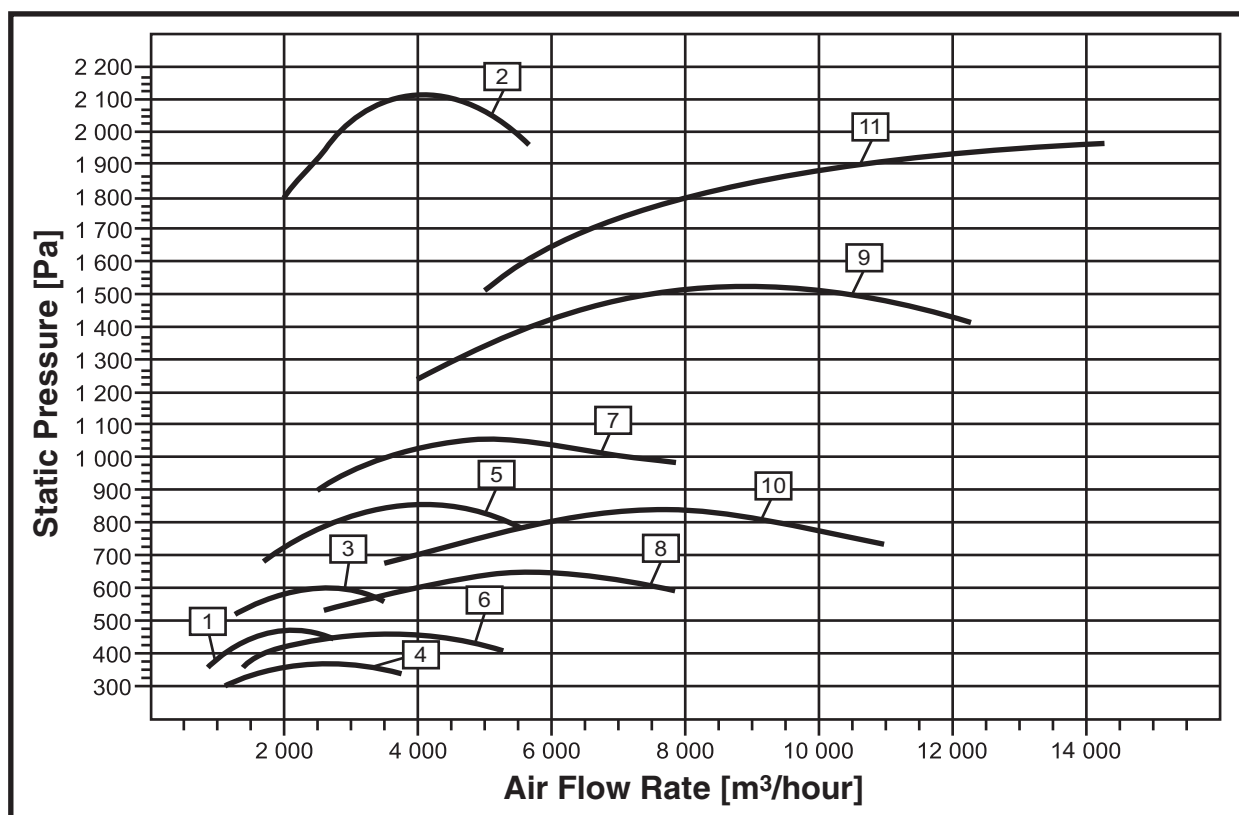


Fan Type	Dimensions [mm]																		
	h	l	L _{max}	A	D	D1	d	d1	a1	a2	A1	A2	A3	A4	t1	t2	C	C1	C2
BP-280-46-2.5ДУ	320	132	625	162	250	274	7	7	175	100	205	100	113	280	514	8	8	1	1
BP-280-46-2.8ДУ	350	150	545	182	280	300	7	7	196	100	230	100	123	500	500	8	8	1	2
BP-280-46-3.15ДУ	410	162	625	205	315	345	7	7	221	200	255	100	316	220	400	8	8	2	2
BP-280-46-3.55ДУ	430	430	670	230	355	385	7	7	248	200	280	100	95	350	500	8	12	2	2
BP-280-46-4ДУ	520	190	820	260	400	430	7	7	280	200	310	100	165	350	640	8	12	2	2
BP-280-46-4.5ДУ	464	207	790	292	450	480	7	7	315	200	350	100	192	410	750	8	12	2	2
BP-280-46-5ДУ	650	225	830	324	500	530	7	7	350	300	380	100	95	410	900	8	12	3	3
BP-280-46-5.6ДУ	640	640	860	364	560	590	7	7	392	300	425	100	136	410	600	8	12	3	3
BP-280-46-6.3ДУ	720	300	1000	409	630	660	7	7	447	400	470	100	285	480	900	16	16	4	4
BP-280-46-7.1ДУ	800	302	1100	462	710	740	7	7	497	300	540	150	205	550	900	16	16	2	2
BP-280-46-8ДУ	905	378	1500	520	800	830	10	10	560	600	600	150	229	610	1050	16	16	4	4

Fan Type	Position																	
