

Manufactured in compliance with TU 4861-003-64600223-13

100 – 16000 m³/hour

- ◆ Backward-curved blades impeller
- ◆ Low noise and energy consumption level / Outflow is distributed across the whole duct section
- ◆ Easy-to-clean surface of impeller

Speed may be adjusted by switching the motor poles (optional) or using frequency converter.

Increased pressure developed by the fans in small and medium cross-section ducts.

Motor power limitation free operation within the whole range of developed capacity for the fans with small and medium duct cross-sections

Galvanized steel housing, weld steel impeller with powder paint coating

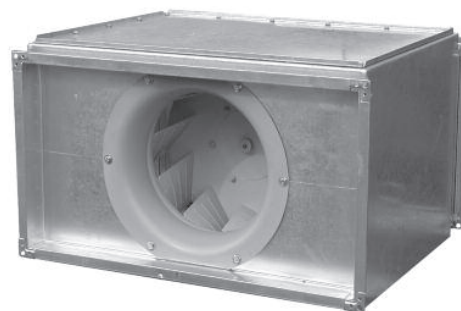
Impeller direct drive from the domestic or West-European motor.

Considerable reduction of noise level through the walls by slight expansion of ВИП (VIP) fans housing.

Fans may be delivered complete with flexible connectors

Built-in motor thermal protection (optional)

Impeller dynamic balancing. The fan is operational in any position. Fan design is protected by the Russian Patent of Invention and useful Model Certificate.



Automatic Control System see p.182.

Explosion-proof version is available.

Fans are denoted as follows:

ВРПП 60x35 Б В 3 – У3

- └ Climatic version;
- └ Power grid:
 - 1 – single-phase
 - 3 – three-phase;
- └ Special enclosure version (Explosion-proof)
- └ Aerodynamic power index (А,Б,В,Г);
- └ Duct cross-section [cm];
- └ Fan type (radial, rectangular, direct-flow, ducted)

Explosion-proof enclosure version in accordance with TU 4861 – 010 – 64600223 – 11 is available.

Fans are denoted as follows:

ВИП 60x35 Б В 3 – У3

- └ Climatic version;
- └ Power grid:
 - 1 – single-phase
 - 3 – three-phase;
- └ Special enclosure version (Explosion-proof);
- └ Aerodynamic power index (А, Б, В, Г);
- └ Duct cross-section [cm];
- └ Fan type (rectangular fan in isolated case).

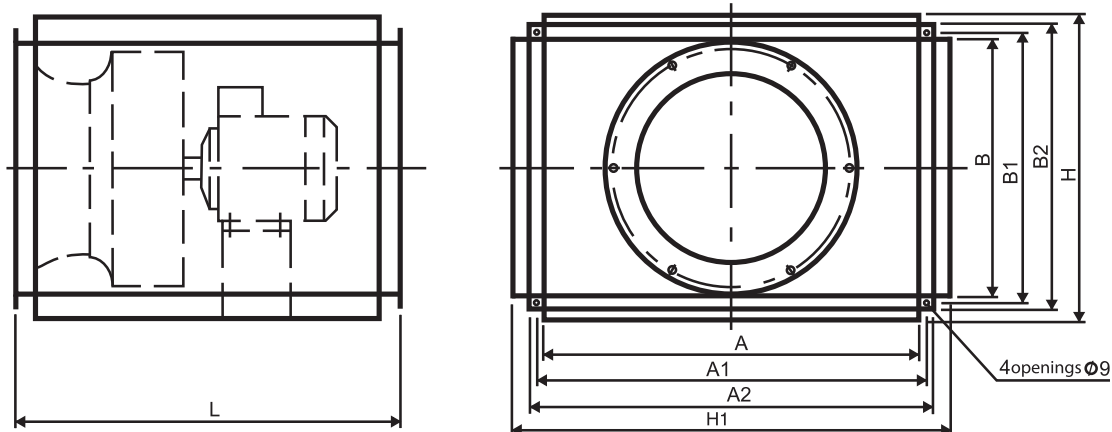


Fig. 1

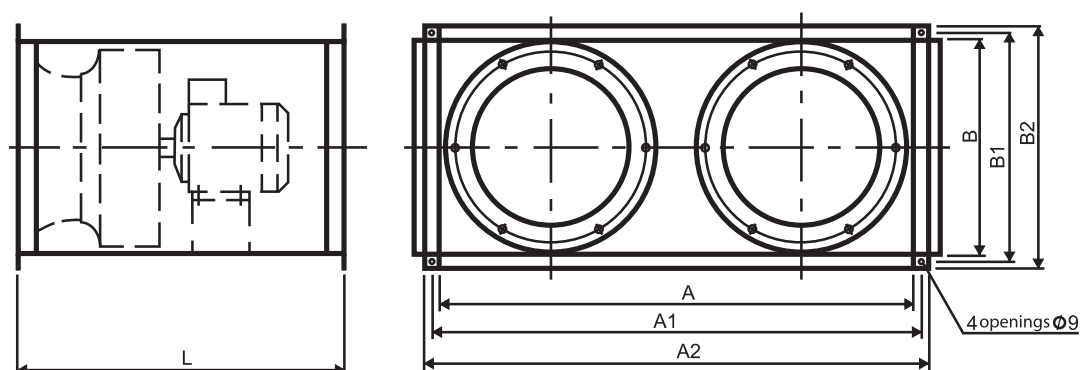
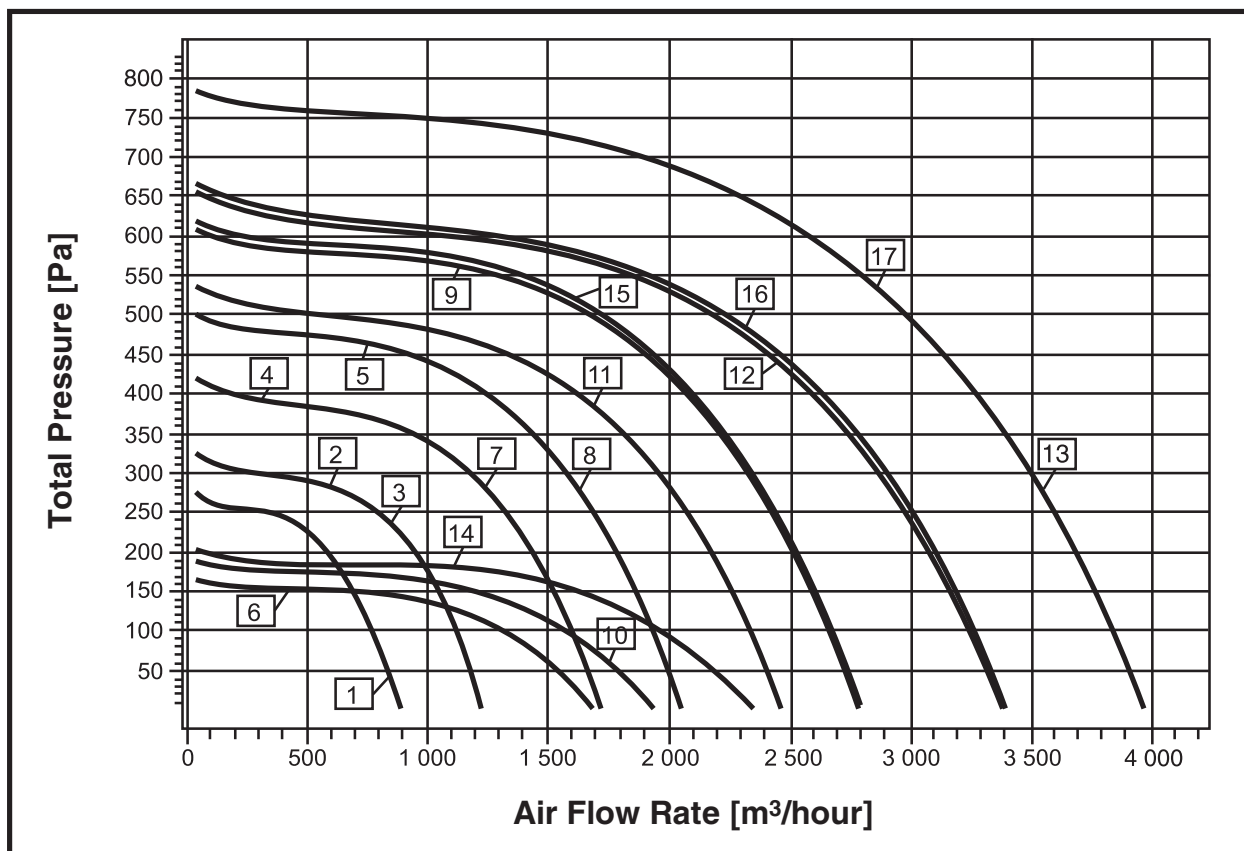


Fig. 2

No.	Fan type	Fig.	Dimensions [mm]									Weight [kg]
			A	B	A1	B1	A2	B2	L	H	H1	
1	ВРПП (ВИП) 30x15А	1	300	150	320	170	340	190	380	210 (260)	---(350)	13,5 (16,5)
2	ВРПП (ВИП) 30x15Б	1	300	150	320	170	340	190	380	210 (260)	---(350)	15,3 (18,3)
3	ВРПП (ВИП) 40x20А	1	400	200	420	220	440	240	400	260 (310)	---(450)	15,6 (20,6)
4	ВРПП (ВИП) 40x20Б	1	400	200	420	220	440	240	400	260 (310)	---(450)	17,6 (22,6)
5	ВРПП (ВИП) 40x20В	1	400	200	420	220	440	240	400	260 (310)	---(450)	20 (25)
6	ВРПП (ВИП) 50x25А	1	500	250	520	270	540	290	430	290 (340)	---(550)	22 (30)
7	ВРПП (ВИП) 50x25Б	1	500	250	520	270	540	290	430	290 (340)	---(550)	20 (28)
8	ВРПП (ВИП) 50x25В	1	500	250	520	270	540	290	430	290 (340)	---(550)	20,5 (28,5)
9	ВРПП (ВИП) 50x25Г	1	500	250	520	270	540	290	430	290 (340)	---(550)	20,5 (28,5)
10	ВРПП (ВИП) 50x30А	1	500	300	520	320	540	340	500	330 (380)	---(550)	25 (35)
11	ВРПП (ВИП) 50x30Б	1	500	300	520	320	540	340	500	330 (380)	---(550)	22 (32)
12	ВРПП (ВИП) 50x30В	1	500	300	520	320	540	340	500	330 (380)	---(550)	23,8 (33,8)
13	ВРПП (ВИП) 50x30Г	1	500	300	520	320	540	340	500	330 (380)	---(550)	31,9 (41,9)
14	ВРПП (ВИП) 60x30А	1	600	300	620	320	640	340	500	330 (380)	---(650)	36,8 (48,3)
15	ВРПП (ВИП) 60x30Б	1	600	300	620	320	640	340	500	330 (380)	---(650)	24,6 (36,1)
16	ВРПП (ВИП) 60x30В	1	600	300	620	320	640	340	500	330 (380)	---(650)	33,9 (45,4)
17	ВРПП (ВИП) 60x30Г	1	600	300	620	320	640	340	500	330 (380)	---(650)	34,5 (46)
18	ВРПП (ВИП) 60x35А	1	600	350	620	370	640	390	500	380 (430)	---(650)	38,1 (51,1)
19	ВРПП (ВИП) 60x35Б	1	600	350	620	370	640	390	500	380 (430)	---(650)	36,2 (49,2)
20	ВРПП (ВИП) 60x35В	1	600	350	620	370	640	390	500	380 (430)	---(650)	36,5 (49,5)
21	ВРПП (ВИП) 60x35Г	1	600	350	620	370	640	390	500	380 (430)	---(650)	40,6 (53,6)
22	ВРПП (ВИП) 70x40А	1	700	400	720	420	740	440	580	430 (480)	---(750)	46,4 (64,4)
23	ВРПП (ВИП) 70x40Б	1	700	400	720	420	740	440	580	400 (450)	---(750)	43,5 (61,5)
24	ВРПП (ВИП) 70x40В	1	700	400	720	420	740	440	580	400 (450)	---(750)	49 (67)
25	ВРПП (ВИП) 70x40Г	1	700	400	720	420	740	440	580	400 (450)	---(750)	43,2 (61,2)
26	ВРПП (ВИП) 80x50А	1	800	500	830	530	860	560	630	500 (550)	---(850)	47,9 (73,9)
27	ВРПП (ВИП) 80x50Б	1	800	500	830	530	860	560	630	530 (580)	---(850)	61,7 (87,7)
28	ВРПП (ВИП) 80x50В	1	800	500	830	530	860	560	630	500 (550)	---(850)	68,6 (94,6)
29	ВРПП (ВИП) 80x50Г	1	800	500	830	530	860	560	630	500 (550)	---(850)	79,6 (105,5)
30	ВРПП (ВИП) 100x50А	1	1000	500	1030	530	1060	560	720	530 (580)	---(1050)	70 (102)
31	ВРПП (ВИП) 100x50Б	1	1000	500	1030	530	1060	560	650	500 (550)	---(1050)	81,8 (113,8)
32	ВРПП (ВИП) 100x50В	1	1000	500	1030	530	1060	560	650	500 (550)	---(1050)	72,6 (105,6)
33	ВРПП (ВИП) 100x50Г	2	1000	500	1030	530	1060	560	650	---	---	148

