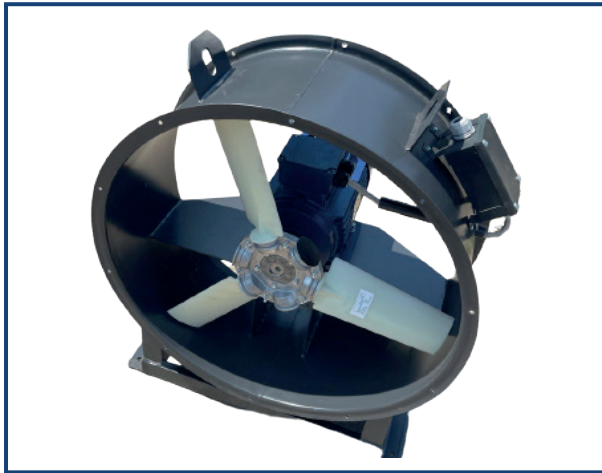


Axial air pressure fans **VO** are intended for use in smoke ventilation systems to supply outside air to stairwells and elevator areas, creating excess pressure and preventing smoke from entering these areas. for outside air supply.



Technical characteristics of the axial fan of the energy-efficient VO:

- air performance from 2,000 m³/h up to 100,000 m³/hour;
- total pressure from 100 Pa to 1,400 Pa;
- used as air pressure fans in smoke extraction systems;
- one-way air supply;
- number of blades – from 3 to 12;
- low and medium pressure;
- one-piece molded plastic/aluminum blades with adjustable tilt angle;
- air flow from the blades to the electric motor;
- horizontal and vertical execution.

Order example

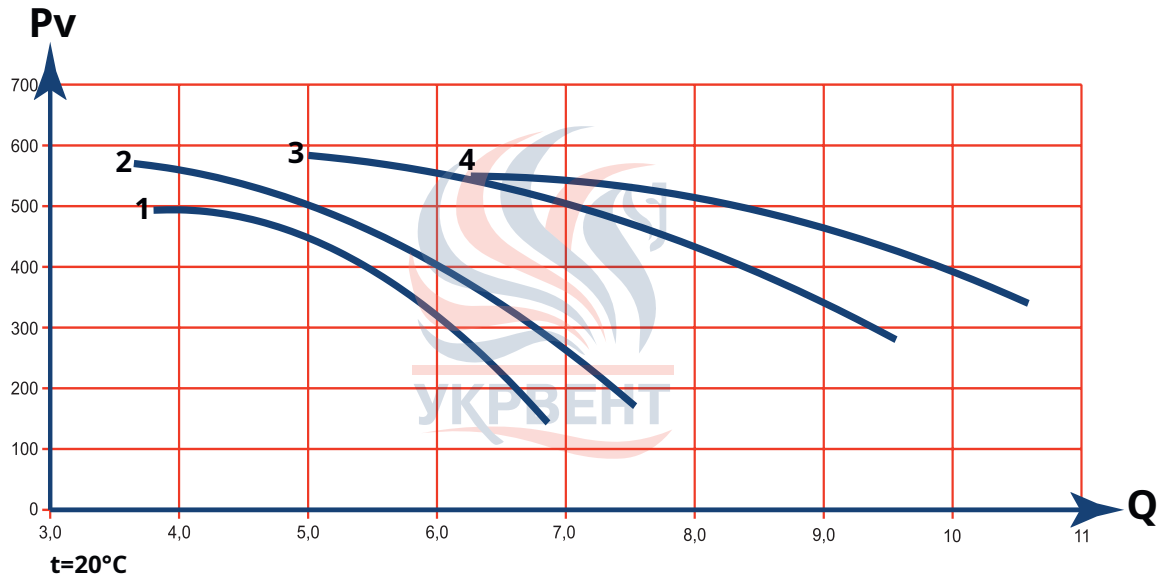
Energy-efficient axial fan for air support, 500mm diameter, with mounting supports, 4kW electric motor and 3000 rpm, general industrial version.

VO - 5 - 01 - O - 4/3000

Fan type: VO			
Fan number: 4; 4.5; 5; 5.6; 6.3; 7.1; 8; 9; 10; 11.2; 12.5;			
Implementation: 00 - without mounting supports; 01 - with mounting supports; 02 - roof, complete with mounting cup, check valve and umbrella;			
Appointment: O - general industrial; VZI - explosion-proof; K - corrosion-resistant (specify the brand of stainless steel);			
Electric motor parameters, Ny/n: Ny - power, kW; n - synchronous speed, rpm (750; 1000; 1500; 3000);			

WARNING!

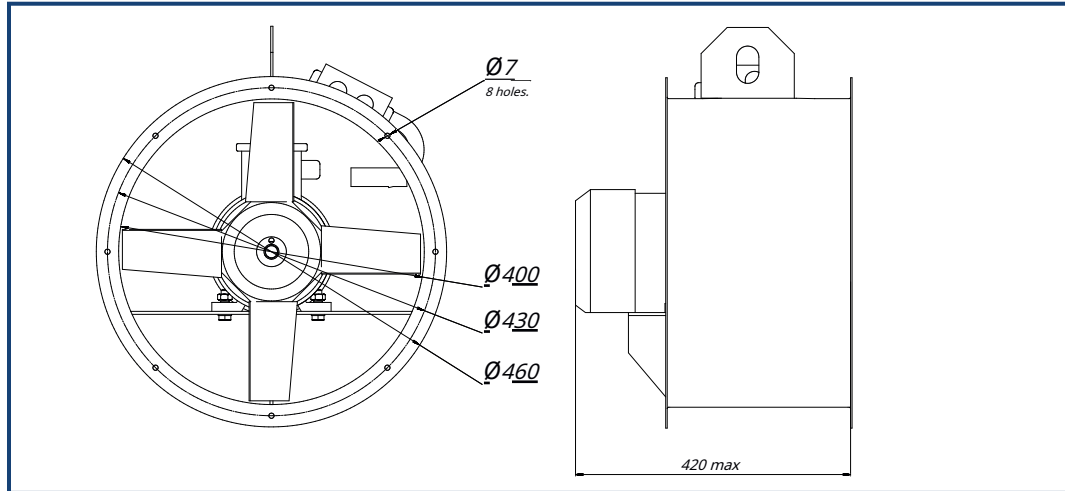
The fans are equipped with a three-phase electric motor as standard, in case
If necessary, it is possible to install a single-phase electric motor.

VO-4
Aerodynamic characteristics


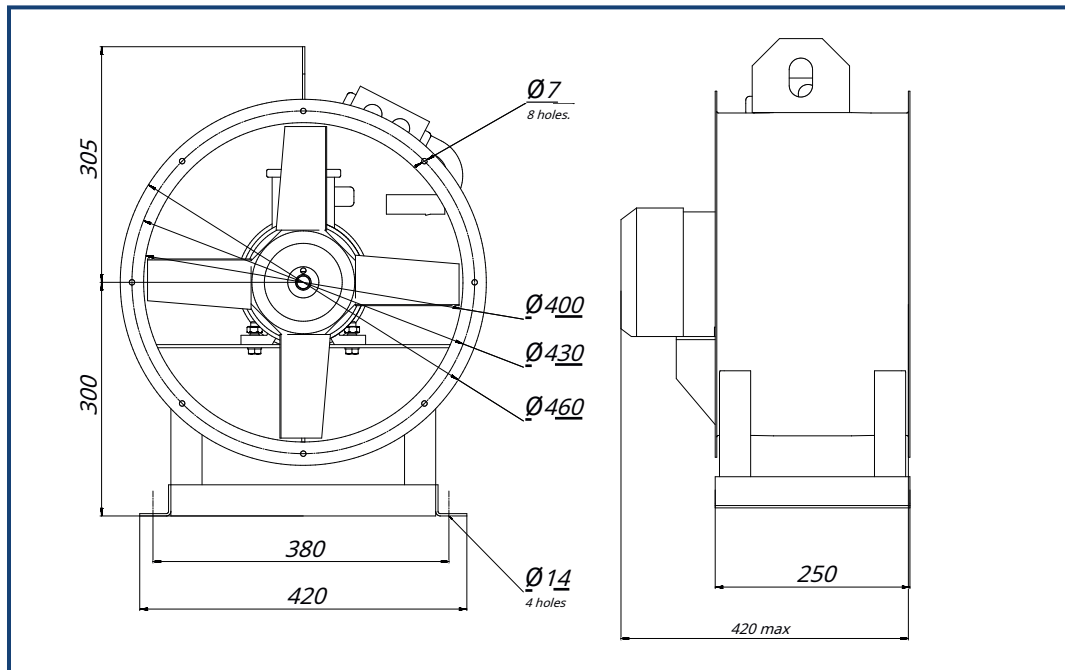
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	1.1	2760	2.65	33.4	57.4
2	1.5	2790	3.48	36.5	60.5
3	2.2	2810	4.97	40.5	64.5
4	3	2820	6.54	49.5	73.5

Overall and connection dimensions

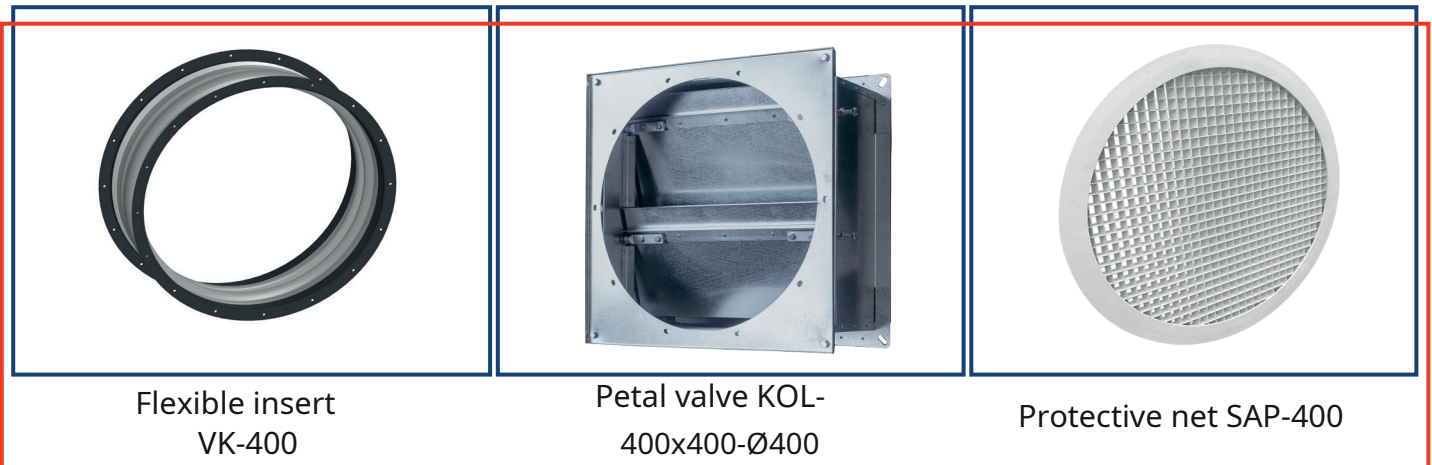
VO-4-00



VO-4-01

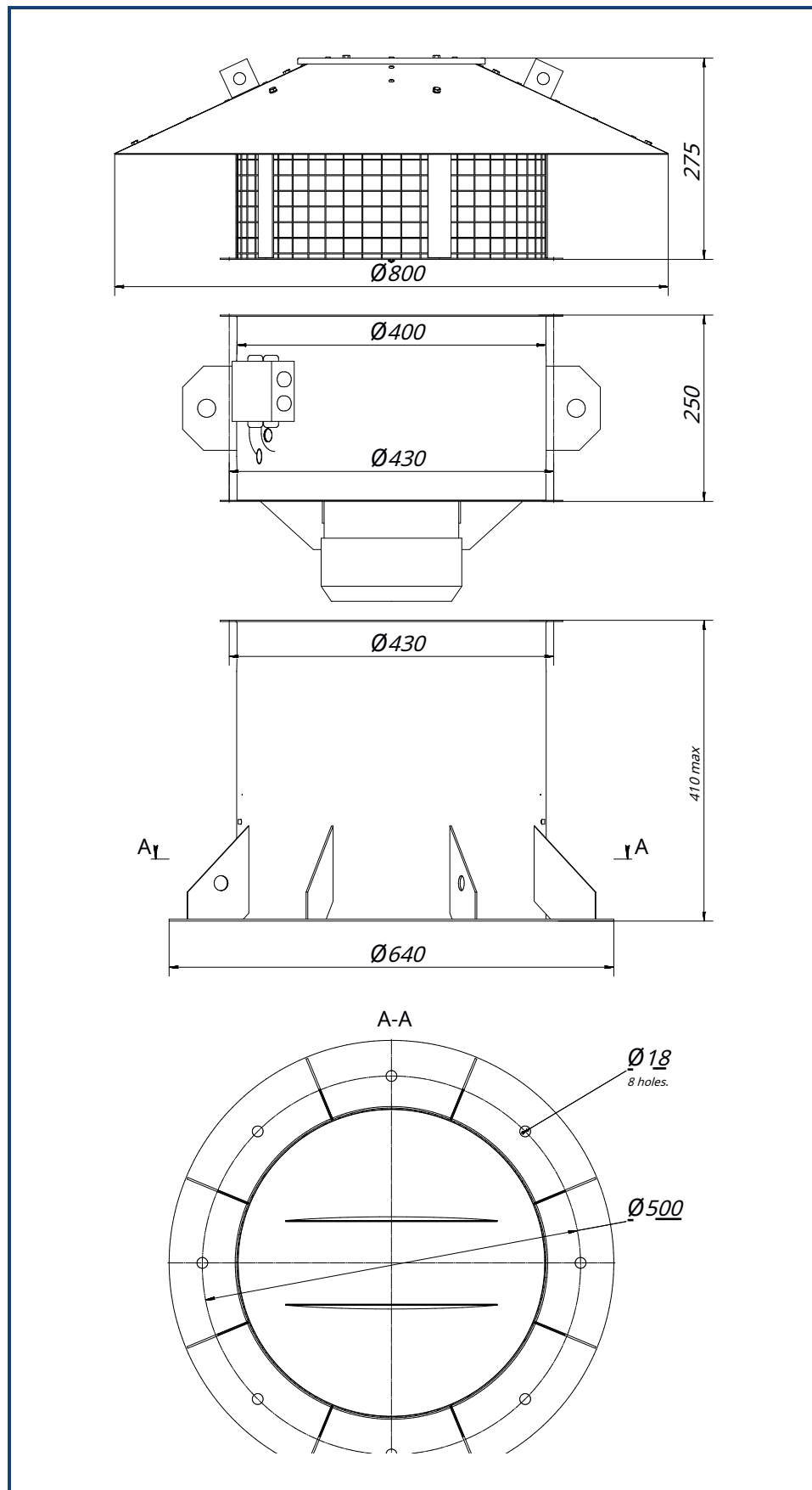


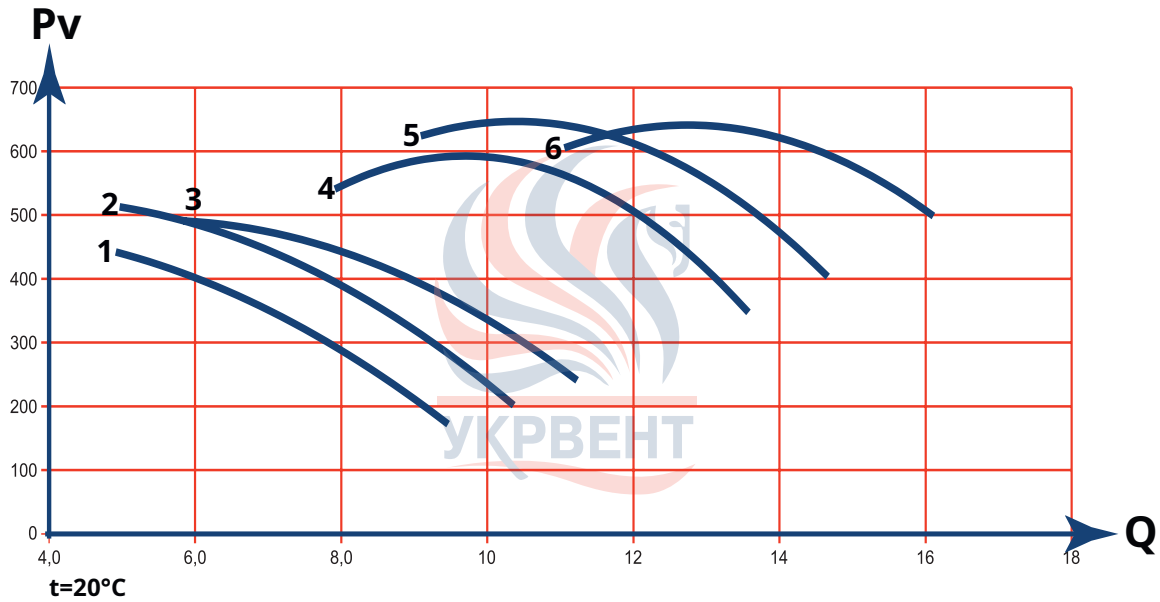
Additional equipment



Overall and connection dimensions

VO-4-02

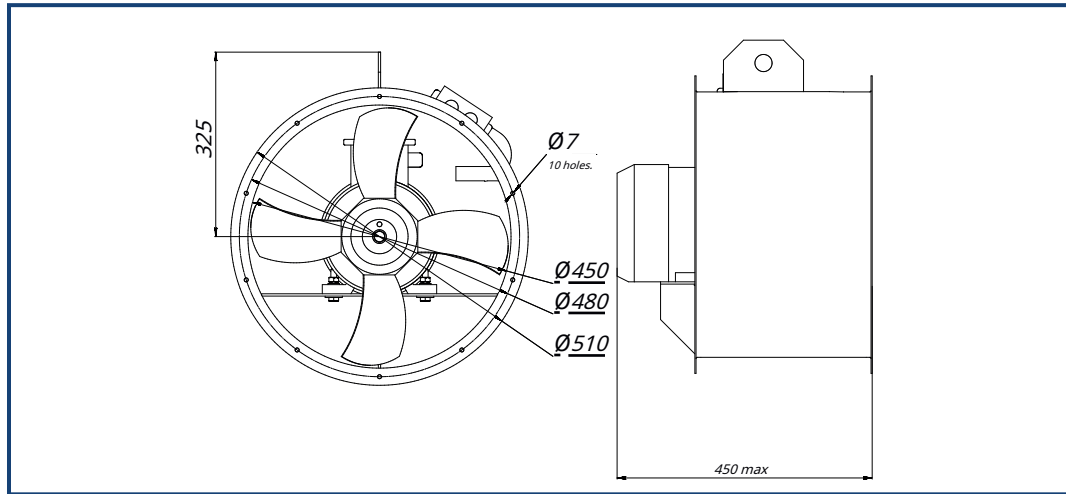


VO-4.5
Aerodynamic characteristics


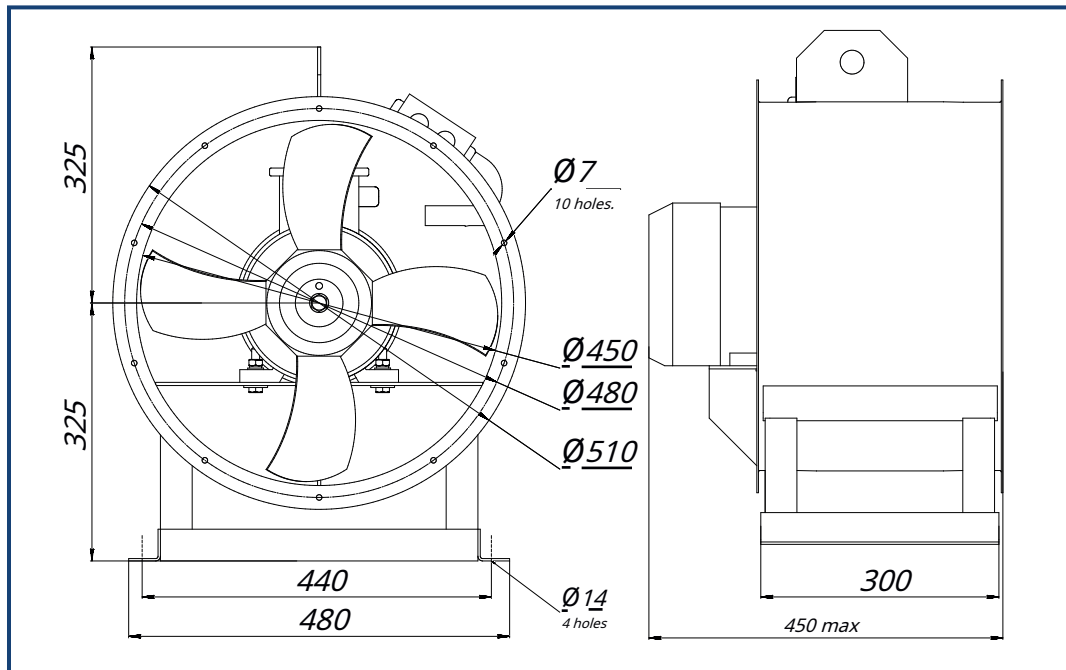
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	1.1	2760	2.65	38.4	66.4
2	1.5	2790	3.48	41.5	69.5
3	2.2	2810	4.97	45.5	73.5
4	3	2820	6.54	47	75
5	4	2840	8.41	56	84
6	5.5	2850	11.2	60	88

Overall and connection dimensions

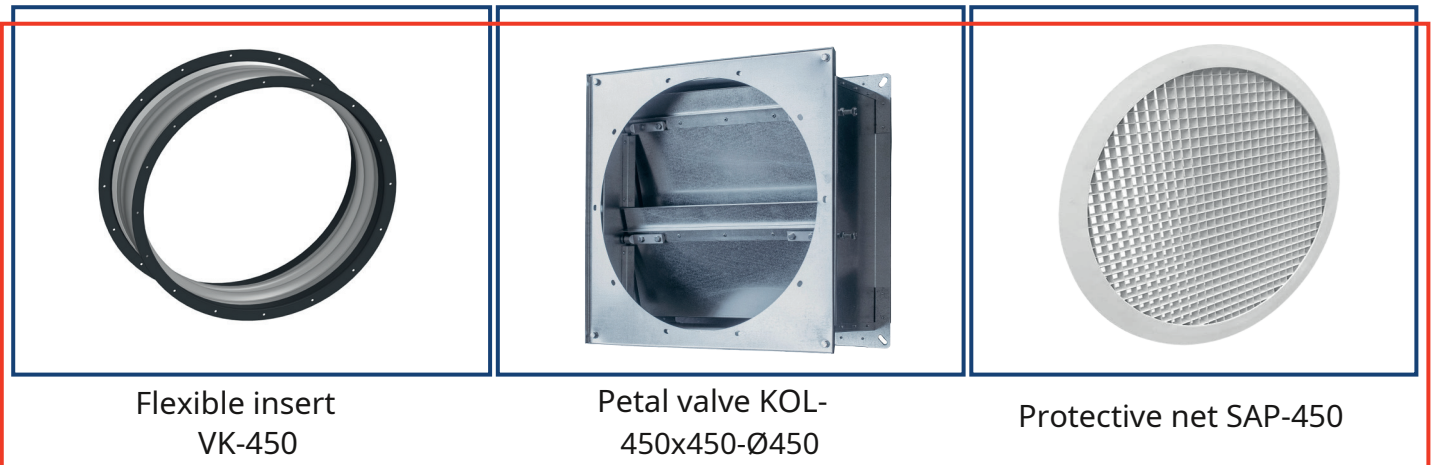
VO-4.5-00



VO-4.5-01

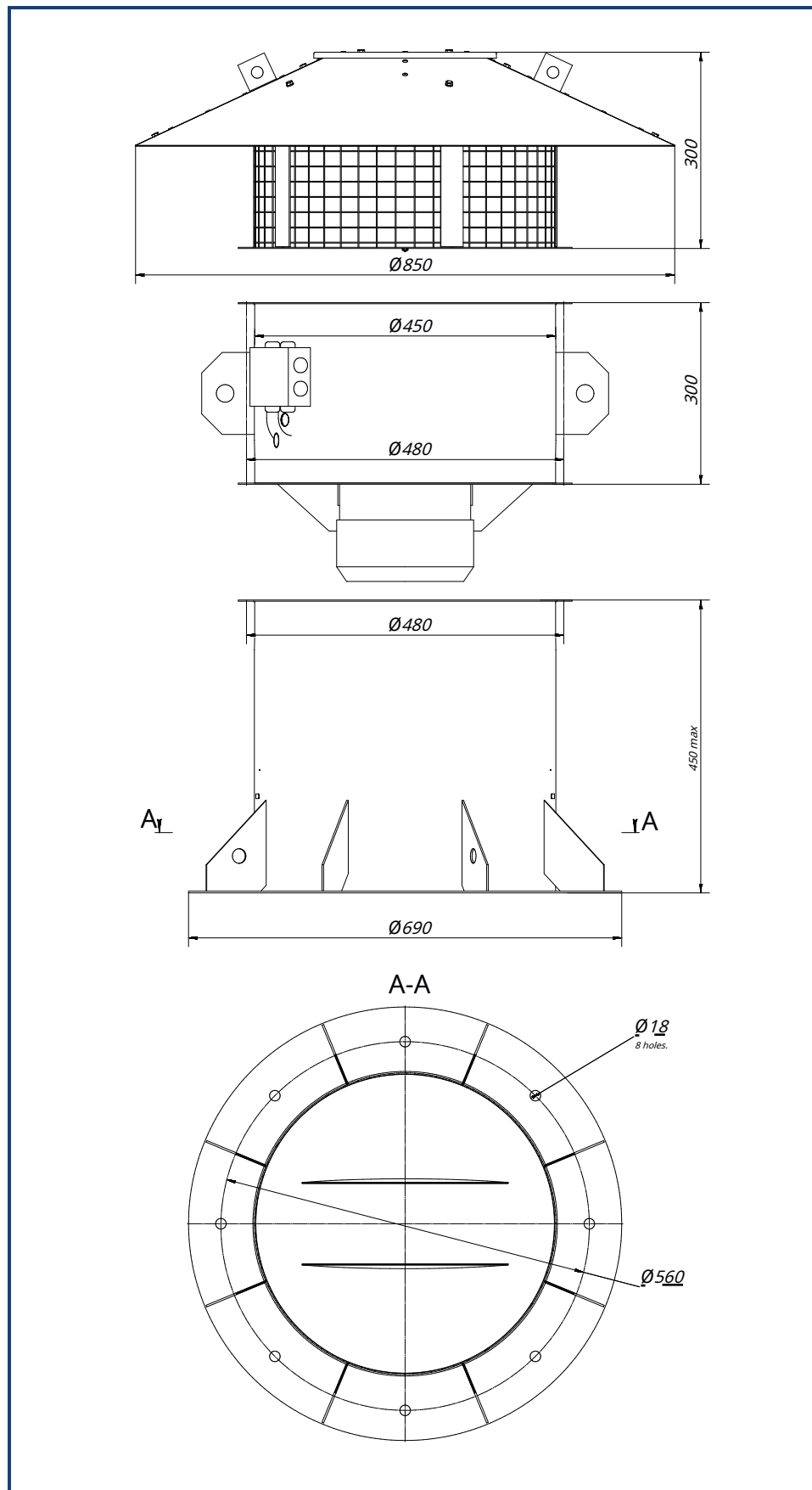


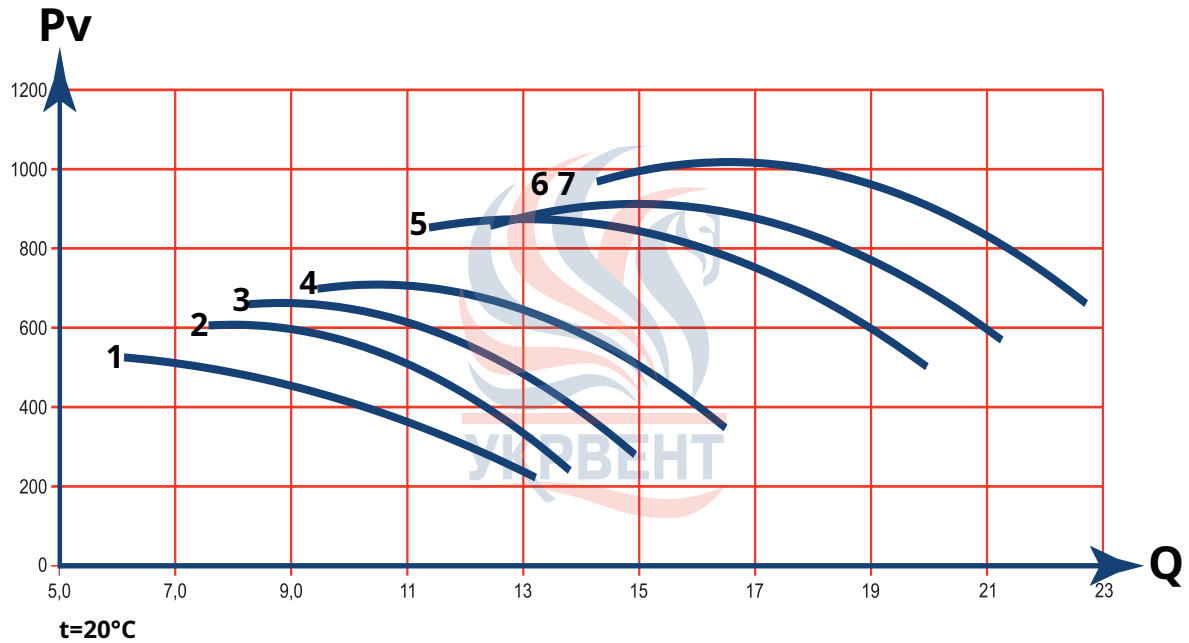
Additional equipment



Overall and connection dimensions

VO-4.5-02

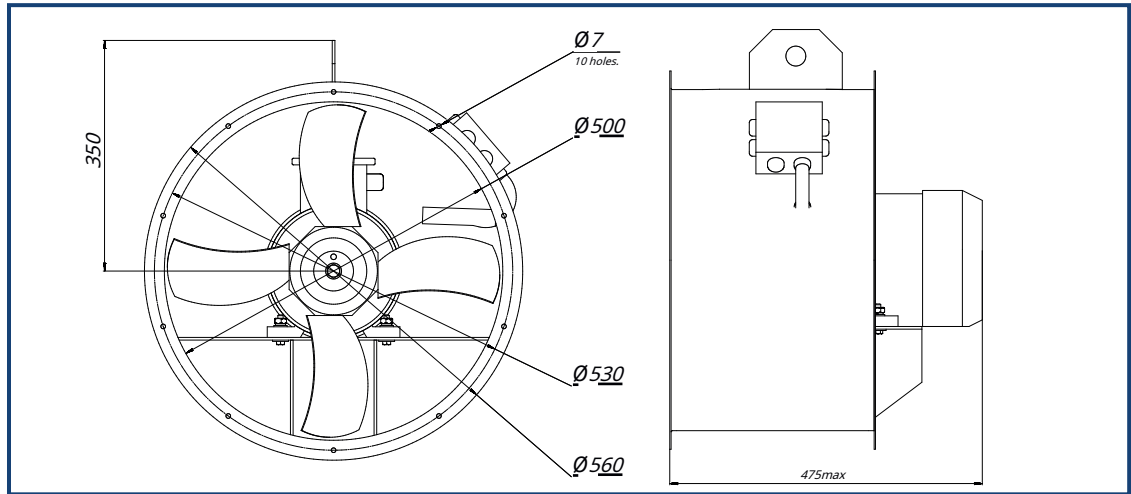


VO-5
Aerodynamic characteristics


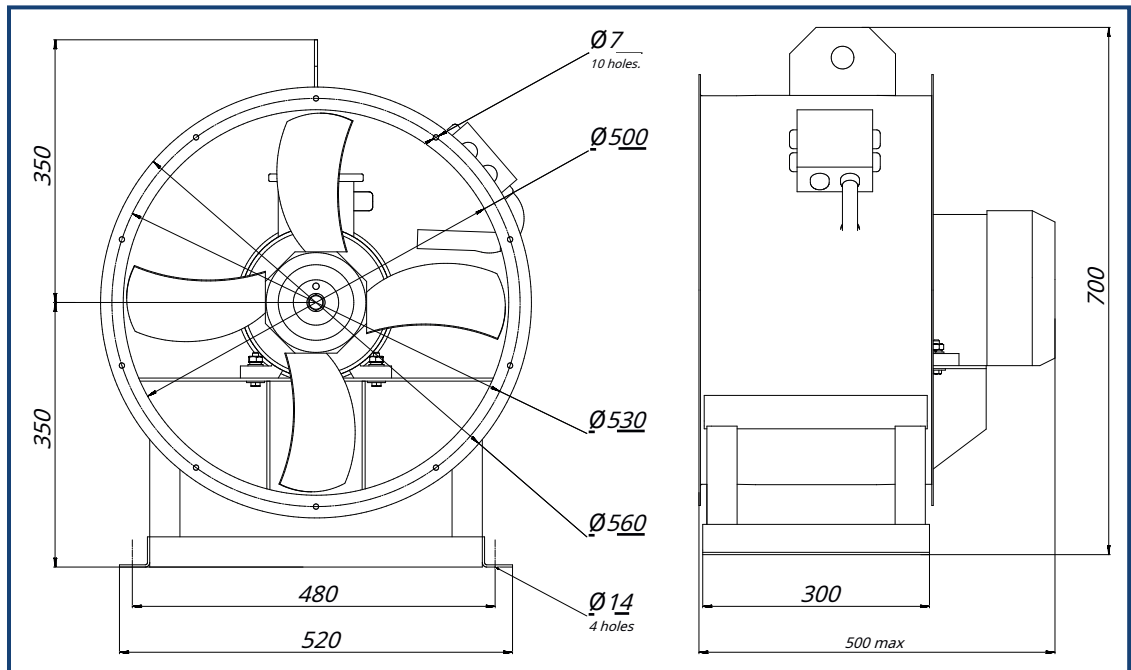
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	1.1	2760	2.65	41.4	76.4
2	1.5	2790	3.48	44.5	79.5
3	2.2	2810	4.97	48.5	83.5
4	3	2820	6.54	50	85
5	4	2840	8.41	59	94
6	5.5	2850	11.2	63	98
7	7.5	2860	15.1	72	107