	Rt0°, Lt0°			Rt45°, Lt45°			Rt90°, Lt90°			Rt135°, Lt135°			Rt270°, Lt270°			Rt315°, Lt315°		
	B	b	H	B	b	H	B	b	H	B	b	H	B	b	H	B	b	H
BP-280-46-2.5ДУ	465	189	198	408	173	335	417	220	276	535	204	235	417	219	189	539	204	173
BP-280-46-2.8ДУ	735	217	200	469	200	359	459	201	307	594	235	270	459	259	217	594	235	200
BP-280-46-3.15ДУ	410	238	293	515	218	413	516	277	342	670	258	297	516	277	238	670	258	218
BP-280-46-3.55ДУ	655	273	255	591	251	450	573	255	382	746	296	340	573	317	273	746	296	340
BP-280-46-4ДУ	735	307	292	633	282	510	648	292	428	840	332	382	648	307	307	840	332	280
BP-280-46-4.5ДУ	822	344	313	744	316	560	713	313	292	932	372	428	713	400	344	932	372	316
BP-280-46-5ДУ	915	389	340	940	357	612	790	454	526	1032	420	376	790	454	389	1032	420	357
BP-280-46-5.6ДУ	1015	427	390	923	392	690	885	390	364	1152	462	531	885	496	426	1152	462	531
BP-280-46-6.3ДУ	1143	487	420	1052	447	760	985	564	656	1286	526	605	985	564	487	1286	526	447
BP-280-46-7.1ДУ	1280	538	476	1164	493	862	1102	476	744	1444	582	671	1102	626	538	1444	582	493
BP-280-46-8ДУ	1450	614	533	1328	564	965	1247	714	836	1629	664	764	1247	714	614	1629	664	564

