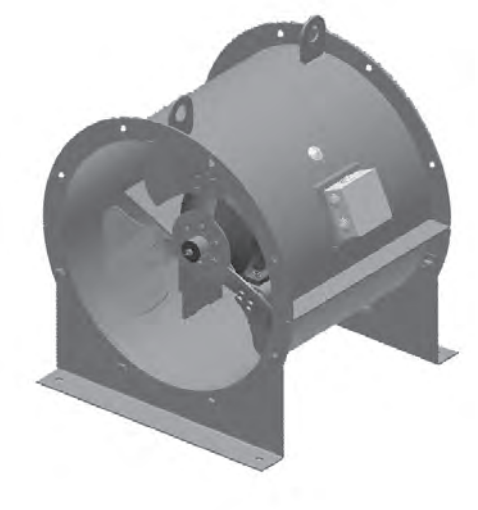
Manufactured in accordance with TU 4861-028-64600223-13

2000 – 56000 m³/hour

BO 12–300 fans are used in HVAC systems of industrial, public, and residential buildings, as well as in other sanitary-engineering or production applications.



Automatic Control System see p.182.

Fans are denoted as follows:

BO – 12 – 300 – 4 – B – 00 – У2

- Climatic version;
- Fan design number;
- Design variant: without alphabetic notation – general purpose;
- Impeller diameter in decimeters;
- Aerodynamic configuration index;
- Fan type (Axial fan).

Fans are used for operation in temperate (У), tropical (Т), or boreal (УХЛ) climate conditions of 2nd category of location according to GOST 15150. 1st category of location is allowed to provide fan protection against direct sunlight and weather (see pp.169-170).

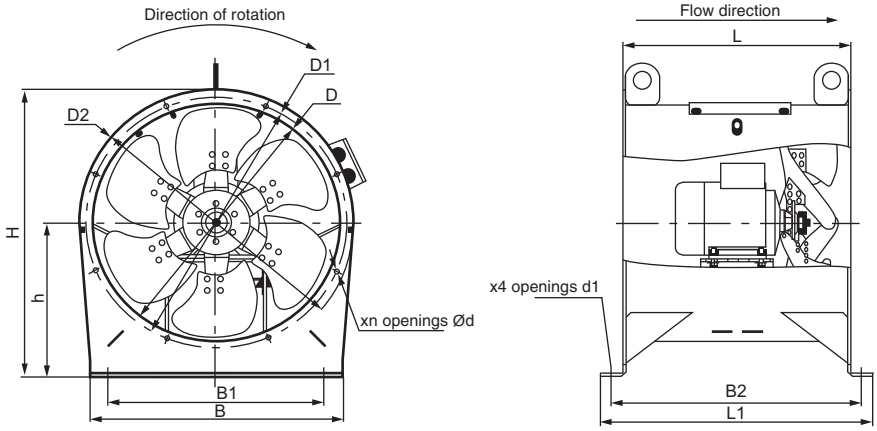


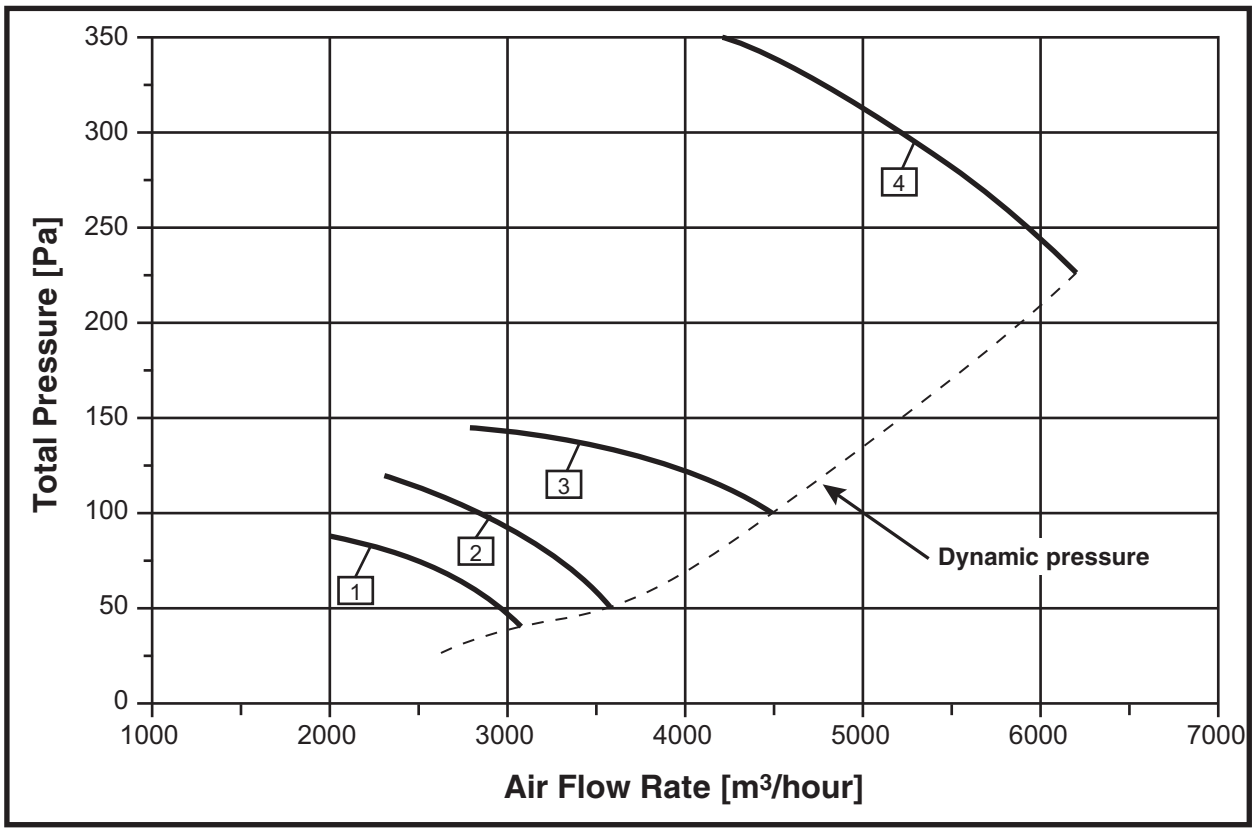
Fig. 1: Overall and connection dimensions of BO-12-300 (VO-12-300) fans

Overall and connection dimensions of general purpose industrial grade fans BO-12-300 (VO-12-300)

Fan Type	Dimensions [mm]													Weight [kg]
	D	D_1	D_2	d	d_1	B	B_1	B_2	L	L_1	H	h	n	
BO-12-300-4-00	406	430	460	8	12	420	360	416	380	452	495	265	8	21,9
BO-12-300-4-01	406	430	460	8	12	420	360	416	380	452	495	265	8	24,0
BO-12-300-4-02	406	430	460	8	12	420	360	416	380	452	495	265	8	24,8
BO-12-300-4-03	406	430	460	8	12	420	360	416	380	452	495	265	8	27,2
BO-12-300-5-00	506	530	560	8	12	520	460	442	406	478	600	320	10	30,2
BO-12-300-5-01	506	530	560	8	12	520	460	442	406	478	600	320	10	35,5
BO-12-300-6,3-00	640	680	710	10	18	630	570	562	500	612	730	375	12	51,2
BO-12-300-6,3-01	640	680	710	10	18	630	570	562	500	612	730	375	12	60,9
BO-12-300-6,3-02	640	680	710	10	18	630	570	562	500	612	730	375	12	56,9
BO-12-300-6,3-03	640	680	710	10	18	630	570	562	500	612	730	375	12	63,9
BO-12-300-8-00	810	850	900	10	18	800	760	320	500	410	975	525	12	77,0
BO-12-300-8-01	810	850	900	10	18	800	760	320	500	410	975	525	12	85,6
BO-12-300-8-02	810	850	900	10	18	800	760	320	500	410	975	525	12	84,0
BO-12-300-10-00	1020	1055	1100	10	18	940	900	410	590	500	1175	625	16	121,5
BO-12-300-12,5-00	1270	1310	1350	12	18	1170	1110	550	716	616	1430	755	18	210,0
BO-12-300-12,5-01	1270	1310	1350	12	18	1170	1110	550	716	616	1430	755	18	213,0
BO-12-300-12,5-02	1270	1310	1350	12	18	1170	1110	550	716	616	1430	755	18	218,0