Overall and connection dimensions

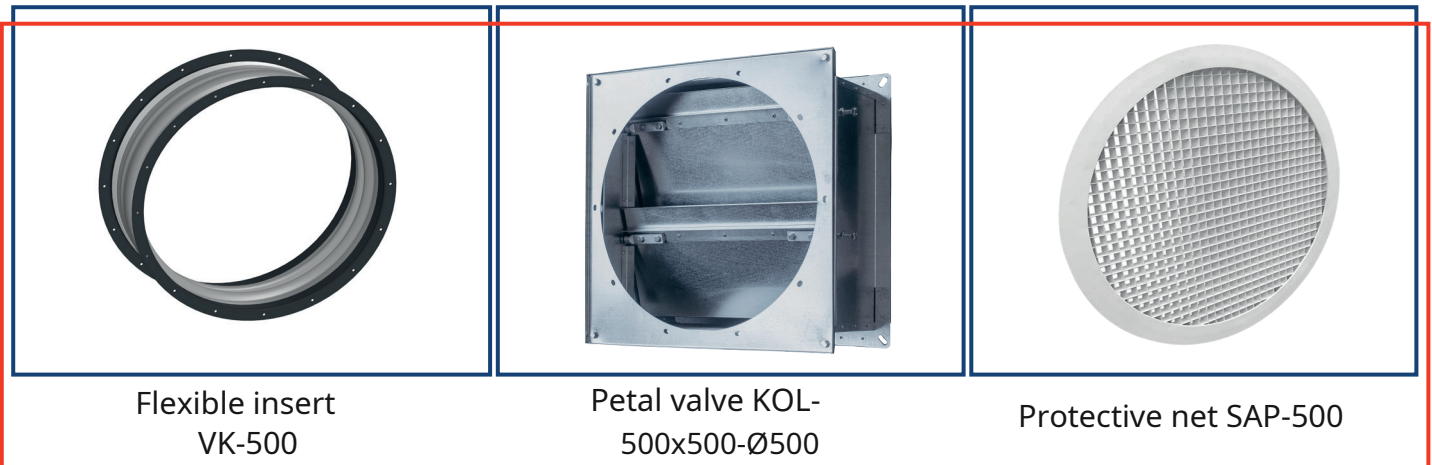
VO-5-00



VO-5-01

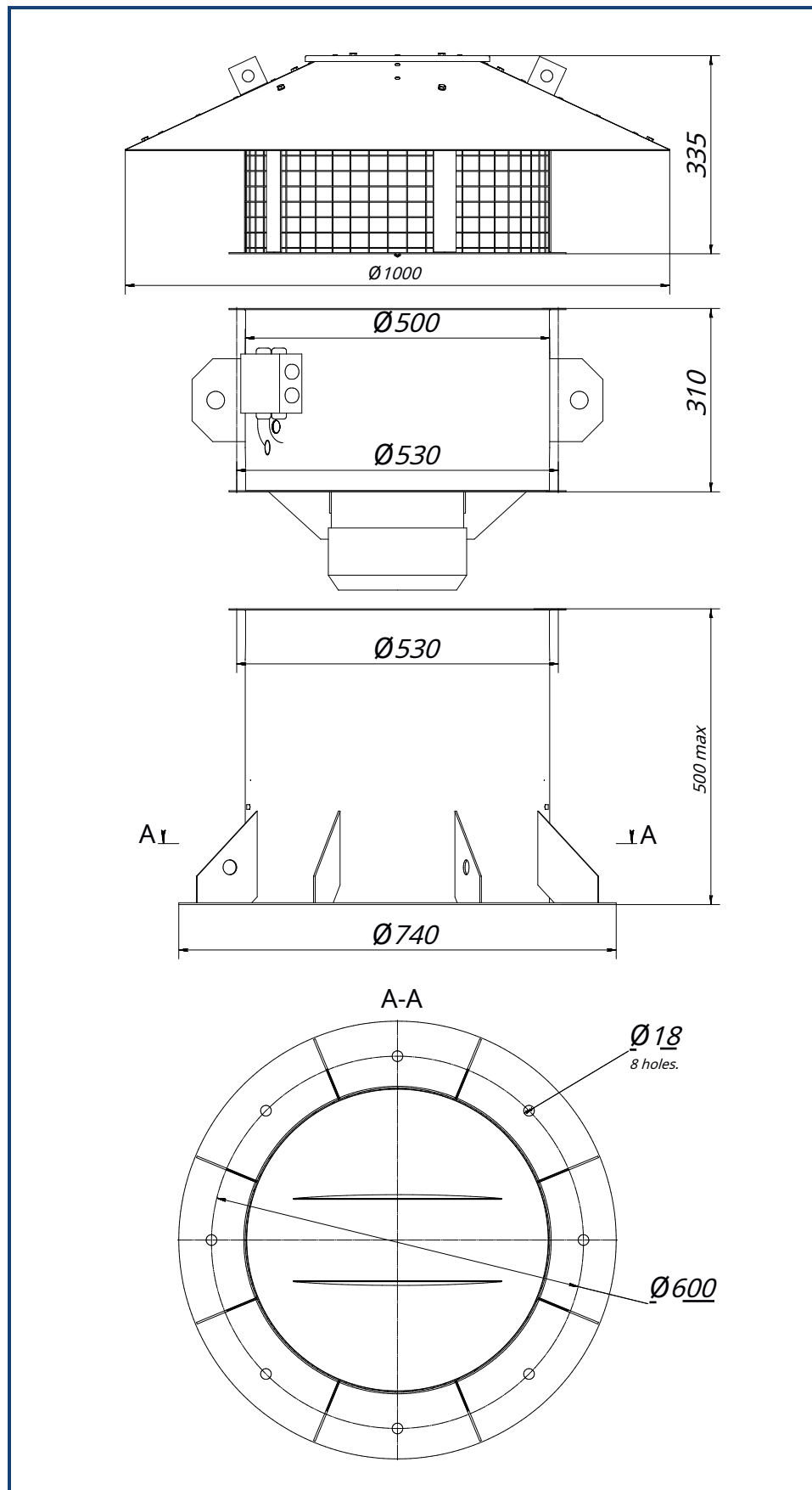


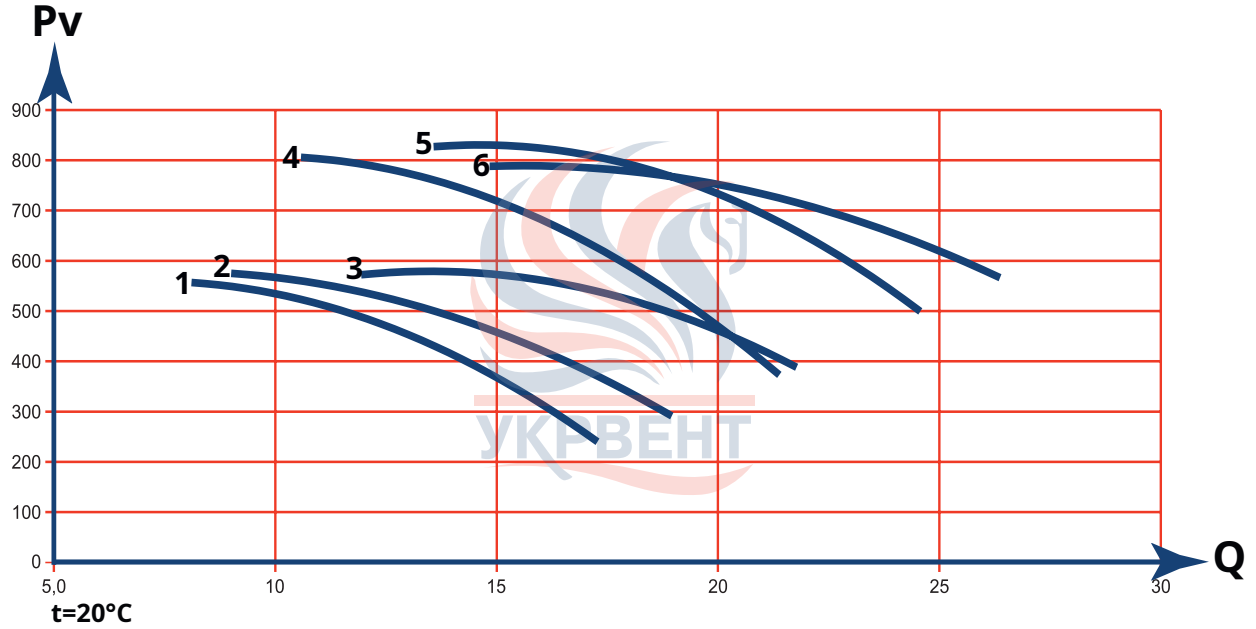
Additional equipment



Overall and connection dimensions

VO-5-02

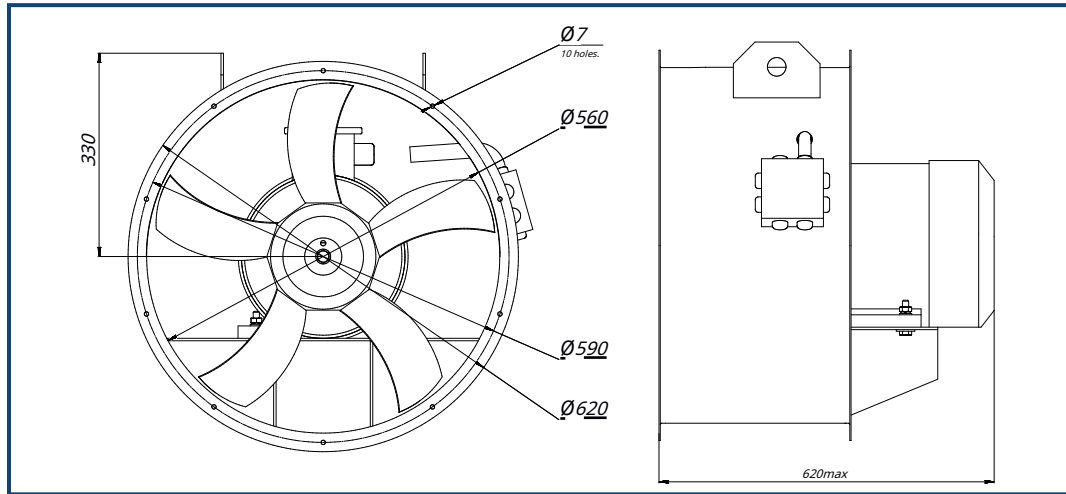


VO-5.6
Aerodynamic characteristics


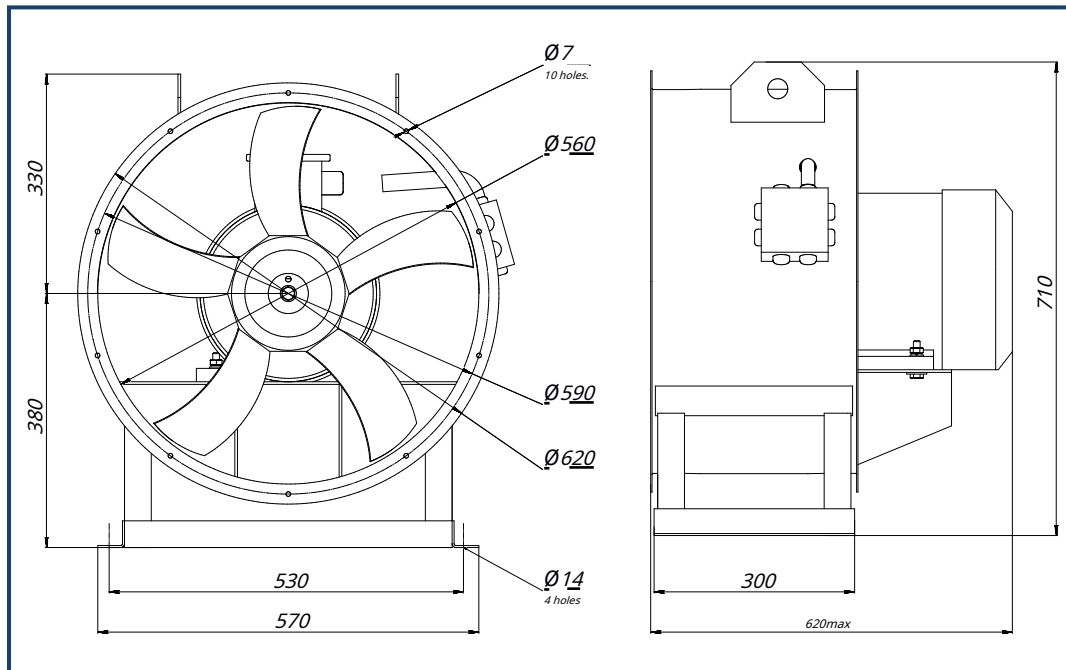
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	1.5	2790	3.48	51.5	89.5
2	2.2	2810	4.97	54.5	92.5
3	3	2820	6.54	56	94
4	4	2840	8.41	65	103
5	5.5	2850	11.2	69	107
6	7.5	2860	15.1	88	126

Overall and connection dimensions

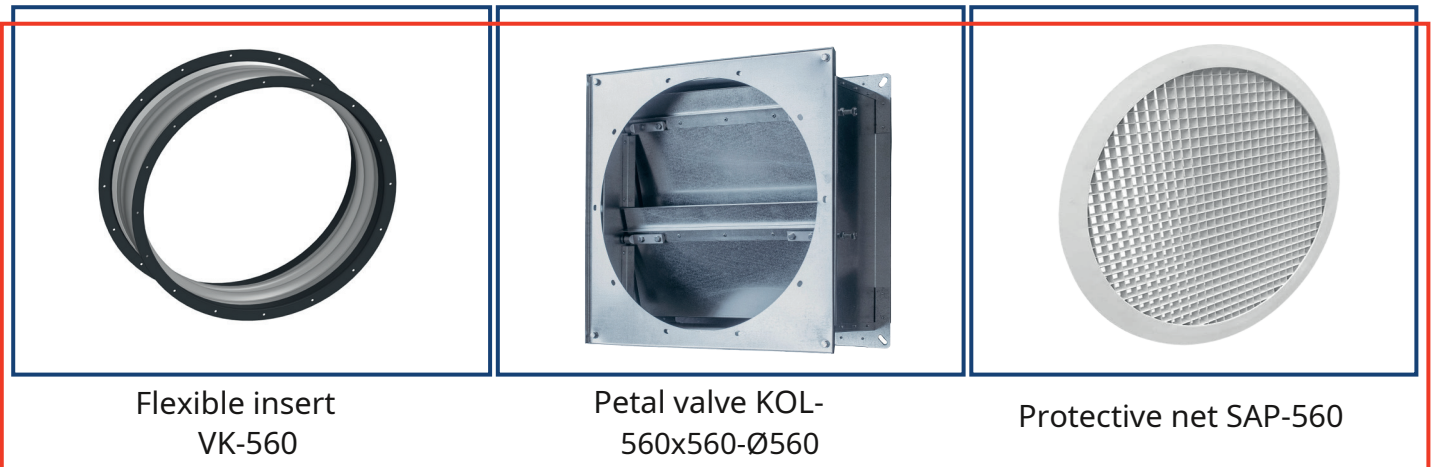
VO-5,6-00



VO-5,6-01

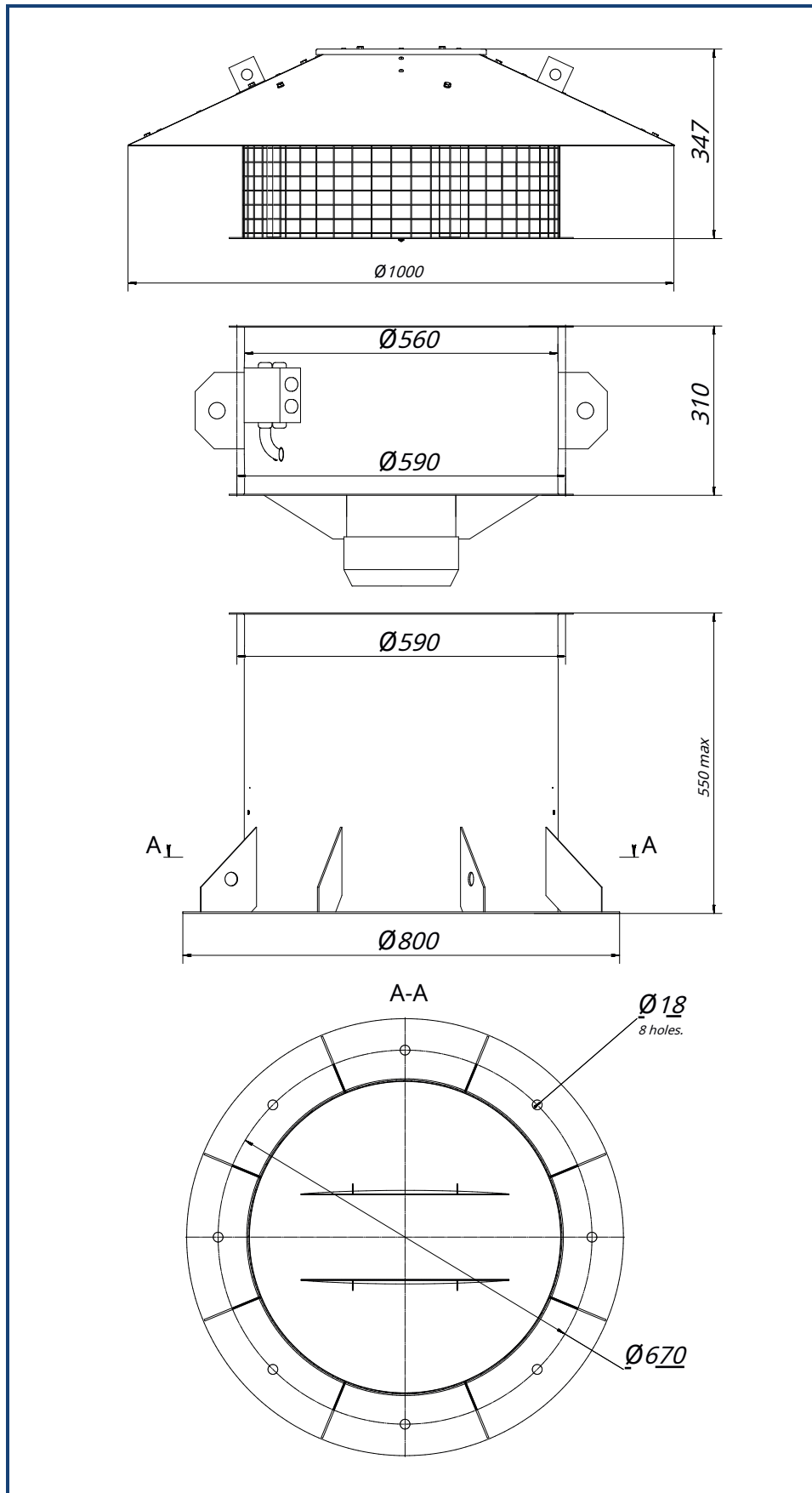


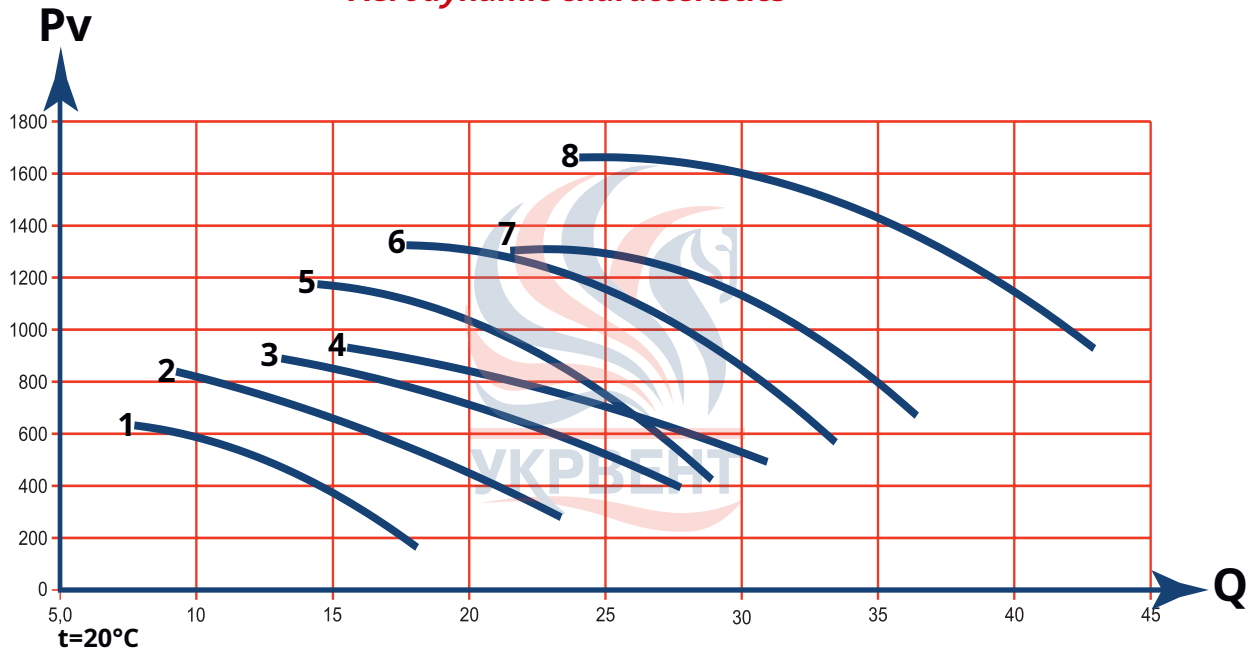
Additional equipment



Overall and connection dimensions

VO-5,6-02

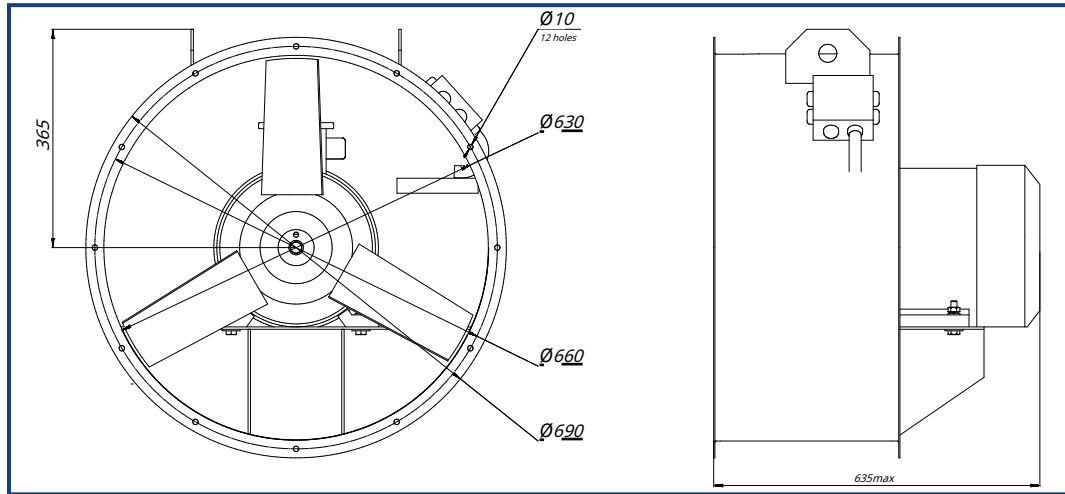


VO-6.3
Aerodynamic characteristics


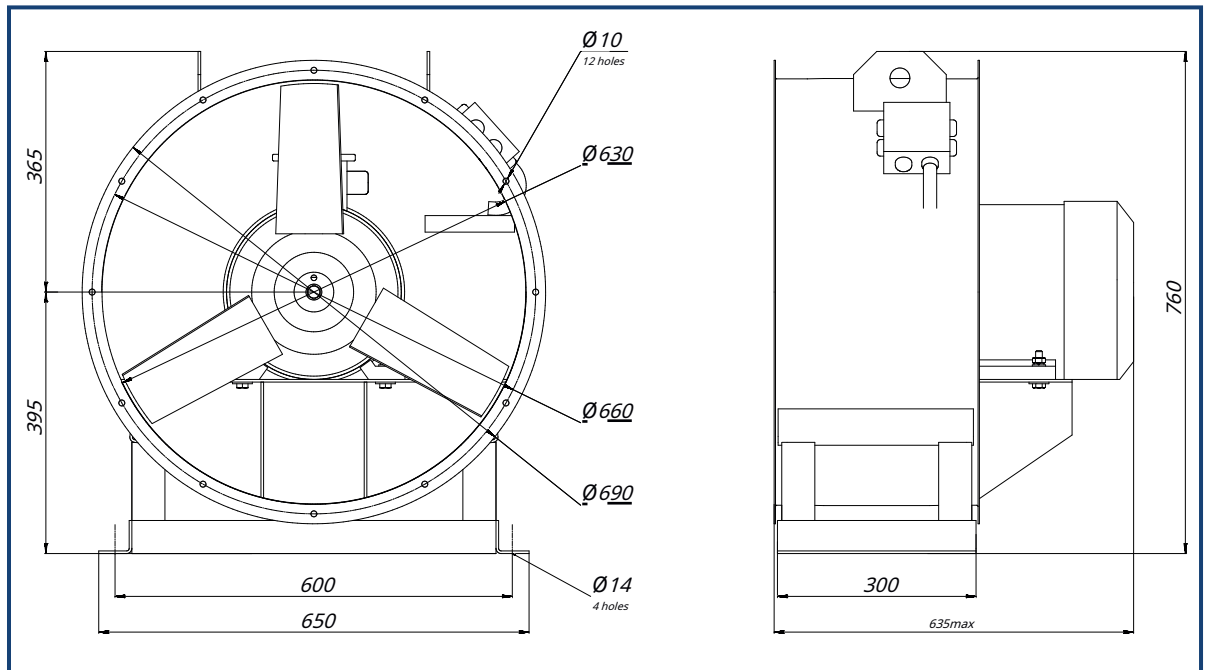
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	2.2	2810	4.97	65.5	110.5
2	3	2820	6.54	67	112
3	4	2840	8.41	76	121
4	5.5	2850	11.2	80	125
5	7.5	2860	15.1	99	144
6	11	2880	21.3	136	181
7	15	2910	28.8	166	211
8	18.5	2920	34.7	186	231

Overall and connection dimensions

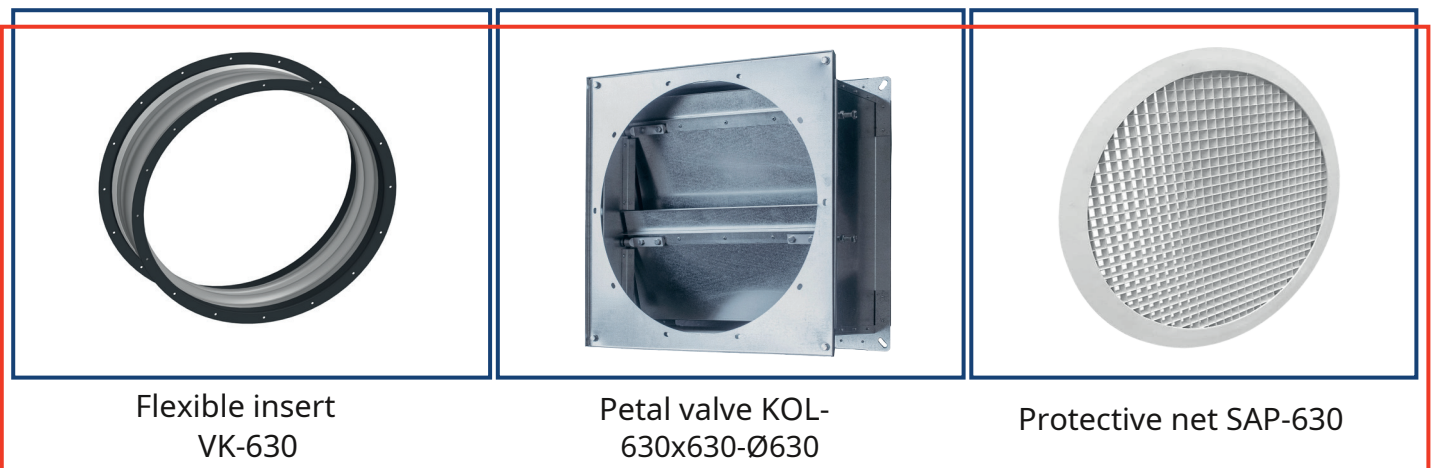
VO-6.3-00



VO-6.3-01

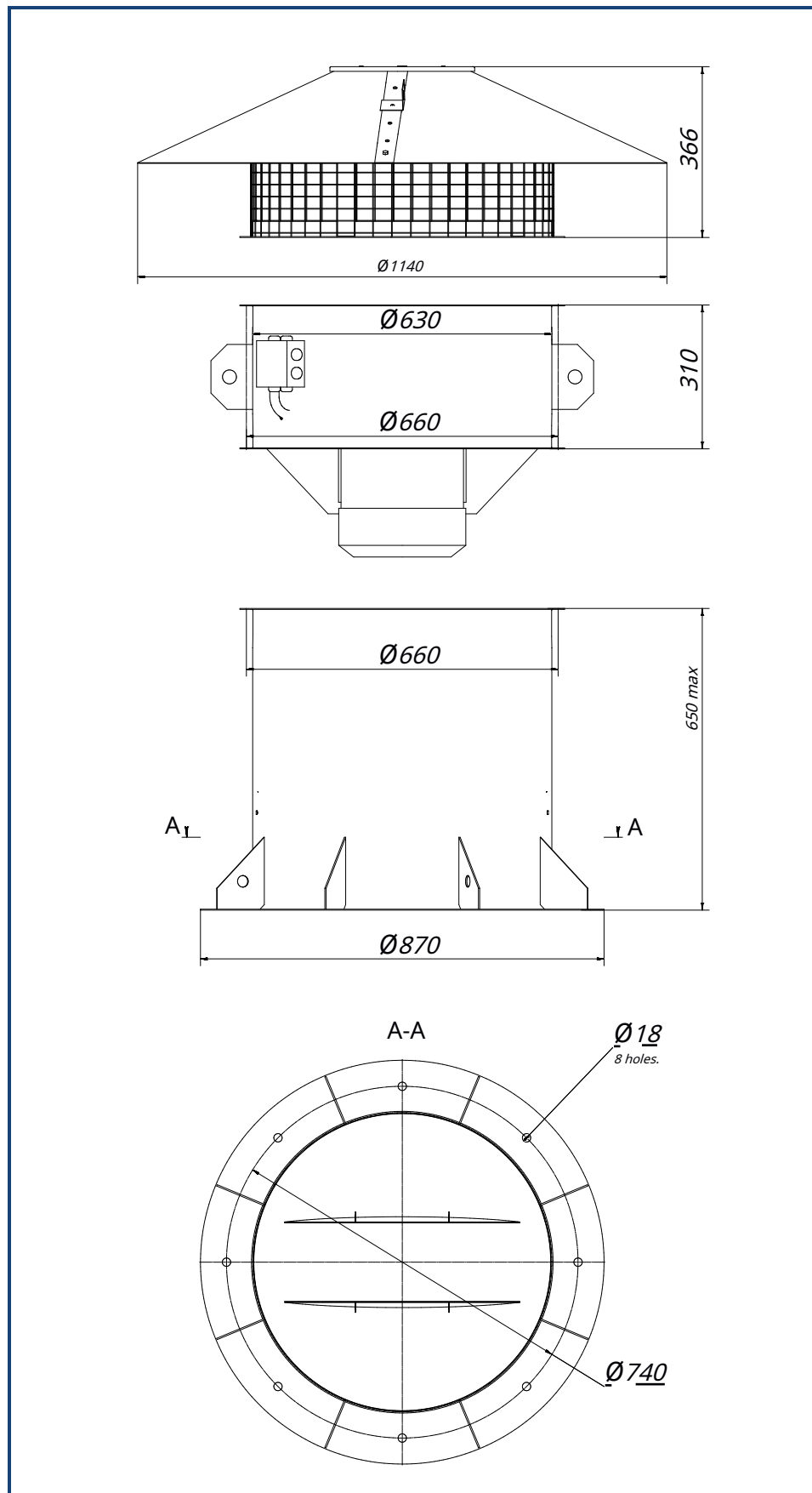


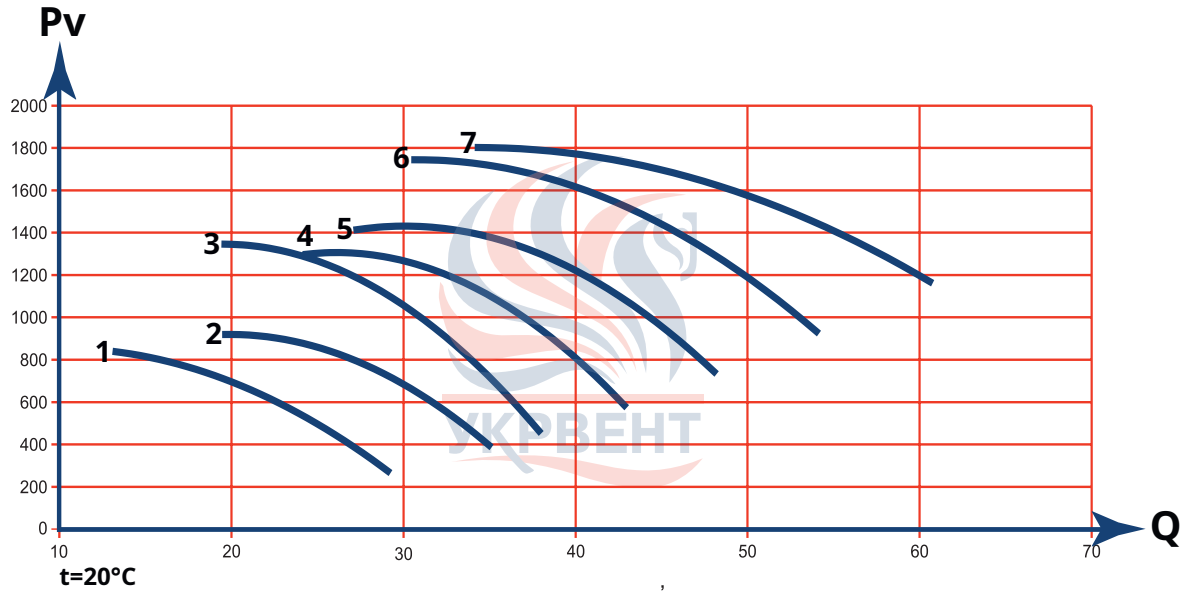
Additional equipment



Overall and connection dimensions

VO-6.3-02

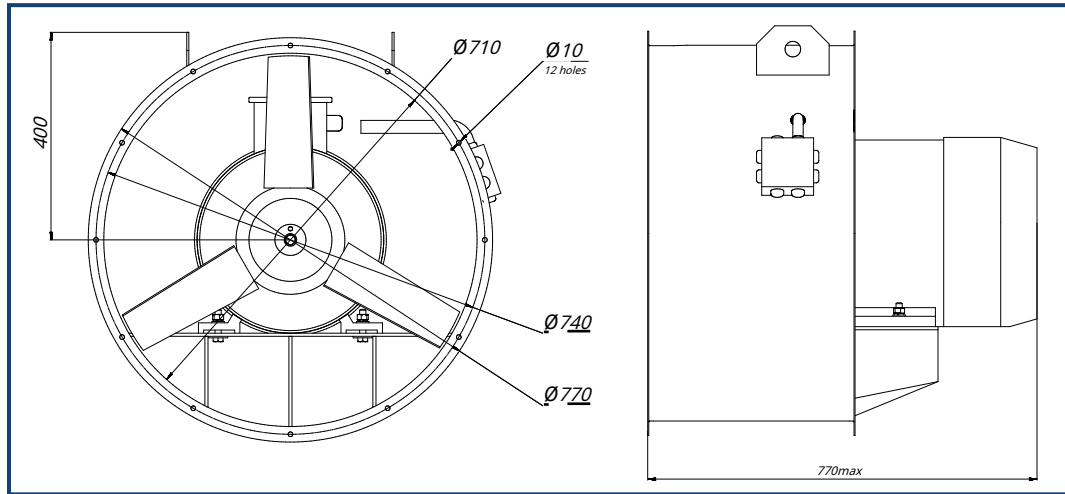


VO-7.1
Aerodynamic characteristics


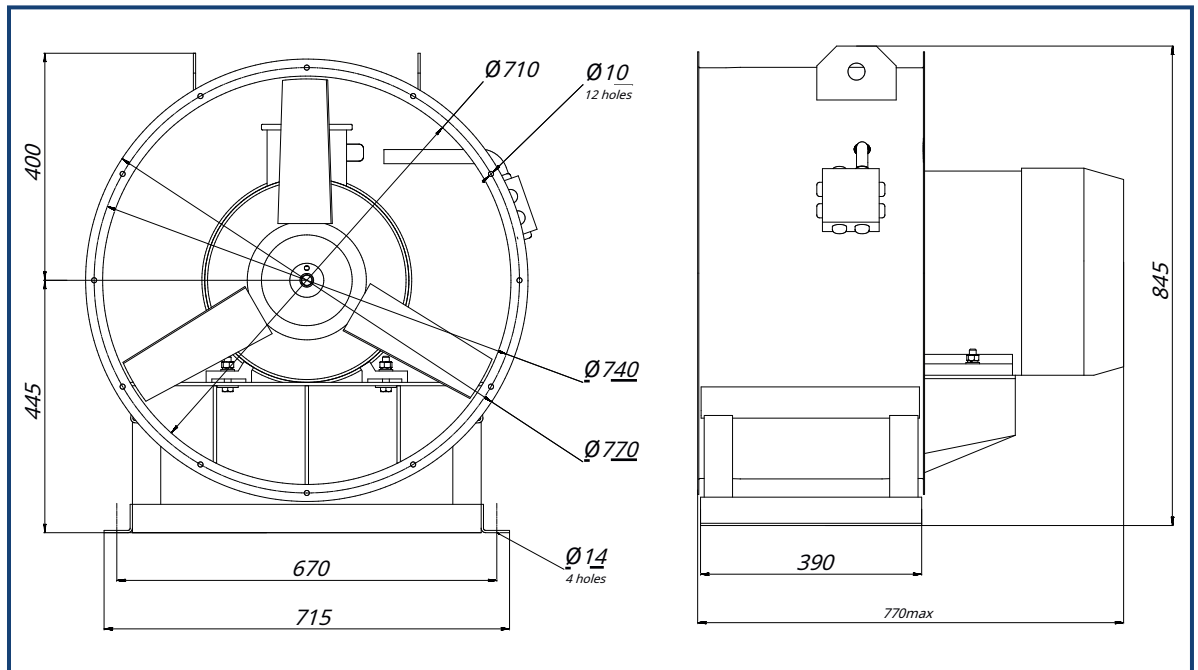
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	5.5	2850	11.2	98	158
2	7.5	2860	15.1	117	177
3	11	2880	21.3	154	214
4	15	2910	28.8	184	244
5	18.5	2920	34.7	204	264
6	22	2920	41	254	316
7	30	2920	55.4	275	335