CHARACTERISTICS SUMMARY DIAGRAM

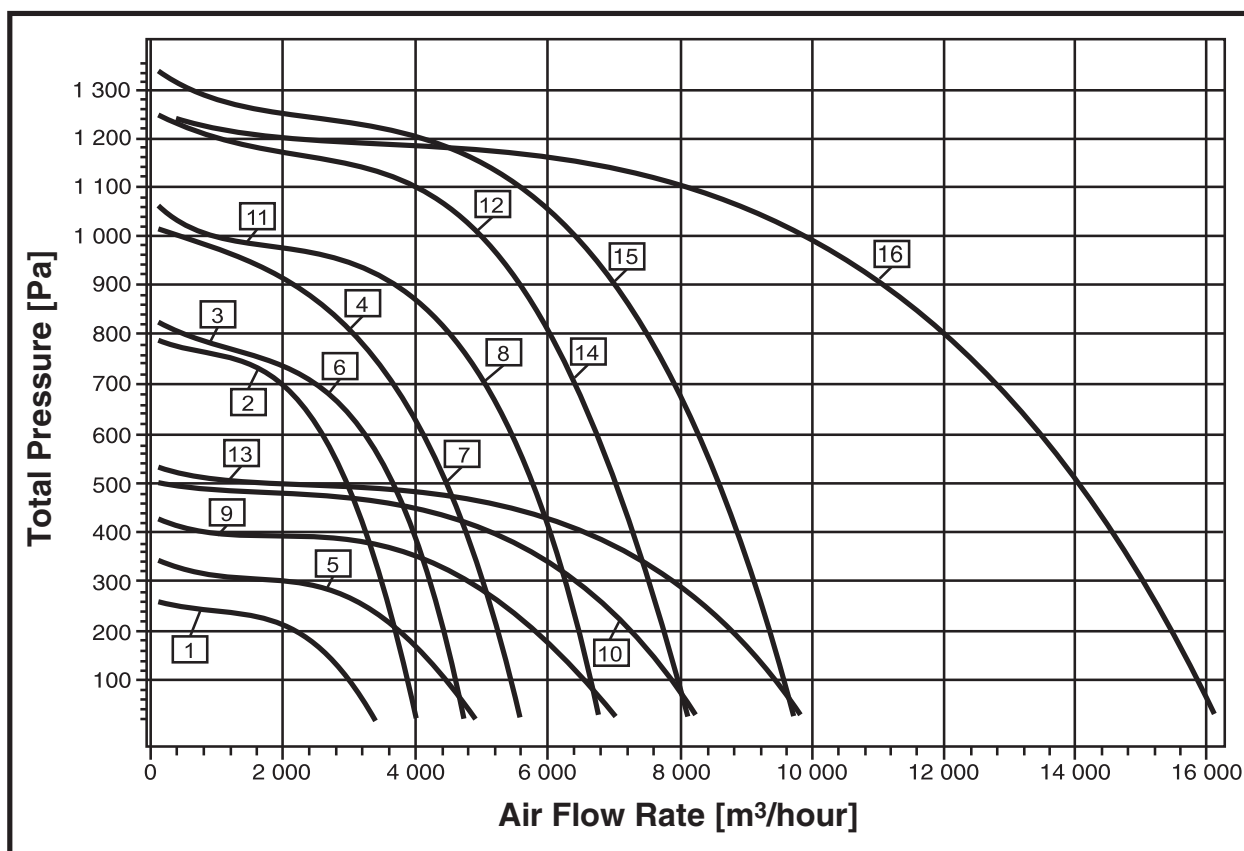
100 – 3800 m³/hour



№	Fan Type	Electric Motor Type		Frequency n [min ⁻¹]	Power N _y [kW]	Adjusted Sound Power Level L _{pA} [dB(A)]		
		Three-phase	Single-phase			At the Inlet	At the Outlet	Through the walls
1	ВРПП (ВИП) 30x15А	АИС56А2	АИСЕ56А2	2910	0,09	68	68	55 (45)
2	ВРПП (ВИП) 30x15Б	АИР56А2	АИРЕ56А2	2825	0,18	72	72	59 (49)
3	ВРПП (ВИП) 40x20А	АИР56А2	АИРЕ56А2	2825	0,18	72	72	59 (49)
4	ВРПП (ВИП) 40x20Б	АИР56В2	АИРЕ56В2	2875	0,25	75	75	62 (52)
5	ВРПП (ВИП) 40x20В	АИР63А2	АИРЕ63А2	2895	0,37	76	76	63 (53)
6	ВРПП (ВИП) 50x25А	АИС56В4	АИСЕ56В4	1450	0,09	67	67	54 (44)
7	ВРПП (ВИП) 50x25Б	АИР56В2	АИРЕ56В2	2875	0,25	75	75	62 (52)
8	ВРПП (ВИП) 50x25В	АИР63А2	АИРЕ63А2	2895	0,37	76	76	63 (53)
9	ВРПП (ВИП) 50x25Г	АИР63В2	АИРЕ63В2	2880	0,55	80	80	67 (57)
10	ВРПП (ВИП) 50x30А	АИР56А4	АИРЕ56А4	1430	0,12	68	68	55 (45)
11	ВРПП (ВИП) 50x30Б	АИР63В2	АИРЕ63В2	2895	0,55	78	78	65 (55)
12	ВРПП (ВИП) 50x30В	АИР71А2	АИРЕ71А2	2880	0,75	82	82	69 (59)
13	ВРПП (ВИП) 50x30Г	АИР71В2	---	2915	1,1	83	83	70 (60)
14	ВРПП (ВИП) 60x30А	АИР56В4	АИРЕ56В4	1430	0,18	70	70	57 (47)
15	ВРПП (ВИП) 60x30Б	АИР63В2	АИРЕ63В2	2895	0,55	80	80	67 (57)
16	ВРПП (ВИП) 60x30В	АИР71А2	АИРЕ71А2	2895	0,75	82	82	69 (59)
17	ВРПП (ВИП) 60x30Г	АИР71В2	---	2915	1,1	83	83	70 (60)

CHARACTERISTICS SUMMARY DIAGRAM

400 – 16000 m³/hour



№	Fan Type	Electric Motor Type		Frequency n [min ⁻¹]	Power N _y [kW]	Adjusted Sound Power Level L _{pA} [dB(A)]		
		Three- phase	Single- phase			At the Inlet	At the Outlet	Through the walls
1	ВРПП (ВИП)-60x35А	АИР63В4	АИРЕ71А4	1450	0,37	74	74	61 (51)
2	ВРПП (ВИП)-60x35Б	АИР71В2	---	2915	1,1	83	83	70 (60)
3	ВРПП (ВИП)-60x35В	АИР80А2	---	2880	1,5	85	85	72 (62)
4	ВРПП (ВИП)-60x35Г	АИР80А2	---	2890	1,5	86	86	73 (63)
5	ВРПП (ВИП)-70x40А	АИР71А4	АИРЕ71В4	1450	0,55	77	77	64 (54)
6	ВРПП (ВИП)-70x40Б	АИР80А2	---	2880	1,5	85	85	72 (62)
7	ВРПП (ВИП)-70x40В	АИР80А2	---	2890	1,5	86	86	73 (63)
8	ВРПП (ВИП)-70x40Г	АИР80В2	---	2915	2,2	89	89	76 (66)
9	ВРПП (ВИП)-80x50А	АИР80А4	---	1460	1,1	81	81	68 (58)
10	ВРПП (ВИП)-80x50Б	АИР80В4	---	1450	1,5	82	82	69 (59)
11	ВРПП (ВИП)-80x50В	АИР80В2	---	2915	2,2	89	89	76 (66)
12	ВРПП (ВИП)-80x50Г	АИР90Л2	---	2900	3	90	90	77 (67)
13	ВРПП (ВИП)-100x50А	АИР90Л4	---	1440	2,2	84	84	71 (61)
14	ВРПП (ВИП)-100x50Б	АИР90Л2	---	2900	3	90	90	77 (67)
15	ВРПП (ВИП)-100x50В	АИР100S2	---	2900	4	92	92	79 (69)
16	ВРПП (ВИП)-100x50Г	2xАИР90Л2	---	2900	2 x 3	93	93	80

Manufactured in accordance with TU 4861-003-64600223-13

100 – 9500 m³/hour

- ◆ Impeller with backward-curved blades
- ◆ Low noise level and energy consumption
- ◆ Outflow distribution across the whole duct section
- ◆ Easy-to-clean impeller surface

Increased pressure developed by fans with small and medium duct sections.

Operation without restriction of the motor power in the whole range of developed capacity for the fans with small and medium duct sections.

Galvanized steel housing, Welded steel impeller with powder paint coating.

Fans may be delivered complete with flexible connectors

Considerable reduction of noise level through the walls and at the fan inlet.

Impeller dynamic balancing. The fan is functional in any position.

Automatic Control System see p.182.

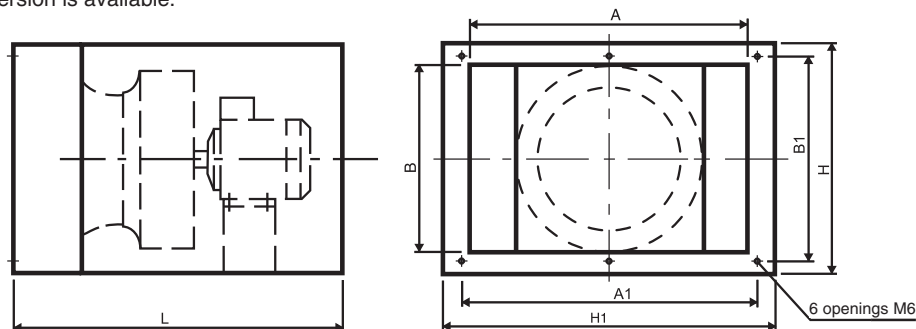
Explosion-proof version is available.