CHARACTERISTICS SUMMARY DIAGRAM

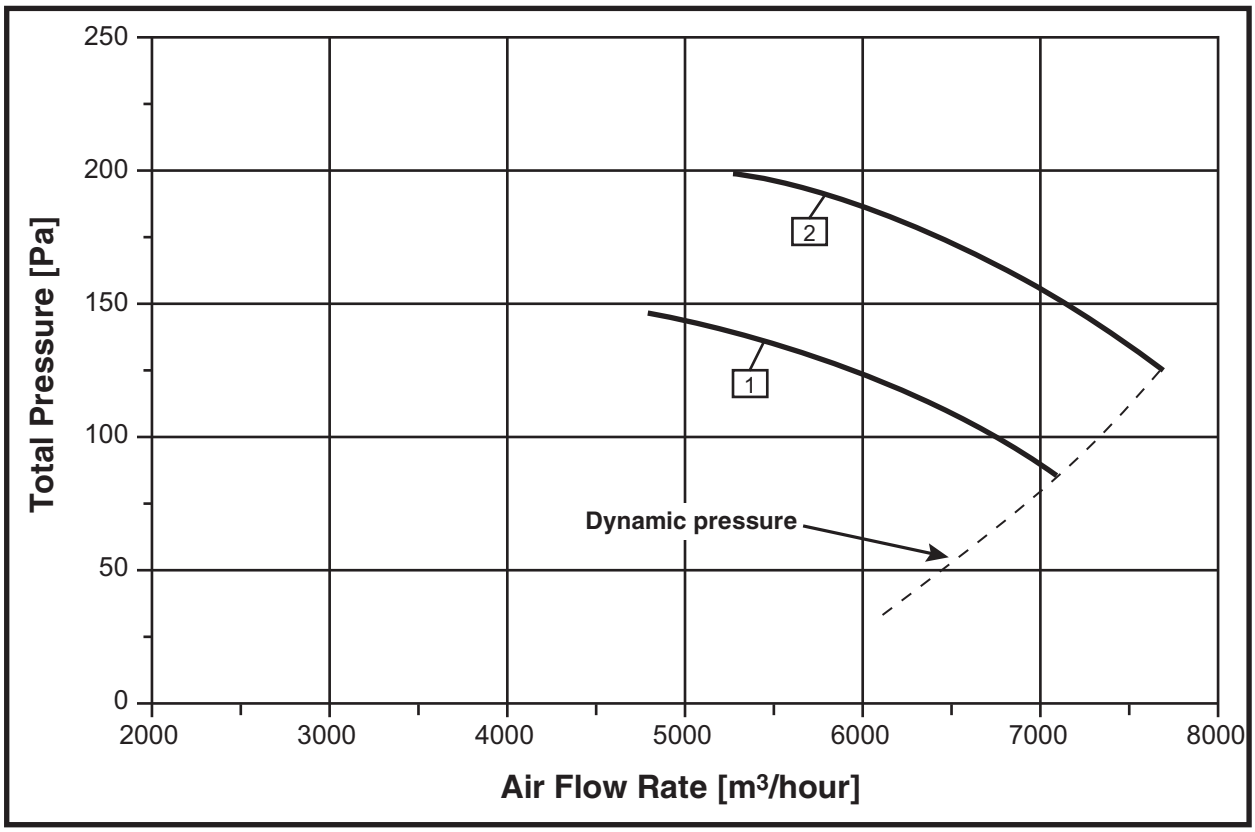
2000 – 6300 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	ВО-12-300-4-00	АИР56А4	1450	0,12	2,0 – 3,1	87 – 40
2	ВО-12-300-4-01	АИР56В4	1450	0,18	2,5 – 3,6	120 – 50
3	ВО-12-300-4-02	АИР63А4	1450	0,25	3,4 – 4,5	145 – 100
4	ВО-12-300-4-03	АИР71А2	2900	0,75	4,2 – 6,3	350 – 175

CHARACTERISTICS SUMMARY DIAGRAM

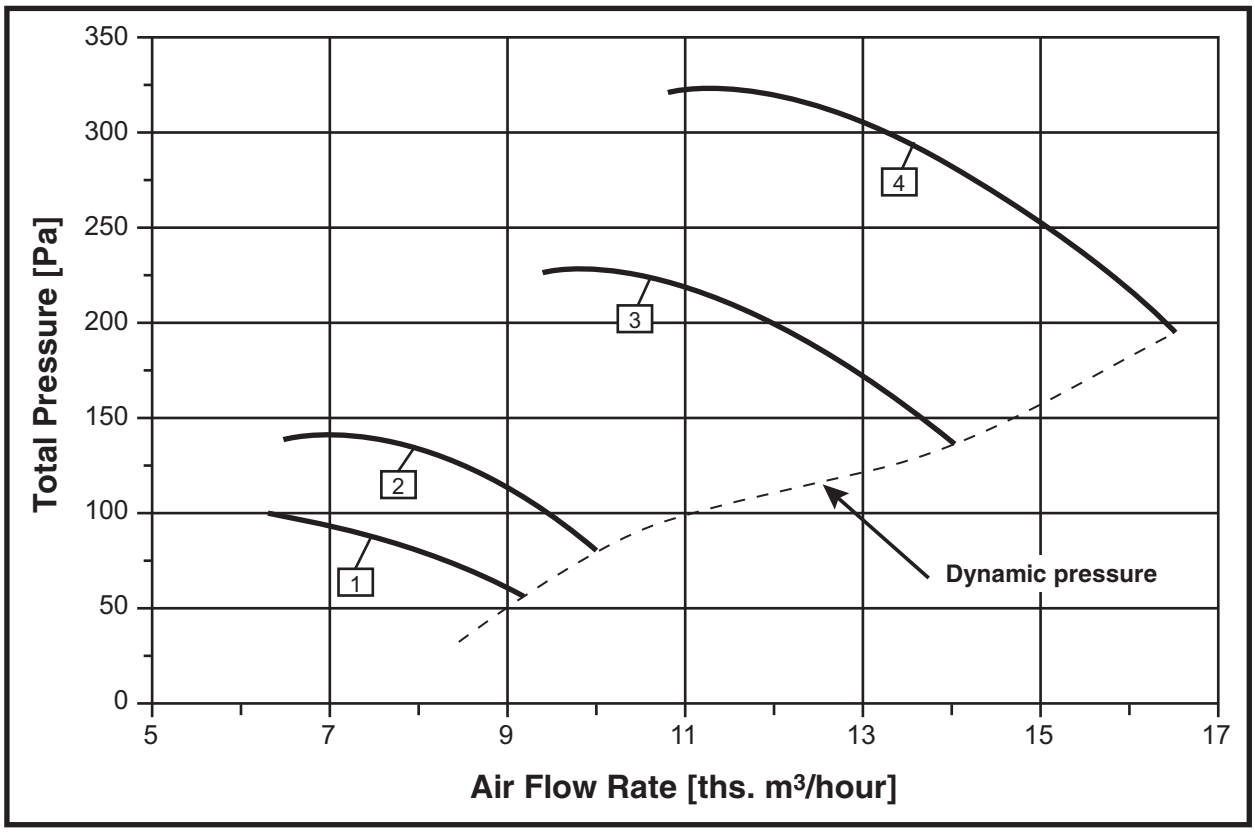
4800 – 7700 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	BO-12-300-5-00	АИР63В4	1450	0,37	4,8 – 7,1	145 – 85
2	BO-12-300-5-01	АИР71А4	1450	0,55	5,2 – 7,7	200 – 125