Overall and connection dimensions

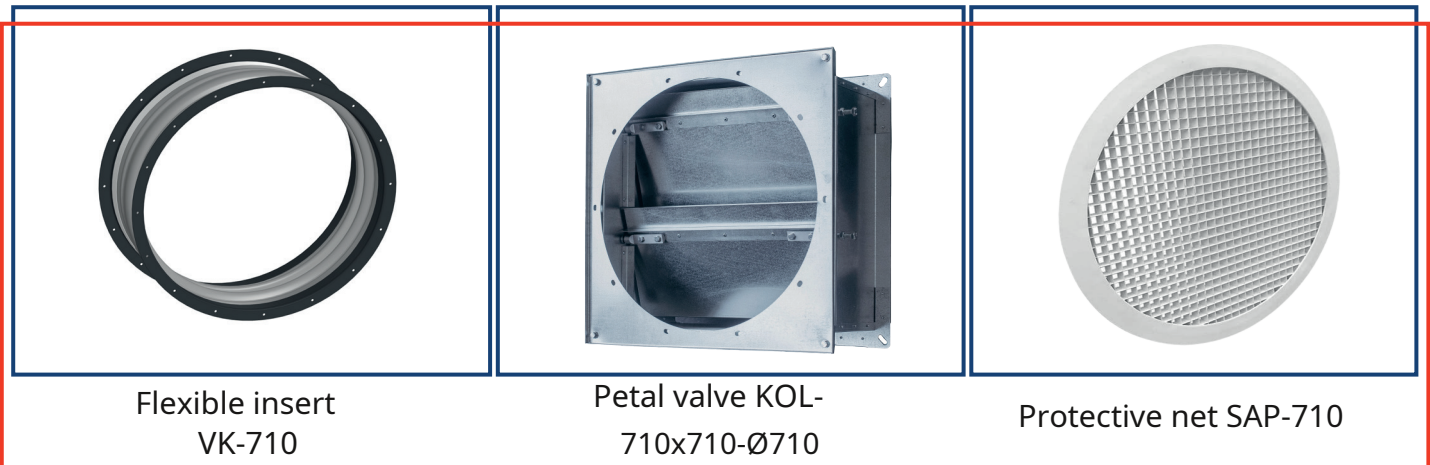
VO-7.1-00



VO-7.1-01

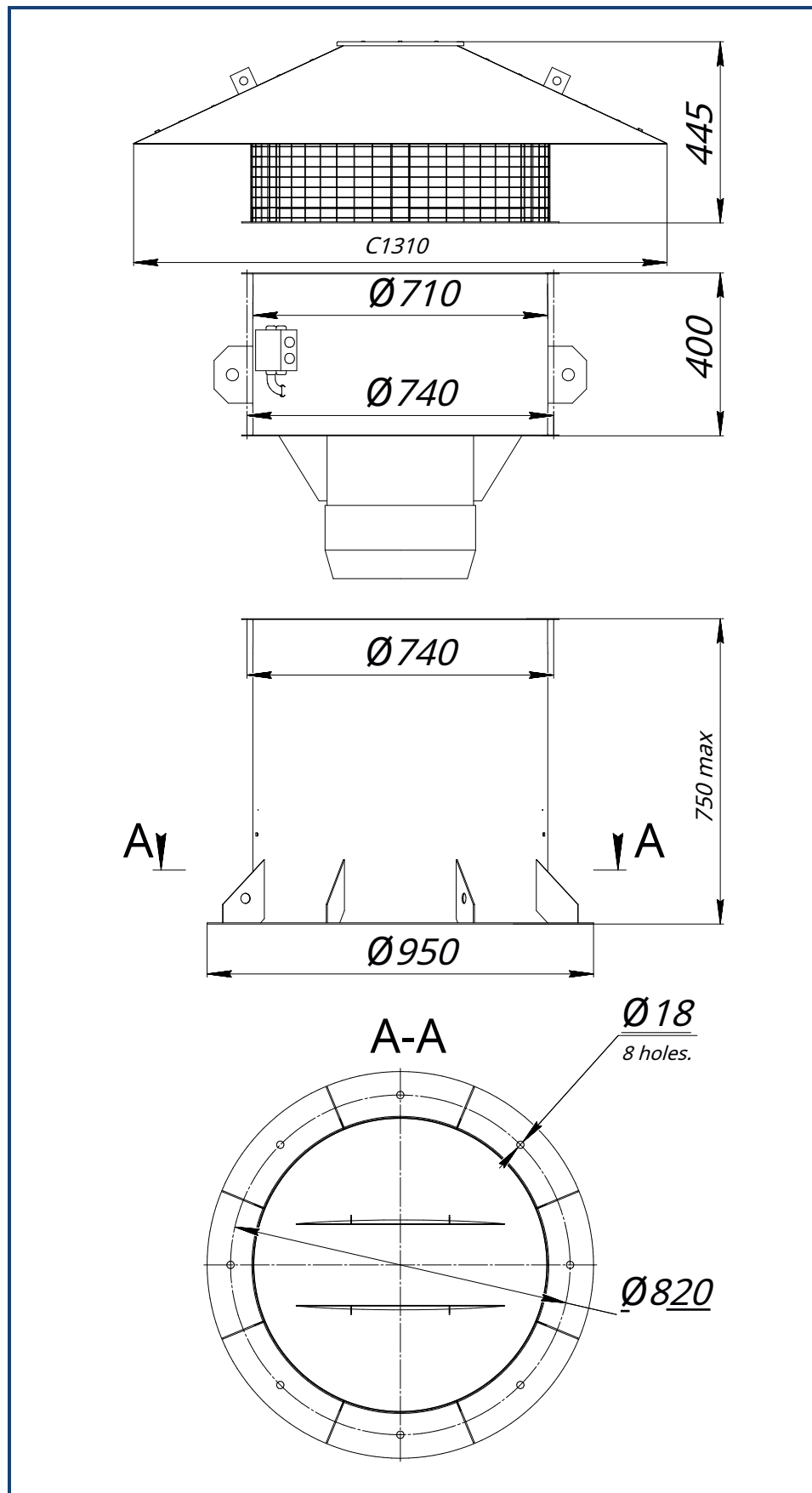


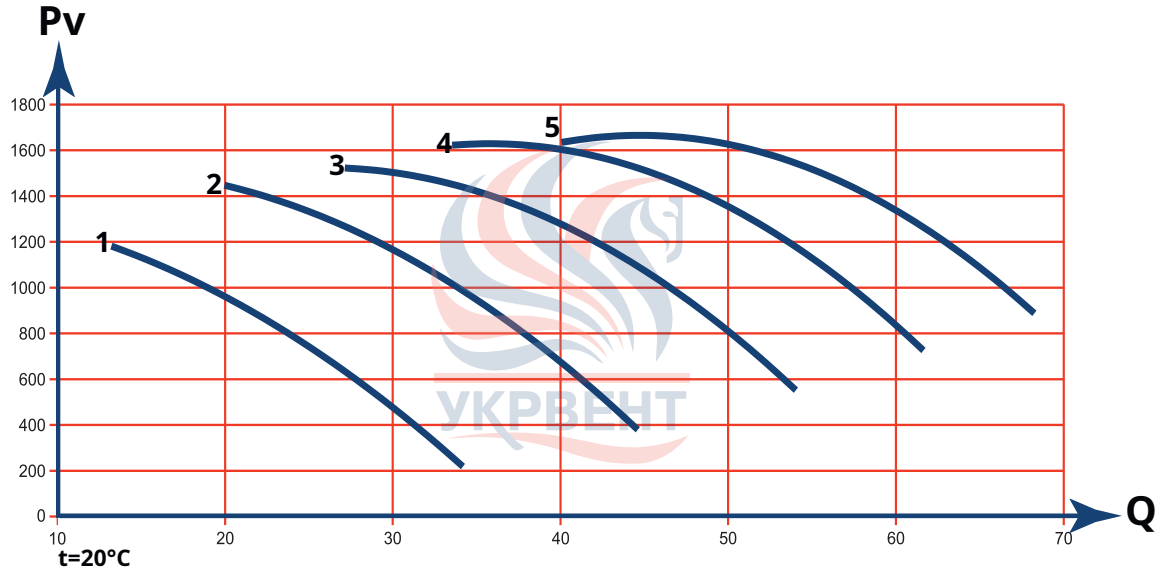
Additional equipment



Overall and connection dimensions

VO-7.1-02

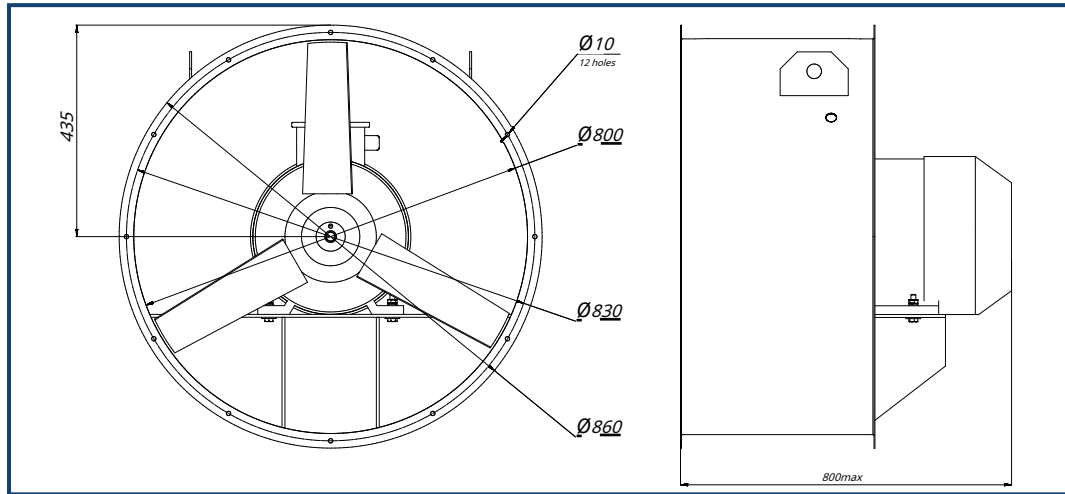


VO-8
Aerodynamic characteristics


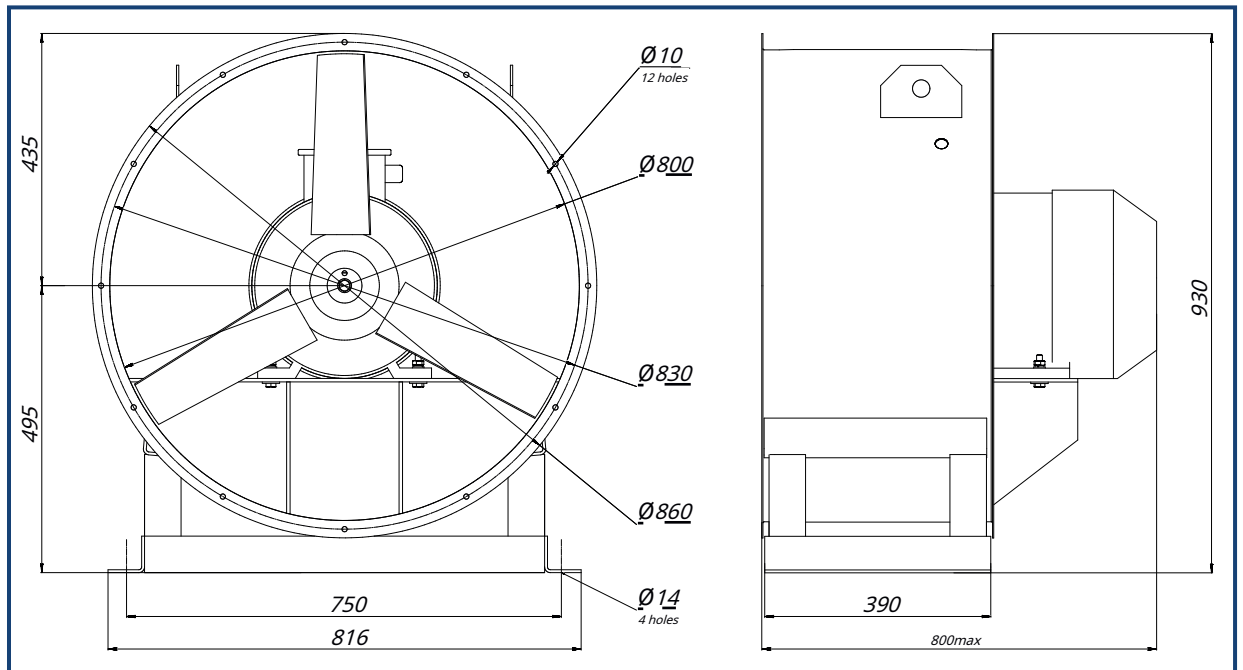
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	7.5	2860	15.1	121	183
2	11	2880	21.3	158	220
3	15	2910	28.8	188	250
4	22	2920	41	249	311
5	30	2920	55.4	268	330

Overall and connection dimensions

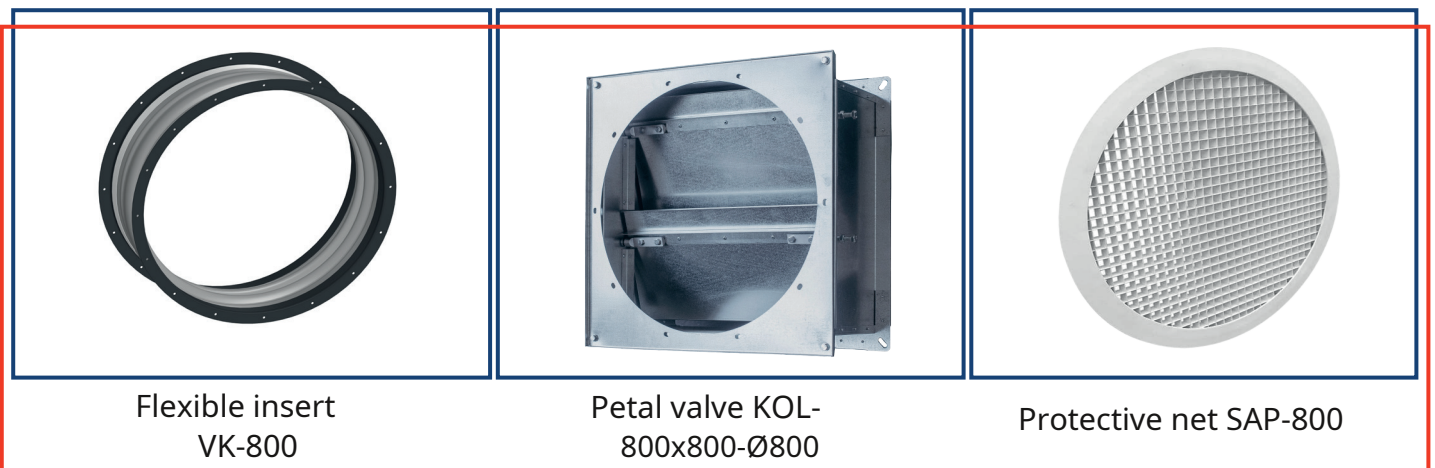
VO-8-00



VO-8-01

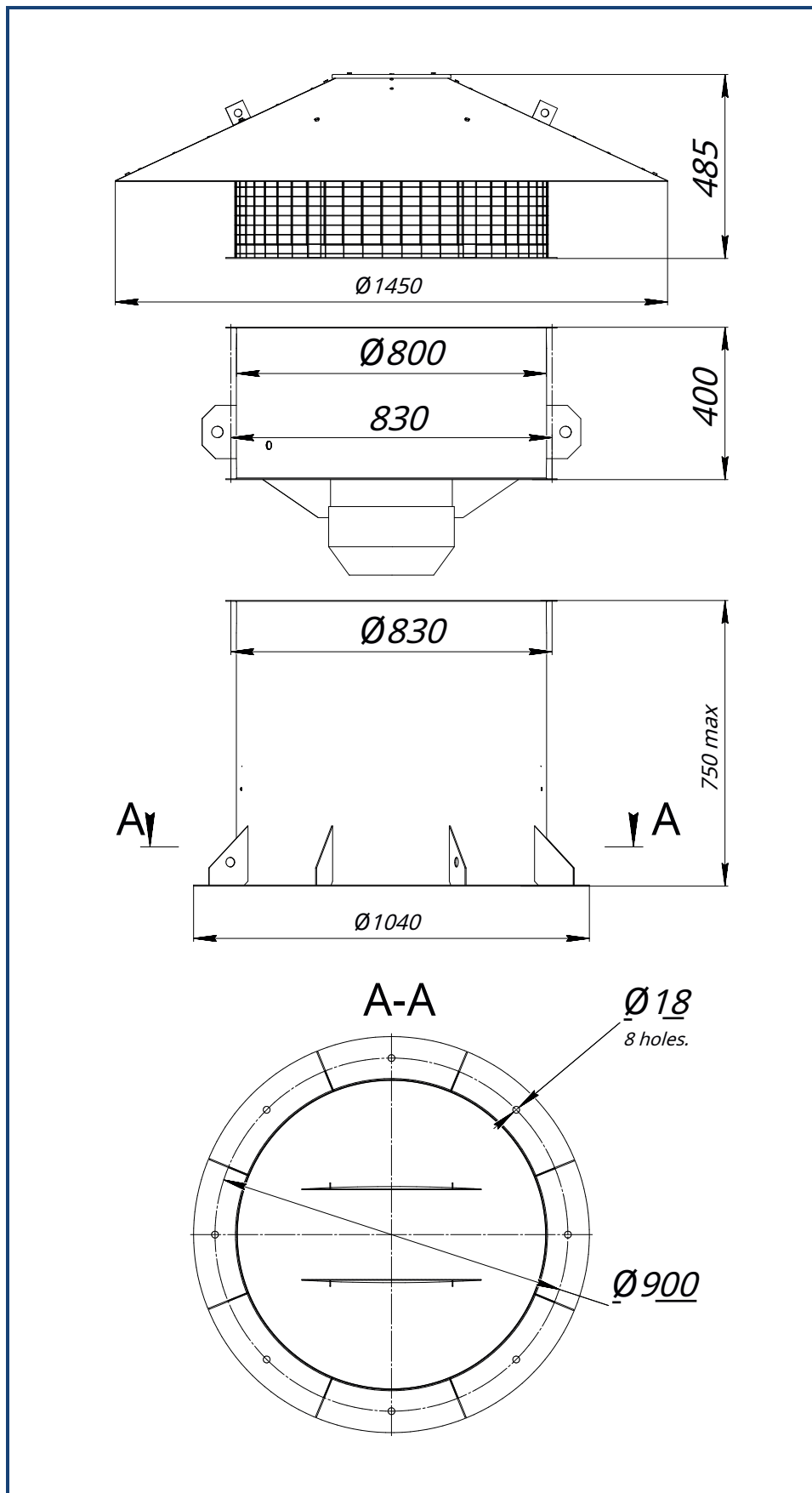


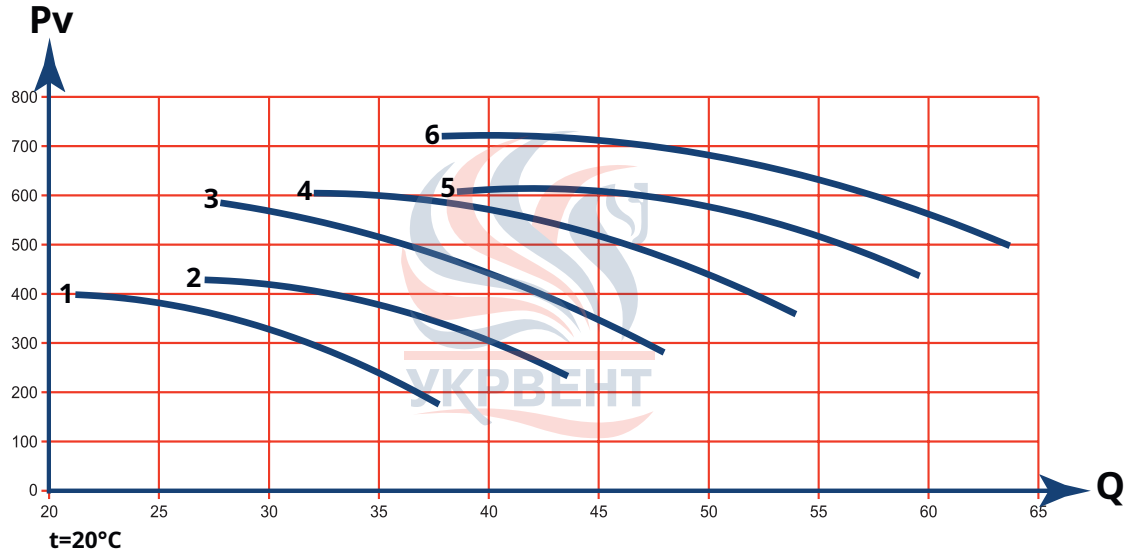
Additional equipment



Overall and connection dimensions

VO-8-02

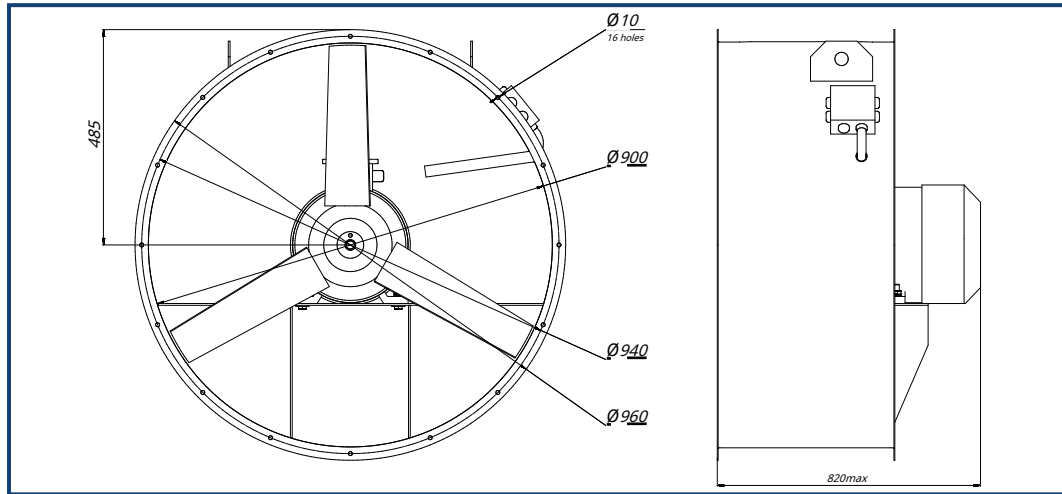


VO-9
Aerodynamic characteristics


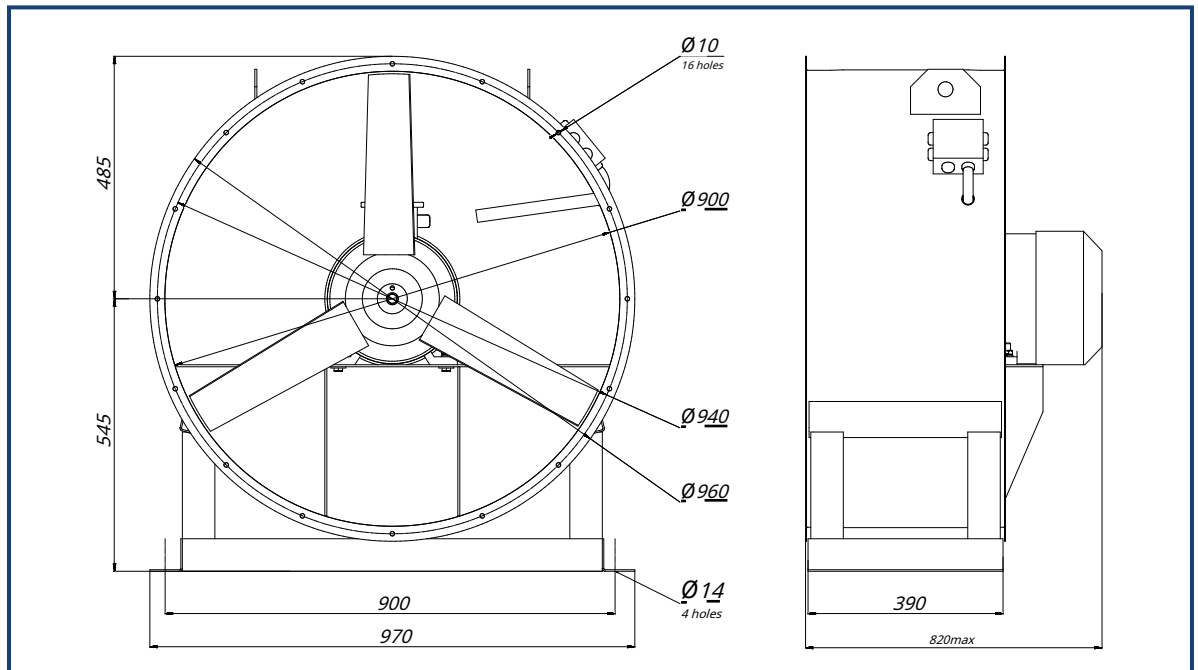
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	4	1410	9.38	123	195
2	5.5	1440	12.1	141	213
3	7.5	1440	15.8	166	238
4	11	1440	22.9	177	249
5	15	1450	30.1	217	289
6	18.5	1450	36.1	229	301