CHARACTERISTICS SUMMARY DIAGRAM

800 – 12000 m³/hour



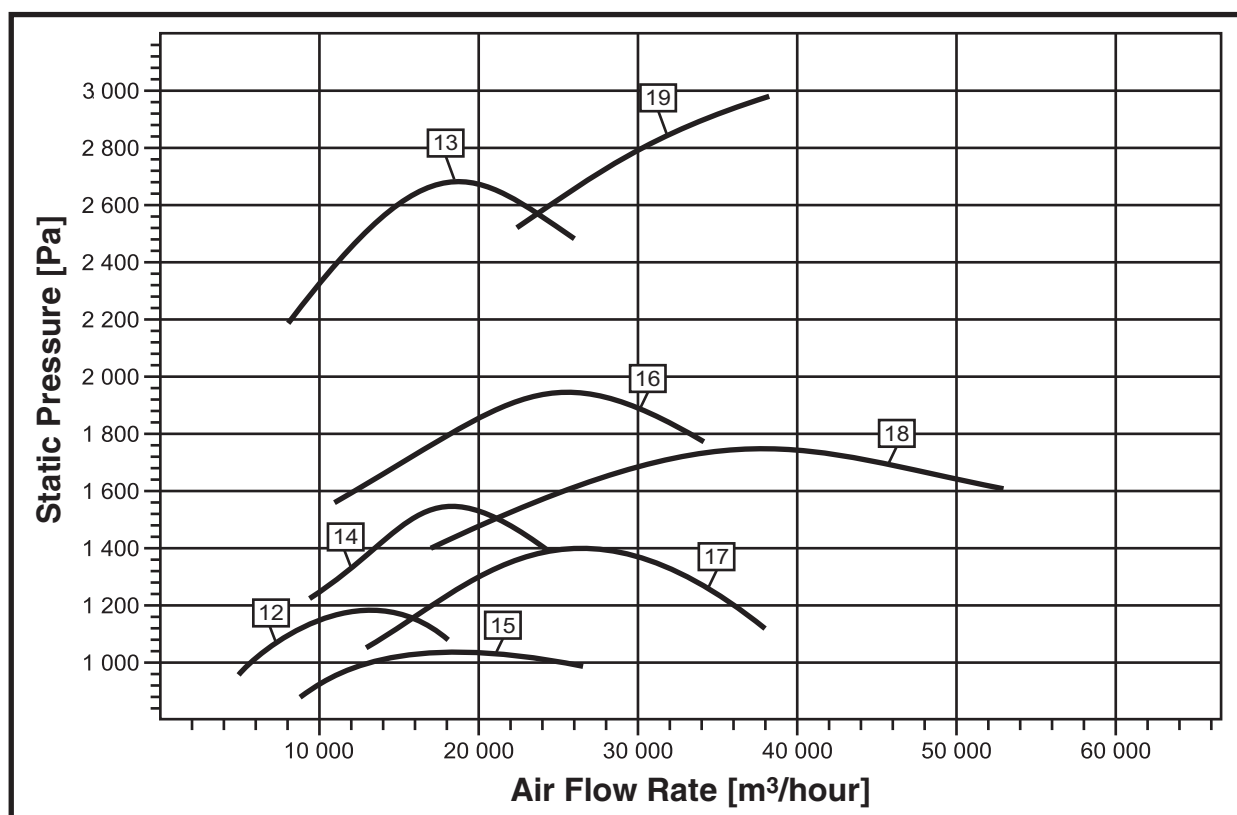
No.	Fan Model	No. of Modification	Motor			Fan Weight [kg]
			Type	Rotation Speed [rpm]	Power [kW]	
1	BP-280-46-2,5ДУ	00	AIP71A4	1450	0,55	30
2		01	AIP90L2	2950	3	42
		02	AIP100L2	2950	5,5	53
3	BP-280-46-2,8ДУ	00	AIP80A4	1450	1,1	35
4	BP-280-46-3,15ДУ	00	AIP80A6	950	0,75	46
		01	AIP80B4	1450	1,5	47
5		02	AIP90L4	1450	2,2	51
6	BP-280-46-3,55ДУ	00	AIP80B6	950	1,1	52
7		01	AIP100L4	1450	4	60
8	BP-280-46-4ДУ	00	AIP90L6	950	1,5	71
		01	AIP100L6	950	2,2	78,8
		02	AIP112M4	1450	5,5	126
9		03	AIP132S4	1450	7,5	147
10	BP-280-46-4,5ДУ	00	AIP112MB6	950	4	134
11		01	AIP160S4	1450	15	205

Notes:

- 1) Aerodynamic performance of BP-280-46ДУ fans shall be selected in accordance with the table above
- 2) Weight is specified for reference only.

CHARACTERISTICS SUMMARY DIAGRAM

6000 – 52000 m³/hour



No.	Fan Model	No. of Modification	Motor			Fan Weight [kg]
			Type	Rotation Speed [rpm]	Power [kW]	
12	BP-280-46-5ДУ	00	AIP132S6	950	5,5	160
		01	AIP132M6	950	7,5	176
13		02	AIP132M4	1450	11	176
		03	AIP160S4	1450	15	218
		04	AIP180S4	1450	22	268
14	BP-280-46-5,6ДУ	00	AIP160M6	950	15	256
15	BP-280-46-6,3ДУ	00	AIP132M8	730	5,5	214
		01	AIP132S8	730	7,5	256
		02	AIP160M8	730	11	281
16		03	AIP160M6	950	15	293
		04	AIP200M6	950	22	403
17	BP-280-46-7,1ДУ	00	AIP200L8	730	22	445
18	BP-280-46-8ДУ	00	AIP200M8	730	18,5	473
		01	AIP225M8	730	30	558
19		02	AIP250S6	950	45	724

Notes:

- 1) Aerodynamic performance of BP-280-46ДУ fans shall be selected in accordance with the table above
- 2) Weight is specified for reference only

Manufactured in accordance with TU 4861-031-64600223-13

300 – 47000 m³/hour

Fans are designed for moving of air-flue gas mixtures resulting from fire that have a temperature up to 400 °C during 120 minutes and up to 600 °C during 90 minutes.