CHARACTERISTICS SUMMARY DIAGRAM

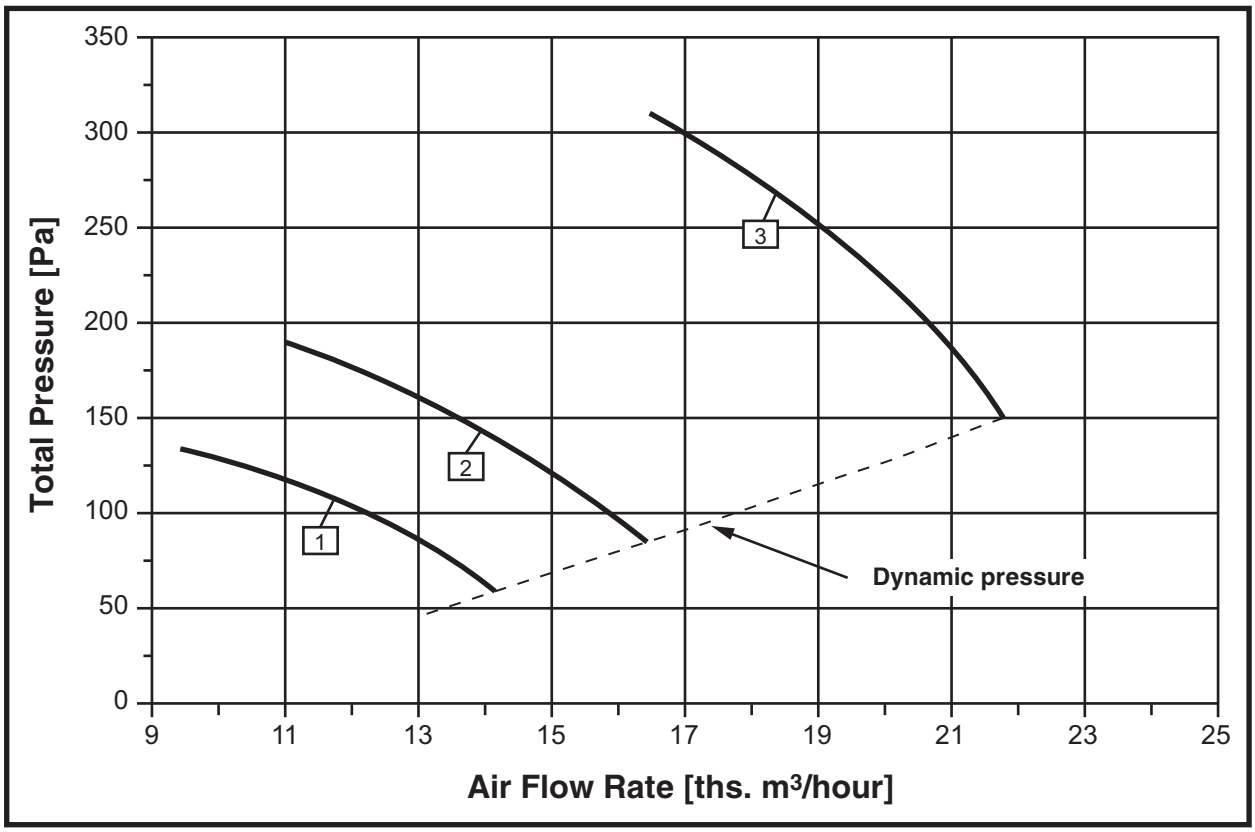
6200 – 16000 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	BO-12-300-6,3-00	АИР71А6	950	0,37	6,2 – 9,2	100 – 56
2	BO-12-300-6,3-01	АИР80А6	950	0,75	6,5 – 10,0	140 – 80
3	BO-12-300-6,3-02	АИР80А4	1450	1,1	9,4 – 14,0	225 – 135
4	BO-12-300-6,3-03	АИР90L4	1450	2,2	10,8 – 16,0	320 – 190

CHARACTERISTICS SUMMARY DIAGRAM

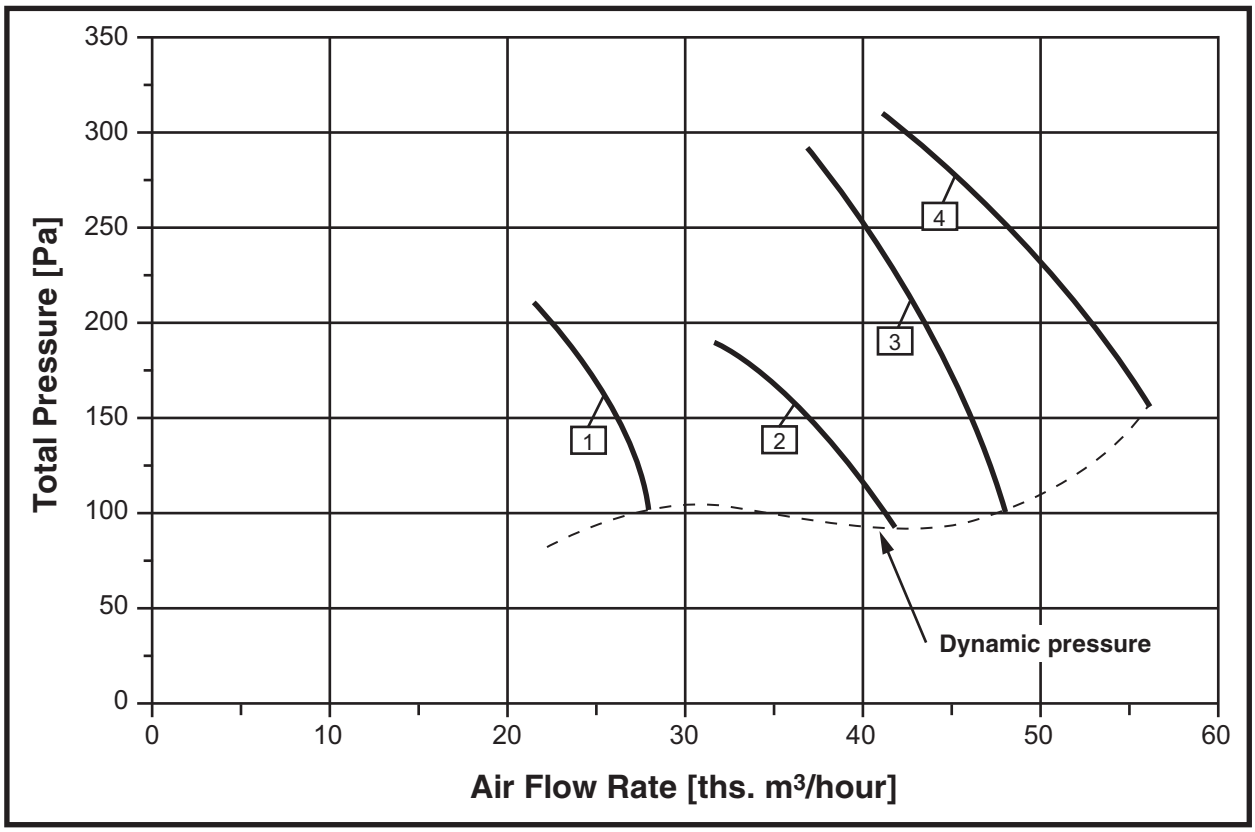
9500 – 46000 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	BO-12-300-8-00	АИР80А6	950	0,75	9,5 – 14,2	135 – 60
2	BO-12-300-8-01	АИР80В6	950	1,1	11,0 – 16,5	190 – 85
3	BO-12-300-8-02	АИР100S4	1450	3,0	16,5 – 46,0	310 – 150