Fans are denoted as follows:

ВИПМ 60x35 Б В 3 – У3

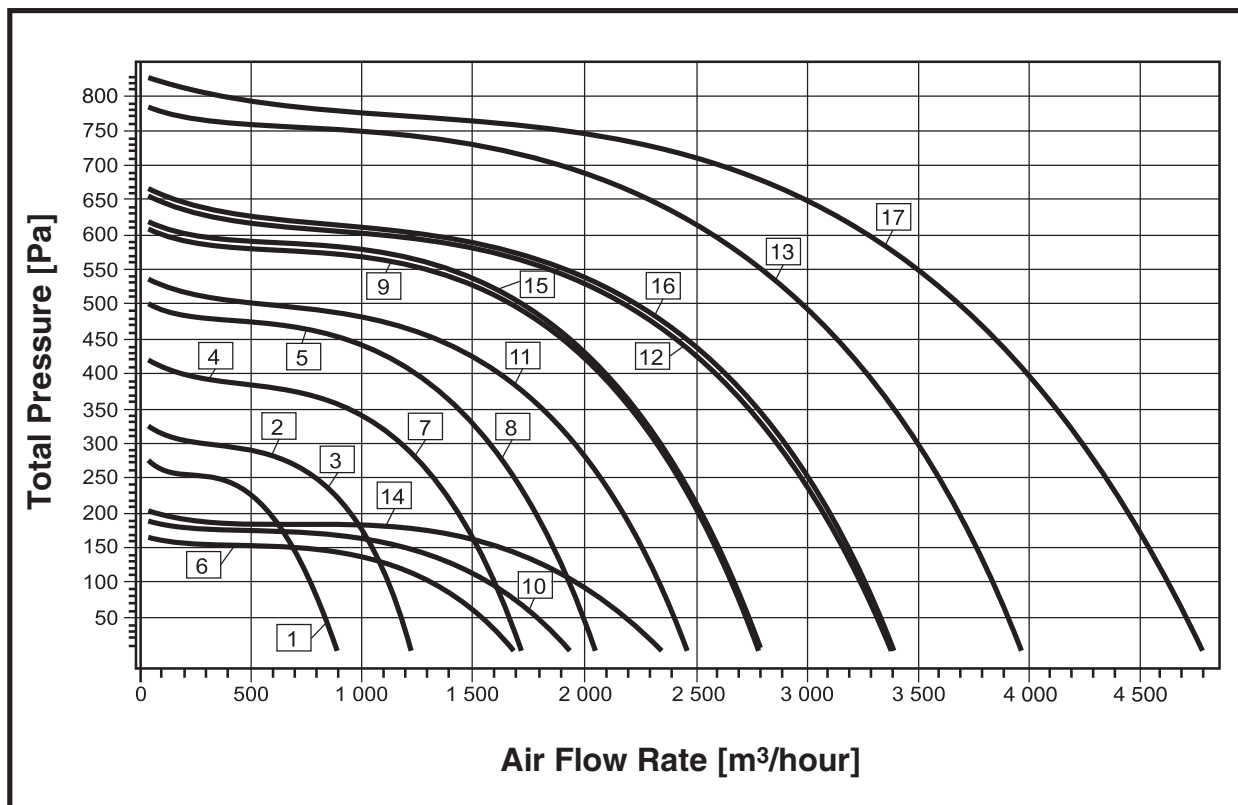
- Climate version;
- Power grid:
1 – single-phase
3 – three-phase;
- Special enclosure version (Explosion-proof);
- Aerodynamic power index (A, Б, В, Г);
- Duct cross-section [cm];
- Upgraded;
- Fan type (fan in isolated housing, rectangular).



№	Fan Type	Dimensions [mm]							Weight [kg]
		A	B	A1	B1	L	H	H1	
1	ВИПМ-30x15А	300	150	320	170	526	270	400	17,2
2	ВИПМ-30x15Б	300	150	320	170	526	270	400	18,2
3	ВИПМ-40x20А	400	200	420	220	620	320	500	22,4
4	ВИПМ-40x20Б	400	200	420	220	620	320	500	24,4
5	ВИПМ-40x20В	400	200	420	220	620	320	500	26,8
6	ВИПМ-50x25А	500	250	520	270	670	340	600	32,8
7	ВИПМ-50x25Б	500	250	520	270	670	340	600	30,8
8	ВИПМ-50x25В	500	250	520	270	670	340	600	31,5
9	ВИПМ-50x25Г	500	250	520	270	670	340	600	31,5
10	ВИПМ-50x30А	500	300	520	320	750	390	600	36
11	ВИПМ-50x30Б	500	300	520	320	750	390	600	34,2
12	ВИПМ-50x30В	500	300	520	320	750	390	600	37,2
13	ВИПМ-50x30Г	500	300	520	320	750	390	600	45
14	ВИПМ-60x30А	600	300	620	320	790	390	700	37,3
15	ВИПМ-60x30Б	600	300	620	320	790	390	700	35,1
16	ВИПМ-60x30В	600	300	620	320	790	390	700	45,6
17	ВИПМ-60x30Г	600	300	620	320	790	390	700	45,3
18	ВИПМ-60x35А	600	350	620	370	810	440	700	53,3
19	ВИПМ-60x35Б	600	350	620	370	810	440	700	53,8
20	ВИПМ-60x35В	600	350	620	370	810	440	700	54
21	ВИПМ-60x35Г	600	350	620	370	810	440	700	58,2
22	ВИПМ-70x40А	700	400	720	420	910	490	800	77,2
23	ВИПМ-70x40Б	700	400	720	420	910	490	800	75,5
24	ВИПМ-70x40В	700	400	720	420	910	490	800	75,8
25	ВИПМ-70x40Г	700	400	720	420	910	490	800	81,2
26	ВИПМ-80x50А	800	500	830	530	1030	590	900	106
27	ВИПМ-80x50Б	800	500	830	530	1030	590	900	107,3
28	ВИПМ-80x50В	800	500	830	530	1030	590	900	103,6
29	ВИПМ-80x50Г	800	500	830	530	1030	590	900	105,6
30	ВИПМ-100x50А	1000	500	1030	530	1080	590	1100	145
31	ВИПМ-100x50Б	1000	500	1030	530	1080	590	1100	138,8
32	ВИПМ-100x50В	1000	500	1030	530	1080	590	1100	148,4
33	ВИПМ-100x50Г	1000	500	1030	530	1080	590	1100	150

CHARACTERISTICS SUMMARY DIAGRAM

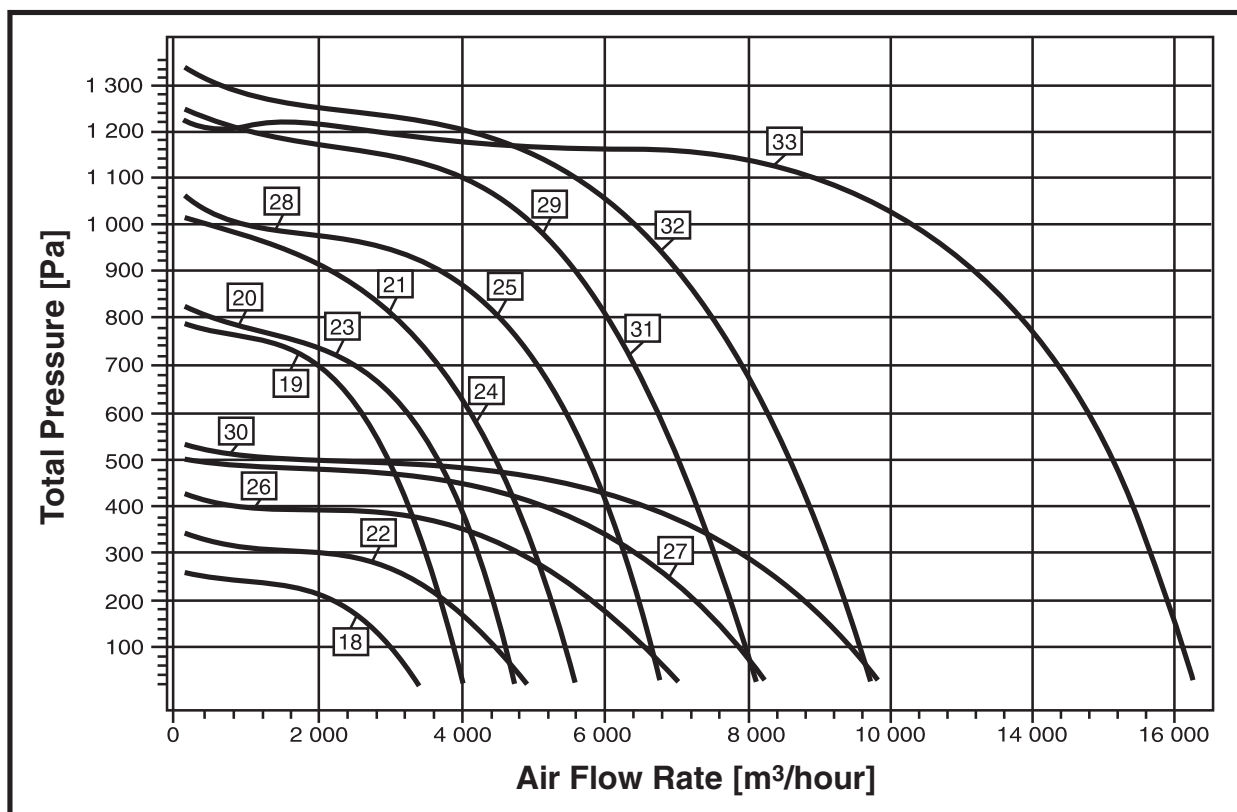
100 – 4700 m³/hour



№	Fan Type	Electric Motor Type		Frequency n [min ⁻¹]	Power N _y [kW]	Adjusted Sound Power Level L _{pA} [dB(A)]		
		Three-phase	Single-phase			At the Inlet	At the Outlet	Through the walls
1	ВИПМ 30x15А	АИС56А2	АИСЕ56А2	2910	0,09	61	62	45
2	ВИПМ 30x15Б	АИР56А2	АИРЕ56А2	2825	0,18	65	66	49
3	ВИПМ 40x20А	АИР56А2	АИРЕ56А2	2825	0,18	65	66	49
4	ВИПМ 40x20Б	АИР56В2	АИРЕ56В2	2875	0,25	68	69	52
5	ВИПМ 40x20В	АИР63А2	АИРЕ63А2	2895	0,37	69	70	53
6	ВИПМ 50x25А	АИС56В4	АИСЕ56В4	1450	0,09	60	61	44
7	ВИПМ 50x25Б	АИР56В2	АИРЕ56В2	2875	0,25	68	69	52
8	ВИПМ 50x25В	АИР63А2	АИРЕ63А2	2895	0,37	69	70	53
9	ВИПМ 50x25Г	АИР63В2	АИРЕ63В2	2880	0,55	73	74	57
10	ВИПМ 50x30А	АИР56А4	АИРЕ56А4	1430	0,12	61	62	45
11	ВИПМ 50x30Б	АИР63В2	АИРЕ63В2	2895	0,55	71	72	55
12	ВИПМ 50x30В	АИР71А2	АИРЕ71А2	2880	0,75	75	76	59
13	ВИПМ 50x30Г	АИР71В2	---	2915	1,1	76	77	60
14	ВИПМ 60x30А	АИР56В4	АИРЕ56В4	1430	0,18	63	64	47
15	ВИПМ 60x30Б	АИР63В2	АИРЕ63В2	2895	0,55	73	74	57
16	ВИПМ 60x30В	АИР71А2	АИРЕ71А2	2895	0,75	75	76	59
17	ВИПМ 60x30Г	АИР80А2	---	2900	1,5	78	79	62