Overall and connection dimensions

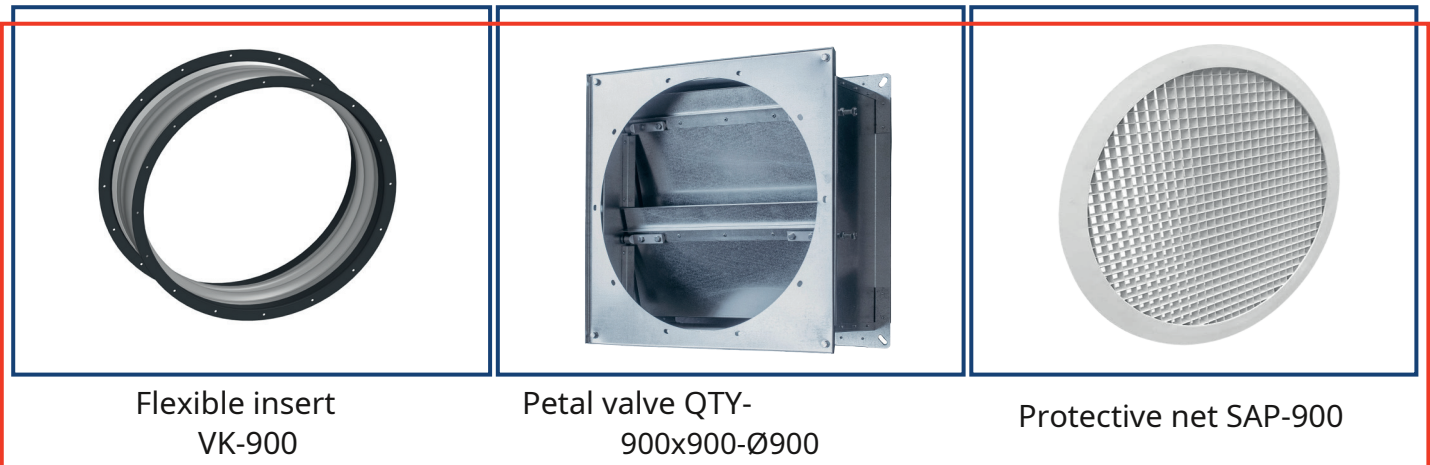
VO-9-00



VO-9-01

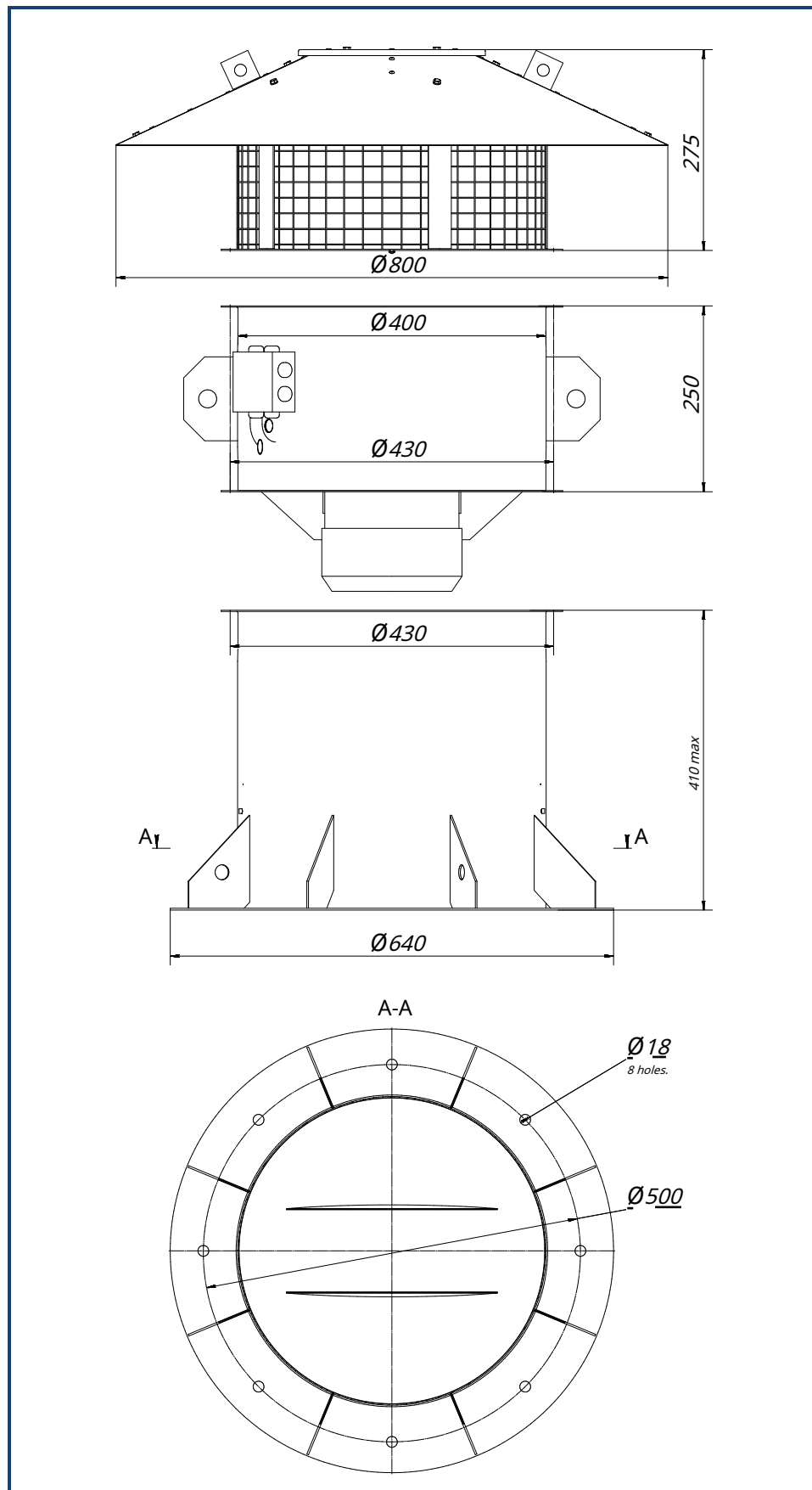


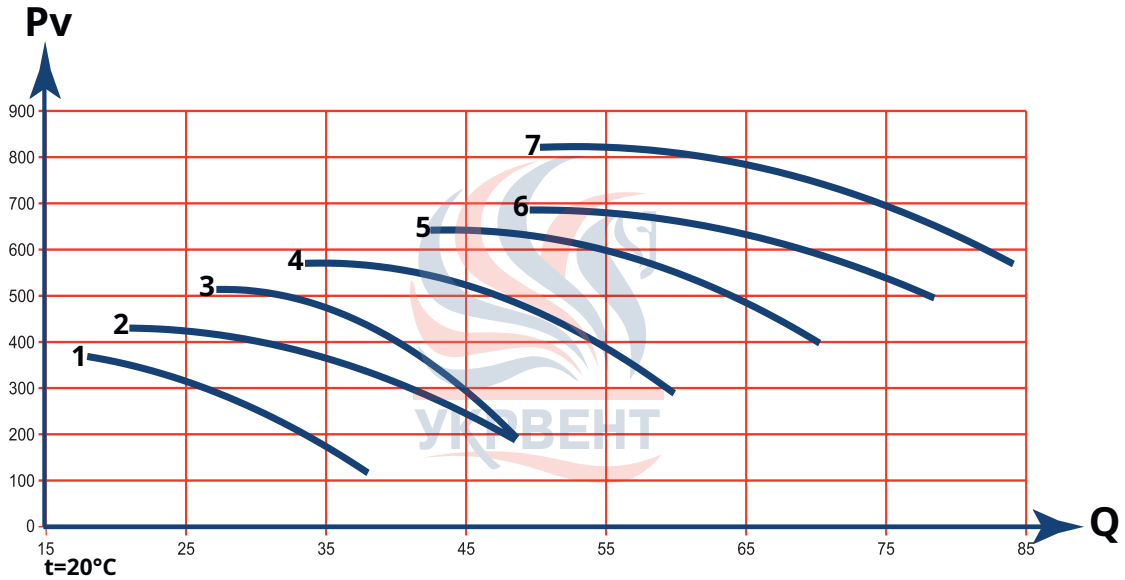
Additional equipment



Overall and connection dimensions

VO-9-02

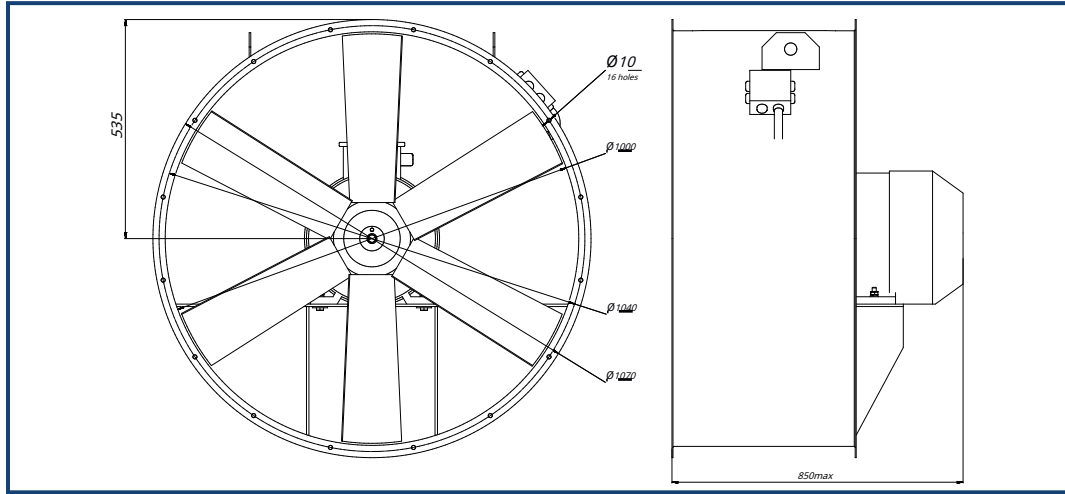


VO-10
Aerodynamic characteristics


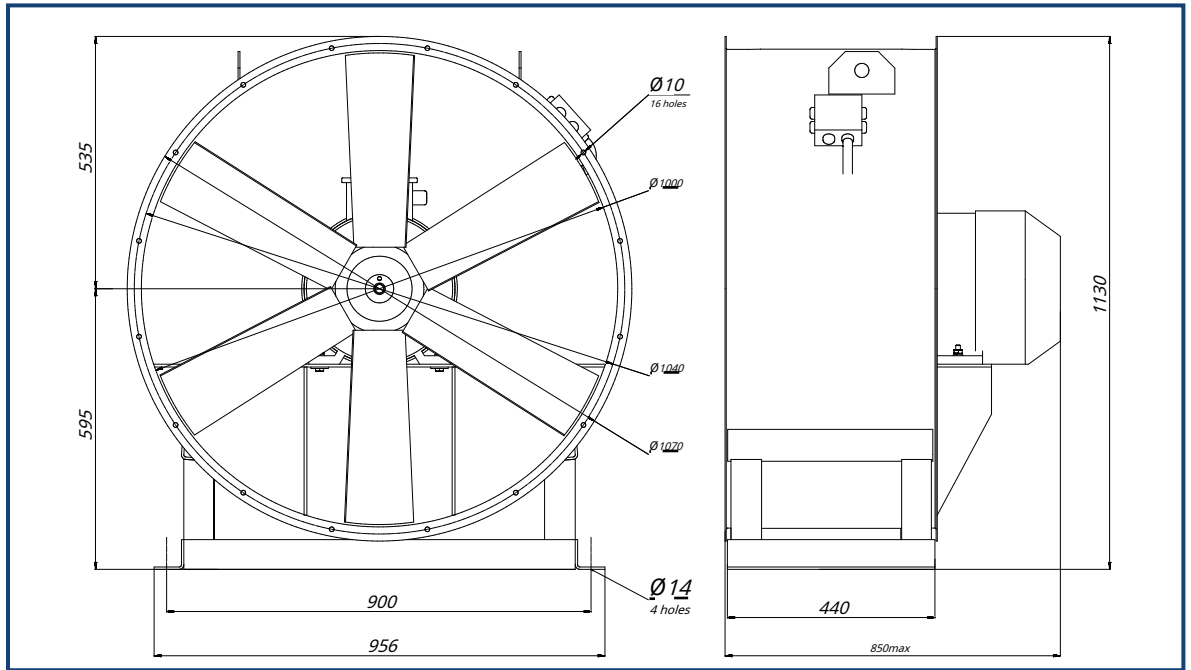
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	4	1410	9.38	140	247
2	5.5	1440	12.1	158	265
3	7.5	1440	15.8	183	290
4	11	1440	22.9	194	301
5	15	1450	30.1	241	348
6	18.5	1450	36.1	245	352
7	22	1450	43.2	280	387

Overall and connection dimensions

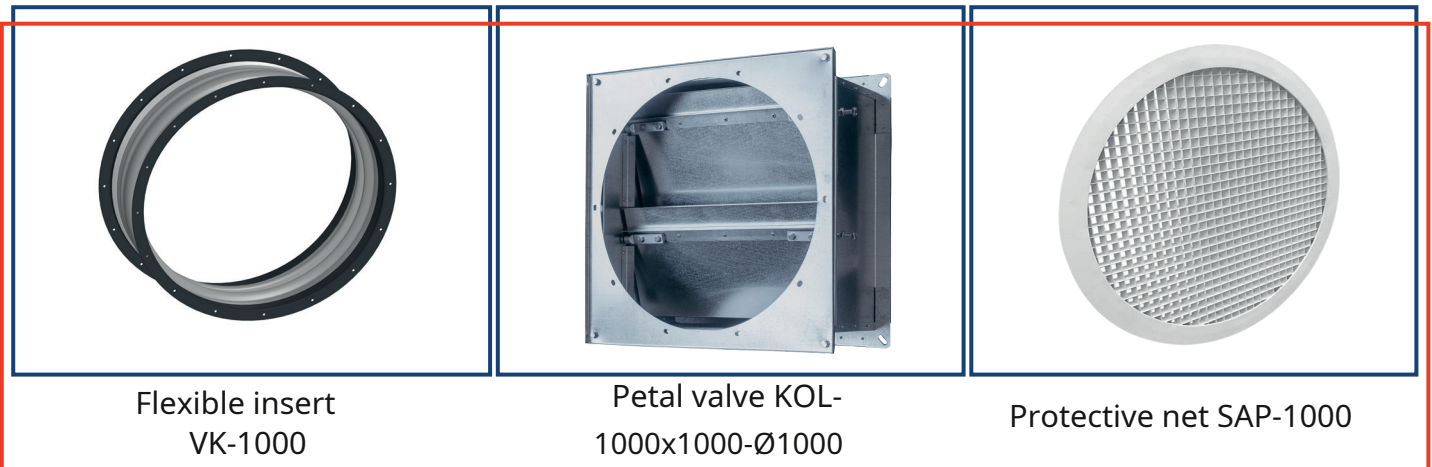
VO-10-00



VO-10-01

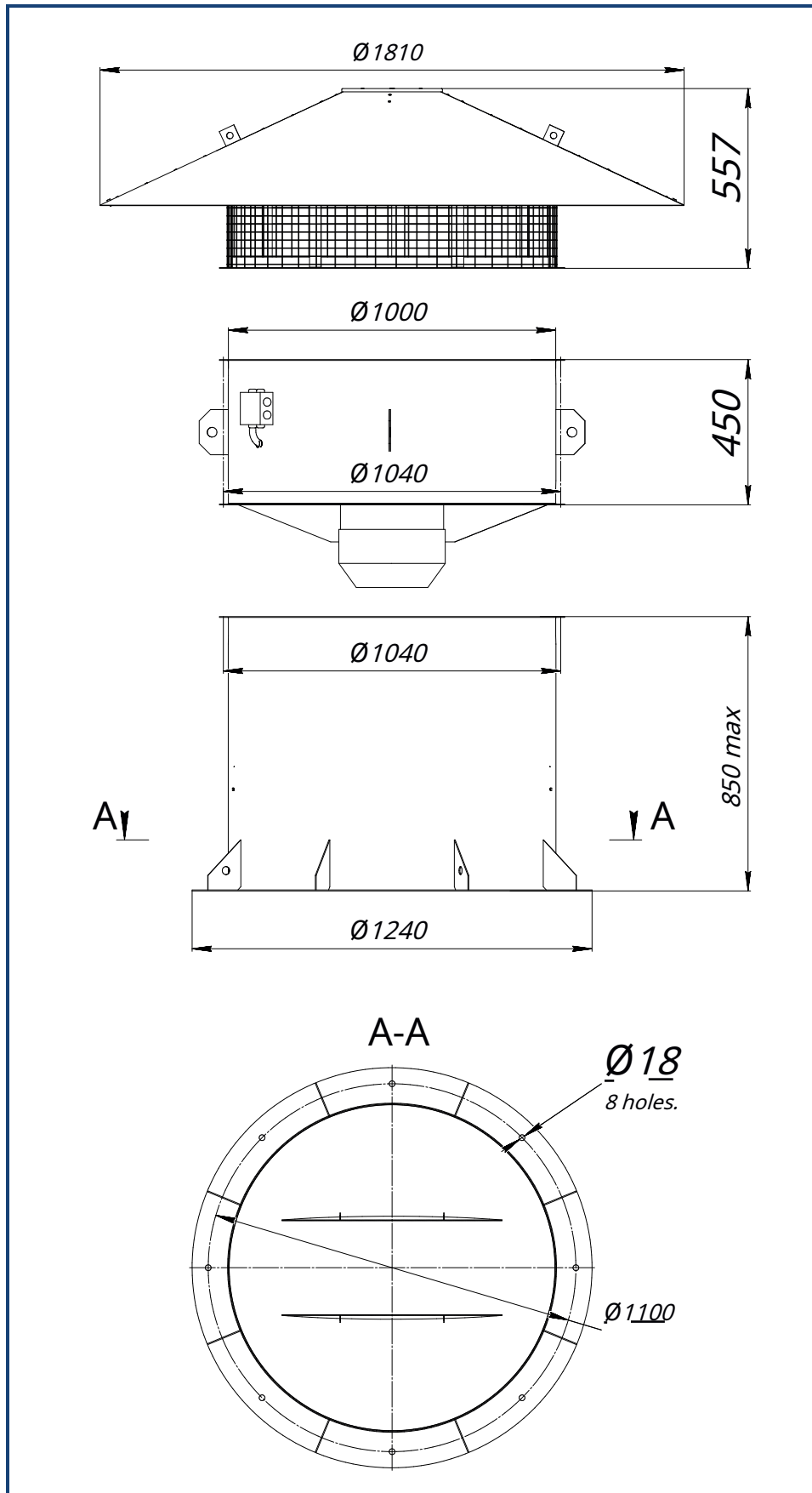


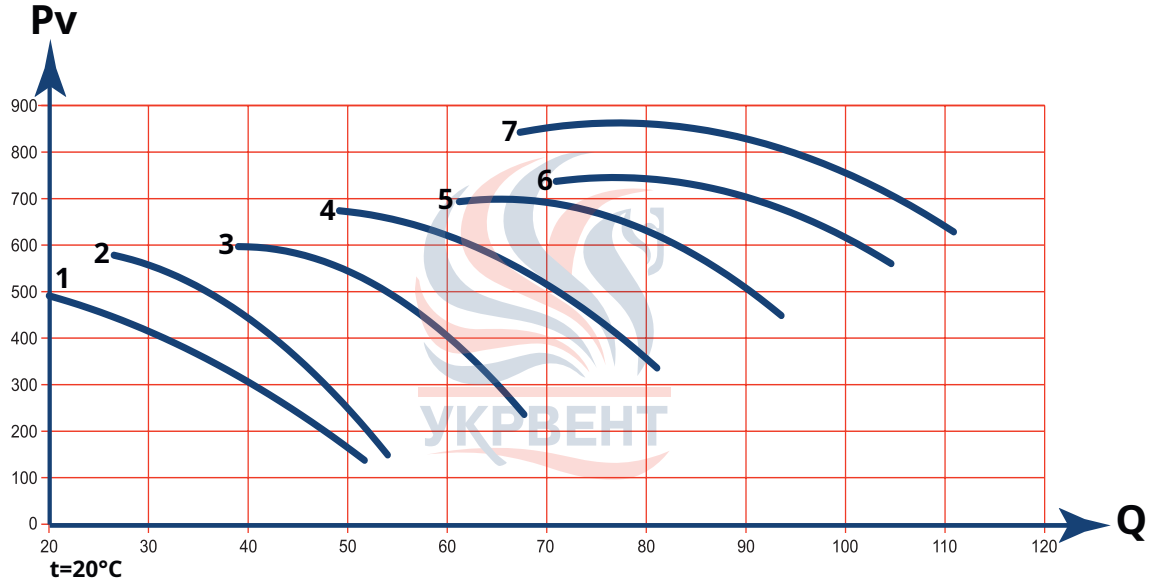
Additional equipment



Overall and connection dimensions

VO-10-02

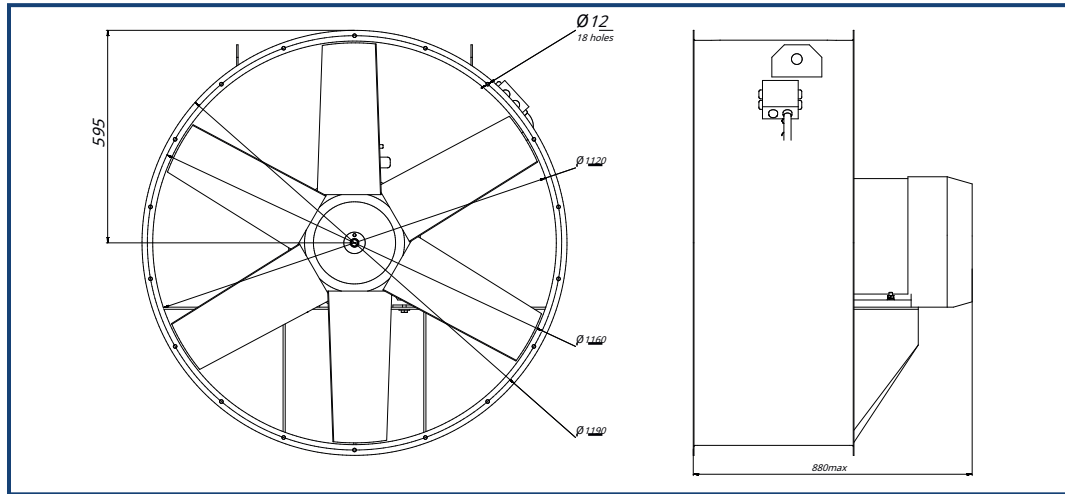


VO-11.2
Aerodynamic characteristics


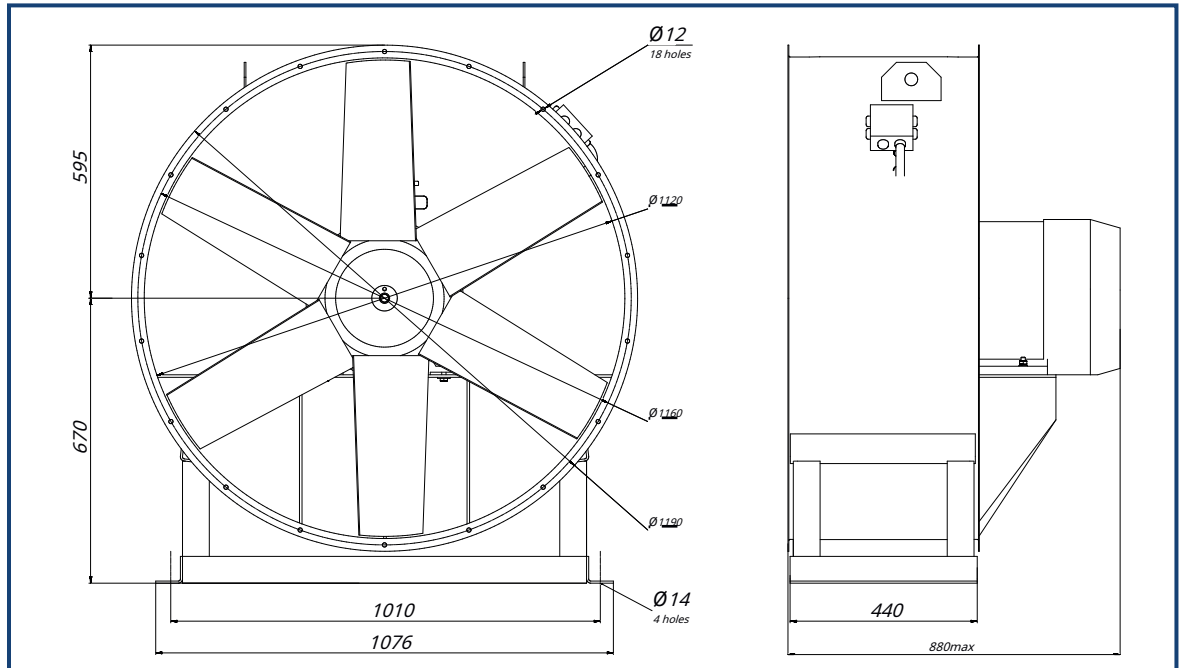
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	7.5	1440	15.8	212	356
2	11	1440	22.9	232	376
3	15	1450	30.1	272	416
4	18.5	1450	36.1	276	420
5	22	1450	43.2	311	455
6	30	1450	57.9	324	468
7	37	1450	69.9	402	540

Overall and connection dimensions

VO-11.2-00



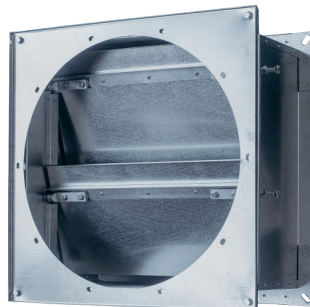
VO-11,2-01



Additional equipment



Flexible insert
VK-1120



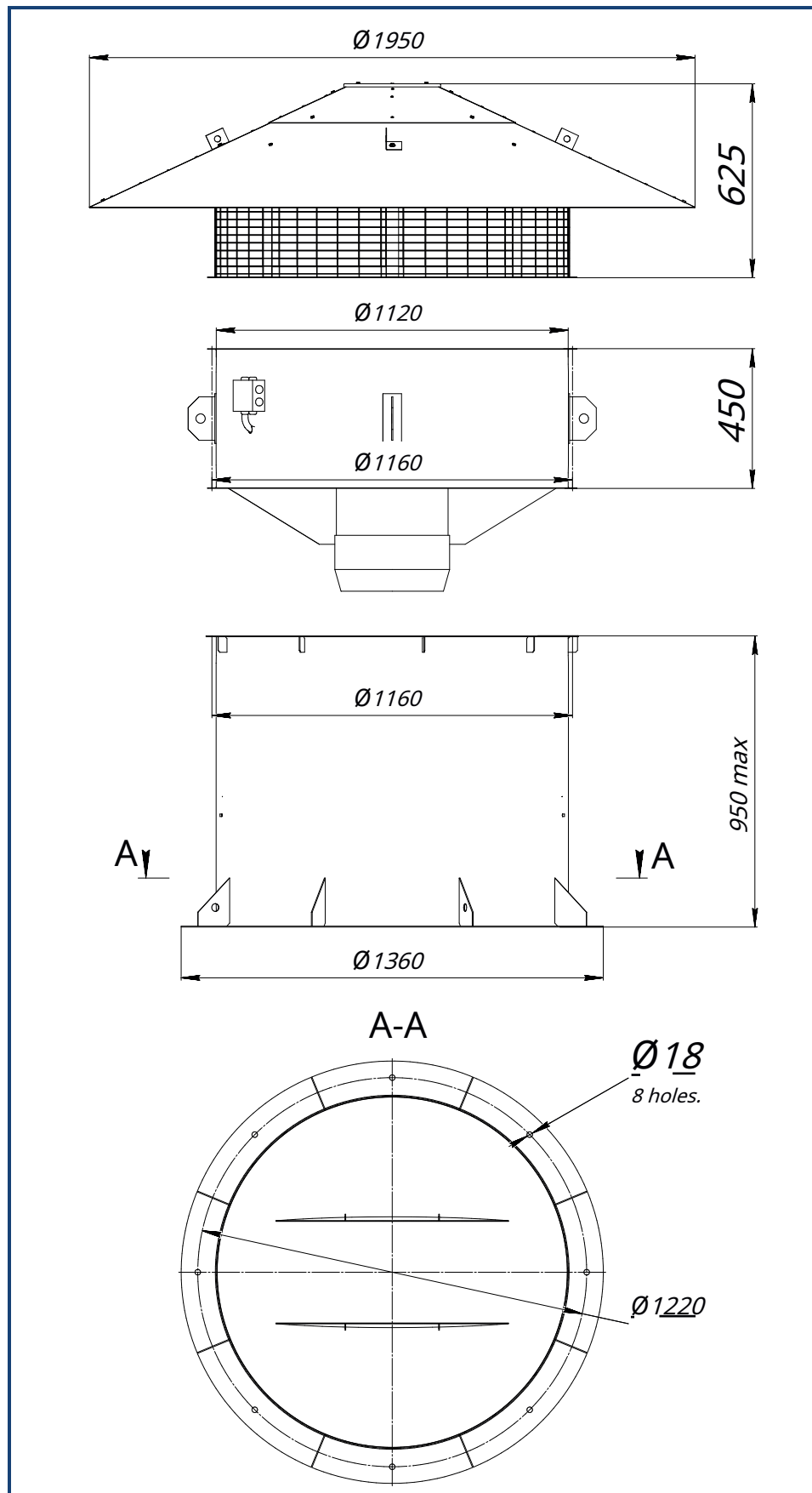
Petal valve KOL-
1120x1120- $\varnothing 1120$

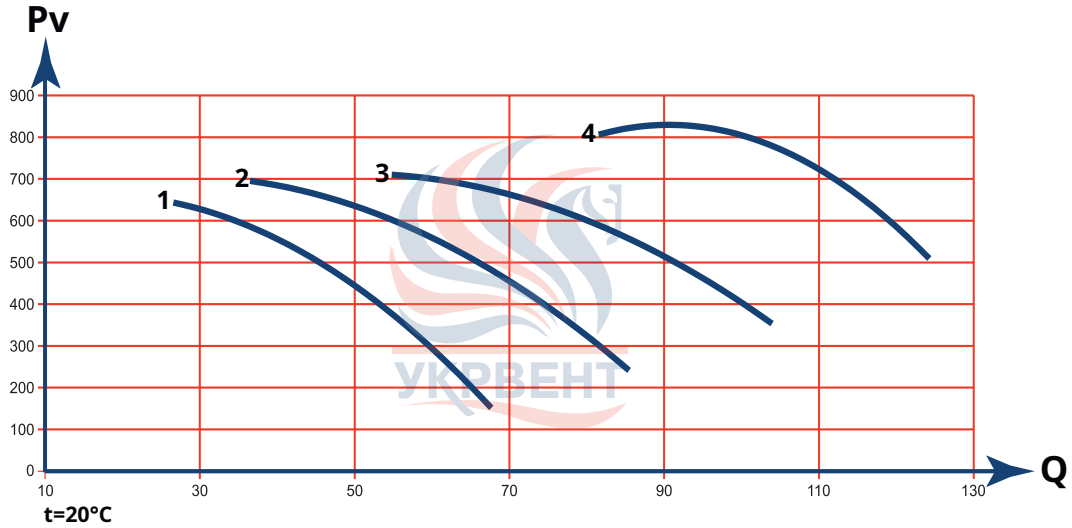


Protective net SAP-1120

Overall and connection dimensions

VO-11,2-02

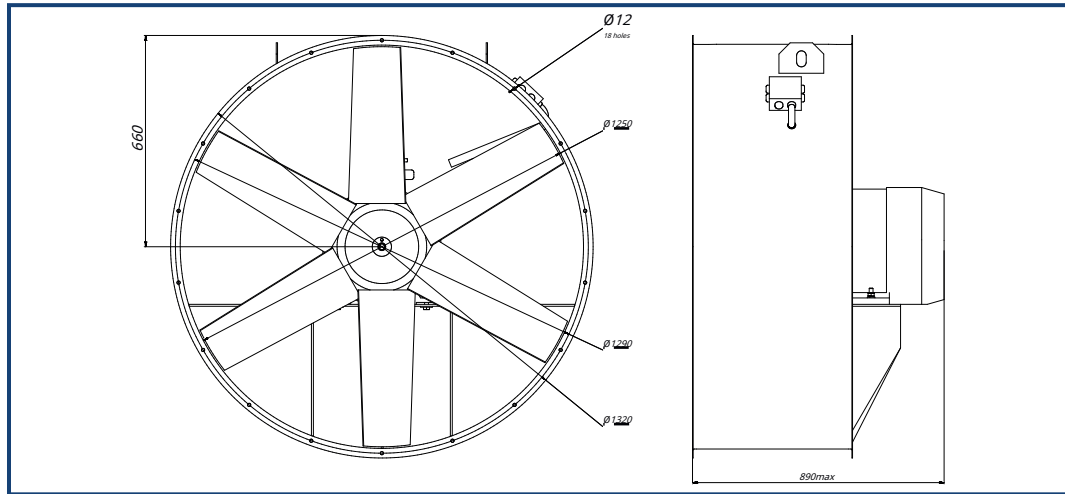


VO-12.5
Aerodynamic characteristics


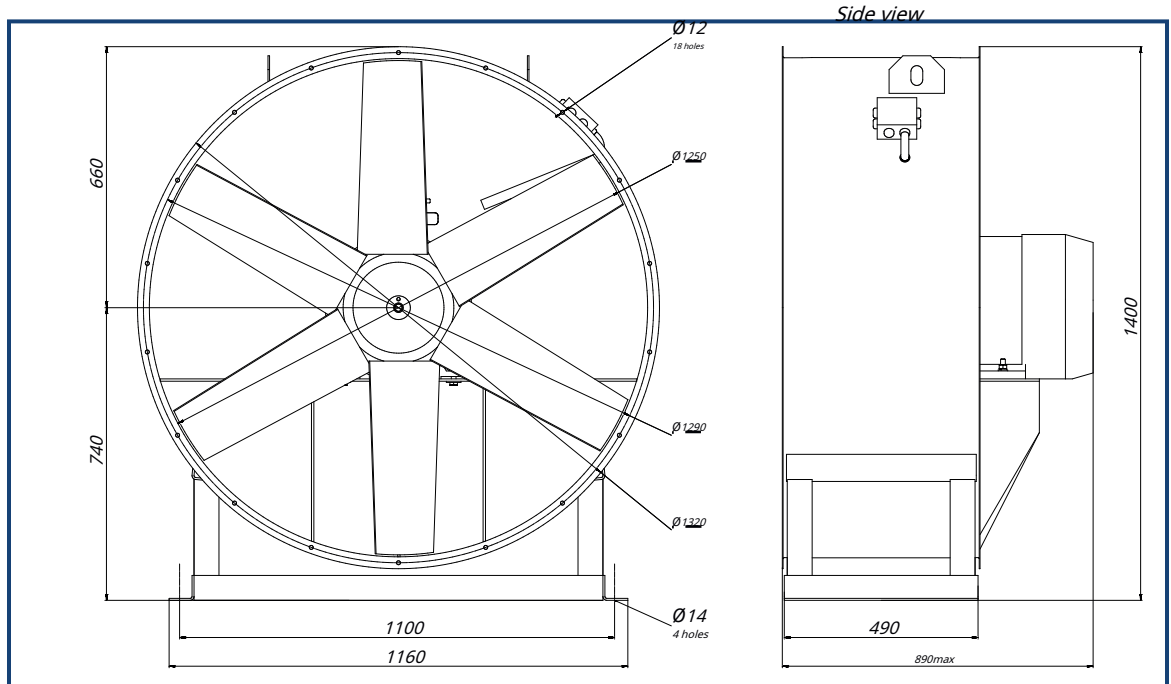
Curve №	Power, kW,	Frequency of rotation of the impeller, rpm.	Rated current, A	Weight of ducted fan, max kg	Weight of the roof fan, max kg
1	18.5	1450	36.1	317	484
2	22	1450	43.2	341	508
3	30	1450	57.9	365	532
4	37	1450	69.9	443	610

Overall and connection dimensions

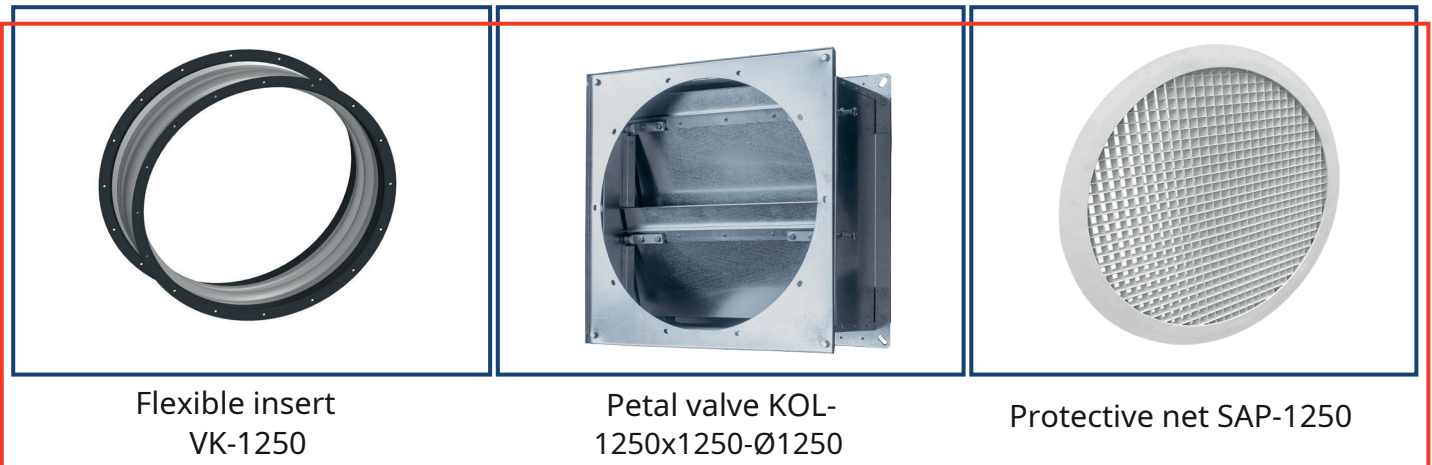
VO-12.5-00



VO-12.5-01

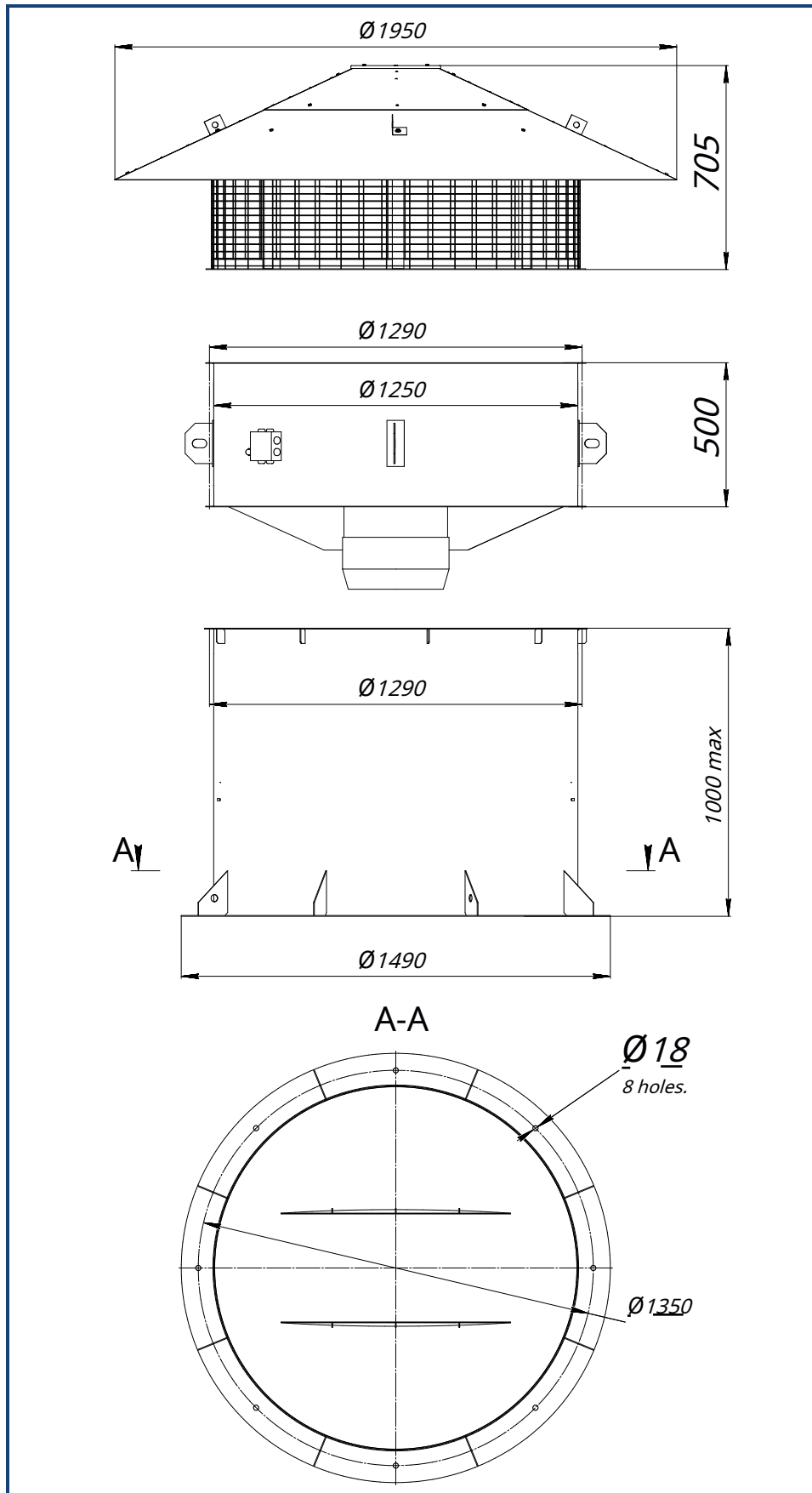


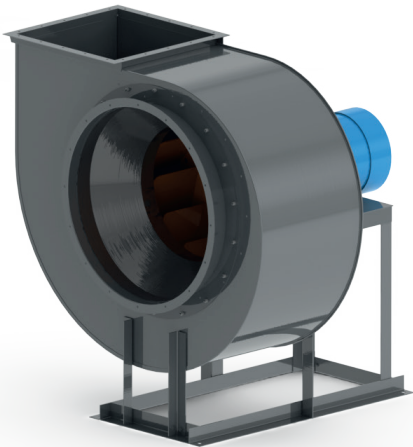
Additional equipment



Overall and connection dimensions

VO-12.5-02





low pressure radial **VR-80-70** intended ventilation, air heating and other sanitary-technical purposes and serve for air and other gas mixtures in conditions of frost at an ambient temperature of minus 40°C, which do not contain sticky substances, abrasive materials with a dust content (content of x impurities) of not more than 100 mg/m³. The temperature of wind flows should not exceed 80°C. The properties of air masses and other gas carbon steel, from which the main parts are made,

fan **VR-80-70** should not and aggressiveness of the air.