CHARACTERISTICS SUMMARY DIAGRAM

21400 – 56000 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	BO-12-300-10-00	АИР100L6	950	2,2	21,4 – 28,0	210 – 100
2	BO12-300-12,5-00	АИР112МВ8	730	3,0	31,6 – 42,0	190 – 90
3	BO-12-300-12,5-01	АИР132М8	730	5,5	34,8 – 46,5	260 – 120
4	BO-12-300-12,5-02	АИР132М6	950	7,5	39,0 – 56,0	320 – 160

Manufactured in accordance with TU 4861-029-64600223-13

15000 – 89000 m³/hour

BO 25–188 fans are used in HVAC systems of industrial, public, and residential buildings, as well as in other sanitary-engineering or production applications.

Automatic Control System see p.182.

Fans are denoted as follows:

BO – 25 – 188 – 8 – B – 00 – У2

- У2 — Climatic version;
- 00 — Fan design number;
- B — Design variant: without alphabetic notation – general purpose; B – explosion-proof;
- 8 — Impeller diameter in decimeters;
- 25 — Aerodynamic configuration index;
- BO — Fan type (Axial fan).

Fans are used for operation in temperate (У), tropical (Т), or boreal (УХЛ) climate conditions of 2nd category of location according to GOST 15150. 1st category of location is allowed to provide fan protection against direct sunlight and weather (see pp.169-170).

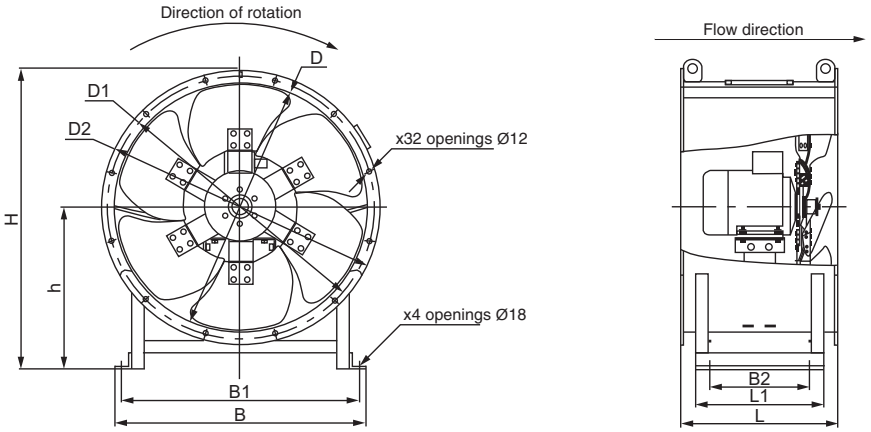
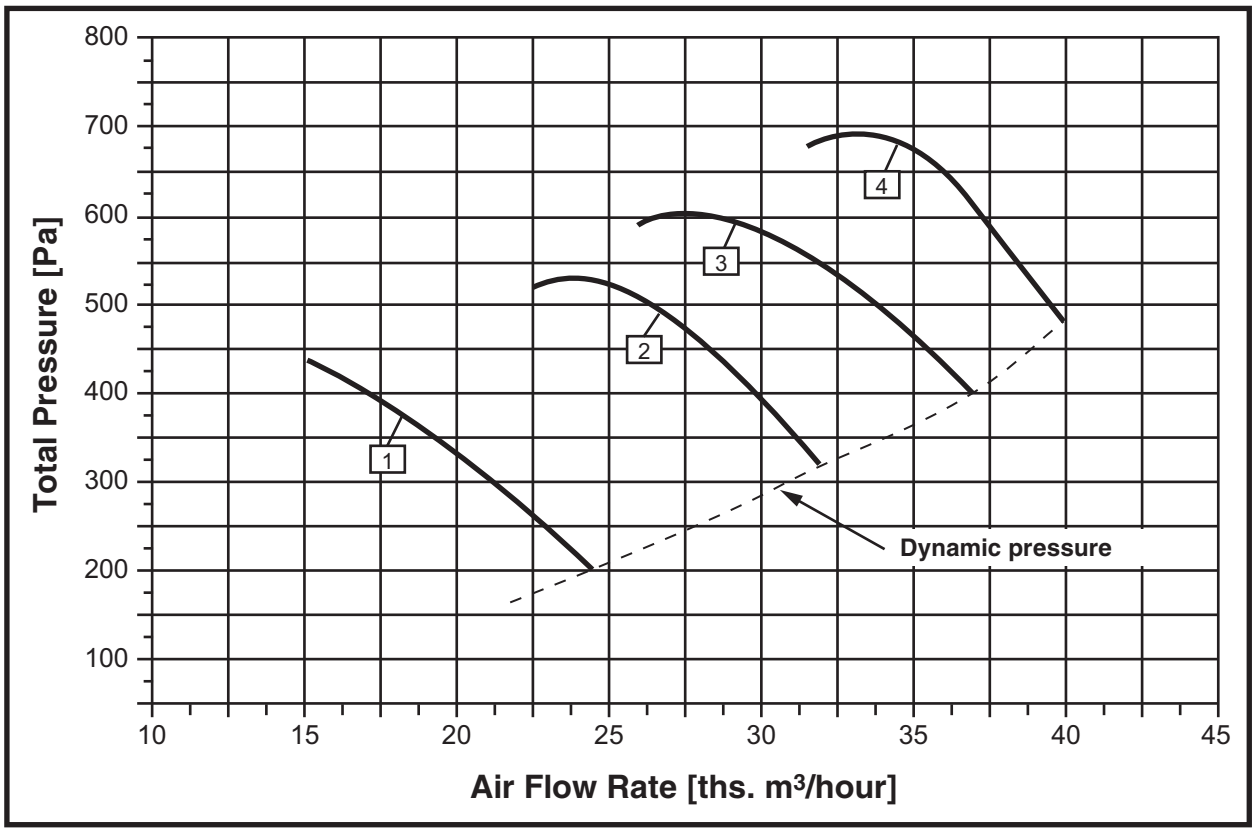