CHARACTERISTICS SUMMARY DIAGRAM

400 – 16000 m³/hour



№	Fan Type	Electric Motor Type		Frequency n [min ⁻¹]	Power N _y [kW]	Adjusted Sound Power Level L _{pA} [dB(A)]		
		Three-phase	Single-phase			At the Inlet	At the Outlet	Through the walls
18	ВИПм-60x35А	АИР63В4	АИРЕ71А4	1450	0,37	67	68	51
19	ВИПм-60x35Б	АИР71В2	---	2915	1,1	76	77	60
20	ВИПм-60x35В	АИР80А2	---	2880	1,5	78	79	62
21	ВИПм-60x35Г	АИР80А2	---	2890	1,5	79	80	63
22	ВИПм-70x40А	АИР71А4	АИРЕ71В4	1450	0,55	70	71	54
23	ВИПм-70x40Б	АИР80А2	---	2880	1,5	78	79	62
24	ВИПм-70x40В	АИР80А2	---	2890	1,5	79	80	63
25	ВИПм-70x40Г	АИР80В2	---	2915	2,2	82	83	66
26	ВИПм-80x50А	АИР80А4	---	1460	1,1	74	75	58
27	ВИПм-80x50Б	АИР80В4	---	1450	1,5	75	76	59
28	ВИПм-80x50В	АИР80В2	---	2915	2,2	82	83	66
29	ВИПм-80x50Г	АИР90Л2	---	2900	3	83	84	67
30	ВИПм-100x50А	АИР90Л4	---	1440	2,2	77	78	61
31	ВИПм-100x50Б	АИР90Л2	---	2900	3	83	84	67
32	ВИПм-100x50В	АИР100S2	---	2900	4	85	86	69
33	ВИПм-100x50Г	2xАИР90Л2	---	2900	2x3	86	87	70

Manufactured in accordance with TU 4861-003-64600223-13

200 – 16000 m³/hour

- ◆ Impeller with backward-curved blades
- ◆ Low noise level and energy consumption
- ◆ Outflow distribution across the whole duct section
- ◆ Easy-to-clean impeller surface

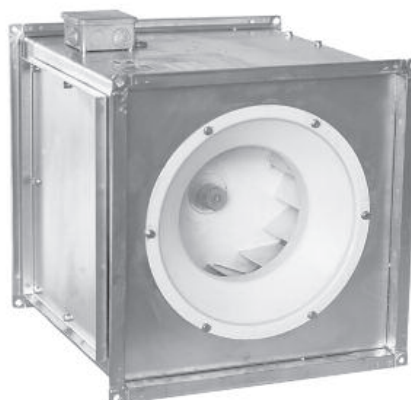
Speed adjustment by switching multi-speed motor poles (optional) or using frequency converter.

Galvanized steel housing, Welded steel impeller with powder paint coating.

Impeller direct drive from the motor produced in Russia or Western Europe.

Fans may be delivered complete with flexible connectors

Built-in motor thermal protection (optional). Impeller dynamic balancing. The fan is functional in any position.



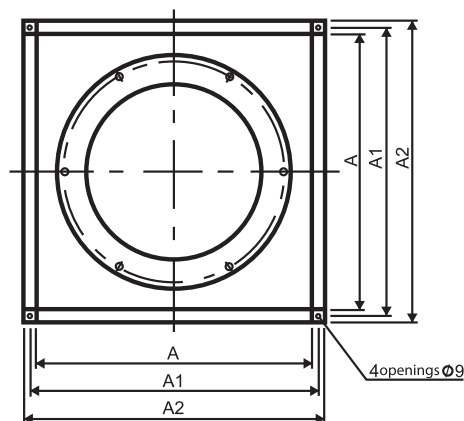
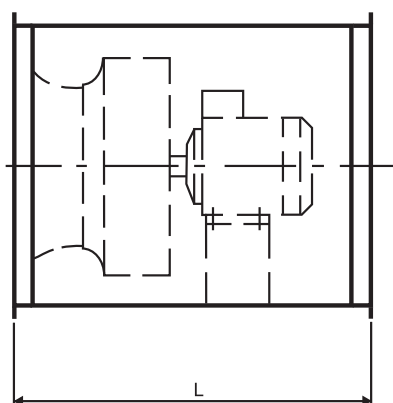
Automatic Control System see p.182.

Explosion-proof version is available.

Fans are denoted as follows:

BPKK 2,5 B - 4 - 3 - Y3

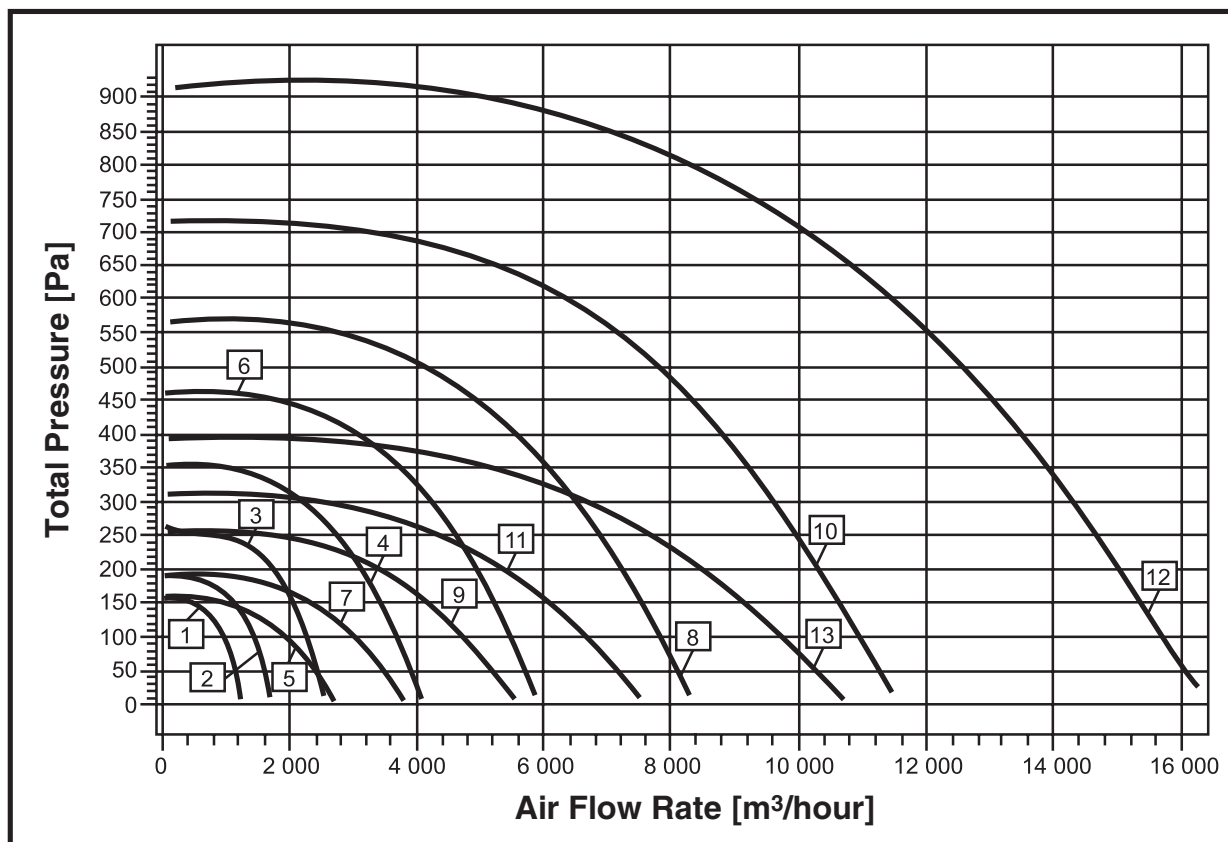
- └ Climatic version;
- └ Power grid
 - 1 – single-phase
 - 3 – three-phase;
- └ Number of motor poles (4 or 6);
- └ Special enclosure version (Explosion-proof);
- └ Impeller diameter in decimeters (fan number);
- └ Fan type (Radial fan, square, ducted).



№	Fan Type	Dimensions [mm]					Weight [kg]
		A	A1	A2	L	d	
1	BPKK 2,5-4-3/1	350	370	390	430	9	17
2	BPKK 2,8-4-3/1	400	420	440	450	9	19
3	BPKK 3,15-4-3/1	450	470	490	530	9	31,2
4	BPKK 3,55-4-3	500	520	540	570	9	37
5	BPKK 3,55-6-3	500	520	540	530	9	25
6	BPKK 4-4-3	560	580	600	600	9	42
7	BPKK 4-6-3	560	580	600	530	9	28
8	BPKK 4,5-4-3	630	650	670	650	9	47
9	BPKK 4,5-6-3	630	650	670	630	9	44
10	BPKK 5-4-3	710	730	750	720	9	88
11	BPKK 5-6-3	710	730	750	670	9	51
12	BPKK 5,6-4-3	800	830	860	830	13	130
13	BPKK 5,6-6-3	800	830	860	760	13	71

CHARACTERISTICS SUMMARY DIAGRAM

200 – 16000 m³/hour



№	Fan Type	Duct Cross-Section AxA [mm]	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]	Adjusted Sound Power Level L _{pA} [dB(A)]		
						At the Inlet	At the Outlet	Through the walls
1	BPKK 2,5-4-3	350x350	АИС56В4	1450	0,09	62	62	50
	BPKK 2,5-4-1	350x350	АИСЕ56В4	1450	0,09	62	62	50
2	BPKK 2,8-4-3	400x400	АИР56В4	1430	0,18	65	65	53
	BPKK 2,8-4-1	400x400	АИРЕ56В4	1430	0,18	65	65	53
3	BPKK 3,15-4-3	450x450	АИР63А4	1485	0,25	73	72	60
	BPKK 3,15-4-1	450x450	АИРЕ63А4	1485	0,25	73	72	60
4	BPKK 3,55-4-3	500x500	АИР71А4	1440	0,55	76	75	63
5	BPKK 3,55-6-3	500x500	АИР63А6	950	0,18	63	63	51
6	BPKK 4-4-3	560x560	АИР80А4	1460	1,1	80	79	67
7	BPKK 4-6-3	560x560	АИР63В6	940	0,25	67	67	55
8	BPKK 4,5-4-3	630x630	АИР80В4	1440	1,5	83	83	70
9	BPKK 4,5-6-3	630x630	АИР71В6	965	0,55	71	71	59
10	BPKK 5-4-3	710x710	АИР100S4	1455	3	86	86	74
11	BPKK 5-6-3	710x710	АИР80А6	955	0,75	74	74	62
12	BPKK 5,6-4-3	800x800	АИР112М4	1470	5,5	90	90	77
13	BPKK 5,6-6-3	800x800	АИР90L6	965	1,5	77	77	65

Manufactured in accordance with TU 4861-003-64600223-13

200 – 11500 m³/hour

- ◆ Impeller with backward-curved blades
- ◆ Low noise level and energy consumption
- ◆ Outflow distribution across the whole duct section
- ◆ Easy-to-clean impeller surface

Speed adjustment by switching multi-speed motor poles (optional) or using frequency converter.