Technical characteristics of BP-80-70:

- * used in stationary exhaust or supply ventilation systems;
- * air capacity from 400 m³/h up to 84000 m³/hour;
- * static pressure from 150 Pa to 3100 Pa;
- * one-sided suction;
- * number of blades - 12 units;
- * low pressure;
- * spiral rotating housing;
- * direction of rotation - right and left.

Fans are designed to operate in moderate (U) climate conditions of the 1st location category of GOST 15150. Ambient temperature from -40°C to +40°C.

The average vibration velocity of external vibration sources at the fan installation locations is slightly more than 2 mm/s.

The aerodynamic characteristics of the fans are presented in graphs, where:

Q is the air capacity m³/hour 10³;

Psv - static pressure at p = 1.2 kg/m³ and t = 20°C air;

Fan pressure **Psv** and power consumption by the electric motor **N**, at a different density **p** of the transported medium or other air temperature **t** can be calculated according to the following formulas:

$$P_{sv_p} = (p / p_0) * P_{sv_0} \quad N_p = (p / p_0) * N \quad N_t = [293 / (273 + t)] * P_{sv_0} \quad [293 / (273 + t)] * N$$

Marking

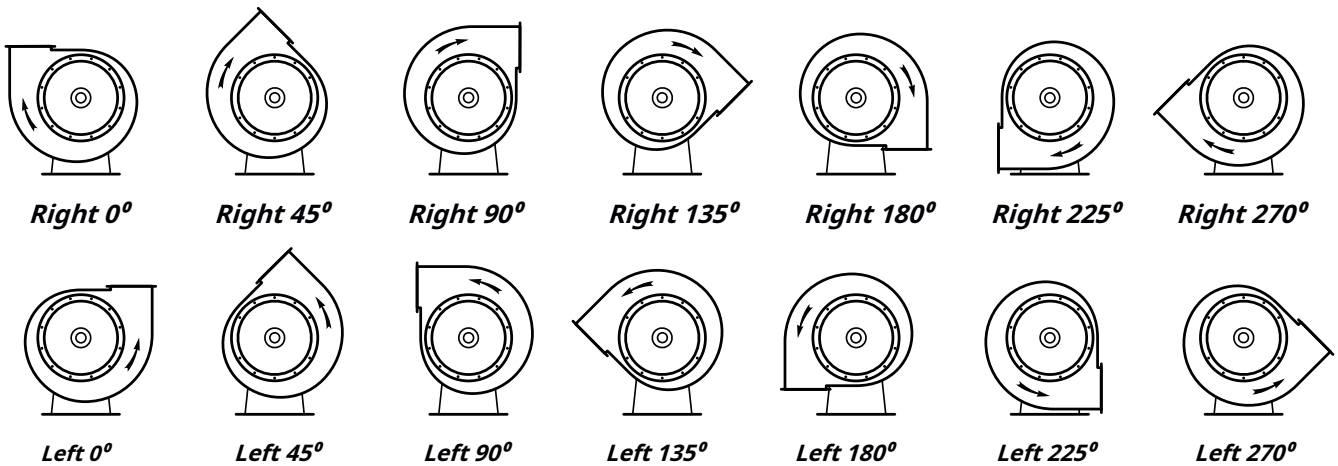
Example:

Radial fan VR-80-70; number 6.3; general industrial version; temperature moving air up to 80°C; housing position right 0°; electric motor with installed power $N_y=4$ kW, rotation speed $n=1500$ rpm.

VR-80-70 - 6.3 - O - 80° - Pr.0° - 4/1500

Fan type: VR-80-70				
Fan number: 2.5; 3.15; 3.55; 4; 4.5; 5; 5.6; 6.3; 7.1; 8; 9; 10; 11.2; 12.5;				
Appointment: O- general industrial; DU- smoke extraction; G- heat-resistant; K- corrosion-resistant (specify the brand of stainless steel); VZI- explosion-proof;				
Temperature of the transported air, °C: 80 (O); 200 (G); 400 (DU); 600 (DU);				
Fan housing position: Left/Right -0°; 45°; 90°; 135°; 180°; 270°; 315°;				
Electric motor parameters, N_y/n : N_y - power, kW; n - synchronous speed, rpm (750; 1000; 1500; 3000;				

Fan housing position options

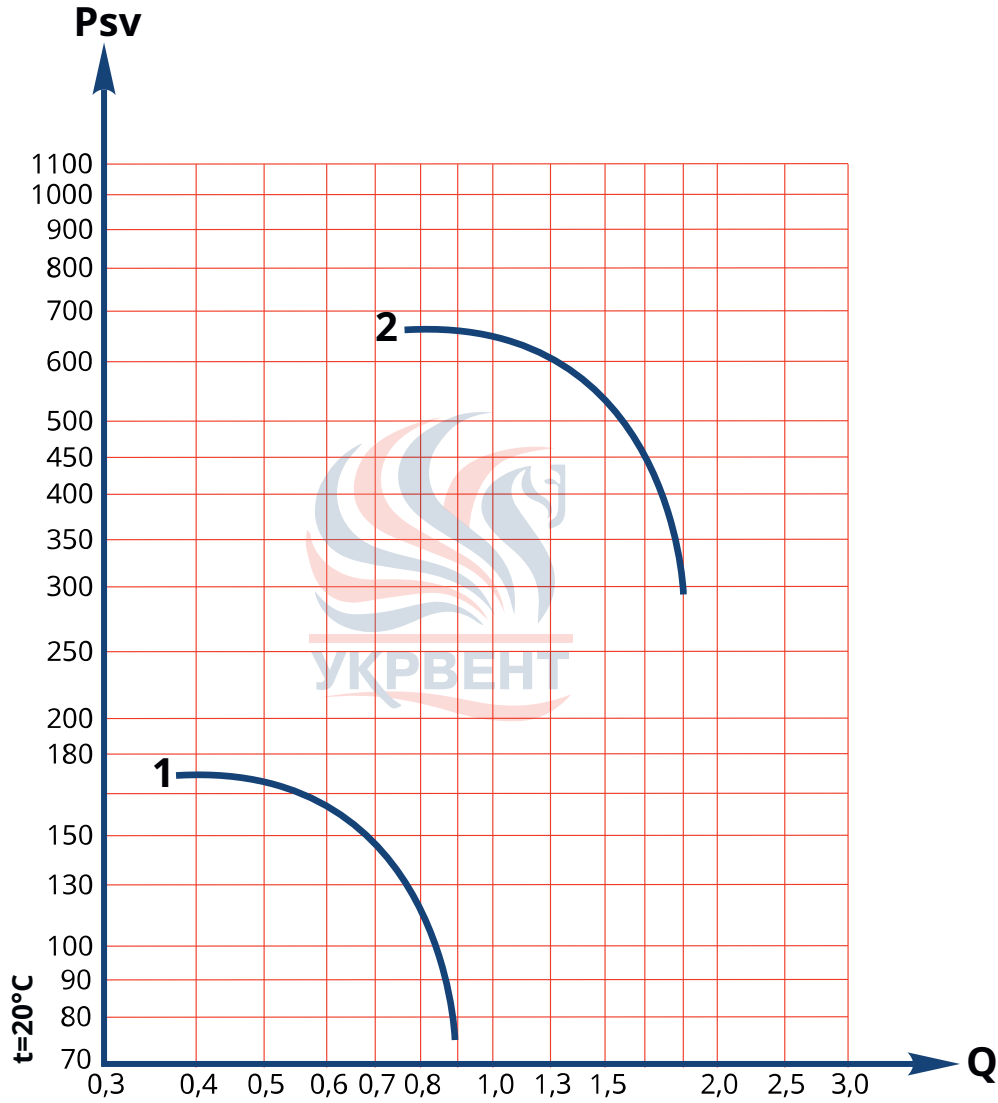


WARNING!

The fans are equipped with a three-phase electric motor as standard, in case
 If necessary, it is possible to install a single-phase electric motor.

VR-80-70-2.5

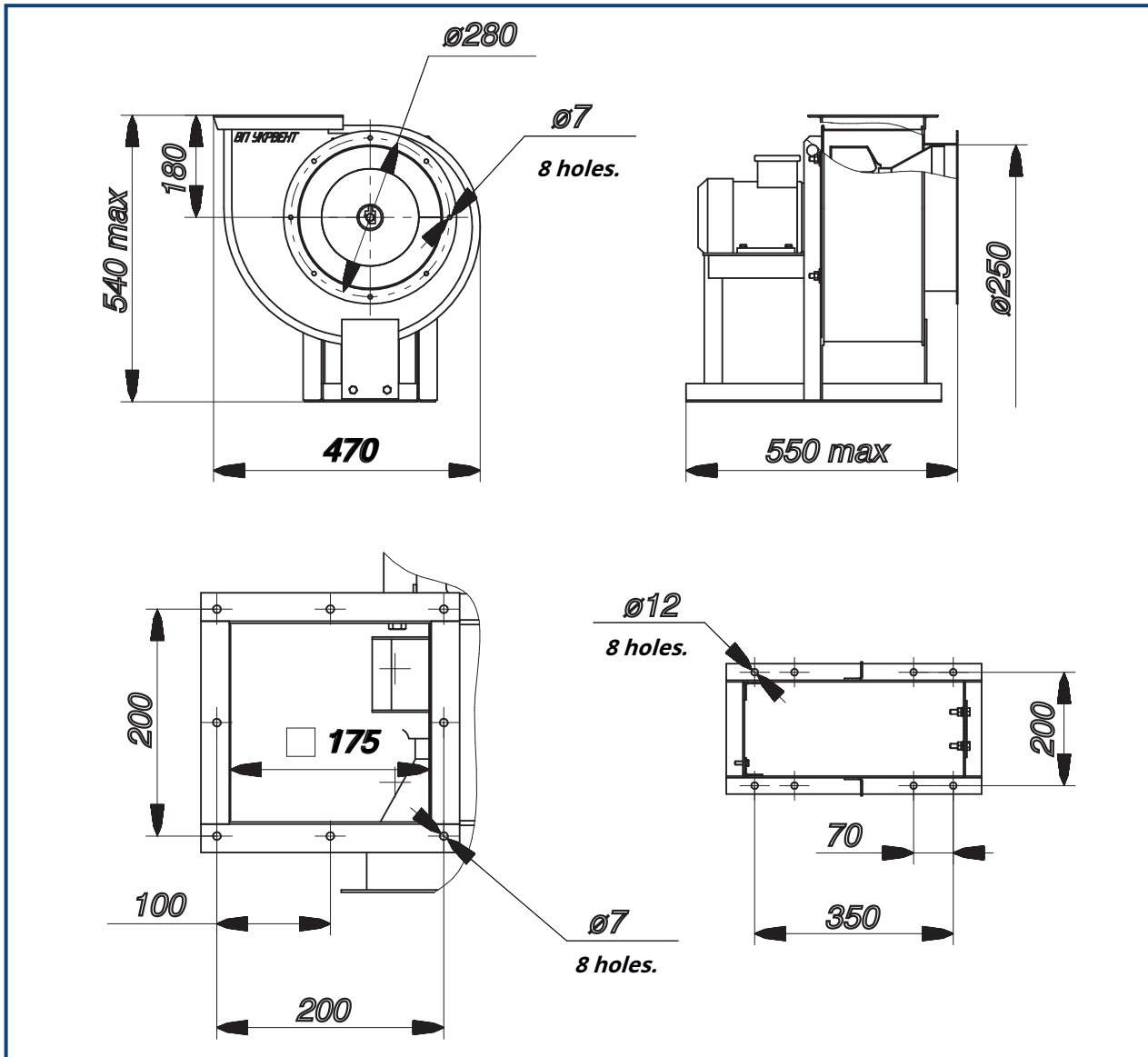
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	0.25	1320	0.82	28	70
2	0.55	2770	1.4	28	85

VR-80-70-2.5

Overall and connection dimensions of the fan VR-80-70-2.5



Additional equipment



Flexible insert
VK-250



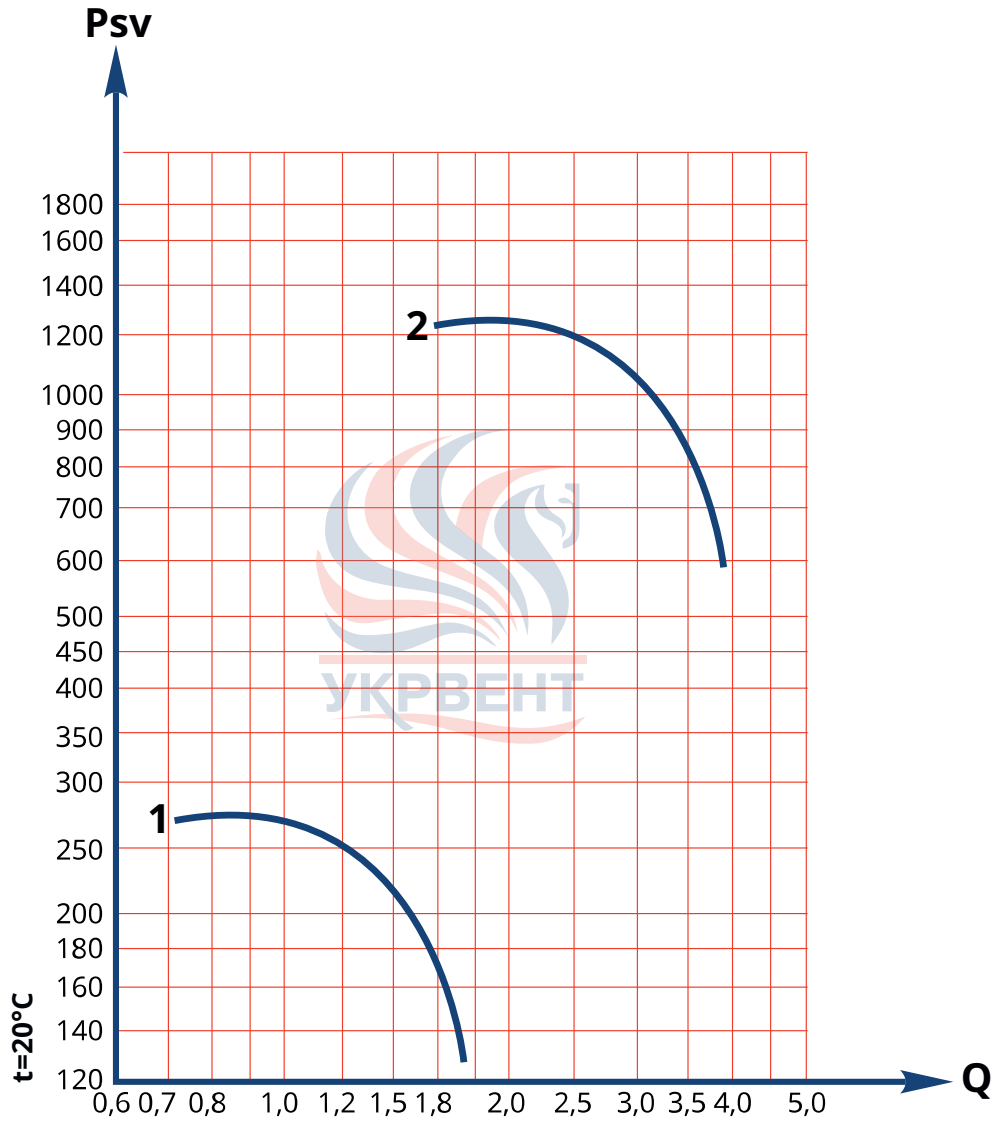
Frequency converter
UVE-810



Vibration isolator RV-30

VR-80-70-3.15

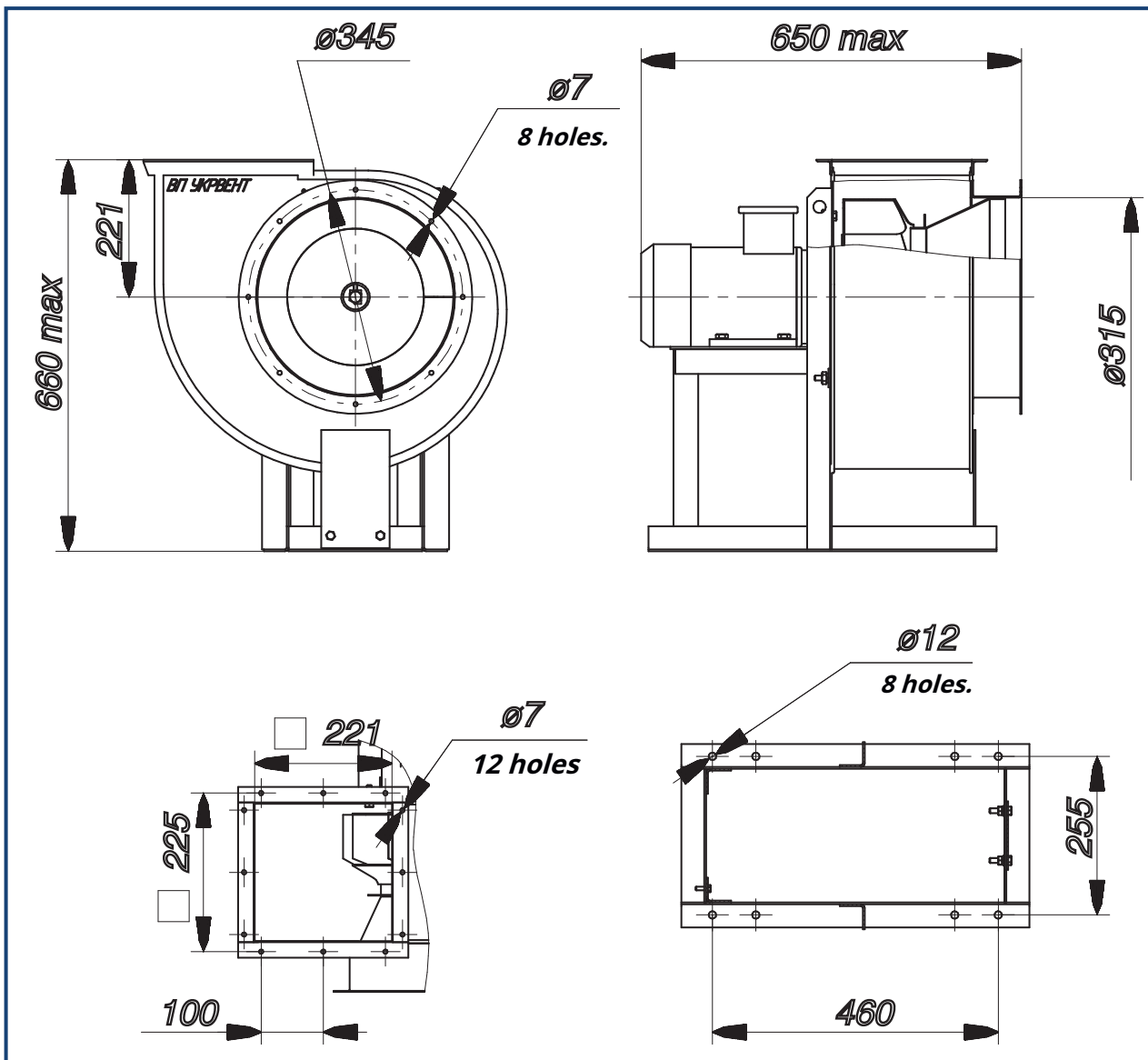
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	0.37	1325	1.22	41	71
2	1.5	2790	3.48	46	87

VR-80-70-3.15

Overall and connection dimensions of the fan VR-80-70-3.15



Additional equipment



Flexible insert
VK-315



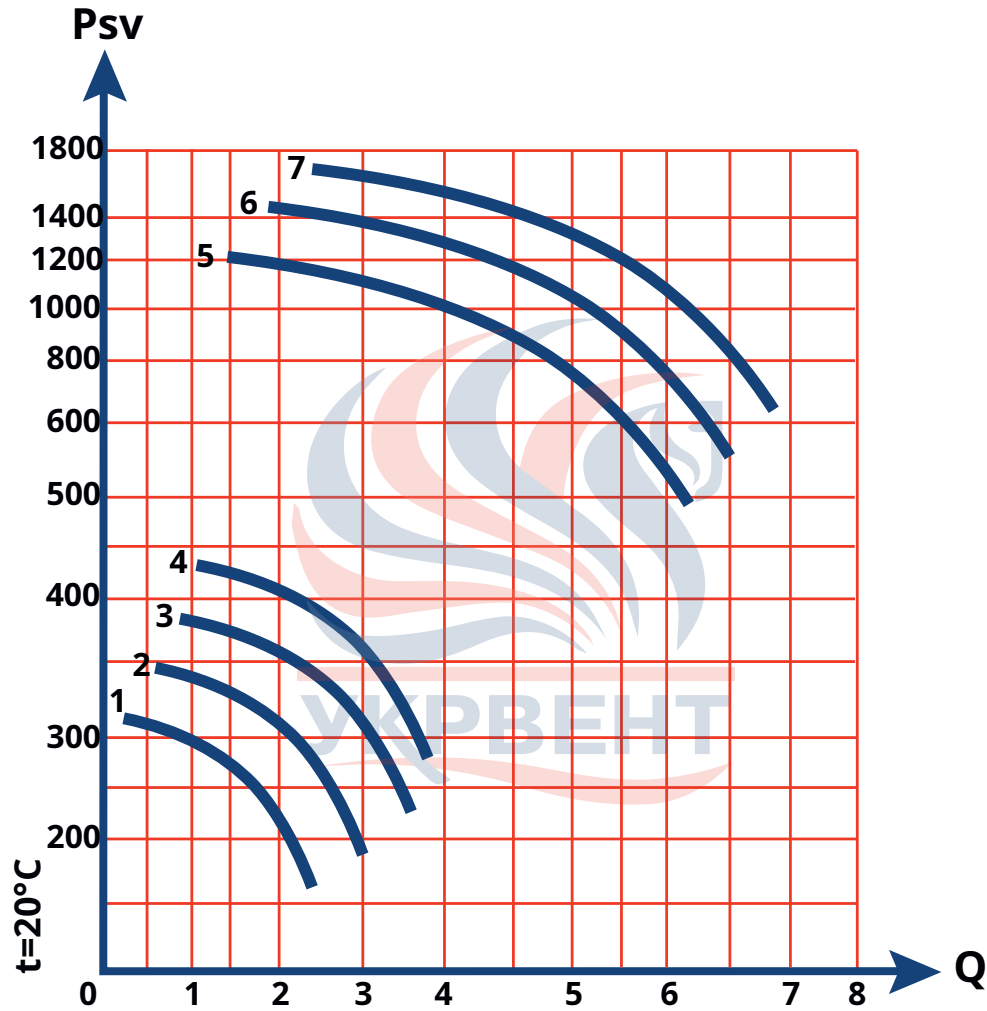
Frequency converter
UVE-810



Vibration isolator RV-30

VR-80-70-3.55

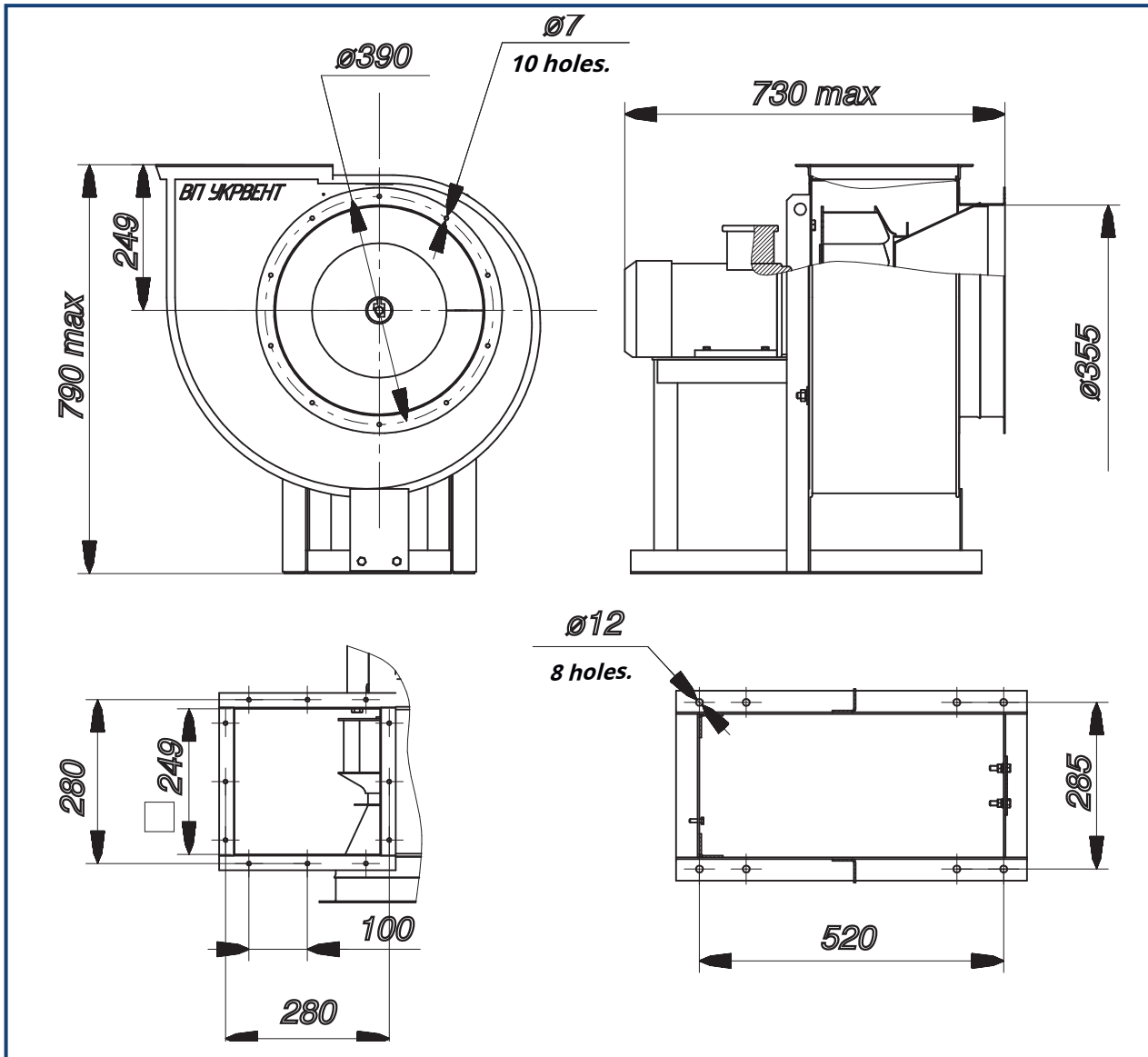
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	0.25	1320	0.82	52	71
2	0.37	1325	1.12	53	72
3	0.55	1350	1.57	54	72
4	0.75	1360	2.05	56	73
5	1.5	2840	3.46	64	88
6	2.2	2840	4.85	68	88
7	3	2845	6.34	71	90

VR-80-70-3.55

Overall and connection dimensions of the fan VR-80-70-3.55



Additional equipment



Flexible insert
VK-355



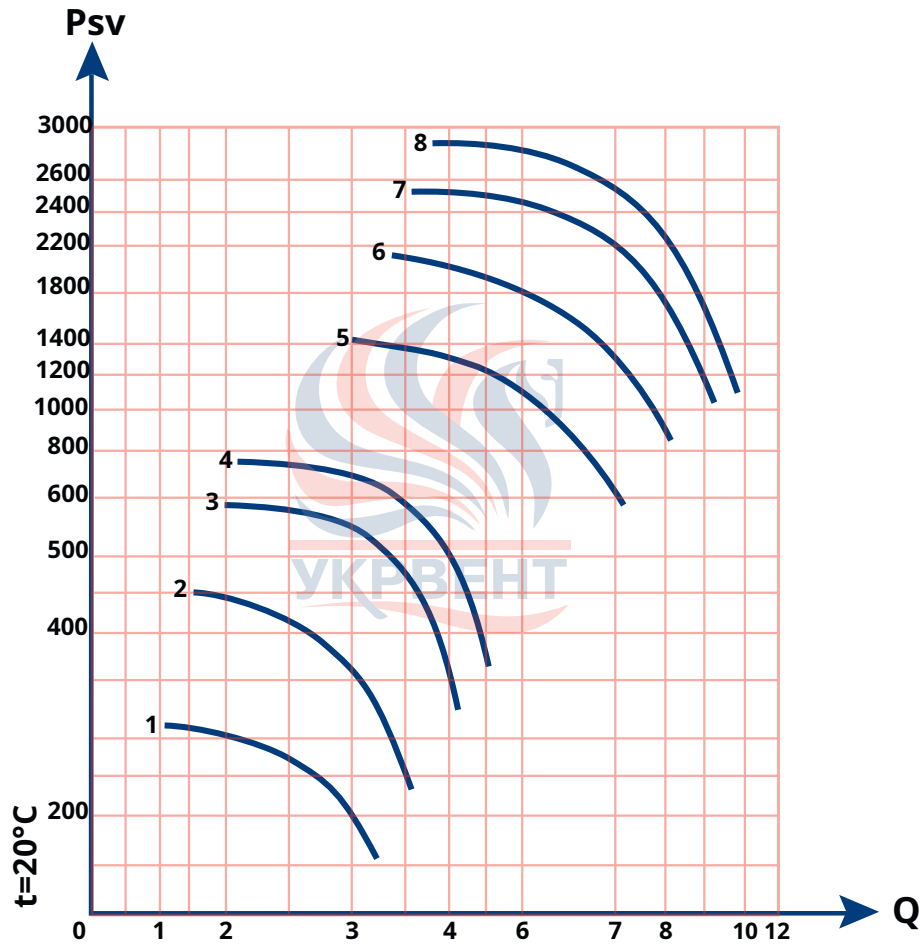
Frequency converter
UVE-810



Vibration isolator RV-30

VR-80-70-4

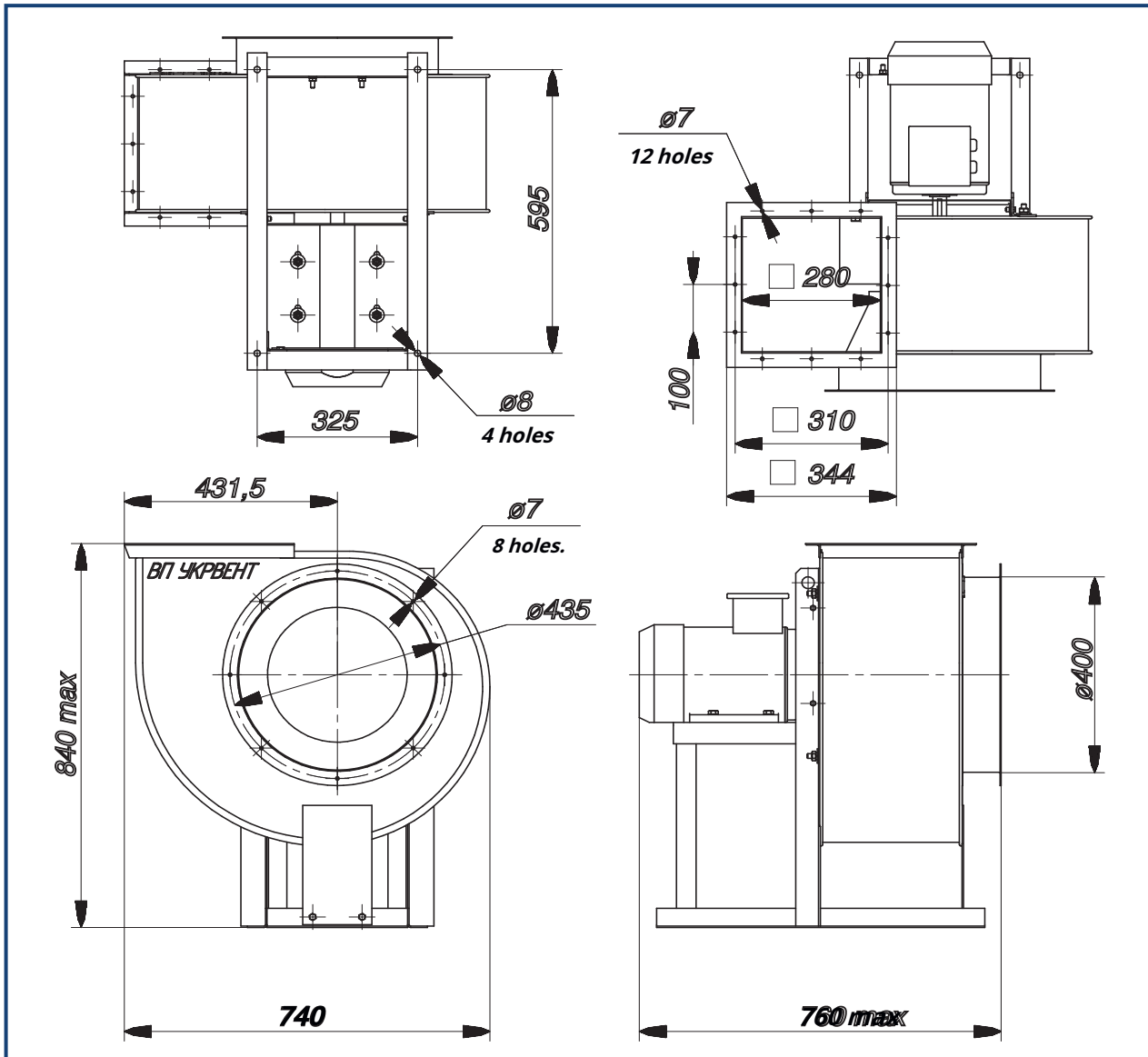
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	0.37	1325	1.2	65	83
2	0.55	1350	1.8	66	87
3	0.75	1360	2.2	67	89
4	1.1	1375	3	71	92
5	3	2845	6.5	76	100
6	4	2870	8.4	85	103
7	5.5	2870	11	89	105
8	7.5	2880	15.2	108	108