Fig. 1: Overall and connection dimensions of BO-25-188 (VO-25-188) fans

Fan Type	Dimensions [mm]										Weight [kg]
	D	D_1	D_2	B	B_1	B_2	L	L_1	H	h	
BO-25-188-8-00	810	860	900	800	760	350	530	440	1005	555	105.2
BO-25-188-8-01	810	860	900	800	760	420	600	510	1005	555	119,3
BO-25-188-8-02	810	860	900	800	760	540	720	630	1005	555	140
BO-25-188-8-03	810	860	1110	800	760	540	720	630	1005	555	146
BO-25-188-10-00	1020	1070	1110	940	900	530	710	620	1285	730	177
BO-25-188-10-01	1020	1070	1110	940	900	670	850	760	1285	730	258
BO-25-188-10-02	1020	1070	1110	940	900	670	850	760	1285	730	274,6
BO-25-188-12,5-00	1260	1320	1360	1170	1110	680	860	770	1590	910	312
BO-25-188-12,5-01	1260	1320	1360	1170	1110	680	860	770	1590	910	342
BO-25-188-12,5-02	1260	1320	1360	1170	1110	810	990	900	1590	910	367

CHARACTERISTICS SUMMARY DIAGRAM

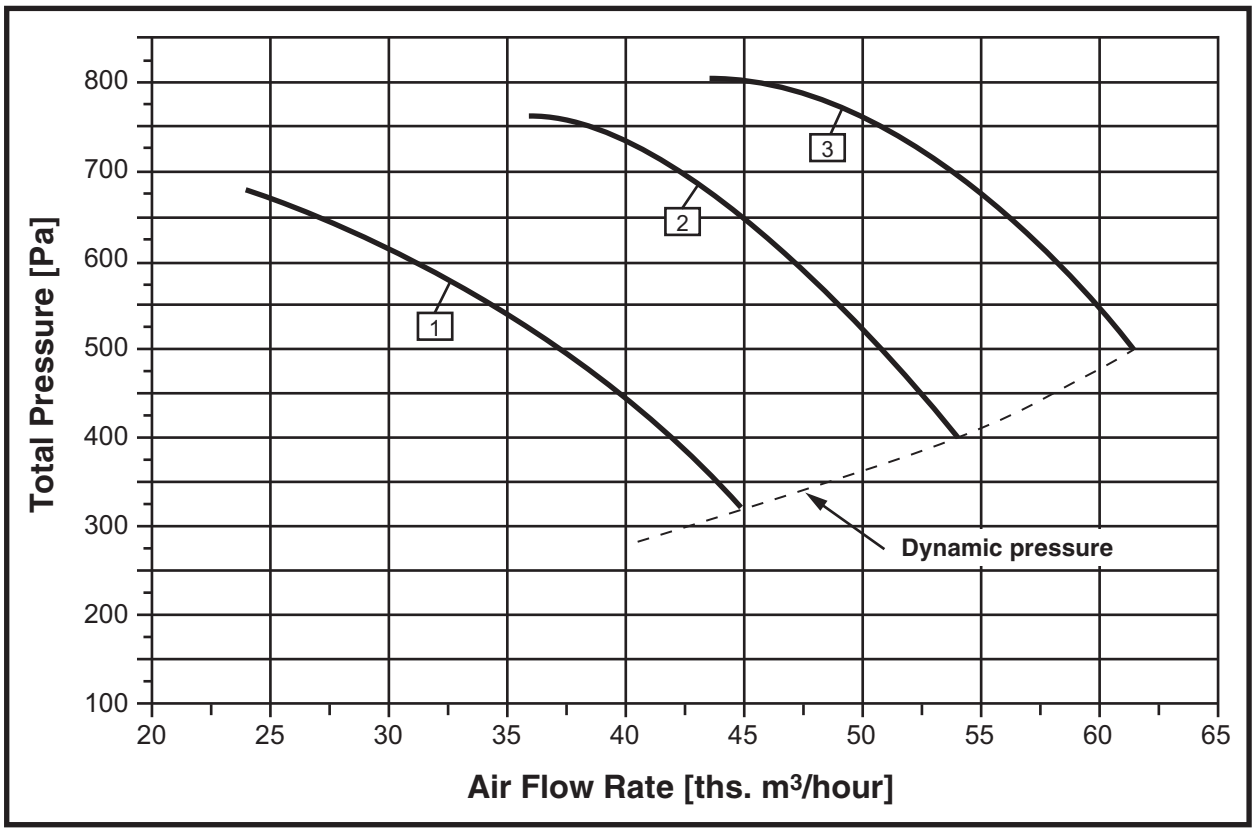
15000 – 40000 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	BO-25-188-8-00	АИР100L4	1450	4,0	15,0 – 24,5	440 – 200
2	BO-25-188-8-01	АИР112M4	1450	5,5	22,5 – 32,0	520 – 320
3	BO-25-188-8-02	АИР132S4	1450	7,5	26,0 – 37,0	590 – 400
4	BO-25-188-8-03	АИР132M4	1450	11,0	31,5 – 40,0	680 – 480

CHARACTERISTICS SUMMARY DIAGRAM

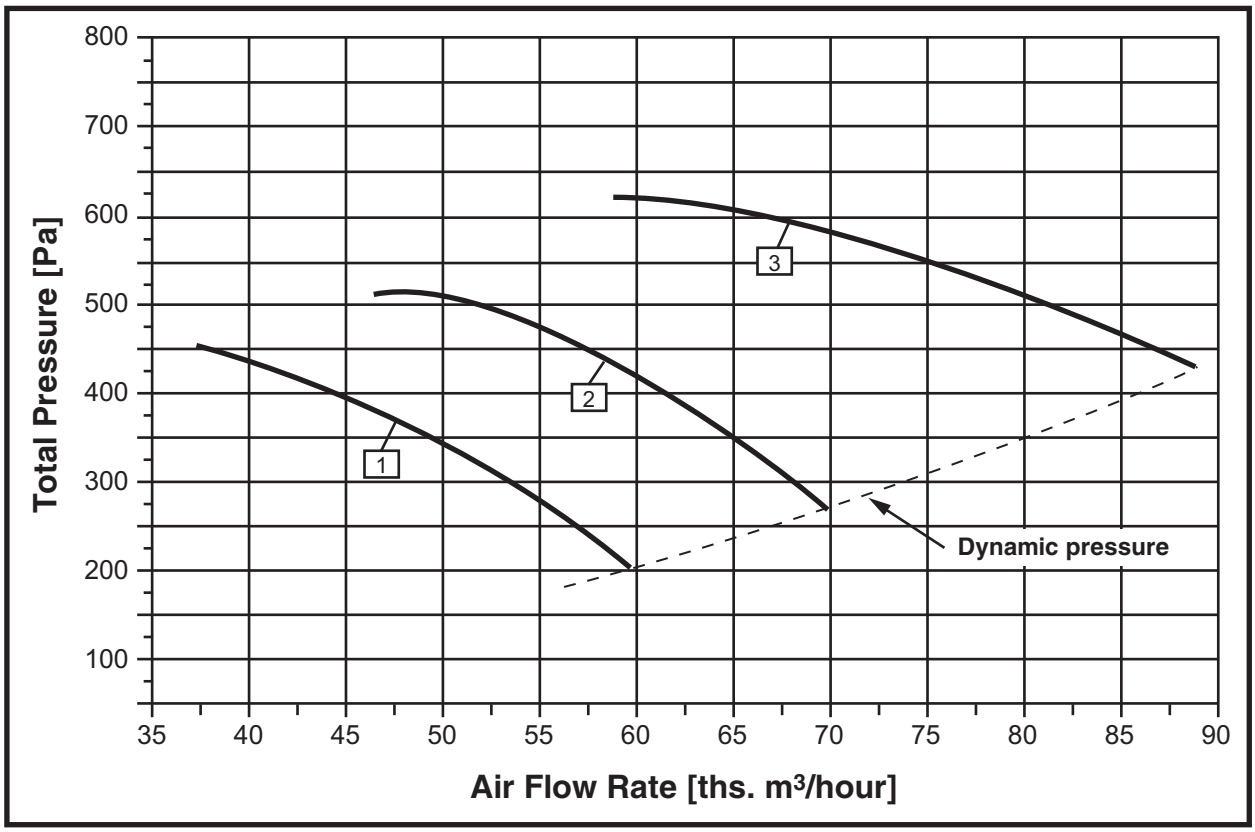
24000 – 61500 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	BO-25-188-10-00	АИР132М4	1450	11,0	24,0 – 45,0	680 – 320
2	BO-25-188-10-01	АИР160S4	1450	15,0	36,0 – 54,0	760 – 400
3	BO-25-188-10-02	АИР160М4	1450	18,5	43,0 – 61,5	800 – 500