Galvanized steel housing, Welded steel impeller with powder paint coating.

Impeller direct drive from the motor produced in Russia or Western Europe.

Built-in motor thermal protection (optional). Impeller dynamic balancing.

The fan is functional in any position.



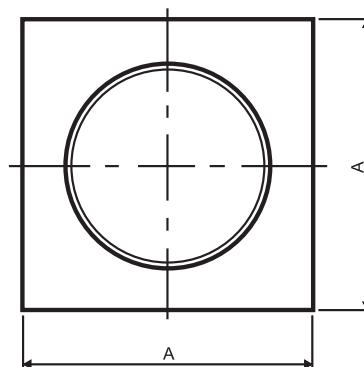
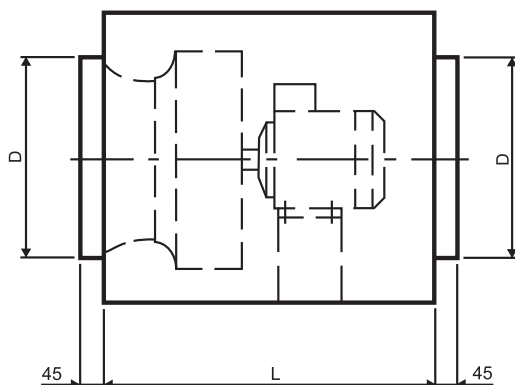
Automatic Control System see p.182.

Explosion-proof version is available.

Fans are denoted as follows:

BPKK 280 A B 3 - Y3

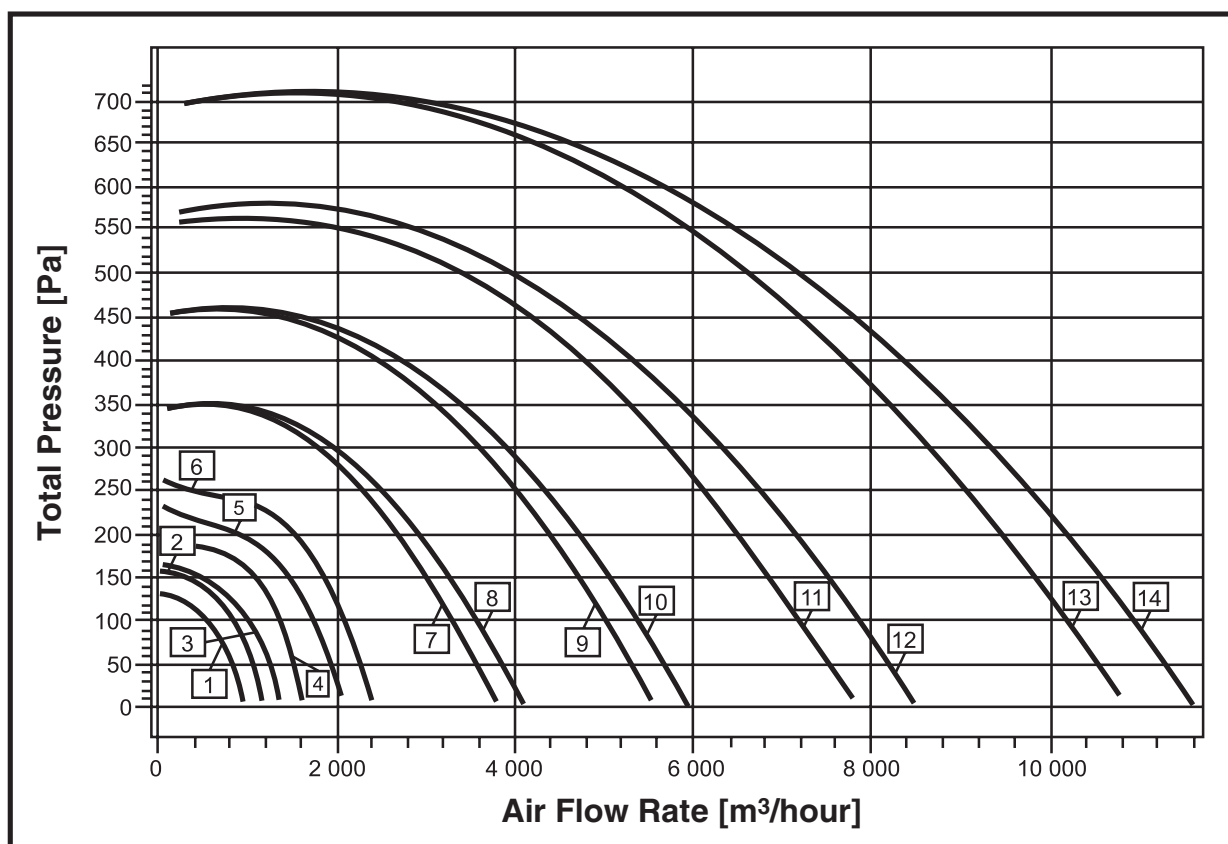
- └ Climatic version;
- └ Power grid
 - 1 – single-phase
 - 3 – three-phase;
- └ Special enclosure version (Explosion-proof);
- └ Aerodynamic power index (A or B);
- └ Connected air duct diameter in mm;
- └ Fan type (Radial fan, square, ducted, with circular adapter).



№	Fan Type	Dimensions [mm]			Weight [kg]
		A	D	L	
1	BPKK 250B3/1	350	250	500	19
2	BPKK 280A3/1	350	280	500	19
3	BPKK 280B3/1	400	280	560	21
4	BPKK 315A3/1	400	315	560	21
5	BPKK 315B3/1	450	315	630	26
6	BPKK 355A3/1	450	355	630	26
7	BPKK 355B3	500	355	710	40
8	BPKK 400A3	500	400	710	40
9	BPKK 400B3	560	400	800	46
10	BPKK 450A3	560	450	800	46
11	BPKK 450B3	630	450	900	52
12	BPKK 500A3	630	500	900	52
13	BPKK 500B3	710	500	1000	78
14	BPKK 560A3	710	560	1000	78

CHARACTERISTICS SUMMARY DIAGRAM

200 – 16000 m³/hour



№	Fan Type	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]	Adjusted Sound Power Level L _{pA} [dB(A)]		
					At the Inlet	At the Outlet	Through the walls
1	БРКК 250Б3	АИС56В4	1450	0,09	62	62	50
	БРКК 250Б1	АИСЕ56А4	1450	0,09	62	62	50
2	БРКК 280А3	АИС56В4	1480	0,09	62	62	50
	БРКК 280А1	АИСЕ56А4	1480	0,09	62	62	50
3	БРКК 280Б3	АИР56В4	1430	0,18	65	65	53
	БРКК 280Б1	АИРЕ56В4	1430	0,18	65	65	53
4	БРКК 315А3	АИР56В4	1430	0,18	65	65	53
	БРКК 315А1	АИРЕ56В4	1430	0,18	65	65	53
5	БРКК 315Б3	АИР63А4	1485	0,25	69	69	57
	БРКК 315Б1	АИРЕ63А4	1485	0,25	69	69	57
6	БРКК 355А3	АИР63А4	1485	0,25	69	69	57
	БРКК 355А1	АИРЕ63А4	1485	0,25	69	69	57
7	БРКК 355Б3	АИР71А4	1440	0,55	72	72	60
8	БРКК 400А3	АИР71А4	1440	0,55	72	72	60
9	БРКК 400Б3	АИР80А4	1460	1,1	76	76	64
10	БРКК 450А3	АИР80А4	1460	1,1	76	76	64
11	БРКК 450Б3	АИР80В4	1440	1,5	80	80	68
12	БРКК 500А3	АИР80В4	1460	1,5	80	80	68
13	БРКК 500Б3	АИР100С4	1455	3	83	83	71
14	БРКК 560А3	АИР100С4	1455	3	83	83	71

Manufactured in accordance with TU 4861-002-64600223-13

400 – 12000 m³/hour

◆ Impeller with forward-curved blades.

Motor position outside the air duct provides protection against effects of foreign matters from the air flow (steam, grease, etc.) and increases fan delivery.

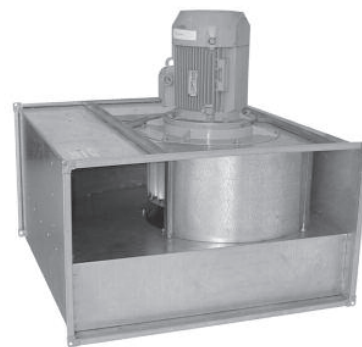
Possibility of revolution frequency control by switching poles of the multispeed motor (optional, have to be ordered) or by a frequency converter.

Galvanized steel housing, welded steel impeller with powder paint coating.

Fans may be optionally supplied completed with flexible ducts.

Impeller dynamic balancing.

The fan is functional in any position.



ВРПВ-Н КХ (VRPV-N KH) fans are designed for operation in the kitchen exhaust systems and local exhausts of other manufactures for the purpose of handling air at the temperature of up to +200 °C and increased humidity.

ВРПВ-Н КР (VRPV-N KR) fans are equipped with stainless steel case and designed for moving of slightly aggressive gas-air-steam mixtures.

Fans are allowed to be applied in areas of the 2nd category of location providing electric motor protection against weather and direct sunlight.

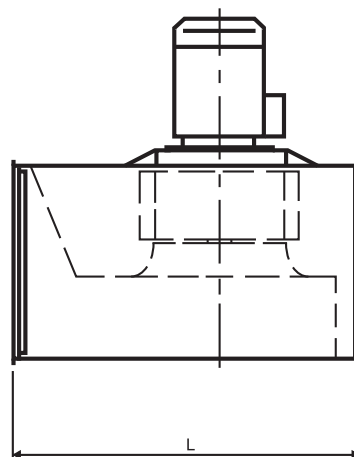
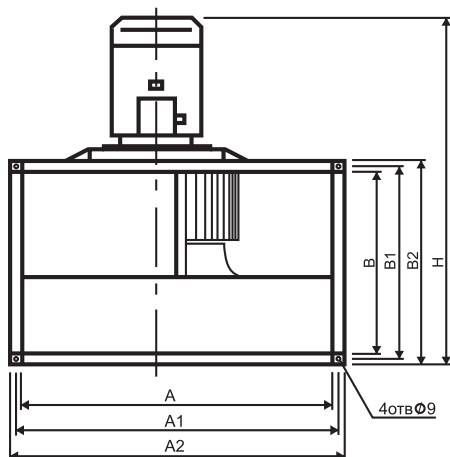
Automatic Control System see p.182.

Explosion-proof version is available.