Explosion-proof and/or corrosion-proof versions are available.

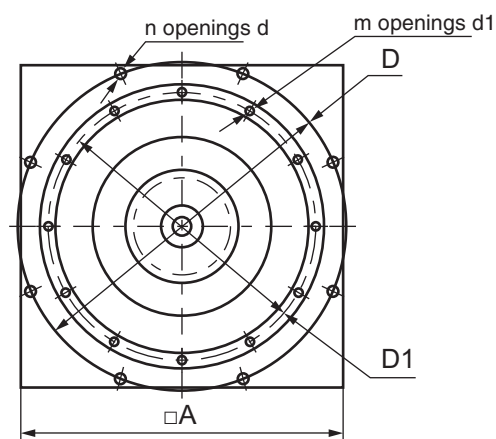
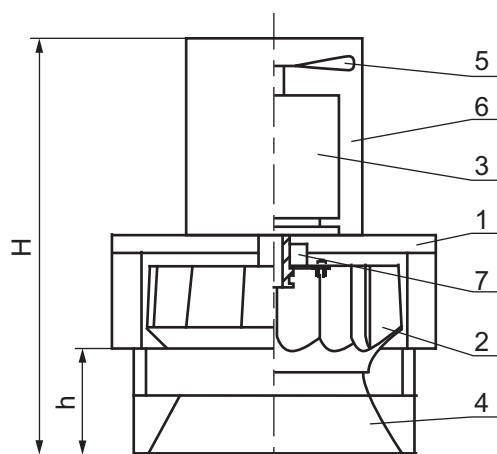
Fans are denoted as follows:

BEPC – A Φ – 3,15 B ДУ 400 – 00 – Y1

- Fan type (Radial roof fan);
- Aerodynamic power index (A or B);
- Air outlet direction option: sideways or (Φ) – Vertical air discharge upwards;
- Impeller diameter in decimeters;
- BK – Explosion-proof and Corrosion-proof;
- K – Corrosion-proof;
- Design variant: B – Explosion-proof;
- Application code (smoke exhaustion);
- Maximum temperature of the handled medium C;
- Modification index number depending on motor capacity: 00, 01, 02, 03, 04;
- Climatic version;

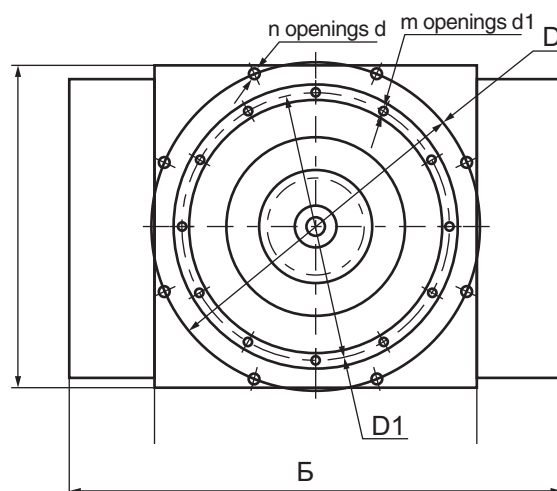
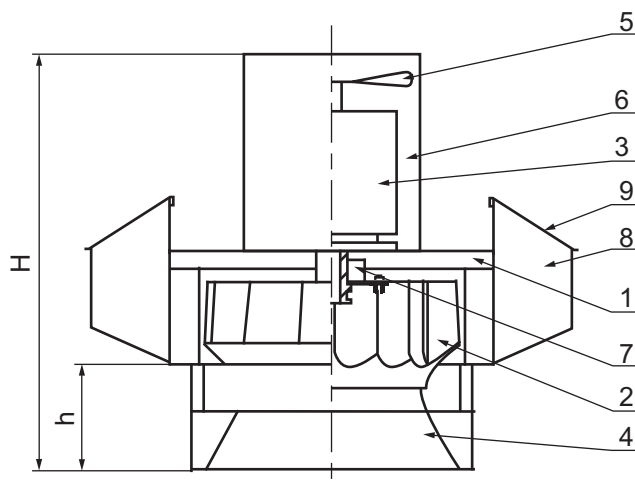