CHARACTERISTICS SUMMARY DIAGRAM

37400 – 89000 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	ВО-25-188-12,5-00	АИР160S6	950	11,0	37,4 – 60,0	455 – 205
2	ВО-25-188-12,5-01	АИР160M6	950	15,0	46,5 – 70,0	510 – 270
3	ВО-25-188-12,5-02	АИР180M6	950	18,5	58,8 – 89,0	620 – 430

Manufactured in accordance with TU 4861-030-64600223-13

5000 – 88500 m³/hour

Smoke ventilation fans are mounted in general ventilation systems. There are four standard sizes of a fan: 063; 080; 100; 125. These fans are distinguished by the capability to install impeller blades at different angles. As a result, fan with fixed diameter of impeller provides selection of operation modes.

Automatic Control System see p.182.

Fans are denoted as follows:

BO – 30 – 160 – 6,3 – B – 00 – У2

- BO – Fan type (Axial fan).
- 30 – Aerodynamic configuration index;
- 160 – Impeller diameter in decimeters;
- 6,3 – Design variant:
  without alphabetic notation – general purpose;
  B – explosion-proof;
- 00 – Fan design number;
- У2 – Climatic version;

Fans are used for operation in temperate (У), tropical (Т), or boreal (УХЛ) climate conditions of 2nd category of location according to GOST 15150. 1st category of location is allowed to provide fan protection against direct sunlight and weather (see pp.169-170).

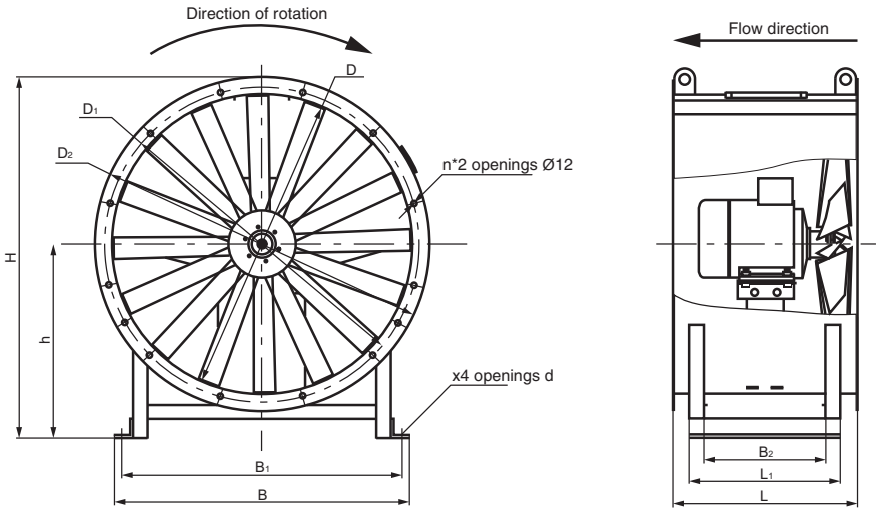


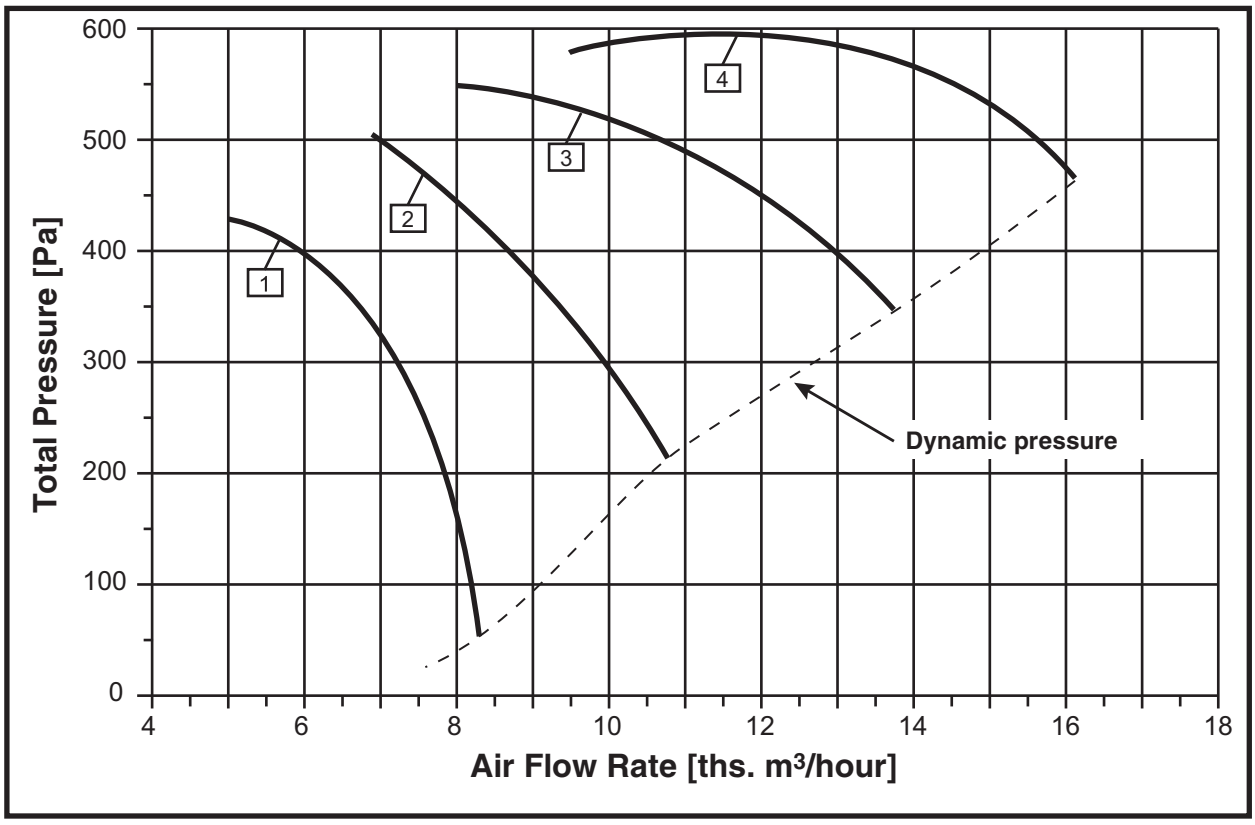
Fig. 1: Overall and connection dimensions of BO-30-160 (VO-30-160) fans