VR-80-70-4

Overall and connection dimensions of the VR-80-70-4 fan



Additional equipment



Flexible insert
VK-400



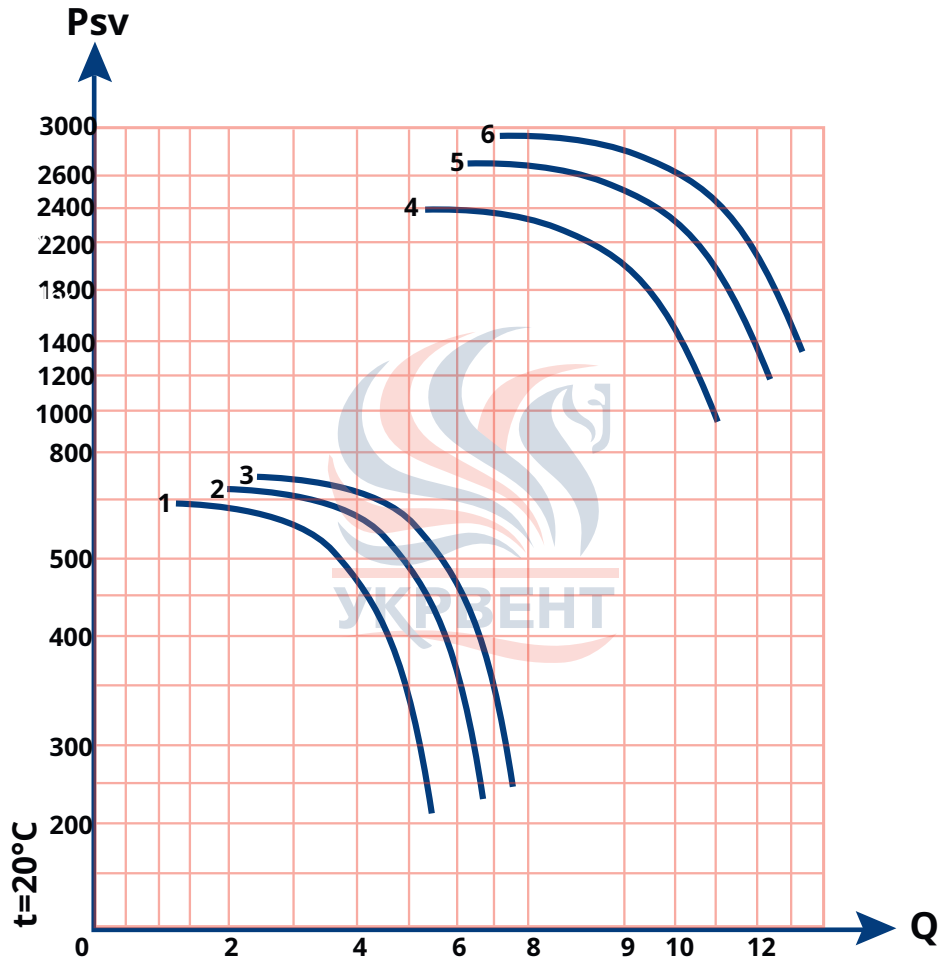
Frequency converter
UVE-810



Vibration isolator RV-30

VR-80-70-4.5

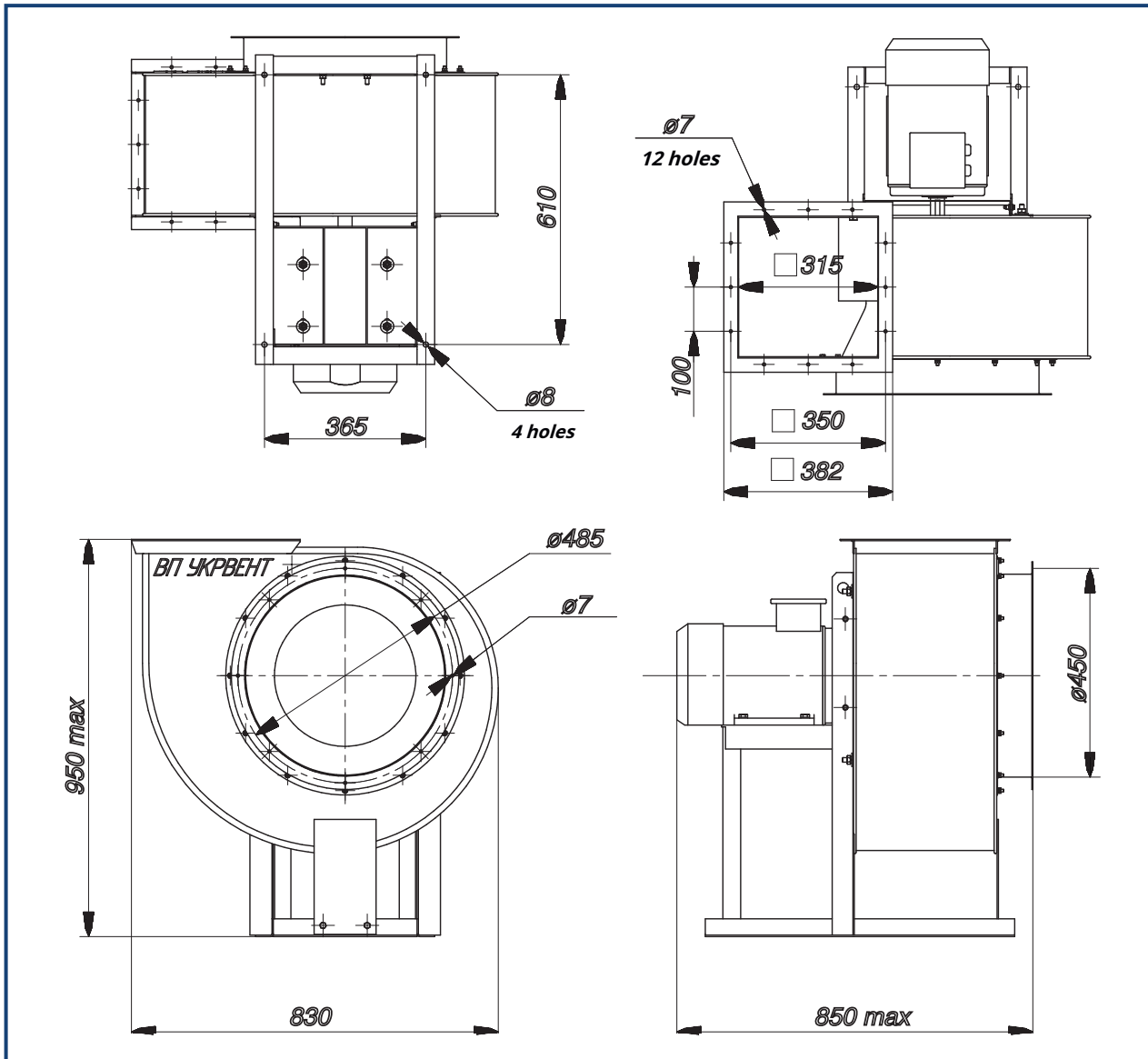
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	0.75	1360	2.2	80	93
2	1.1	1375	3	84	95
3	1.5	1390	4	88	99
4	5.5	2870	11	102	103
5	7.5	2880	15.2	121	104
6	11	2900	21.8	158	108

VR-80-70-4.5

Overall and connection dimensions of the fan VR-80-70-4.5



Additional equipment



Flexible insert
VK-450



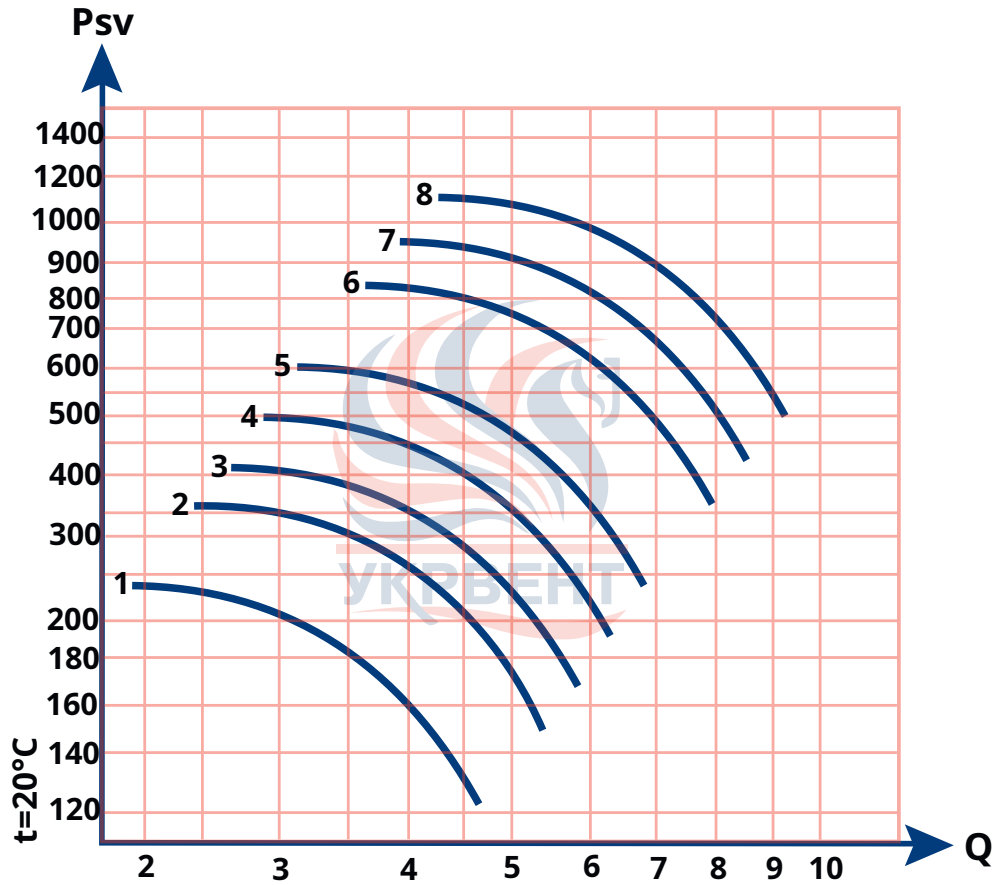
Frequency converter
UVE-810



Vibration isolator RV-30

VR-80-70-5

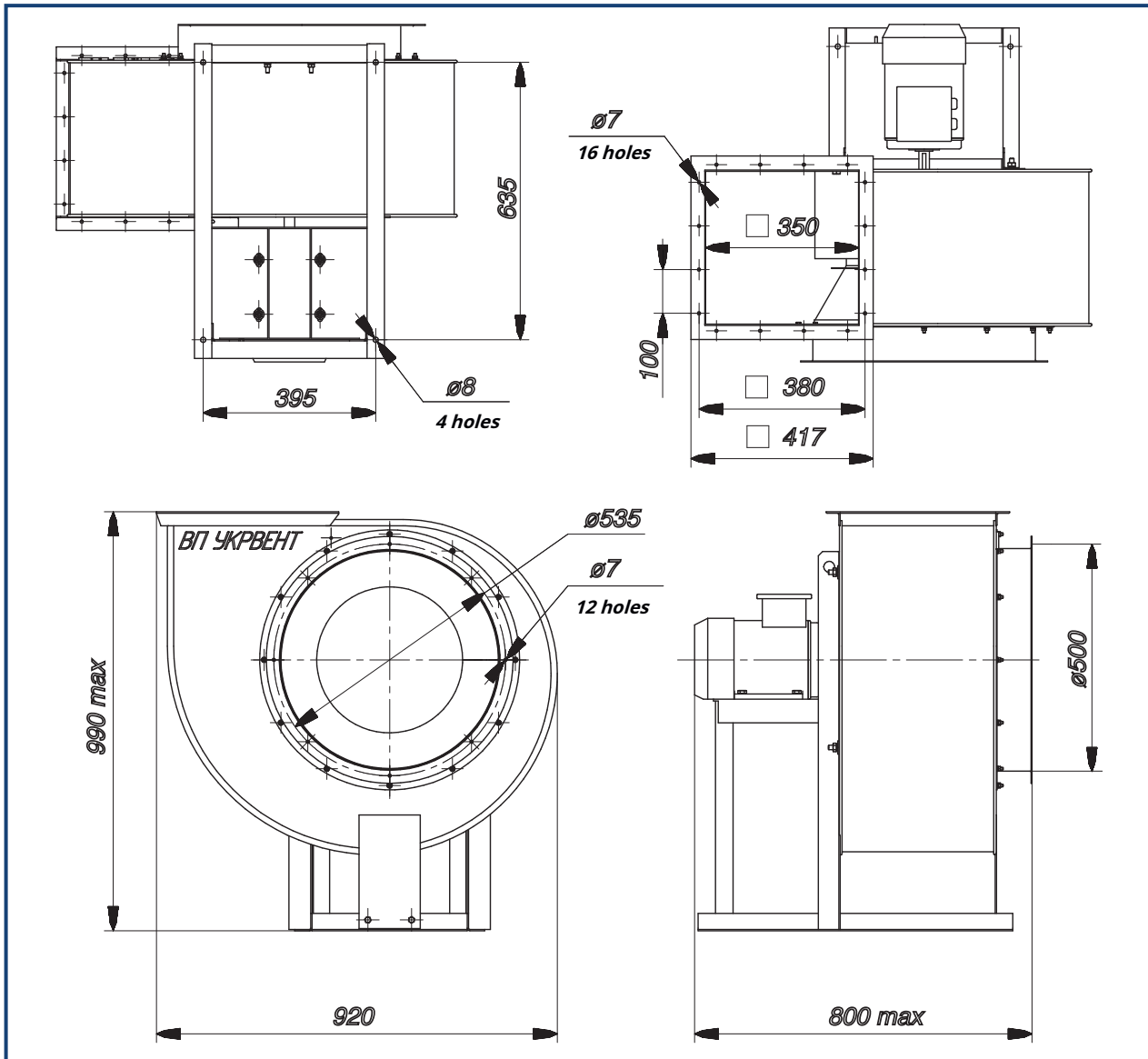
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	0.37	895	1.4	90	93
2	0.55	895	1.9	90	95
3	0.75	910	2.3	94	97
4	1.1	910	3.2	98	99
5	1.1	1375	3	94	103
6	1.5	1390	4	98	104
7	2.2	1400	5.3	103	106
8	3	1420	7.2	112	108

VR-80-70-5

Overall and connection dimensions of the fan VR-80-70-5



Additional equipment



Flexible insert
VK-500



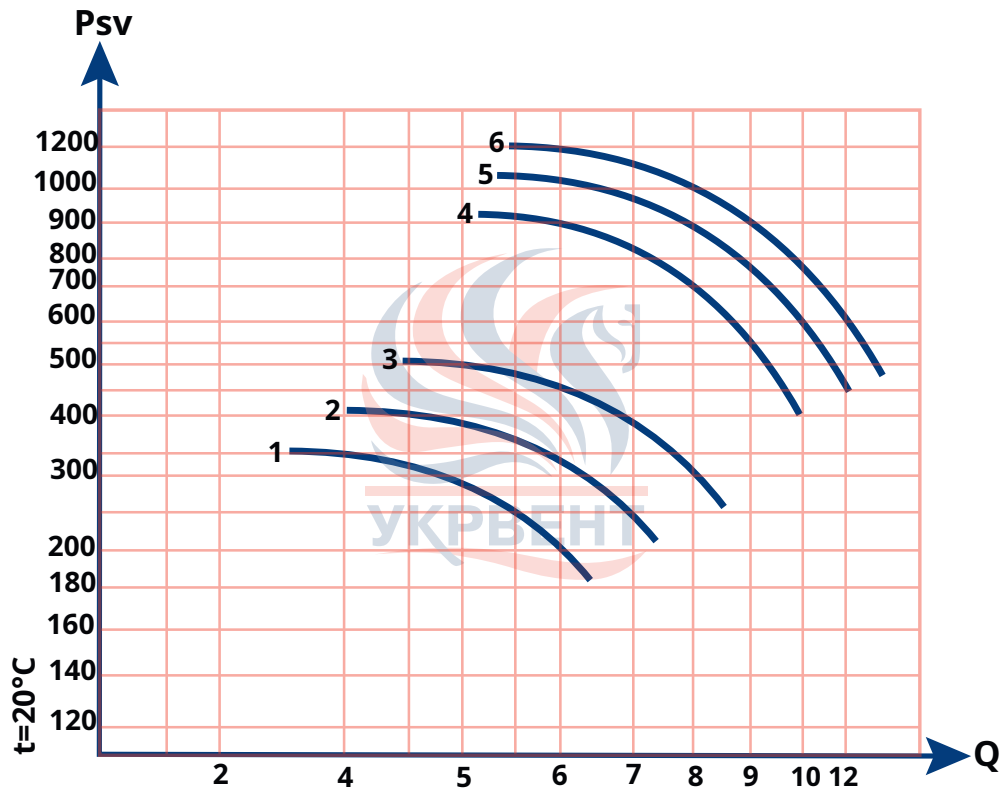
Frequency converter
UVE-810



Vibration isolator RV-30

VR-80-70-5,6

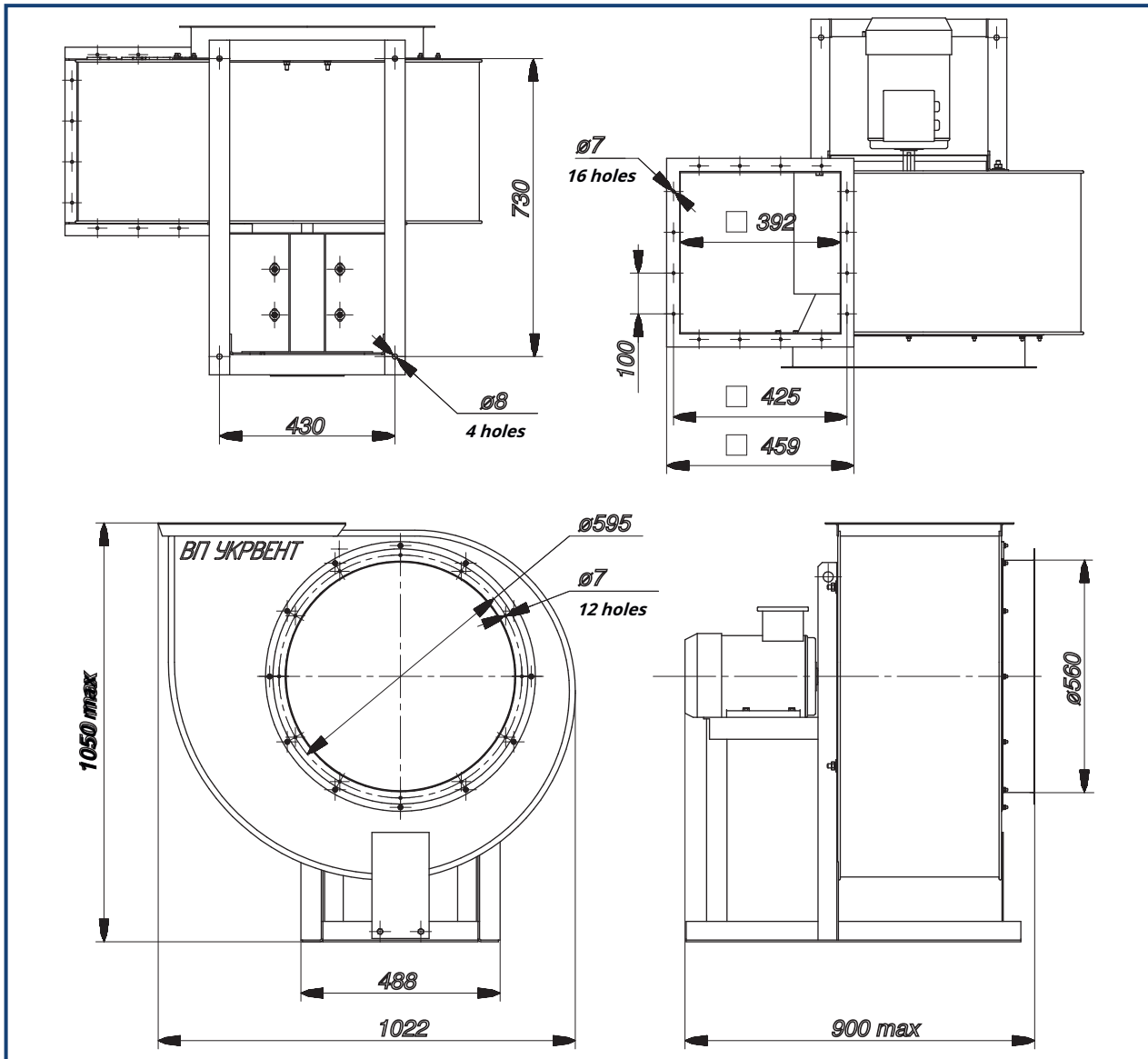
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	0.75	910	2.3	119	86
2	1.1	910	3.2	123	89
3	1.5	920	4.2	128	94
4	2.2	1400	5.3	128	101
5	3	1420	7.2	137	103
6	4	1420	9.3	140	107

VR-80-70-5.6

Overall and connection dimensions of the fan VR-80-70-5.6



Additional equipment



Flexible insert
VK-560



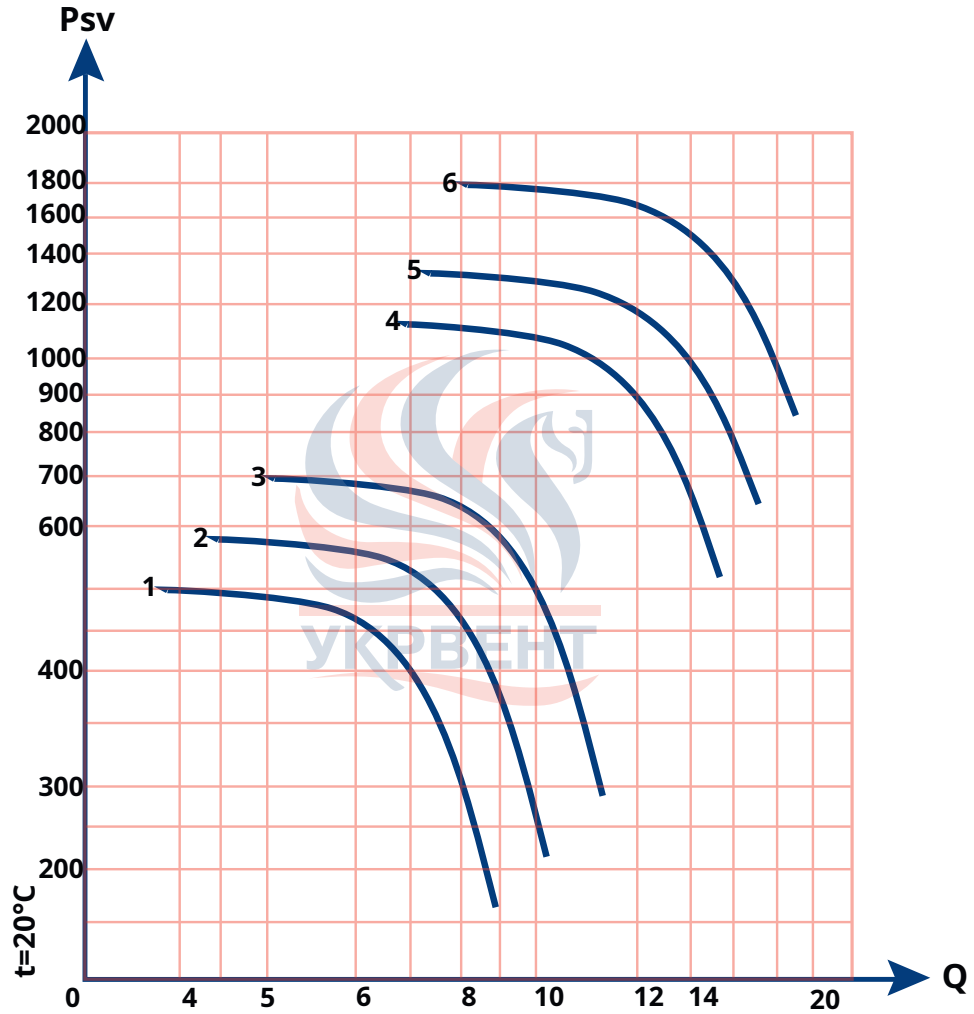
Frequency converter
UVE-810



Vibration isolator RV-30

VR-80-70-6.3

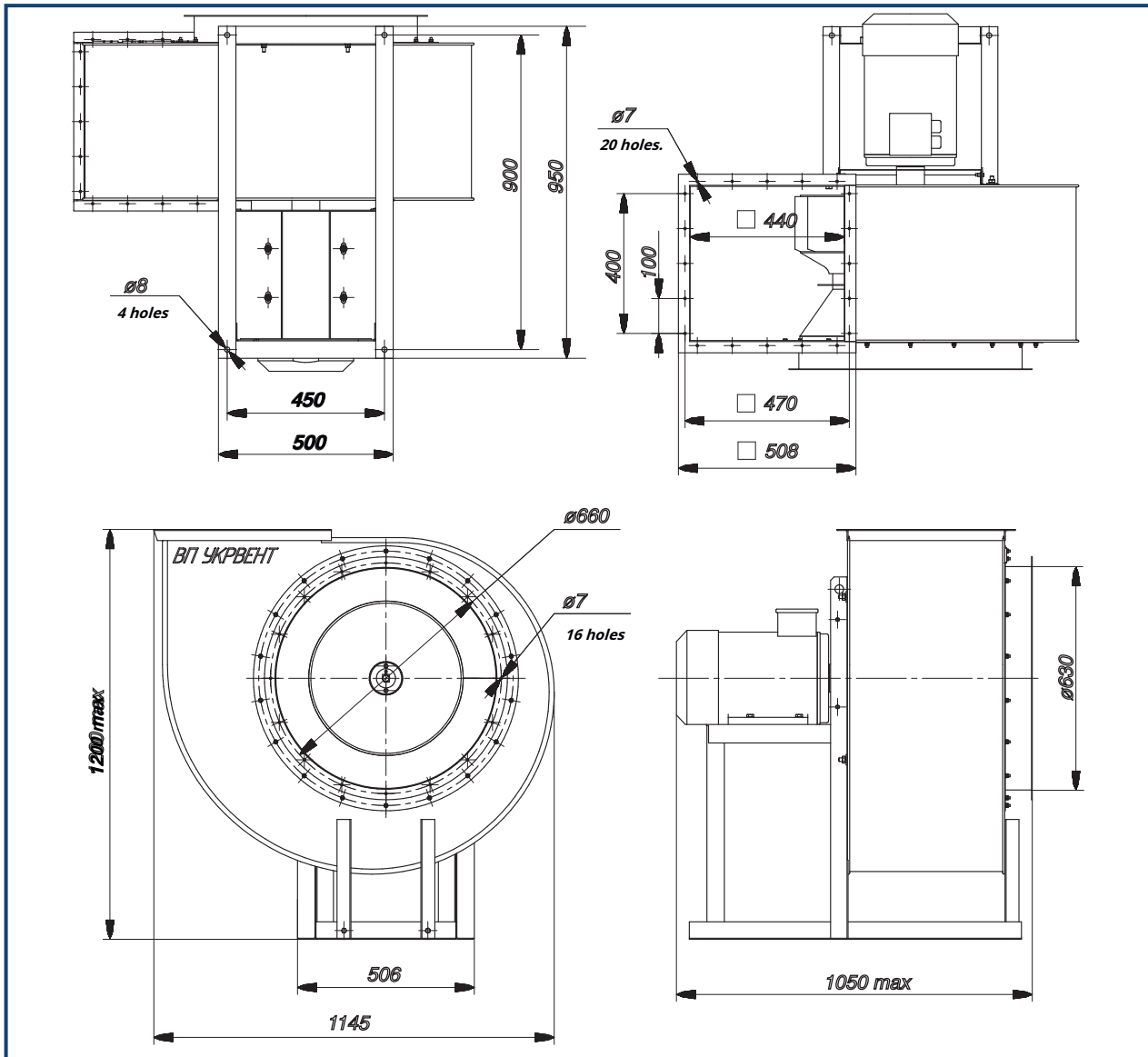
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	1.1	910	3.18	135	87
2	1.5	920	4.2	140	92
3	2.2	930	5.9	153	96
4	4	1420	9.3	152	103
5	5.5	1430	12.3	170	105
6	7.5	1440	16.1	195	107

VR-80-70-6.3

Overall and connection dimensions of the fan VR-80-70-6.3



Additional equipment



Flexible insert
VK-630



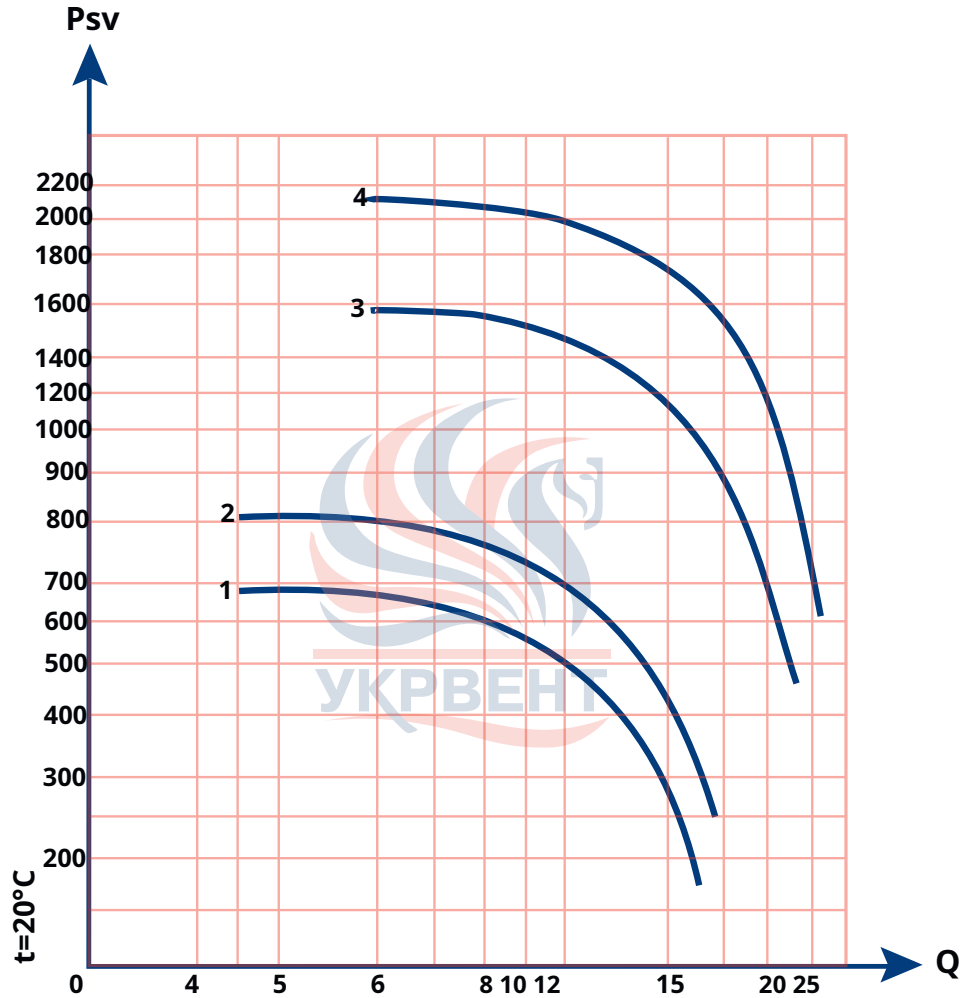
Frequency converter
UVE-810



Vibration isolator RV-40

VR-80-70-7.1

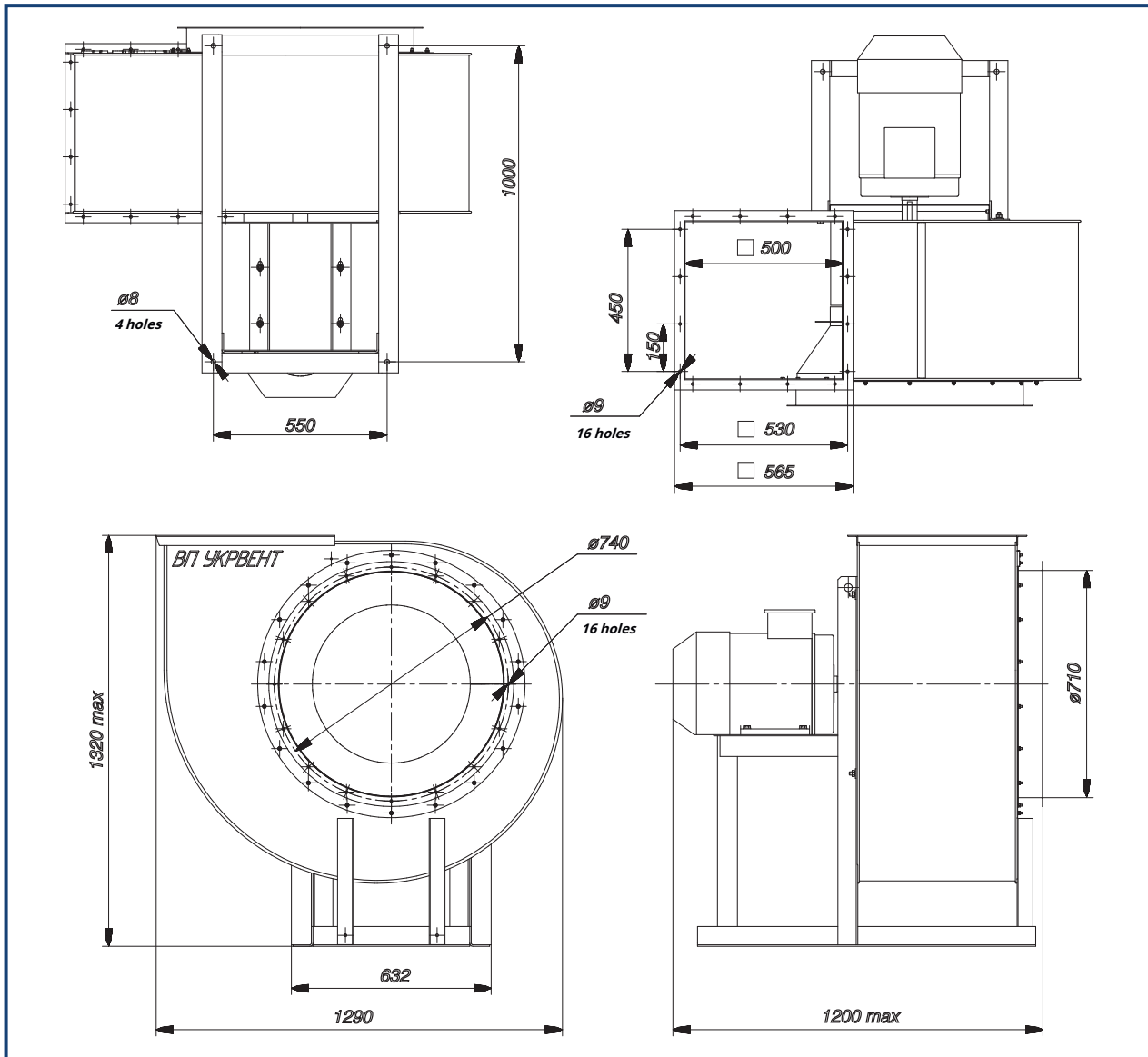
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	2.2	930	5.9	216	94
2	3	935	7.9	229	99
3	7.5	1440	16.1	258	105
4	11	1450	23.1	269	109