Fans are denoted as follows:

ВРПВ - Н - 3,15 БКХ - 2 - 3 - У3

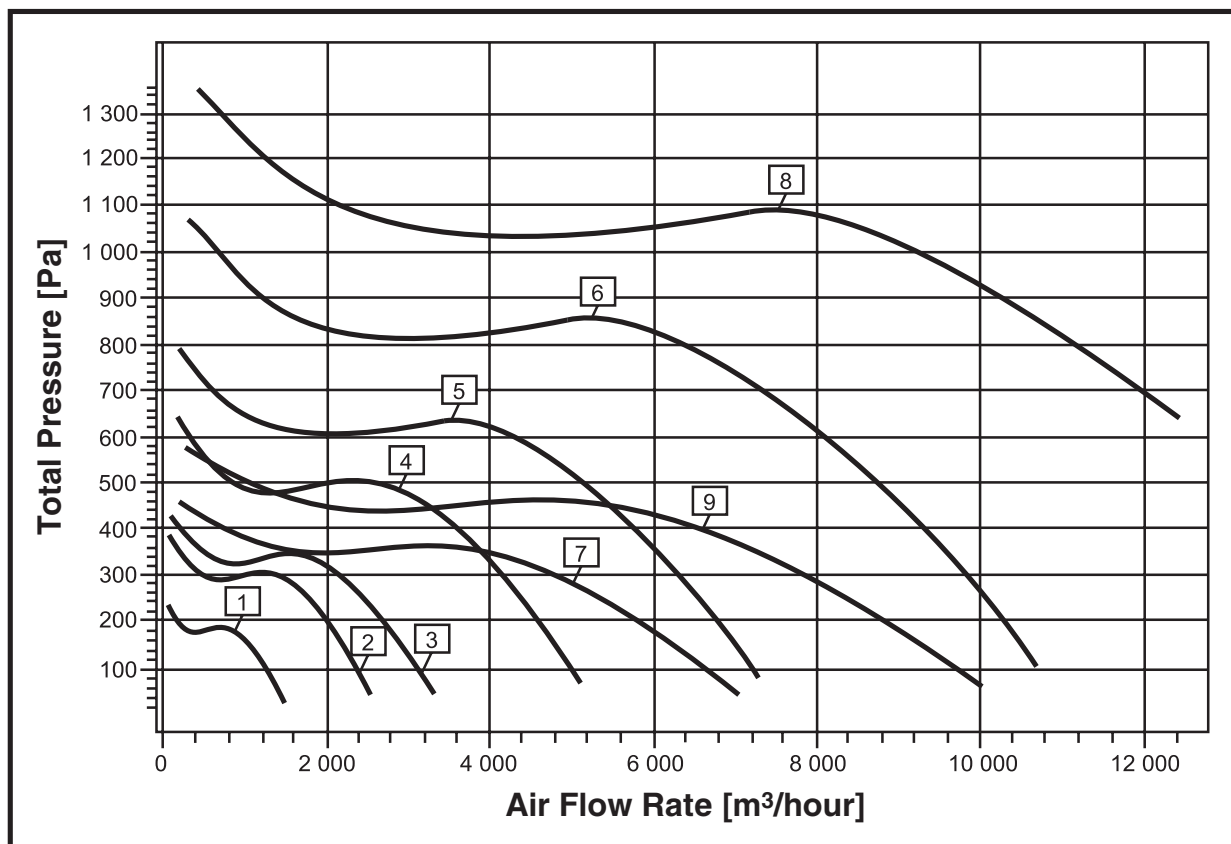
- └ Climatic version;
- └ Power grid:
 - 1 – single-phase,
 - 3 – three-phase;
- └ Number of motor poles (2, 4, 6, or 8);
- └ Special version:
 - KX – kitchen, or KP – corrosion-proof;
- └ Special version:
 - B – explosion-proof;
- └ Impeller diameter in decimeters (fan number);
- └ Electric motor is located outside the duct;
- └ Impeller blades type: B – forward-curved blades;
- └ Fan type (Radial fan, rectangular, ducted).



No.	Fan Type	Dimensions [mm]								Weight [kg]
		A	B	A1	B1	A2	B2	H	L	
1	ВРПВ-Н-2-4-3/1	500	250	520	270	540	290	495	550	18.4
2	ВРПВ-Н-2,25-4-3/1	500	300	520	320	540	340	570	600	20.7
3	ВРПВ-Н-2,5-4-3/1	600	300	620	320	640	340	590	680	37
4	ВРПВ-Н-2,8-4-3	600	350	620	370	640	390	650	720	56.8
5	ВРПВ-Н-3,15-4-3	700	400	720	420	740	440	780	780	64
6	ВРПВ-Н-3,55-4-3	800	500	830	530	860	560	900	900	72
7	ВРПВ-Н-3,55-6-3	800	500	830	530	860	560	900	900	90.5
8	ВРПВ-Н-4-4-3	900	500	930	530	960	560	980	1035	131
9	ВРПВ-Н-4-6-3	900	500	930	530	960	560	920	1035	102

CHARACTERISTICS SUMMARY DIAGRAM

400 – 12000 m³/hour



№	Fan Type	Duct Cross-Section AxB [mm]	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]	Adjusted Sound Power Level L _{pA} [dB(A)]	
						At the Inlet	At the Outlet
1	ВРПВ-Н-2-4-3	500x250	АИР63В4	1420	0,37	71	74
	ВРПВ-Н-2-4-1	500x250	АИРЕ71А4	1420	0,37	71	74
2	ВРПВ-Н-2,25-4-3	500x300	АИР71А4	1450	0,55	74	77
	ВРПВ-Н-2,25-4-1	500x300	АИРЕ71В4	1450	0,55	74	77
3	ВРПВ-Н-2,5-4-3	600x300	АИР80А4	1350	1,1	77	80
4	ВРПВ-Н-2,8-4-3	600x350	АИР80В4	1450	1,5	80	83
5	ВРПВ-Н-3,15-4-3	700x400	АИР100Л4	1410	4	83	86
6	ВРПВ-Н-3,55-4-3	800x500	АИР112М4	1450	5,5	87	89
7	ВРПВ-Н-3,55-6-3	800x500	АИР100Л6	950	2,2	67	71
8	ВРПВ-Н-4-4-3	900x500	АИР132М4	1450	11	89	91
9	ВРПВ-Н-4-6-3	900x500	АИР112МВ6	950	4	82	84

Manufactured in accordance with TU 4861-002-64600223-13

500 – 14000 m³/hour

- ◆ Impeller with backward-curved blades;
- ◆ Low energy consumption.

Motor position outside the air duct provides protection against effects of foreign matters from the air flow (steam, grease, etc.).

Possibility of revolution frequency control by switching poles of the multispeed motor (optional, have to be ordered) or by a frequency converter.



Galvanized steel housing, welded steel impeller with powder paint coating. ВРПН-Н КХ (VRPN-N KH) stainless steel impeller does not have a coating, which allows, when necessary, do the cleaning according to the method specified in the service list and on page 176.

ВРПН-Н КХ (VRPN-N KH) fans are designed for operation in the kitchen exhaust systems and local exhausts of other manufactures for the purpose of handling air at the temperature of up to +200 °C and increased humidity.

VRPN-N KR fans are made from stainless steel and designed for moving of slightly aggressive gas-air-steam mixtures.

Fans are allowed to be applied in areas of the 2nd category of location providing electric motor protection against weather and direct sunlight.

For the purpose of normal fan operation it is recommended to install oil and grease entrainment filter, which shall be cleaned or replaced on a regular basis.

Impeller dynamic balancing. The fan is functional in any position.

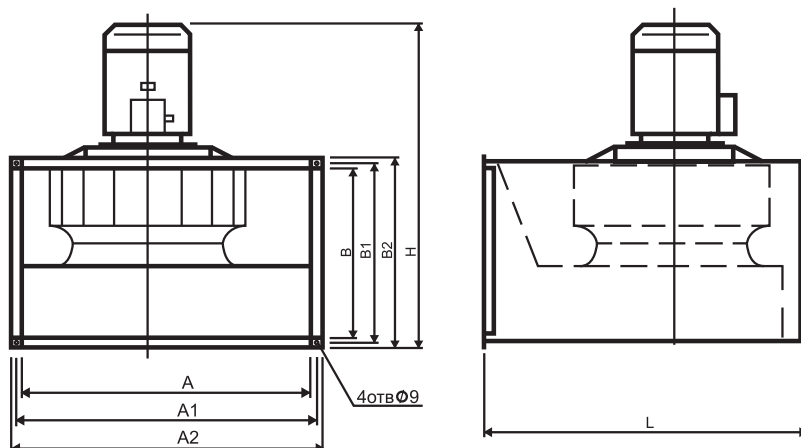
Explosion-proof version is available.

Automatic Control System see p.182.

Fans are denoted as follows:

ВРПН – Н – 3,15 ВКХ – 2 – 3 – У3

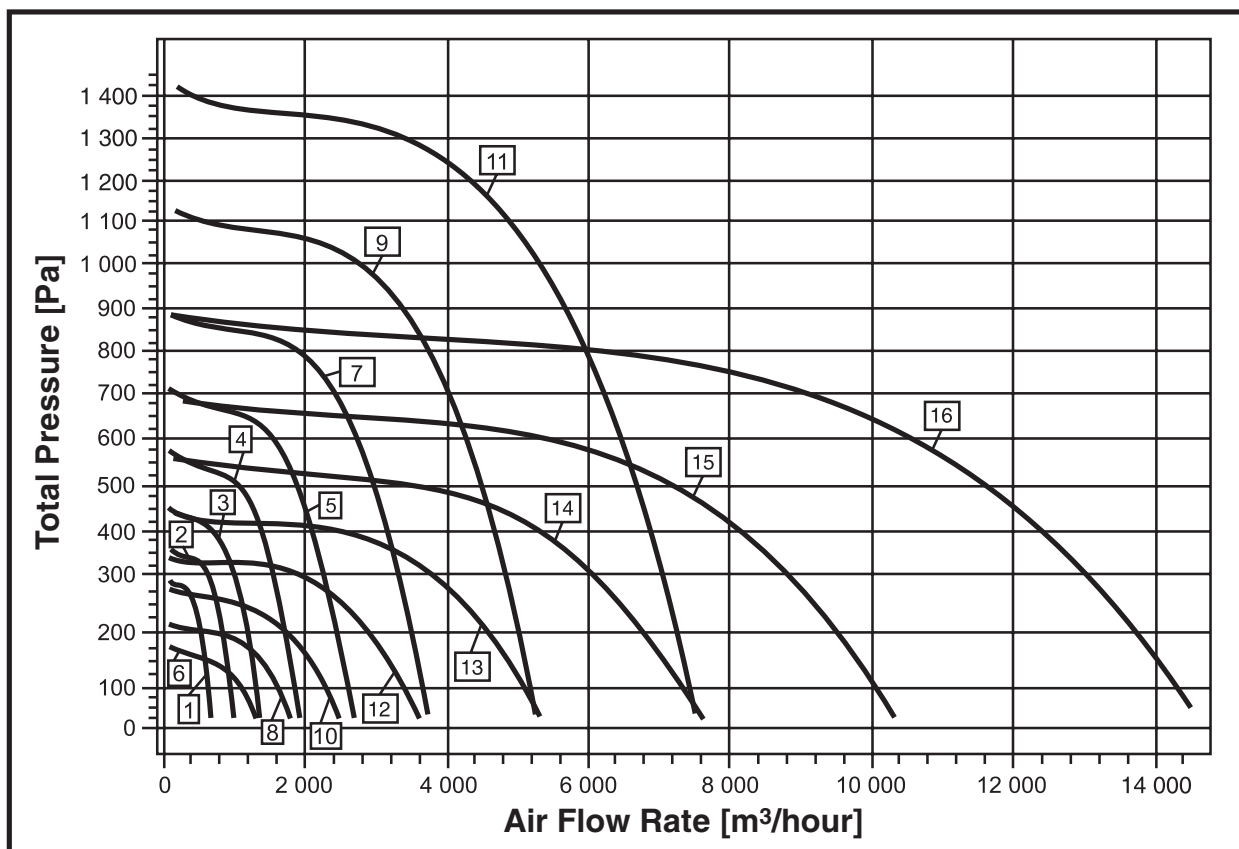
- Climatic version;
- Power grid:
1 – single-phase,
3 – three-phase;
- Number of motor poles (2, 4, 6, or 8);
- Special version:
КХ – kitchen, or КР – corrosion-proof;
- Special version:
В – explosion-proof;
- Impeller diameter in decimeters (fan number);
- Electric motor is located outside the duct;
- Impeller blades type: Н – Backward-curved blades;
- Fan type (Radial fan, rectangular, ducted).