Fan Type	Dimensions [mm]											n	Weight [kg]
	D	D_1	D_2	d	B	B_1	B_2	L	L_1	H	h		
BO-30-160-6,3-00	640	690	730	14	600	440	540	710	590	865	500	12	97
BO-30-160-6,3-01	640	690	730	14	600	440	540	710	590	865	500	12	107
BO-30-160-6,3-02	640	690	730	14	600	440	540	710	590	865	500	12	100
BO-30-160-6,3-03	640	690	730	14	600	440	540	710	590	865	500	12	117
BO-30-160-8-00	810	860	900	18	760	610	730	930	780	1005	555	16	224
BO-30-160-8-01	810	860	900	18	760	610	730	930	780	1005	555	16	214
BO-30-160-8-02	810	860	900	18	760	610	730	930	780	1005	555	16	247
BO-30-160-8-03	810	860	900	18	760	610	730	930	780	1005	555	16	242
BO-30-160-10-00	1020	1070	1110	18	930	730	930	1115	980	1285	730	16	236
BO-30-160-10-01	1020	1070	1110	18	930	730	930	1115	980	1285	730	16	242
BO-30-160-10-02	1020	1070	1110	18	930	730	930	1115	980	1285	730	16	247
BO-30-160-10-03	1020	1070	1110	18	930	730	930	1115	980	1285	730	16	311
BO-30-160-10-04	1020	1070	1110	18	930	730	930	1115	980	1285	730	16	246
BO-30-160-10-05	1020	1070	1100	18	930	730	930	1115	980	1285	730	16	327
BO-30-160-10-06	1020	1070	1110	18	930	730	930	1115	980	1285	730	16	376
BO-30-160-12,5-00	1270	1320	1350	18	990	790	1130	1330	1200	1585	910	16	319
BO-30-160-12,5-01	1270	1320	1350	18	990	790	1130	1330	1200	1585	910	16	419
BO-30-160-12,5-02	1270	1320	1350	18	990	790	1130	1330	1200	1585	910	16	488
BO-30-160-12,5-03	1270	1320	1350	18	990	790	1130	1330	1200	1585	910	16	655

Note:
1) Weight is specified for reference only

CHARACTERISTICS SUMMARY DIAGRAM

5000 – 16200 m³/hour

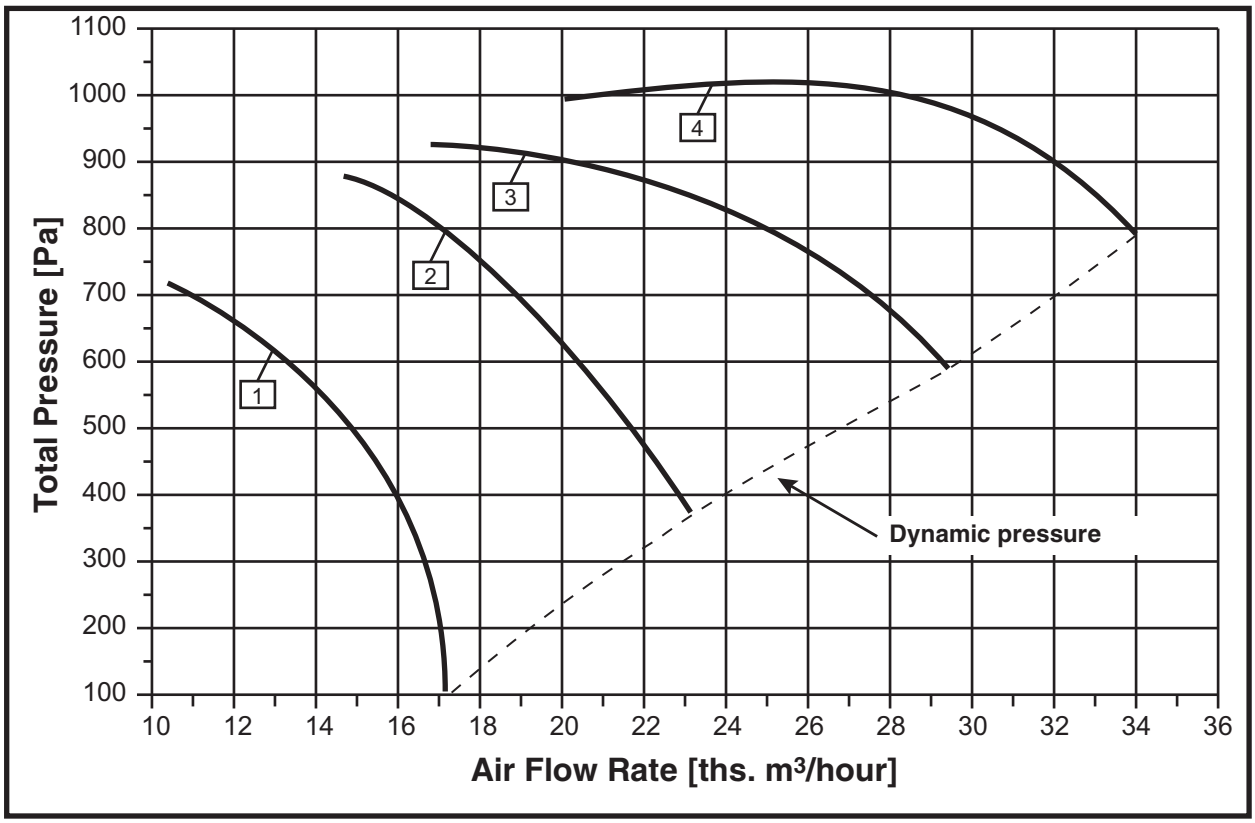


No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	ВО-30-160-6,3-00	АИР80А4	1450	1,1	5,0 – 8,3	430 – 54
2	ВО-30-160-6,3-01	АИР90L4	1450	2,2	6,9 – 10,8	505 – 215
3	ВО-30-160-6,3-02	АИР90L4	1450	2,2	8,0 – 13,8	550 – 345
4	ВО-30-160-6,3-03	АИР100S4	1450	3,0	9,5 – 16,2	580 – 465

Note:
1) Other series of electric motors are allowed.