VR-80-70-7.1

Overall and connection dimensions of the fan VR-80-70-7.1



Additional equipment



Flexible insert
VK-710



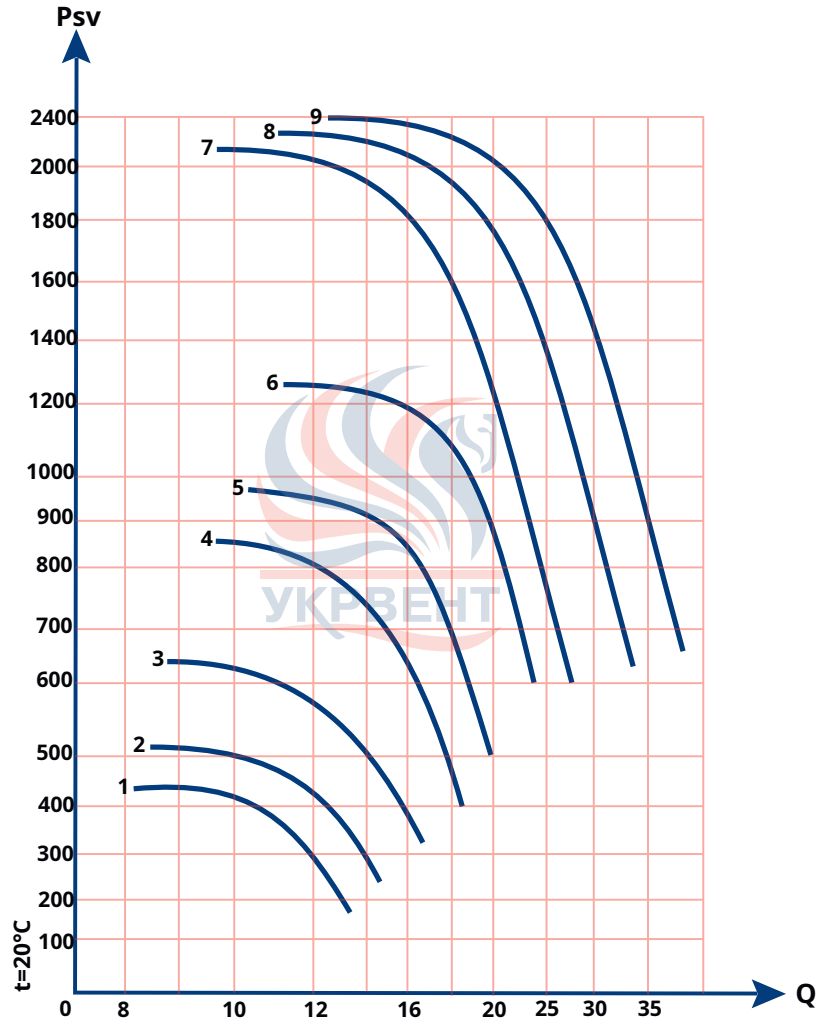
Frequency converter
UVE-810



Vibration isolator RV-40

VR-80-70-8

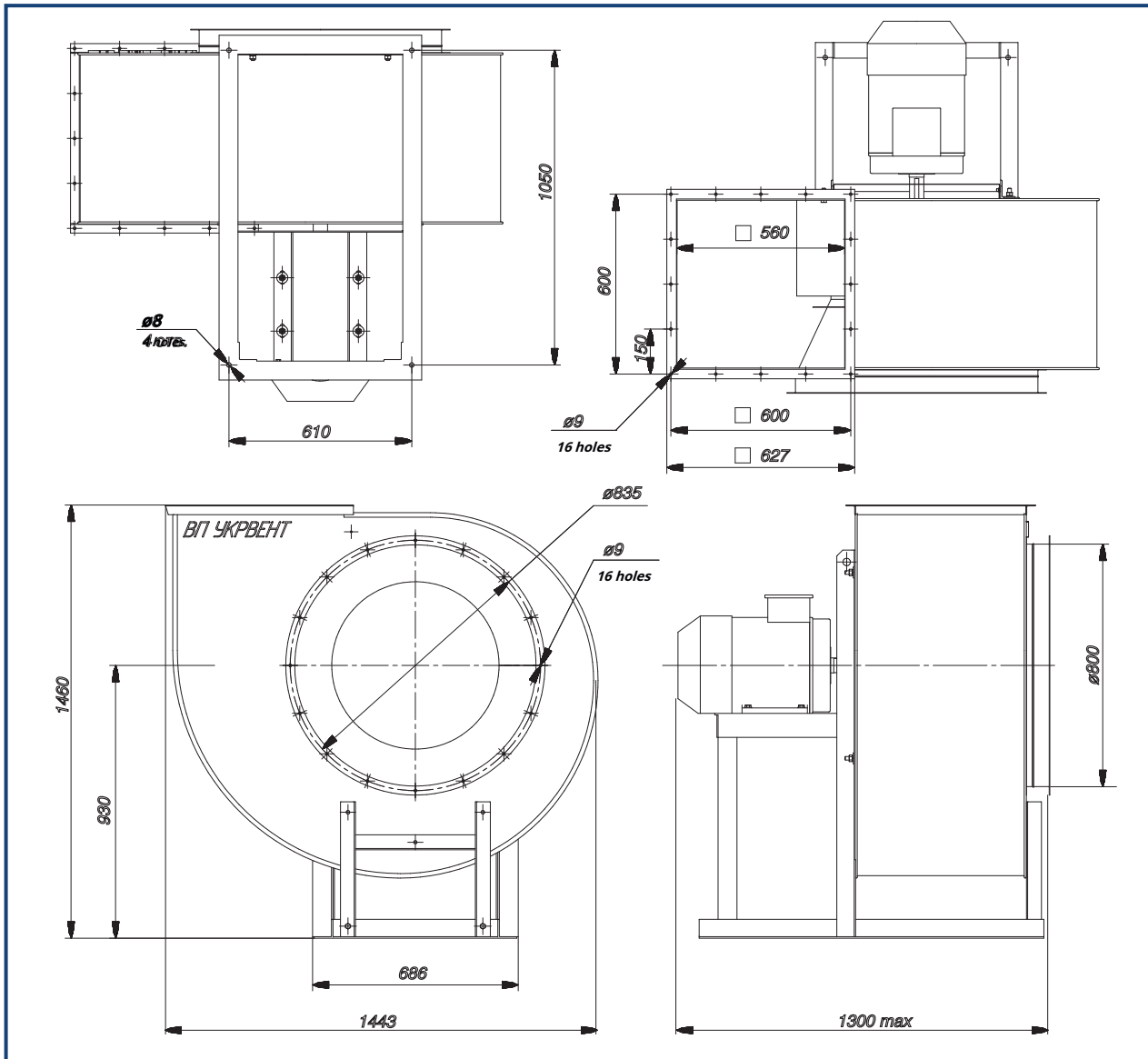
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	1.5	690	4.5	293	92
2	2.2	700	6.4	290	93
3	3	700	8.6	297	95
4	4	935	10.3	296	95
5	5.5	955	13.4	315	97
6	7.5	960	17.2	389	99
7	11	1450	23.1	335	104
8	15	1455	30.8	382	106
9	18.5	1455	37.8	386	109

VR-80-70-8

Overall dimensions and connection dimensions of the VR-80-70-8 fan



Additional equipment



Flexible insert
VK-800



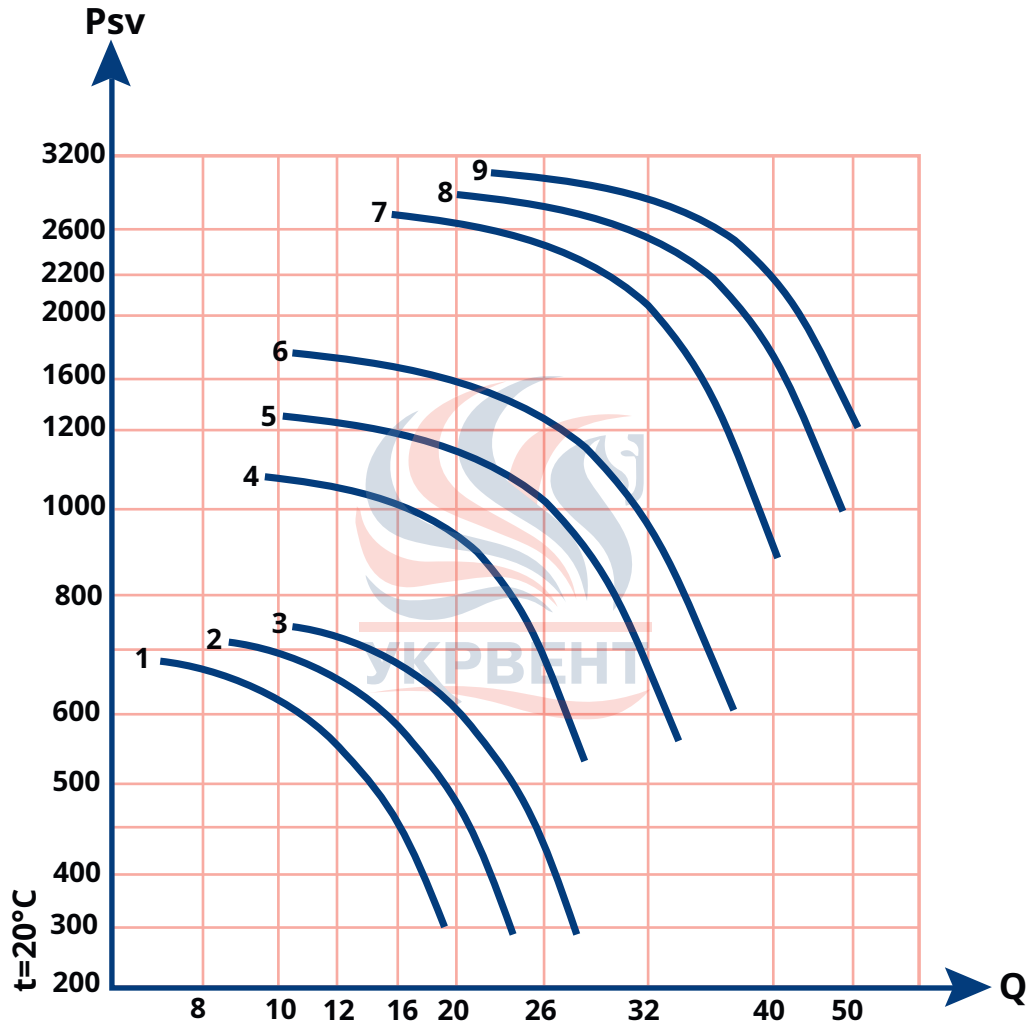
Frequency converter
UVE-810



Vibration isolator RV-40

VR-80-70-9

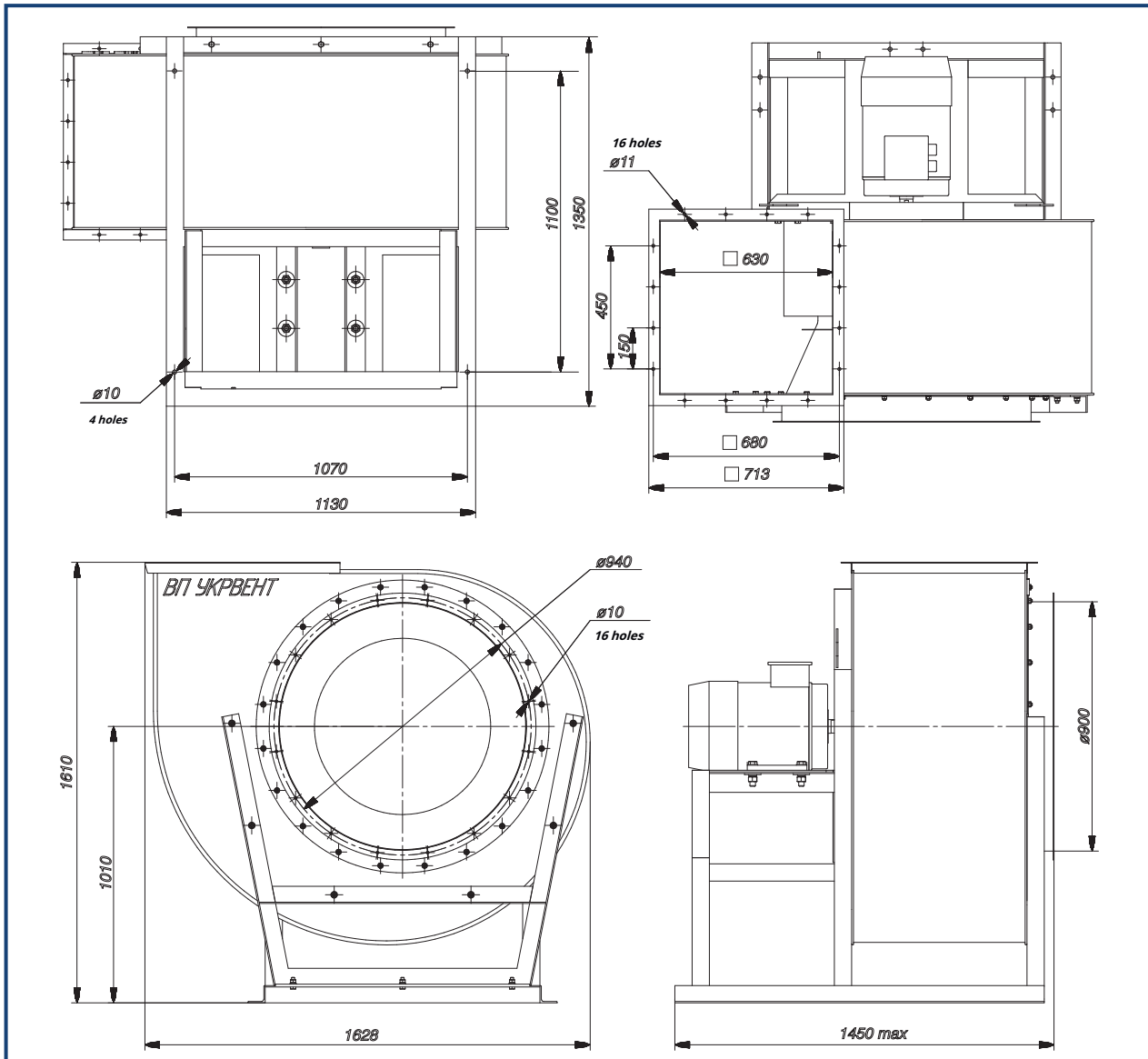
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	3	700	8.6	391	97
2	4	715	10.8	430	99
3	5.5	715	14.7	434	101
4	7.5	960	17.2	483	103
5	11	965	24.6	479	104
6	15	965	33	493	105
7	22	1465	44.4	515	109
8	30	1465	59.6	528	110
9	37	1470	73.1	585	113

VR-80-70-9

Overall dimensions and connection dimensions of the VR-80-70-9 fan



Additional equipment



Flexible insert
VK-900



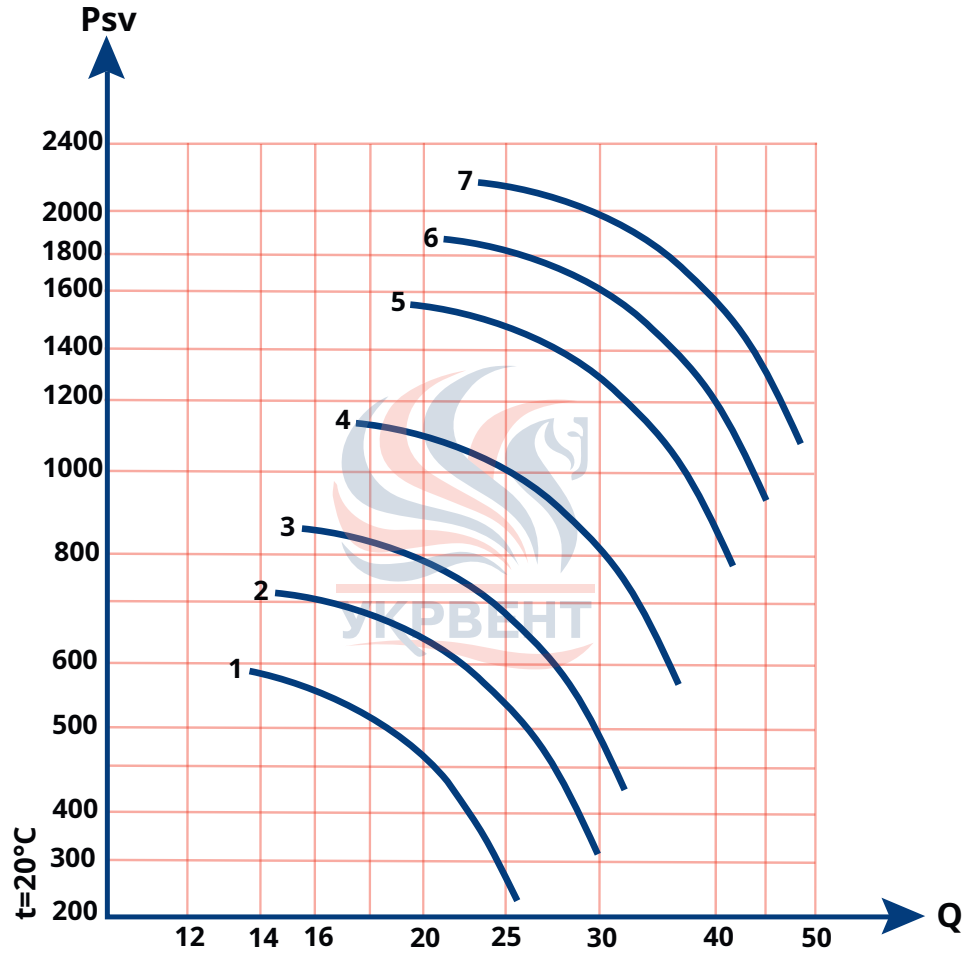
Frequency converter
UVE-810



Vibration isolator RV-50

VR-80-70-10

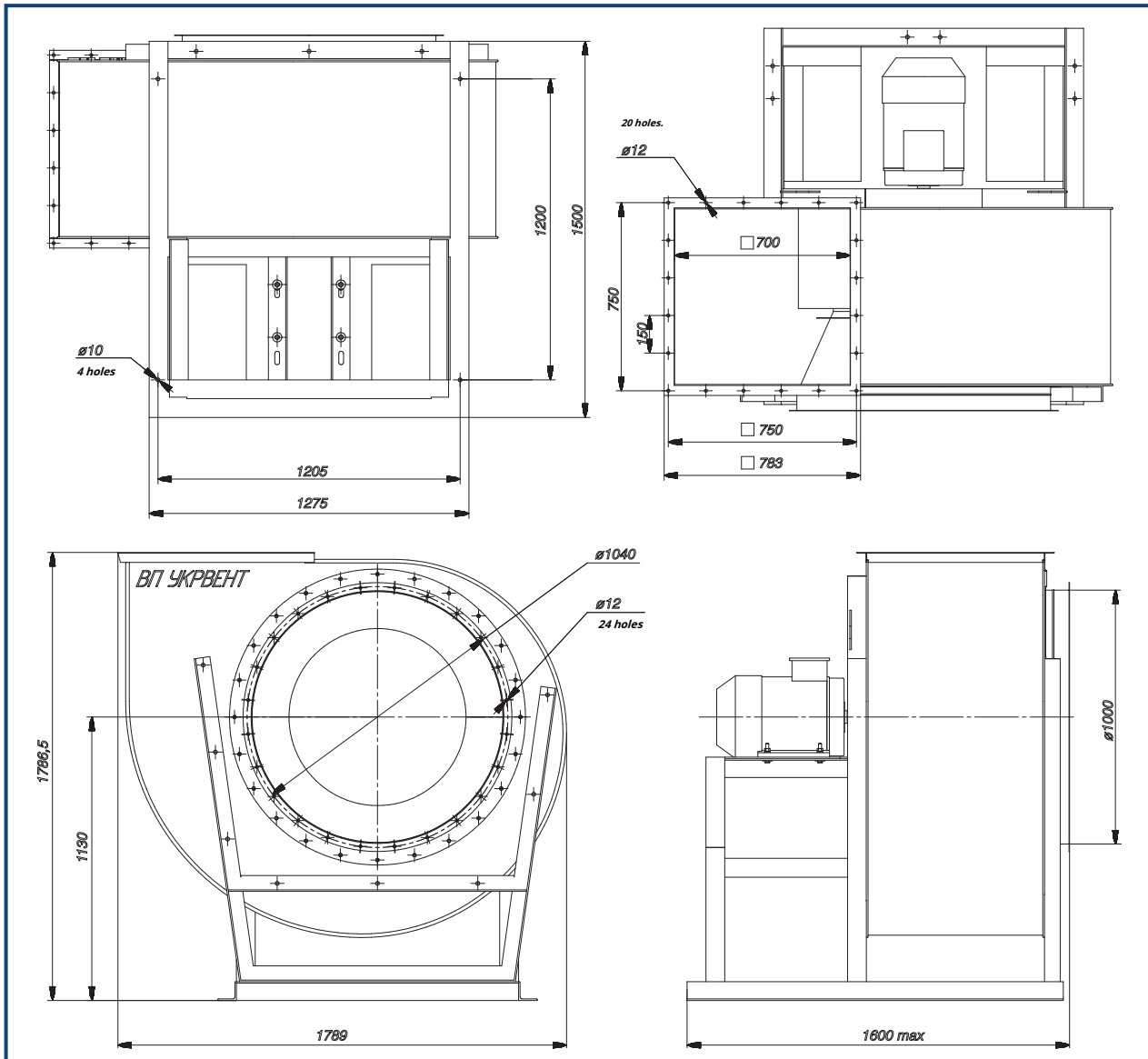
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	4	715	10.8	522	100
2	5.5	715	14.7	516	101
3	7.5	720	19.2	578	103
4	11	720	27.3	585	104
5	15	965	33	585	103
6	18.5	970	39	630	105
7	22	975	45.2	663	106

VR-80-70-10

Overall and connection dimensions of the fan VR-80-70-10



Additional equipment



Flexible insert
VK-1000



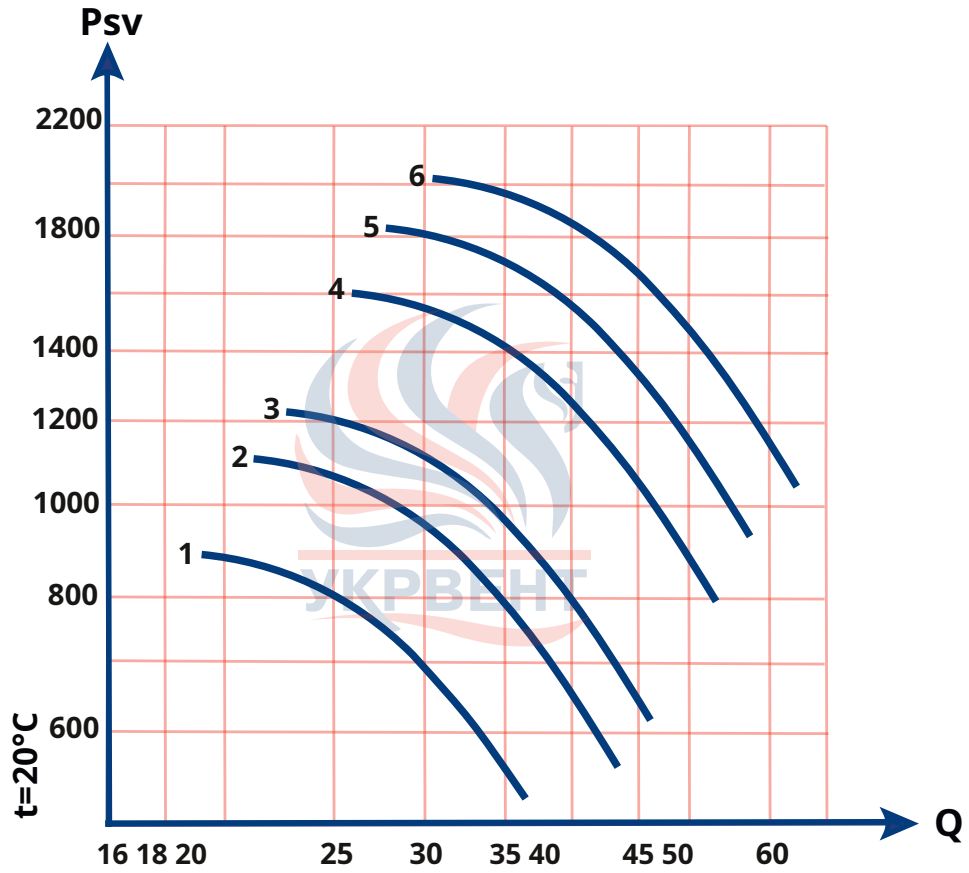
Frequency converter
UVE-810



Vibration isolator RV-50

VR-80-70-11.2

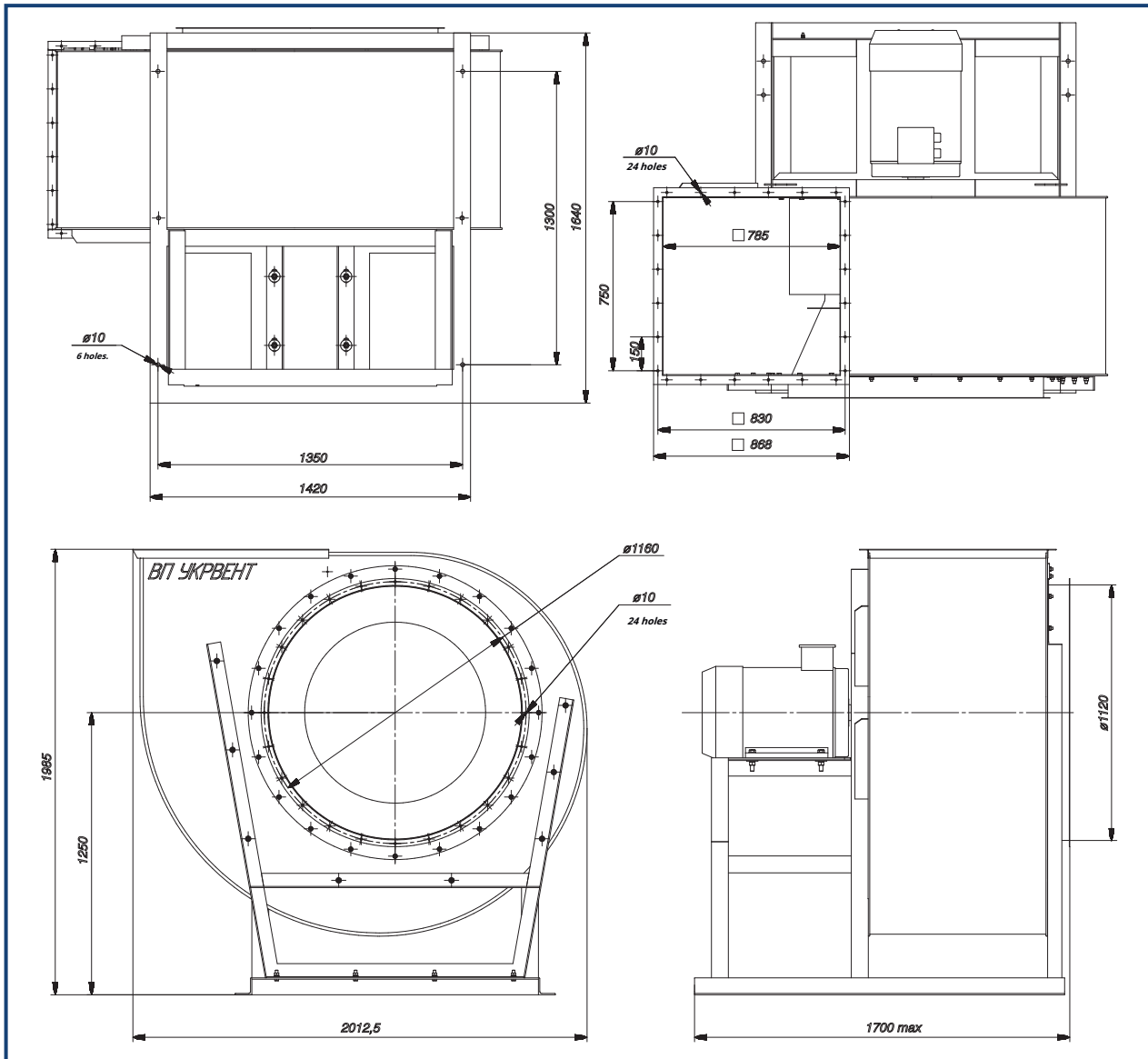
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	7.5	720	19.2	689	103
2	11	720	27.3	696	104
3	15	725	34.5	751	105
4	18.5	970	39	741	106
5	22	975	45.2	774	108
6	30	975	61.8	791	108

VR-80-70-11.2

Overall and connection dimensions of the fan VR-80-70-11.2



Additional equipment



Flexible insert
VK-1120



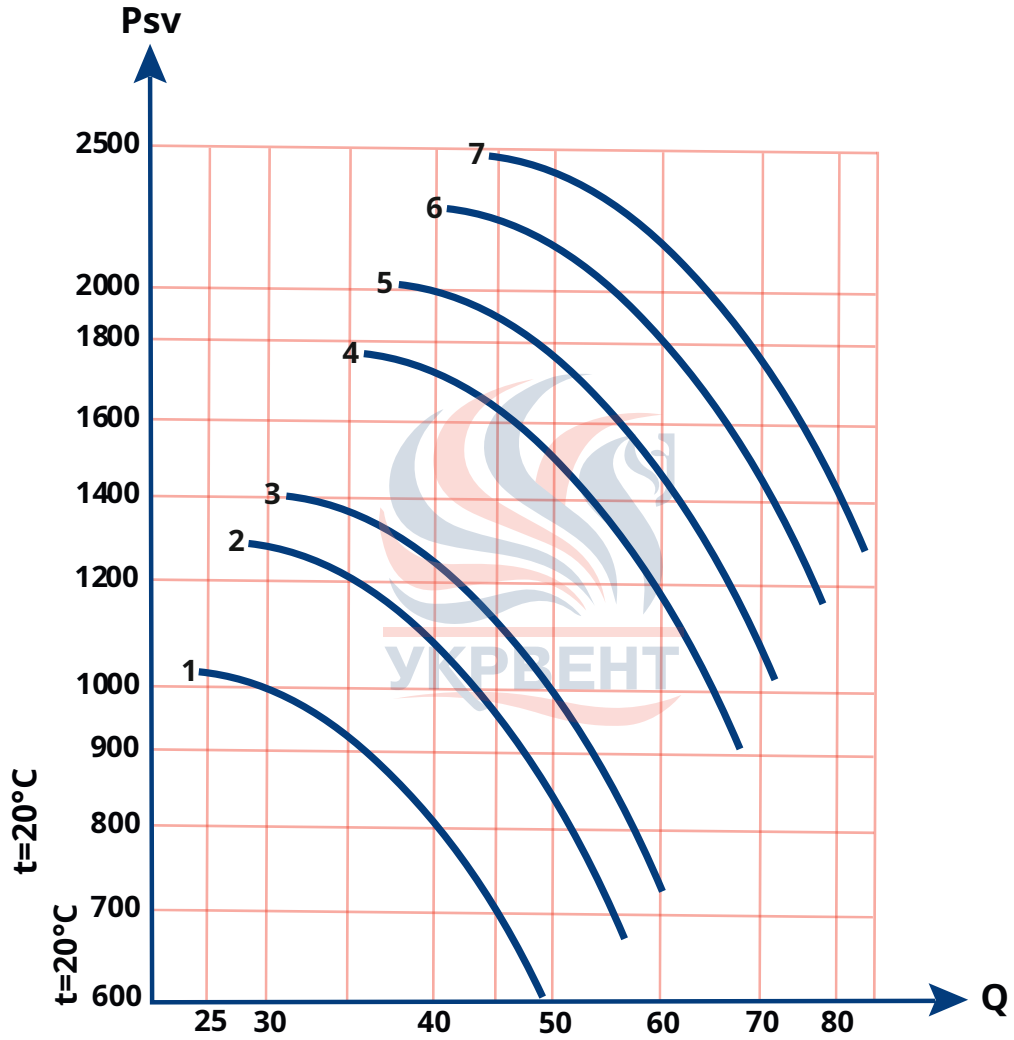
Frequency converter
UVE-810



Vibration isolator RV-50

VR-80-70-12.5

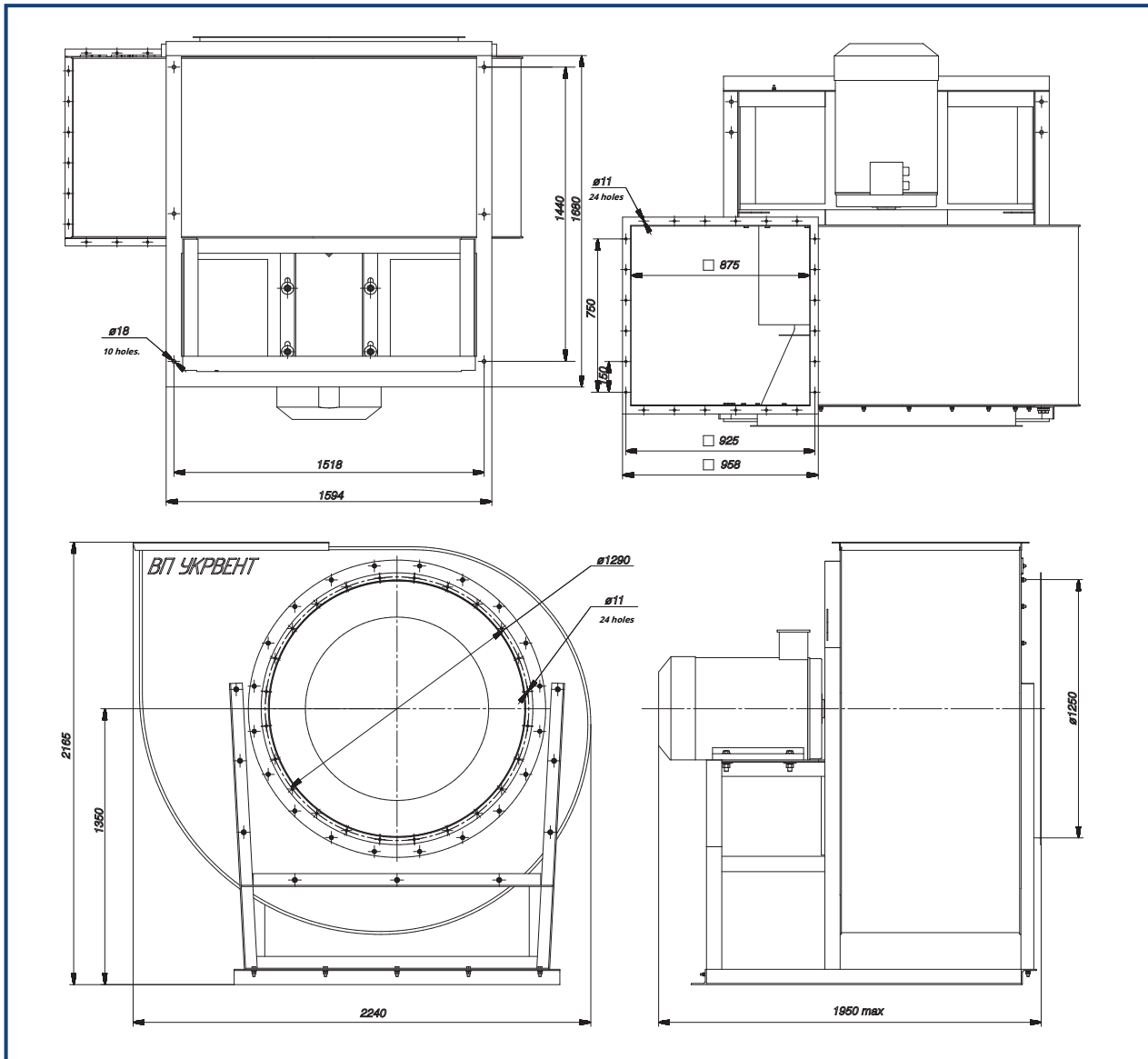
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	15	725	34.5	855	101
2	18.5	730	41.6	895	102
3	22	730	49.4	905	104
4	30	735	65.3	1005	106
5	37	980	73.5	1005	106
6	45	985	90.1	1110	107
7	55	985	110	1165	107

BP-80-70-12.5

Overall and connection dimensions of the fan VR-80-70-12.5



Additional equipment



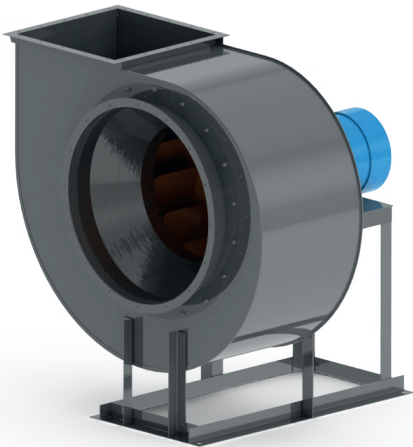
Flexible insert
VK-1250



Frequency converter
UVE-810



Vibration isolator RV-50



medium pressure radial **VR-280-46** For ventilation systems, air heating and other and sanitary-technical purposes and are used for air and other gas mixtures in conditions of low ambient temperature from minus 40°C, which do not contain sticky substances, abrasive materials with dustiness (content of impurities) not more than 100 mg/m^{with}. The temperature of wind flows should not exceed 80°C. The properties of air masses and other gas carbon steel, from which the main parts are made,

fan **VR-280-46** should not and aggressiveness of the air.