Design Variants A and B with Air Discharge Sideways



1 – casing; 2 – impeller; 3 – motor; 4 – chamber; 5 – fan blades; 6 – housing; 7 – heat insulation element.

Design Variants AΦ and BΦ with Vertical Air Discharge Upwards



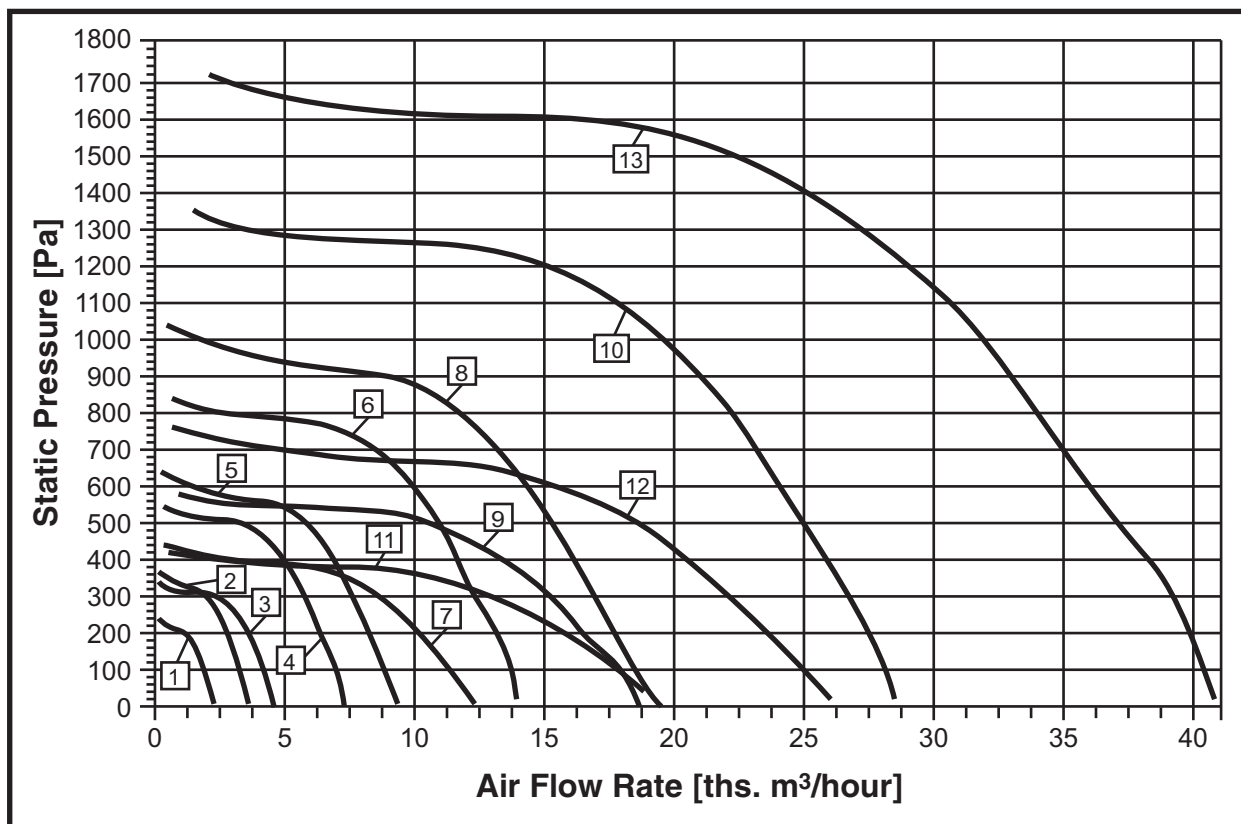
1 – casing; 2 – impeller; 3 – motor; 4 – chamber; 5 – fan blades; 6 – housing; 7 – heat insulation element; 8 – add-ons; 9 – shutters.