CHARACTERISTICS SUMMARY DIAGRAM

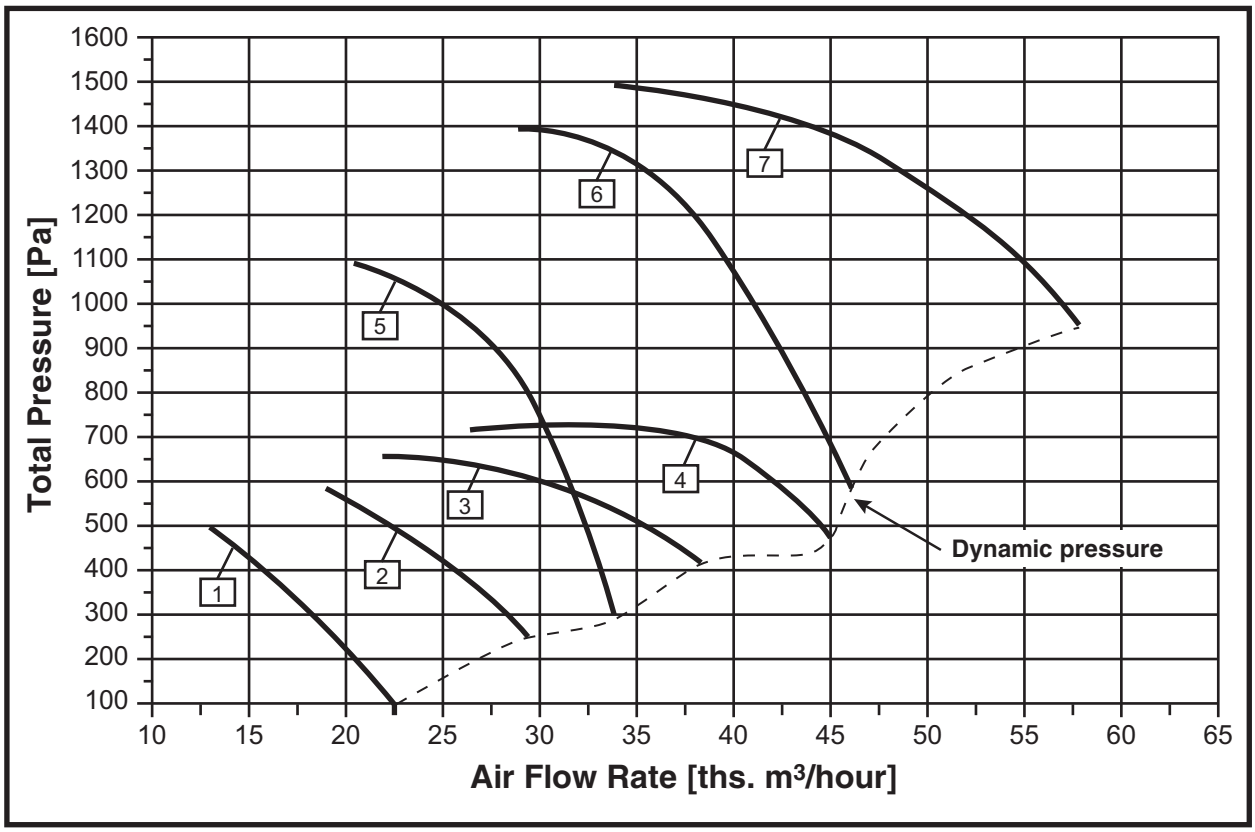
10400 – 34000 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	BO-30-160-8-00	АИР100L4	1450	4,0	10,4 – 17,2	720 – 100
2	BO-30-160-8-01	АИР112M4	1450	5,5	14,7 – 23,2	880 – 375
3	BO-30-160-8-02	АИР132M4	1450	11,0	16,8 – 29,4	930 – 590
4	BO-30-160-8-03	АИР132M4	1450	11,0	20,0 – 34,0	990 – 790

CHARACTERISTICS SUMMARY DIAGRAM

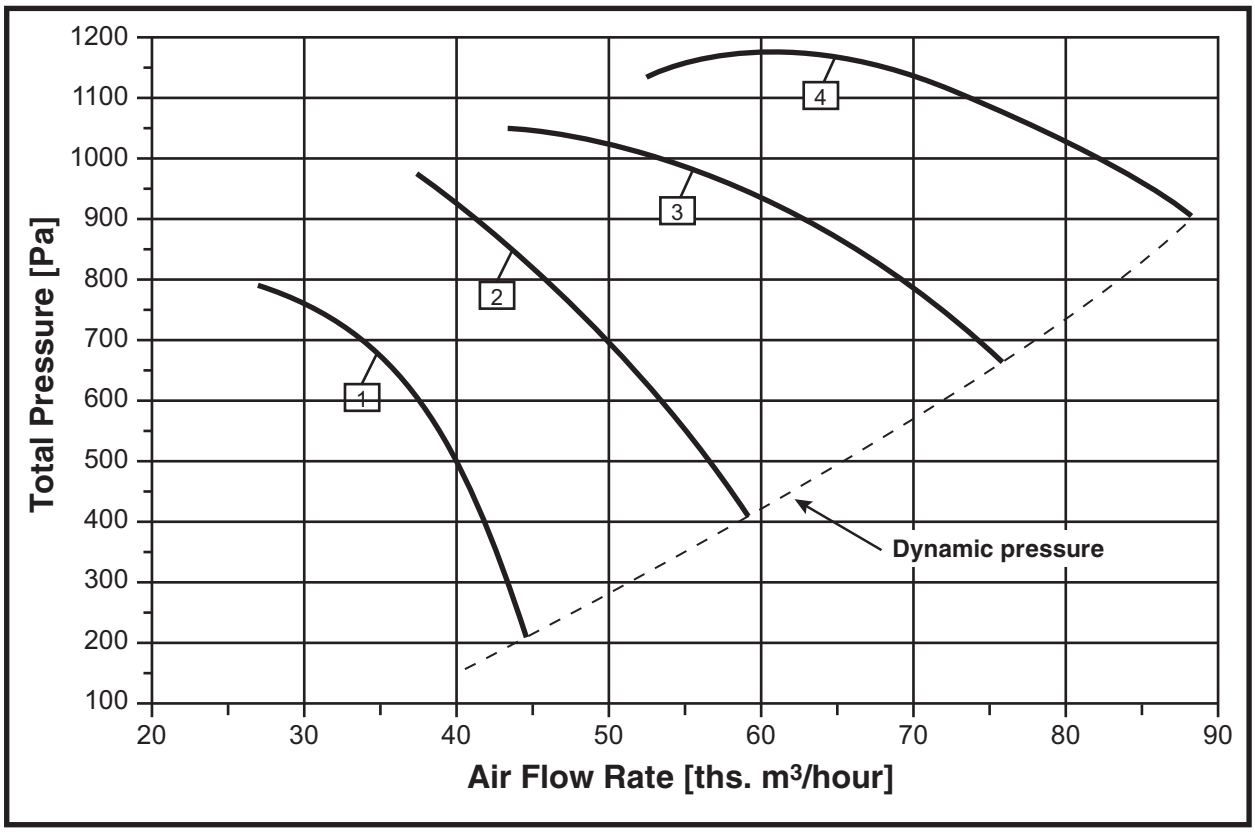
13000 – 58000 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	BO-30-160-10-00	АИР112МВ6	950	4,0	13,0 – 22,5	500 – 100
2	BO-30-160-10-01	АИР132S6	950	5,5	19,0 – 29,5	590 – 250
3	BO-30-160-10-02	АИР132МВ6	950	7,5	22,0 – 38,5	660 – 420
4	BO-30-160-10-03	АИР160S6	950	11,0	26,5 – 45,0	720 – 570
5	BO-30-160-10-04	АИР132М4	1450	11,0	20,5 – 34,0	1100 – 295
6	BO-30-160-10-05	АИР160М4	1450	18,5	29,0 – 46,0	1400 – 590
7	BO-30-160-10-06	АИР180М4	1450	30,0	34,0 – 58,0	1500 – 950

CHARACTERISTICS SUMMARY DIAGRAM

27000 – 88500 m³/hour



No.	Fan Type	Motor			Working area parameters	
		Type	Rotation speed [rpm]	Installed power [kW]	Capacity [ths. m³/hour]	Total Pressure [Pa]
1	BO-30-160-12,5-00	АИР160S6	950	11,0	27,0 – 44,5	790 – 213
2	BO-30-160-12,5-01*	АИР160M6	950	15,0	37,5 – 59,0	975 – 415
3	BO-30-160-12,5-02*	АИР200M6	950	22,0	43,5-76,0	1050-660
4	BO-30-160-12,5-03	АИР225M6	950	37,0	52,5-88,5	1130-900