No.	Fan Type	Dimensions [mm]								Weight [kg]
			B	A1	B1	A2	B2	H	L	
1	ВРПН-Н-1,6-2-3/1	300	150	320	170	340	190	340	340	10.8 (10.9)
2	ВРПН-Н-1,8-2-3/1	400	200	420	220	440	240	420	365	15.3 (15.4)
3	ВРПН-Н-2-2-3/1	400	200	420	220	440	240	420	365	16.0 (16.1)
4	ВРПН-Н-2,25-2-3/1	500	250	520	270	540	290	475	455	23.8 (23.9)
5	ВРПН-Н-2,5-2-3/1	500	250	520	270	540	290	475	455	25.5 (25.6)
6	ВРПН-Н-2,5-4-3/1	500	250	520	270	540	290	440	455	23.0 (23.1)
7	ВРПН-Н-2,8-2-3	500	300	520	320	540	340	560	475	32.4 (32.5)
8	ВРПН-Н-2,8-4-3/1	500	300	520	320	540	340	520	475	26.4 (26.5)
9	ВРПН-Н-3,15-2-3	500	300	520	320	540	340	585	530	39.7 (39.8)
10	ВРПН-Н-3,15-4-3/1	500	300	520	320	540	340	520	530	30.8 (30.9)
11	ВРПН-Н-3,55-2-3	600	350	620	370	640	390	665	585	52.8 (52.9)
12	ВРПН-Н-3,55-4-3/1	600	350	620	370	640	390	575	585	39.9 (40)
13	ВРПН-Н-4-4-3	700	400	720	420	740	440	660	665	53.7 (53.8)
14	ВРПН-Н-4,5-4-3	800	500	830	530	860	560	790	835	79.4 (79.5)
15	ВРПН-Н-5-4-3	800	500	830	530	860	560	820	835	88.8 (88.9)
16	ВРПН-Н-5,6-4-3	1000	500	1030	530	1060	560	975	950	110.6 (110.7)

CHARACTERISTICS SUMMARY DIAGRAM

500 – 14000 m³/hour



№	Fan Type	Duct Cross-Section AxB [mm]	Electric Motor Type	Frequency n [min ⁻¹]	Power N _y [kW]	Adjusted Sound Power Level L _{pA} [dB(A)]	
						At the Inlet	At the Outlet
1	ВРПН-Н(К)-1,6-2-3	300x150	АИС56А2	2900	0,09	62	66
	ВРПН-Н(К)-1,6-2-1	300x150	АИСЕ56А2	2900	0,09	62	66
2	ВРПН-Н(К)-1,8-2-3	400x200	АИС56В2	2900	0,12	67	74
	ВРПН-Н(К)-1,8-2-1	400x200	АИСЕ56В2	2900	0,12	67	74
3	ВРПН-Н(К)-2,2-2-3	400x200	АИР56А2	2900	0,18	69	73
	ВРПН-Н(К)-2,2-2-1	400x200	АИРЕ56А2	2900	0,18	69	73
4	ВРПН-Н(К)-2,25-2-3	500x250	АИР63А2	2900	0,37	72	79
	ВРПН-Н(К)-2,25-2-1	500x250	АИРЕ63А2	2900	0,37	72	79
5	ВРПН-Н(К)-2,5-2-3	500x250	АИР63В2	2900	0,55	76	80
	ВРПН-Н(К)-2,5-2-1	500x250	АИРЕ63В2	2900	0,55	76	80
6	ВРПН-Н(К)-2,5-4-3	500x250	АИС56В4	1450	0,09	57	61
	ВРПН-Н(К)-2,5-4-1	500x250	АИСЕ56В4	1450	0,09	57	61
7	ВРПН-Н(К)-2,8-2-3	500x300	АИР71В2	2900	1,1	62	69
8	ВРПН-Н(К)-2,8-4-3	500x300	АИР56А4	1450	0,12	60	64
	ВРПН-Н(К)-2,8-4-1	500x300	АИРЕ56А4	1450	0,12	60	64
9	ВРПН-Н(К)-3,15-2-3	500x300	АИР80В2	2900	2,2	66	73
10	ВРПН-Н(К)-3,15-4-3	500x300	АИР63А4	1450	0,25	65	69
	ВРПН-Н(К)-3,15-4-1	500x300	АИРЕ63А4	1450	0,25	65	69
11	ВРПН-Н(К)-3,55-2-3	600x350	АИР90Л2	2900	3	81	88
12	ВРПН-Н(К)-3,55-4-3	600x350	АИР63В4	1450	0,37	67	71
	ВРПН-Н(К)-3,55-4-1	600x350	АИРЕ63В4	1450	0,37	67	71
13	ВРПН-Н(К)-4-4-3	700x400	АИР71В4	1450	0,75	72	76
14	ВРПН-Н(К)-4,5-4-3	800x500	АИР80В4	1450	1,5	75	79
15	ВРПН-Н(К)-5-4-3	800x500	АИР90Л4	1450	2,2	79	83
16	ВРПН-Н(К)-5,6-4-3	1000x500	АИР100Л4	1450	4	80	84

Manufactured in accordance with TU 4861-002-64600223-13

500 – 14000 m³/hour

- ◆ Impeller with backward-curved blades
- ◆ Low energy consumption
- ◆ Impeller dynamic balancing
- ◆ The fan is functional in any position

Motor position outside the air duct provides protection against effects of foreign matters from the air flow (steam, grease, etc.).



Fans are denoted as follows:

ВРПН – Н – 3,15 БК – 2 – 3 – У3

- Climatic version;
- Power grid: 3 – three-phase;
- Number of motor poles (2, 4, 6, or 8);
- Special version: К – acid-proof
- Special version: В – explosion-proof;
- Impeller diameter in decimeters (fan number);
- Electric motor is located outside the duct;
- Impeller blades type:
 - Н – backward-curved blades, В – forward-curved blades;
- Fan type (Radial fan, rectangular, ducted).

Possibility of rotation frequency control by switching poles of the multi-speed motor (optional, have to be ordered) or by a frequency converter.

Casing and impeller are made of stainless acid-resistant steel 10X17H13M3T or similar in characteristics, and do not have a coating.

EX-rating of motors is no lower than 2ExdIICT4 (explosion-proof in hydrogen, acetylene, or bi-sulfide carbon gaseous environment). Resistibility to sulfuric acid, hydrochloric acid, nitric acid, and phosphoric acid fumes is provided.

Fans are designed for handling aggressive (acidic) steam-gas and air explosive mixtures of IIC category, groups T1-T4 according to GOST R 51330.11 classification, which are not containing explosive dusts, explosive agents, adhesive agents, fibrous materials, and abrasive materials, with dust and other solid impurities content of 100 mg/m³ max at the temperature ranging from -40 to +80 °C.

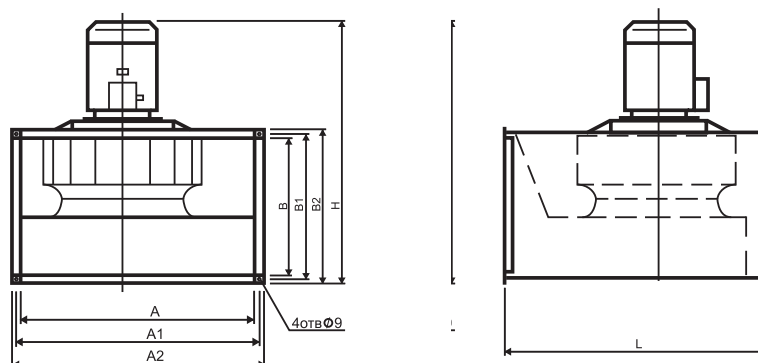
Aggressiveness of handled gas-air mixtures in relation to 10X17H13M3T steel or identical shall not cause corrosion at the rate exceeding 0.1 mm per year.

Fans shall not be used for handling of steam-gas and air mixtures from manufacturing plants, where explosive materials may be heated above self-ignition temperature or placed under excess pressure.

Functional area: explosion hazard zones inside facilities or external installations in accordance with explosion protection grading of installed explosion-proof electrical equipment pursuant to GOST R 51330.13-99 (IEC 60079-1496), ch.7.3 of Electric Installation Code and other regulatory documents, governing application of electric installations in explosion hazard zones. In case of outdoor installation, all-weather shelter shall be considered. Fans are used for direct mounting into exhaust system rectangular duct in accumulator station facilities. Fans are used for operation in temperate (Y) climate conditions of 3rd category of location according to GOST 15150 at the environment temperature ranging from -40 to +40 °C. Fans are allowed to be applied in areas of the 2nd category of location providing electric motor protection against weather and direct sunlight.

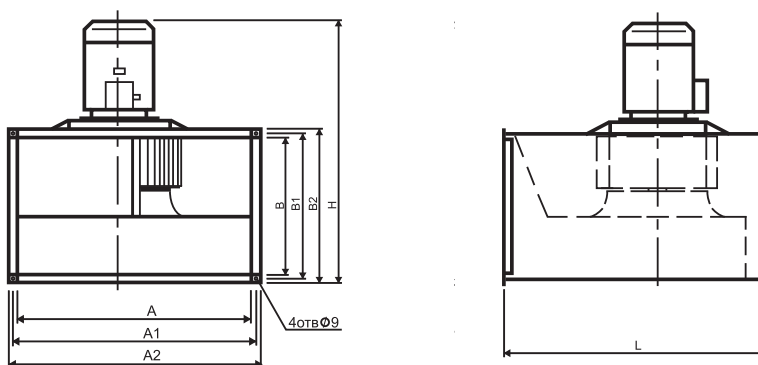
Automatic Control System see p.182.