Table 1

Fan Model	Dimensions [mm]									
	H	h	A	Б	D	D1	d	d1	n	m
ВЕРС-А-3,15	535	146	470	—	470	345	12			
ВЕРС-АФ-3,15	535	146	470	662						
ВЕРС-Б-3,15	570	146	470	—						
ВЕРС-БФ-3,15	570	146	470	750						
ВЕРС-А-3,55	602	167	560	—	430	560		8	8	
ВЕРС-АФ-3,55	602	167	560	776						
ВЕРС-Б-3,55	642	167	560	—						
ВЕРС-БФ-3,55	642	167	560	880						
ВЕРС-А-4	646	180	560	—	480	650		8		
ВЕРС-АФ-4	646	180	560	834						
ВЕРС-Б-4	690	180	560	—						
ВЕРС-БФ-4	690	180	560	950						
ВЕРС-А-4,5	720	200	650	—	480	650				10
ВЕРС-АФ-4,5	720	200	650	970						
ВЕРС-Б-4,5	770	200	650	—						
ВЕРС-БФ-4,5	770	200	650	1092						
ВЕРС-А-5	811	222	755	—	772	590	14			
ВЕРС-АФ-5	811	222	755	1068						
ВЕРС-Б-5	866	222	755	—						
ВЕРС-БФ-5	866	222	755	1222						
ВЕРС-А-5,6	814	202	755	—	772	590				
ВЕРС-АФ-5,6	814	202	755	1246						
ВЕРС-Б-5,6	876	202	755	—						
ВЕРС-БФ-5,6	876	202	755	1386						
ВЕРС-А-6,3	937	230	755	—	800	660		10		12
ВЕРС-АФ-6,3	937	230	755	1246						
ВЕРС-Б-6,3	1007	230	755	—						
ВЕРС-БФ-6,3	1007	230	755	1386						
ВЕРС-А-7,1	1059	353	840	—	1072	830	18			
ВЕРС-АФ-7,1	1059	353	840	1330						
ВЕРС-Б-7,1	1137	353	840	—						
ВЕРС-БФ-7,1	1137	353	840	1520						
ВЕРС-А-8	1236	370	1080	—	1072	830	18			
ВЕРС-АФ-8	1236	370	1080	1600						
ВЕРС-Б-8	1410	370	1080	—						
ВЕРС-БФ-8	1410	370	1080	1800						

CHARACTERISTICS SUMMARY DIAGRAM

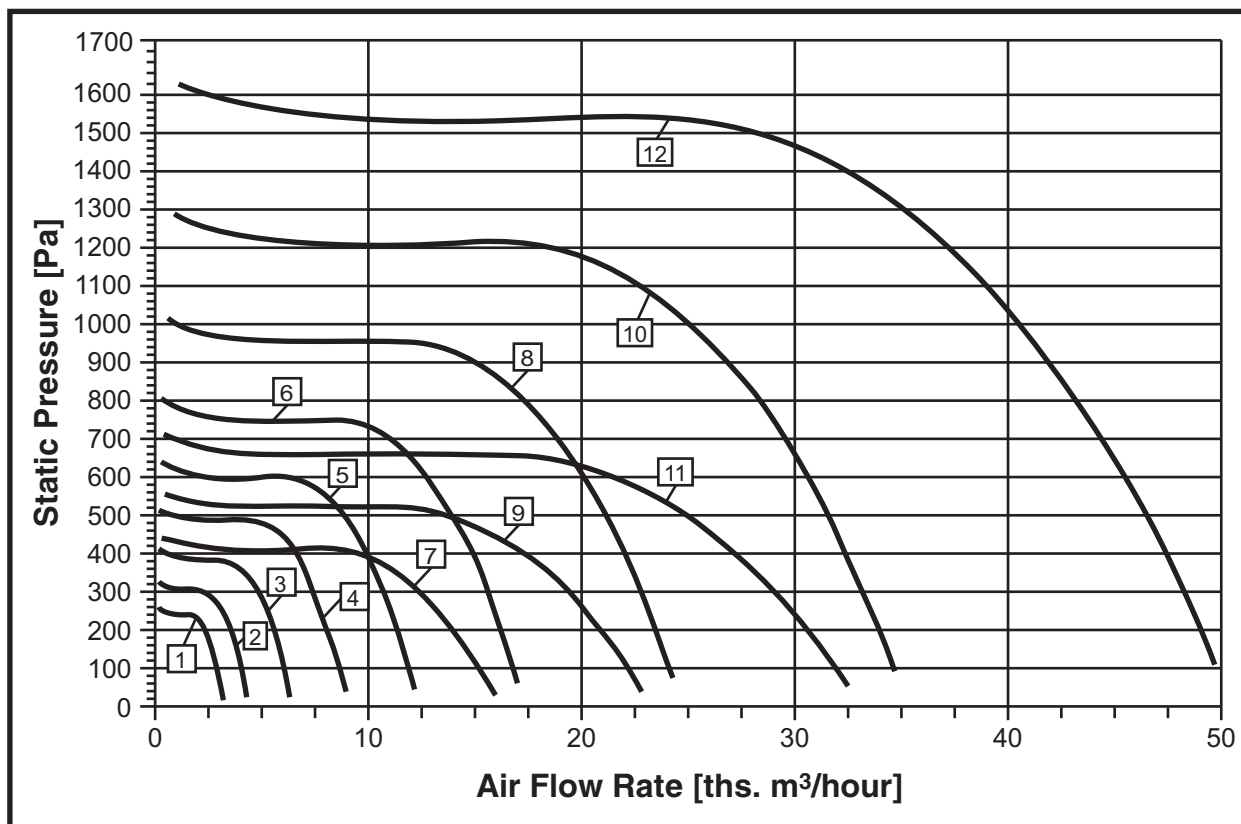
300 – 40000 m³/hour



No.	Fan Type	Modification No.	Motor Type		Fan Weight without Motor, max [kg]
			Rotation Speed [rpm]	Power [kW]	
1	BEPC-A(Φ)-3,15	00	1450	0,25	42
2	BEPC-A(Φ)-3,55	00	1450	0,37	50
3	BEPC-A(Φ)-4	00	1450	0,55	70
4	BEPC-A(Φ)-4,5	00	1450	1,1	86
5	BEPC-A(Φ)-5	00	1450	1,5	110
6	BEPC-A(Φ)-5,6	00	1450	3,0	130
7	BEPC-A(Φ)-6,3	00	950	1,5	130
8		01	1450	5,5	157
9	BEPC-A(Φ)-7,1	00	950	3,0	200
10		01	1450	11	219
11	BEPC-A-8	00	730	2,2	310
12		01	950	5,5	350
13		02	1450	18,5	375
12	BEPC-AΦ-8	00	950	5,5	350
13		01	1450	18,5	375