ВРПН-НБК (VRPN-NVK) fans overall and connection dimensions [mm]:



No.	Fan Model	Dimensions [mm]								Weight [kg]
		A	A1	A2	B	B1	B2	L	H	
1	ВРПН-Н-1,6БК-2-3	300	320	340	150	170	190	340	340	13.8
2	ВРПН-Н-1,8БК-2-3	400	420	440	200	220	240	420	365	18.3
3	ВРПН-Н-2БК-2-3	400	420	440	200	220	240	420	365	19.0
4	ВРПН-Н-2,25БК-2-3	500	520	540	250	270	290	475	455	26.8
5	ВРПН-Н-2,5БК-2-3	500	520	540	250	270	290	475	455	30.5
6	ВРПН-Н-2,5БК-4-3	500	520	540	250	270	290	440	455	29.0
7	ВРПН-Н-2,8БК-2-3	500	520	540	300	320	340	560	475	40.4
8	ВРПН-Н-2,8БК-4-3	500	520	540	300	320	340	520	475	32.4
9	ВРПН-Н-3,15БК-2-3	500	520	540	300	320	340	585	530	49.7
10	ВРПН-Н-3,15БК-4-3	500	520	540	300	320	340	520	530	36.8
11	ВРПН-Н-3,55БК-2-3	600	620	640	350	370	390	665	585	64.8
12	ВРПН-Н-3,55БК-4-3	600	620	640	350	370	390	575	585	45.9
13	ВРПН-Н-4БК-4-3	700	720	740	400	420	440	660	665	61.7
14	ВРПН-Н-4,5БК-4-3	800	830	740	500	530	560	790	835	89.4
15	ВРПН-Н-5БК-4-3	800	830	860	500	530	560	820	835	100.8
16	ВРПН-Н-5,6БК-4-3	1,000	1,030	1,060	500	530	560	975	950	125.6

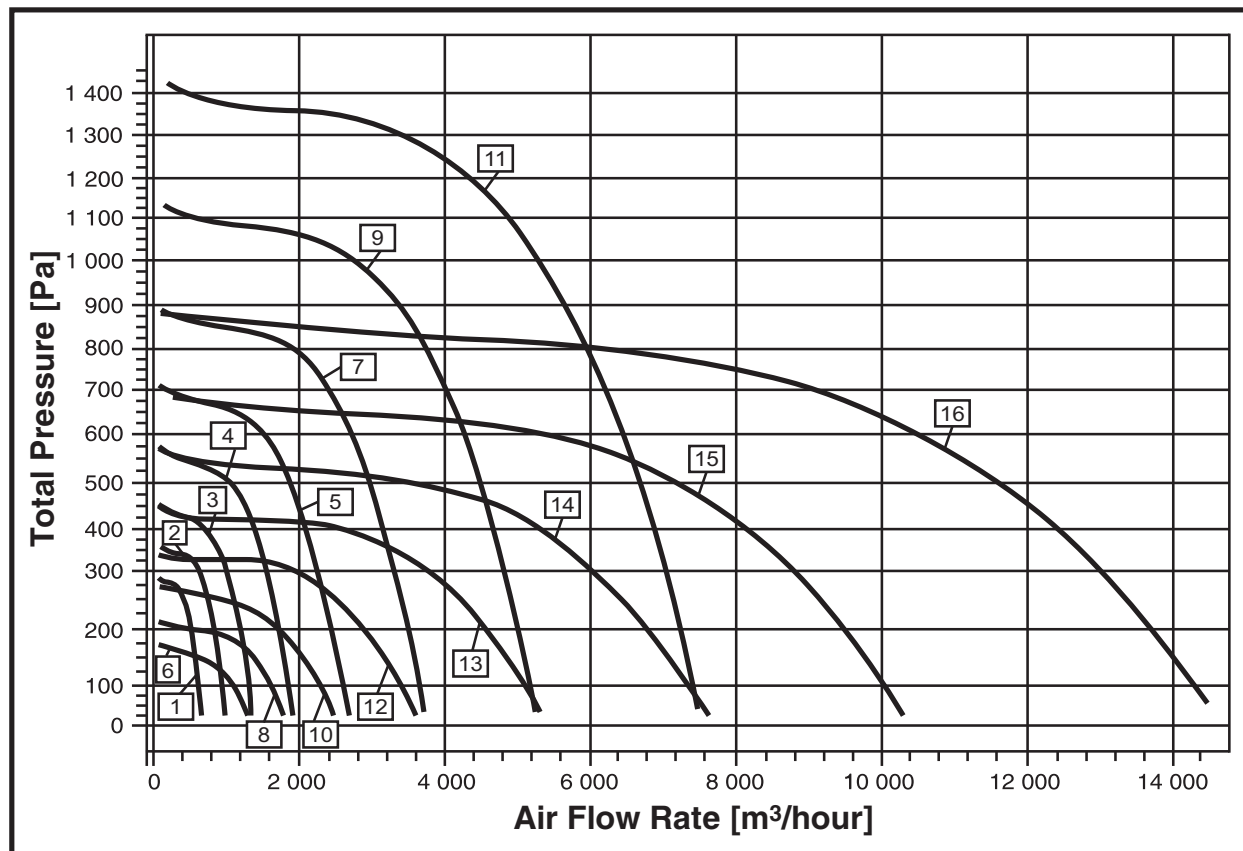
ВРПВ-НБК (VRPV-NVK) fans overall and connection dimensions



No.	Fan Type	Dimensions [mm]								Weight [kg]
		A	B	A1	B1	A2	B2	H	L	
1	ВРПВ-Н-2БК-4-3	500	250	520	270	540	290	495	550	18.4
2	ВРПВ-Н-2,25БК-4-3	500	300	520	320	540	340	570	600	20.7
3	ВРПВ-Н-2,5БК-4-3	600	300	620	320	640	340	590	680	37
4	ВРПВ-Н-2,8БК-4-3	600	350	620	370	640	390	650	720	56.8
5	ВРПВ-Н-3,15БК-4-3	700	400	720	420	740	440	780	780	64
6	ВРПВ-Н-3,55БК-4-3	800	500	830	530	860	560	900	900	72
7	ВРПВ-Н-3,55БК-6-3	800	500	830	530	860	560	900	900	90.5
8	ВРПВ-Н-4БК-4-3	900	500	930	530	960	560	980	1,035	131
9	ВРПВ-Н-4БК-6-3	900	500	930	530	960	560	920	1,035	102

CHARACTERISTICS SUMMARY DIAGRAM

500 – 14000 m³/hour



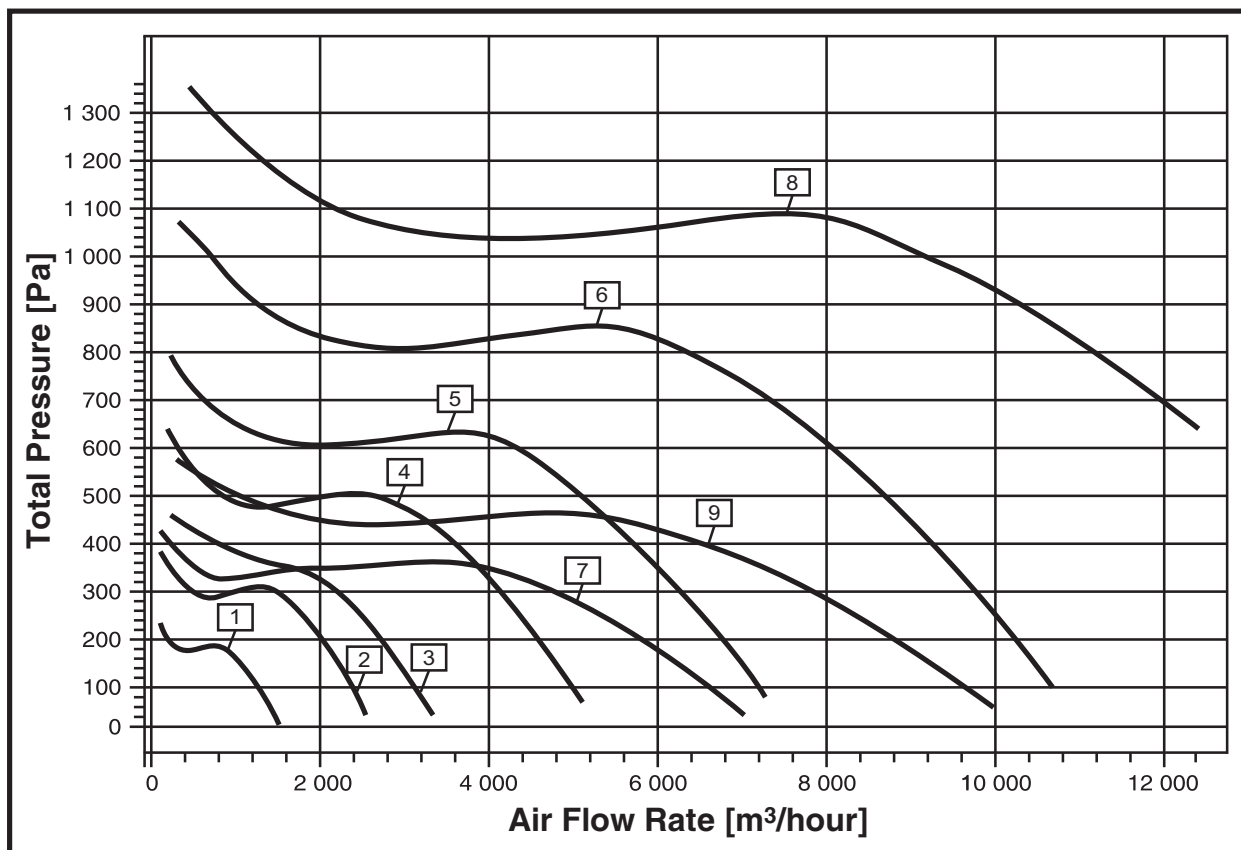
No.	Fan Model	Electric Motor			Fan Weight [kg]
		Type	Rotation Speed [rpm]	Power [kW]	
1	ВРПН-Н-1,6ВК-2-3	АИМ63А2	2900	0,37	13,8
2	ВРПН-Н-1,8ВК-2-3	АИМ63А2	2900	0,37	18,3
3	ВРПН-Н-2ВК-2-3	АИМ63А2	2900	0,37	19,0
4	ВРПН-Н-2,25ВК-2-3	АИМ63А2	2900	0,37	26,8
5	ВРПН-Н-2,5ВК-2-3	АИР63В2	2900	0,55	30,5
6	ВРПН-Н-2,5ВК-4-3	АИМ63А4	1450	0,25	29,0
7	ВРПН-Н-2,8ВК-2-3	АИМ71В2	2900	1,1	40,4
8	ВРПН-Н-2,8ВК-4-3	АИМ63А4	1450	0,25	32,4
9	ВРПН-Н-3,15ВК-2-3	АИМ80В2	2900	2,2	49,7
10	ВРПН-Н-3,15ВК-4-3	АИМ63А4	1450	0,25	36,8
11	ВРПН-Н-3,55ВК-2-3	АИМ90Л2	2900	3	64,8
12	ВРПН-Н-3,55ВК-4-3	АИМ63В4	1450	0,37	45,9
13	ВРПН-Н-4ВК-4-3	АИМ71В4	1450	0,75	61,7
14	ВРПН-Н-4,5ВК-4-3	АИМ80В4	1450	1,5	89,4
15	ВРПН-Н-5ВК-4-3	АИМ90Л4	1450	2,2	100,8
16	ВРПН-Н-5,6ВК-4-3	АИМ100Л4	1450	4	125,6

Note:

1) Explosion protection degree for the type «ВК» fan motors is no lower than 2ExdIICT4.

CHARACTERISTICS SUMMARY DIAGRAM

400 – 12000 m³/hour



No.	Fan Model	Duct Cross-Section AxB [mm]	Electric Motor Type	Frequency n [min ⁻¹]	Power Ny [kW]	Adjusted Sound Power Level L _{pA} [dB(A)]	
						At the Inlet	At the Outlet
1	ВРПВ-Н-2БК-4-3	500x250	АИМ63В4	1420	0,37	71	74
2	ВРПВ-Н-2,25БК-4-3	500x300	АИМ71А4	1450	0,55	74	77
3	ВРПВ-Н-2,5БК-4-3	600x300	АИМ80А4	1350	1,1	77	80
4	ВРПВ-Н-2,8БК-4-3	600x350	АИМ80В4	1450	1,5	80	83
5	ВРПВ-Н-3,15БК-4-3	700x400	АИМ100L4	1410	4	83	86
6	ВРПВ-Н-3,55БК-4-3	800x500	АИМ112М4	1450	5,5	87	89
7	ВРПВ-Н-3,55БК-6-3	800x500	АИМ100L6	950	2,2	67	71
8	ВРПВ-Н-4БК-4-3	900x500	АИМ132М4	1450	11	89	91
9	ВРПВ-Н-4БК-6-3	900x500	АИМ112МБ6	950	4	82	84

Note:

1) Explosion protection degree for the type «БК» fan motors is no lower than 2ExdIICT4