CHARACTERISTICS SUMMARY DIAGRAM

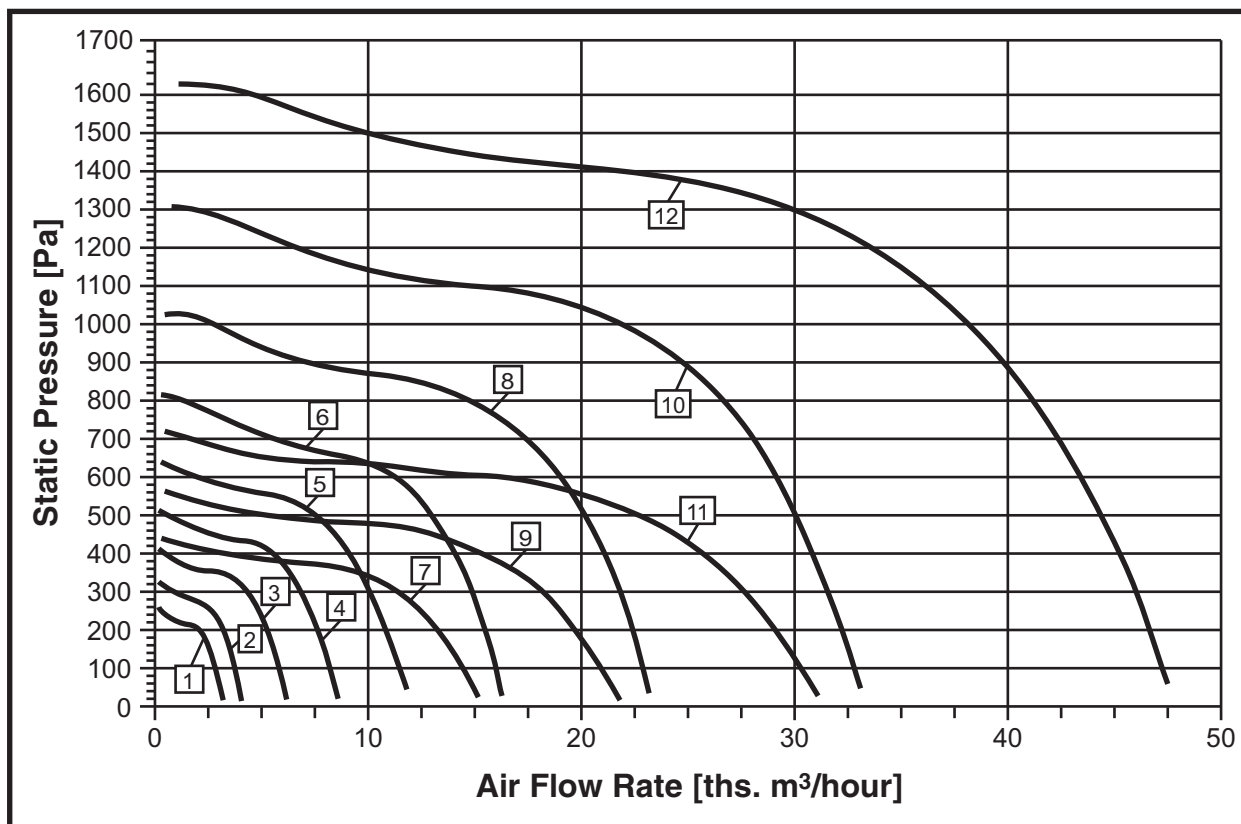
300 – 47000 m³/hour



No.	Fan Type	Modification No.	Motor Type		Fan Weight without Motor, max [kg]
			Rotation Speed [rpm]	Power [kW]	
1	BEPC-Б-3,15	00	1450	0,25	46
2	BEPC-Б-3,55	00	1450	0,55	54
3	BEPC-Б-4	00	1450	0,75	73
4	BEPC-Б-4,5	00	1450	1,5	98
5	BEPC-Б-5	00	1450	2,2	135
6	BEPC-Б-5,6	00	1450	4,0	153
7	BEPC-Б-6,3	00	950	2,2	160
8		01	1450	7,5	187
9	BEPC-Б-7,1	00	950	4,0	210
10		01	1450	15	285
11	BEPC-Б-8	00	950	7,5	360
12		01	1450	22	390

CHARACTERISTICS SUMMARY DIAGRAM

300 – 47000 m³/hour



No.	Fan Type	Modification No.	Motor Type		Fan Weight without Motor, max [kg]
			Rotation Speed [rpm]	Power [kW]	
1	БЕРС-Б(Ф)-3,15	00	1450	0,25	46
2	БЕРС-Б(Ф)-3,55	00	1450	0,55	54
3	БЕРС-Б(Ф)-4	00	1450	0,75	73
4	БЕРС-Б(Ф)-4,5	00	1450	1,5	98
5	БЕРС-Б(Ф)-5	00	1450	2,2	135
6	БЕРС-Б(Ф)-5,6	00	1450	4,0	153
7	БЕРС-Б(Ф)-6,3	00	950	2,2	160
8		01	1450	7,5	187
9	БЕРС-Б(Ф)-7,1	00	950	4,0	210
10		01	1450	15	285
11	БЕРС-Б(Ф)-8	00	950	7,5	360
12		01	1450	22	390