Technical characteristics of VR-280-46:

- * used in stationary exhaust or supply ventilation systems;
- * air capacity from 250 m^{with}/h up to 75000 m^{with}/hour;
- * static pressure from 150 Pa to 2700 Pa;
- * one-sided suction;
- * number of blades - 32 units;
- * average pressure;
- * spiral rotating housing;
- * direction of rotation - right and left.

Fans are designed to operate in moderate (U) climate conditions of the 1st location category of GOST 15150. Ambient temperature from -40°C to +40°C.

The average vibration velocity of external vibration sources at the fan installation locations is slightly more than 2 mm/s.

The aerodynamic characteristics of the fans are presented in graphs, where:

Q is the air capacity m³/hour 10³;

P_{sv} - static pressure at p = 1.2 kg/m^{with} and t = 20°C air;

Fan pressure **P_{sv}** and power consumption by the electric motor **N**, at a different density **p** of the transported medium or other air temperature **t** can be calculated according to the following formulas:

$$P_{sv_p} = (p / p_0) * P_{sv_0} \quad N_p = (p / p_0) * N \quad N_t = [293 / (273 + t)] * P_{sv_0} \quad [293 / (273 + t)] * N$$

Marking

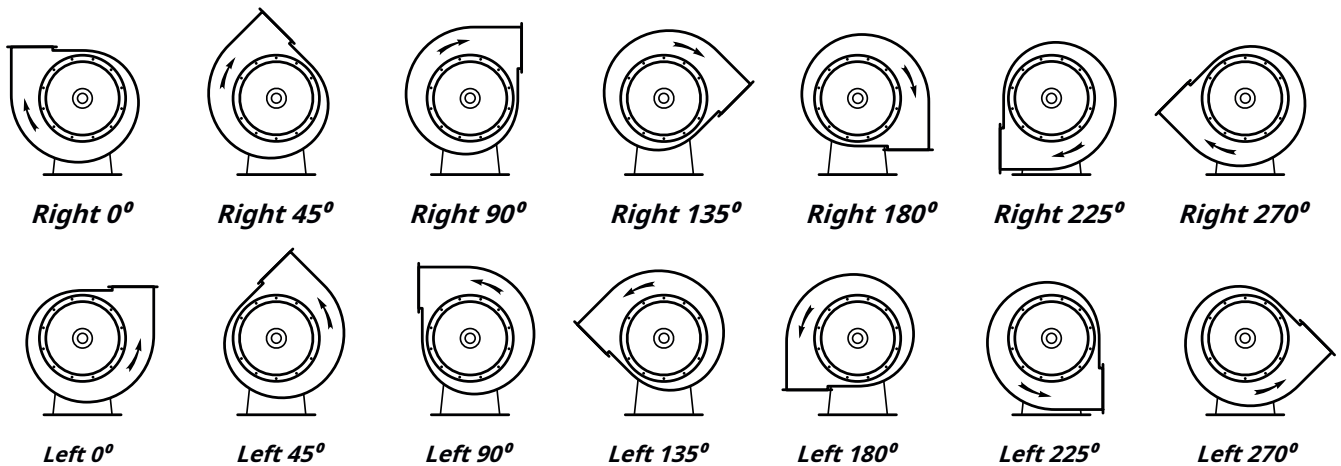
Example:

Radial fan VR-280-46; number 4; general industrial version; temperature moving air up to 80°C; housing position right 0°; electric motor with installed power $N_y=3$ kW, rotation speed $n=1500$ rpm.

VR-280-46 - 4 - O - 80° - Right.0° - 4/1500

Fan type: VR-280-46				
Fan number: 2.5; 3.15; 4; 5; 6.3; 8; 10;				
Appointment: O - general industrial; G - heat-resistant; K - corrosion-resistant (specify the brand of stainless steel); VZI - explosion-proof;				
Temperature of the transported air, °C: 80 (O); 200 (G);				
Fan housing position: Left/Right -0°; 45°; 90°; 135°; 180°; 270°; 315°;				
Electric motor parameters, N_y/n : N_y - power, kW; n - synchronous speed, rpm (750; 1000; 1500; 3000);				

Fan housing position options

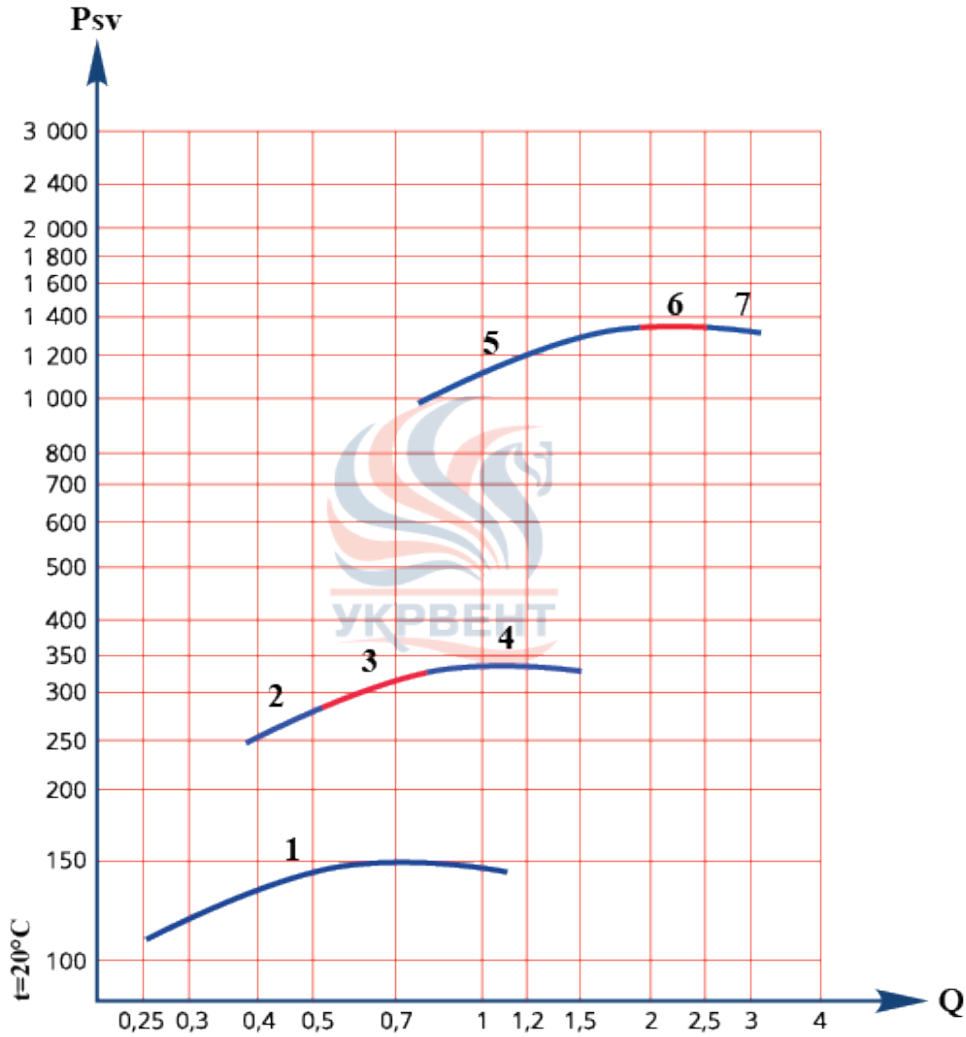


WARNING!

The fans are equipped with a three-phase electric motor as standard, in case
 If necessary, it is possible to install a single-phase electric motor.

VR-280-46-2.5

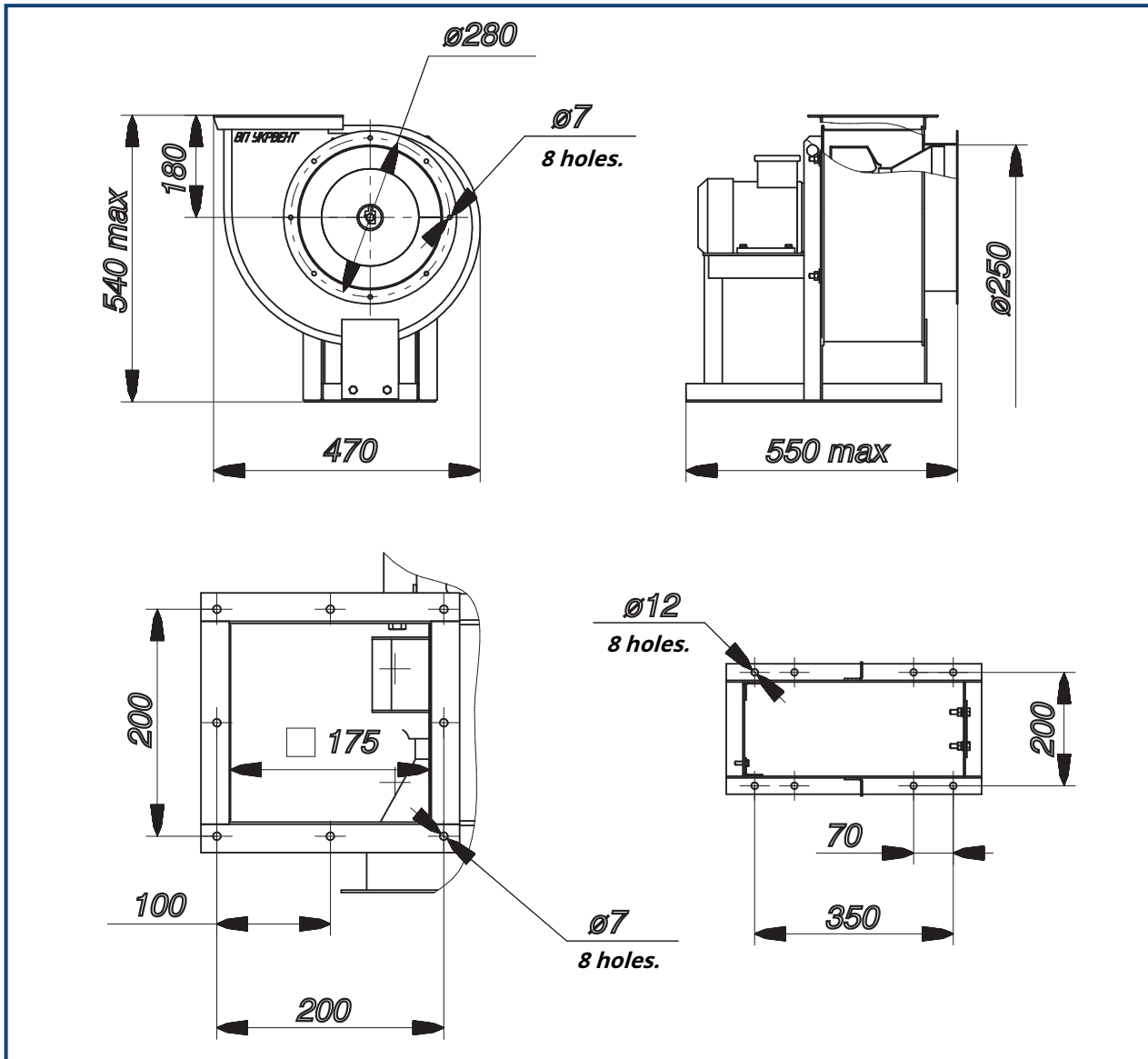
Aerodynamic characteristics






Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	0,12	930	0,53	25	75
2	0,12	1325	0,53	26	80
3	0,18	1325	0,73	27	80
4	0,37	1325	1,12	28	80
5	1,1	2840	2,6	36	103
6	1,5	2850	3,16	38	103
7	2,2	2855	4,85	40	103

BP-280-46-2.5

Overall and connection dimensions of the fan VR-280-46-2.5

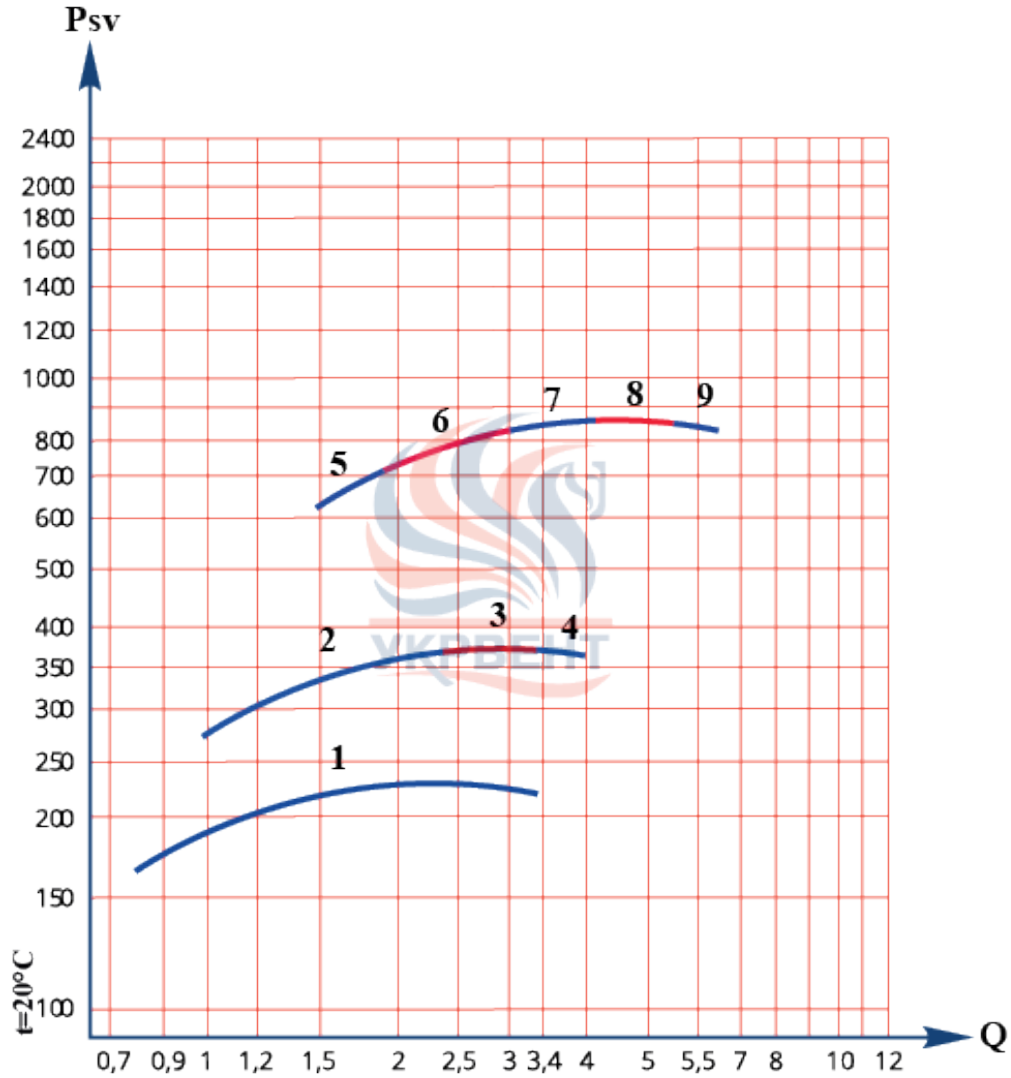


Additional equipment

		
<p>Flexible insert VK-250</p>	<p>Frequency converter UVE-810</p>	<p>Vibration isolator RV-30</p>

VR-280-46-3,15

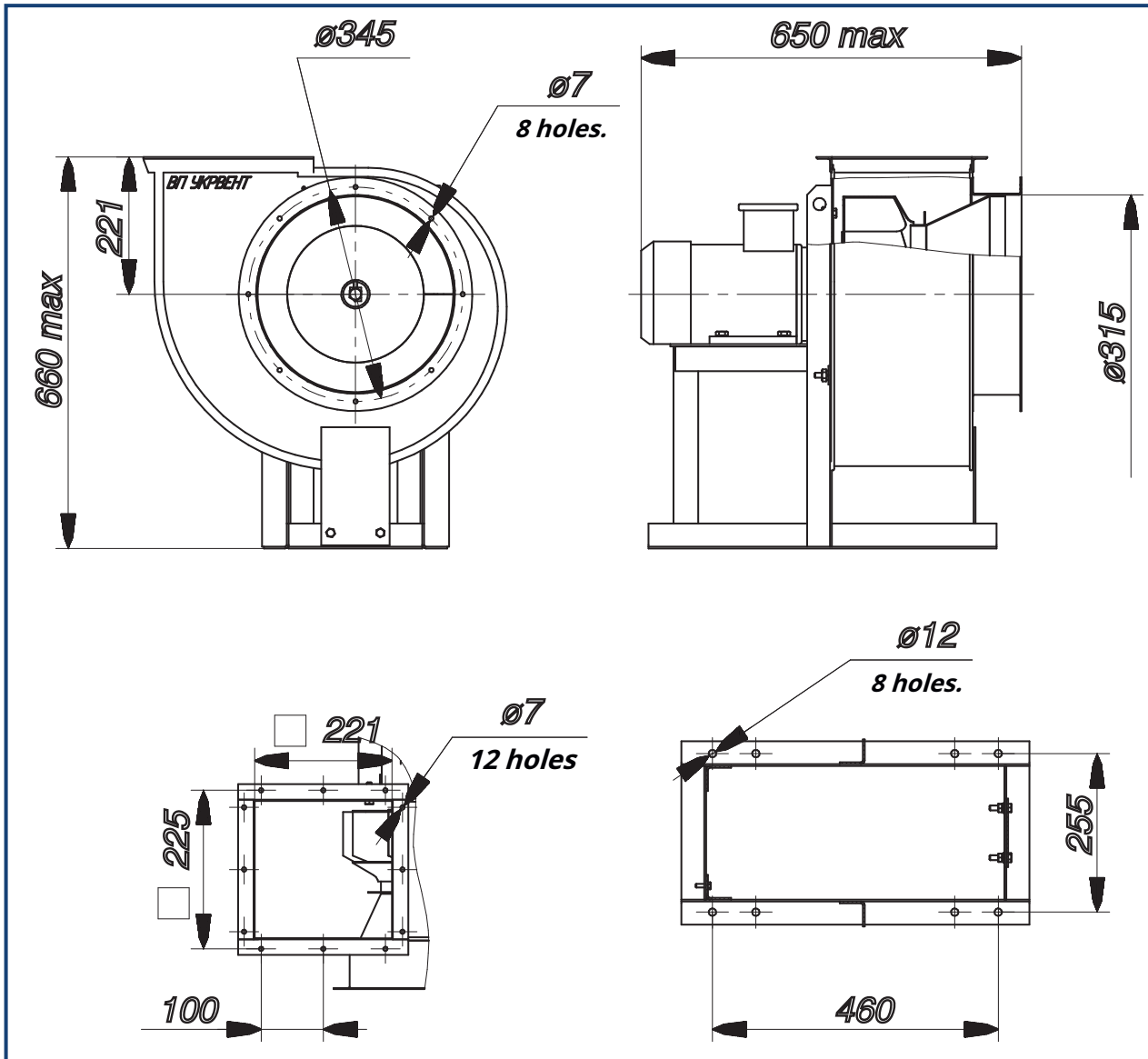
Aerodynamic characteristics



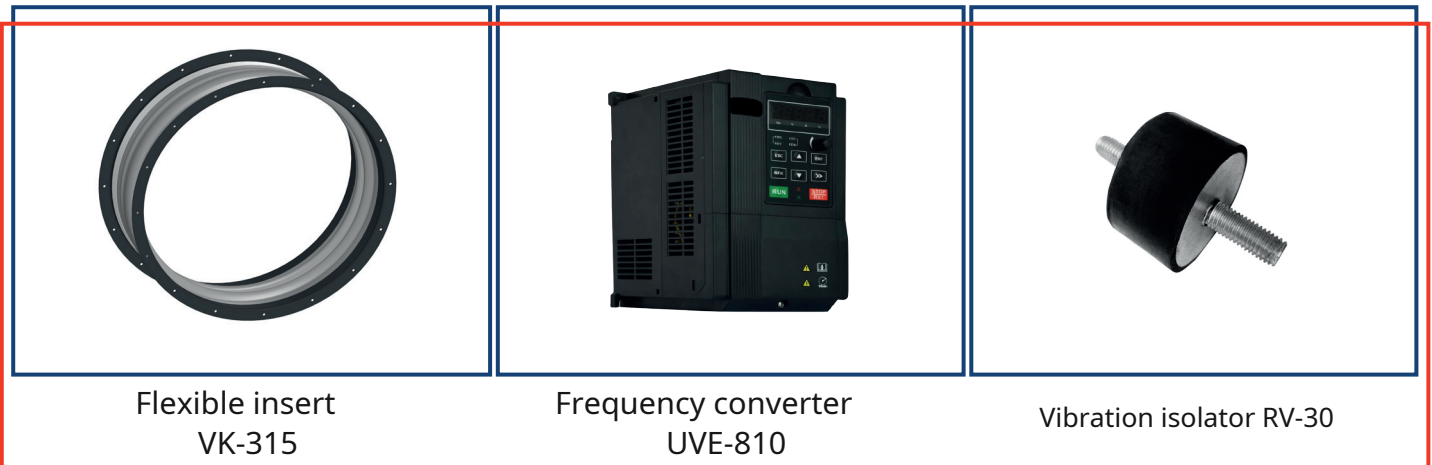
Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	0,37	675	1,49	48,9	80
2	0,37	880	1,3	38,9	84
3	0,55	880	1,8	39,7	84
4	0,75	905	2,3	46,5	84
5	0,75	1390	2,05	38,5	86
6	1,1	1390	2,85	42,5	86
7	1,5	1400	3,75	46	86
8	2,2	1410	5,1	51,5	86
9	3	1410	6,8	58,5	86

VR-280-46-3,15

Overall and connection dimensions of the fan VR-280-46-3.15

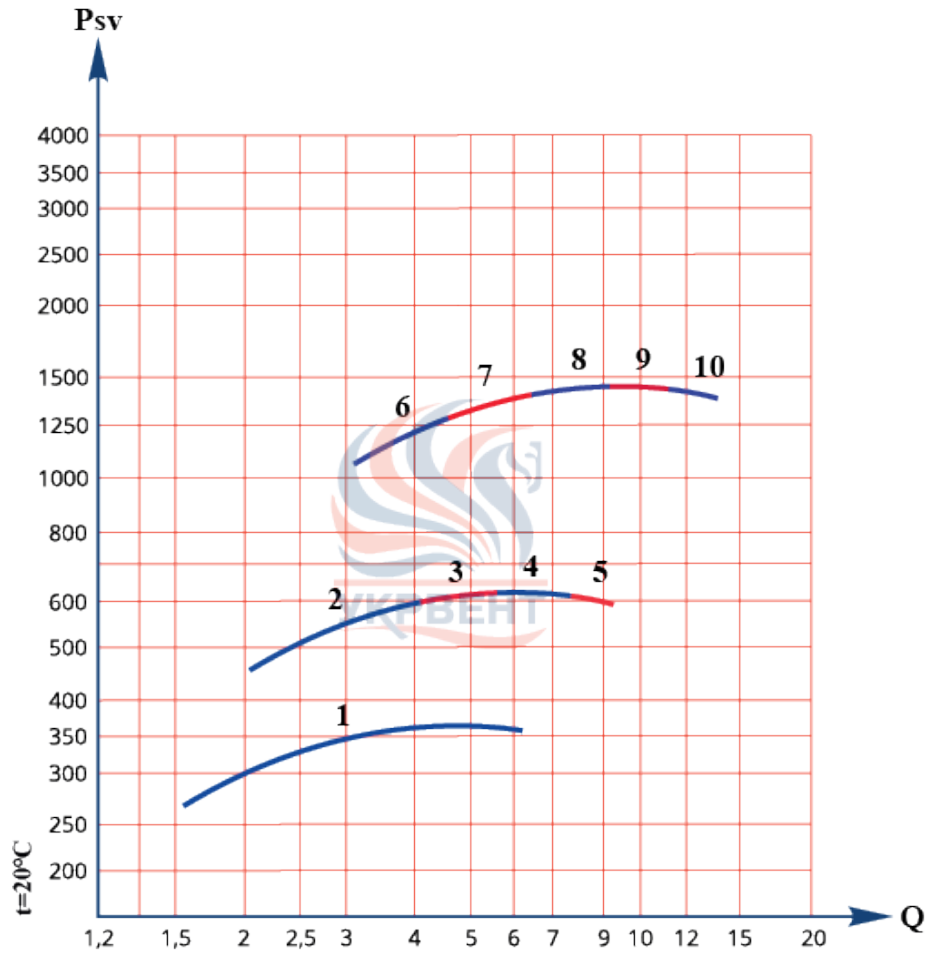


Additional equipment



VR-280-46-4

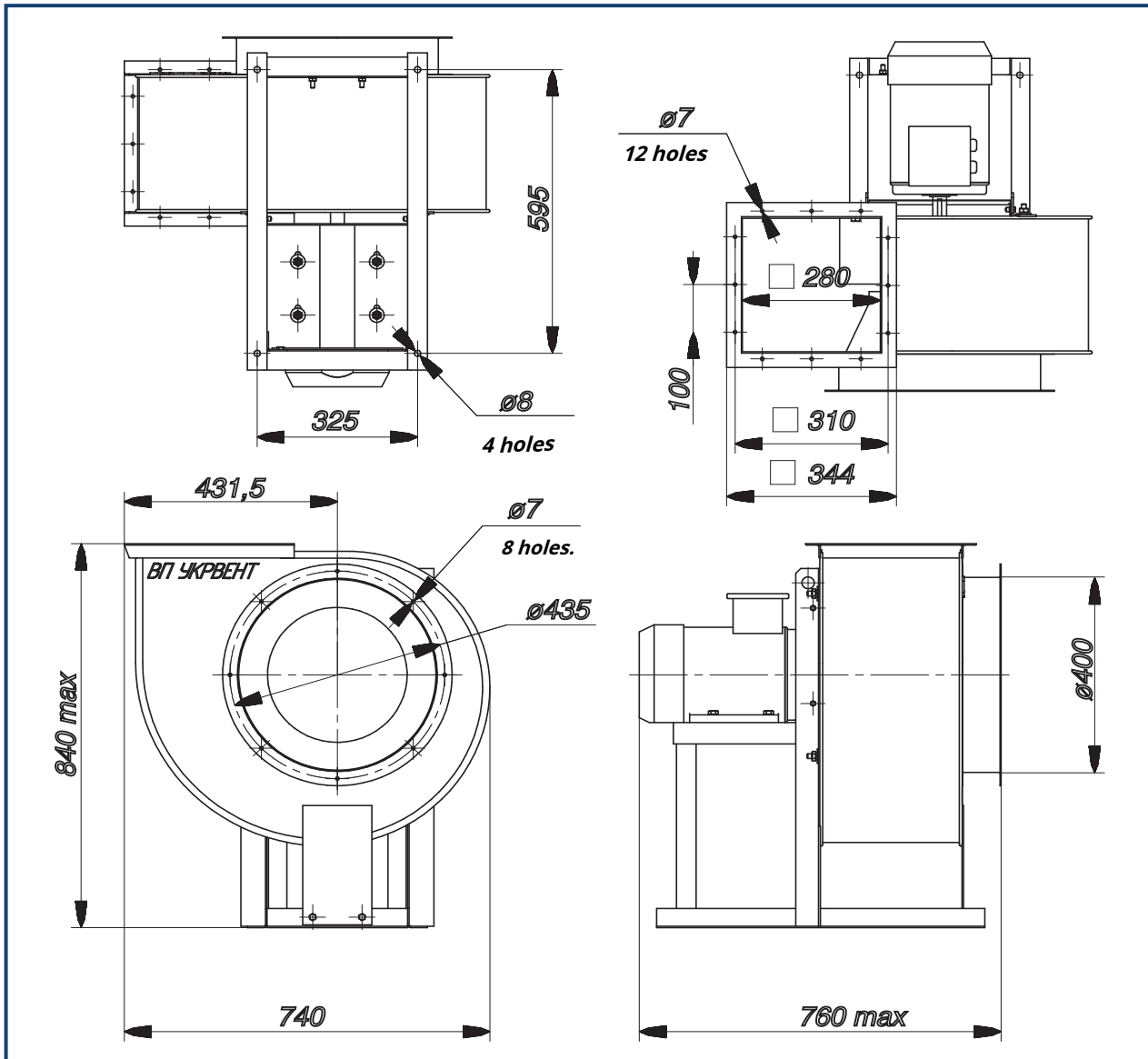
Aerodynamic characteristics



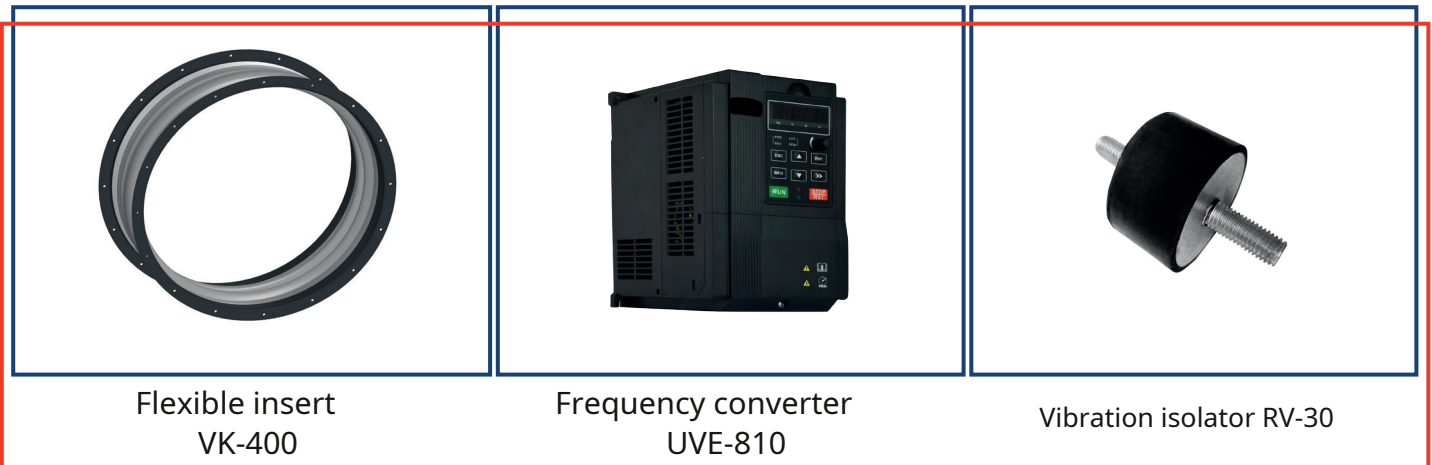
Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	1,1	680	3,36	68	85
2	1,1	905	3,2	60,4	93
3	1,5	920	4	65,4	93
4	2,2	935	5,6	74,4	93
5	3	960	7,4	79,4	93
6	3	1410	6,8	71,9	101
7	4	1435	8,8	73,9	101
8	5.5	1440	11.7	83.9	101
9	7.5	1450	15.6	104.4	101
10	11	1460	22.5	117.9	101

VR-280-46-4

Overall and connection dimensions of the fan VR-280-46-4

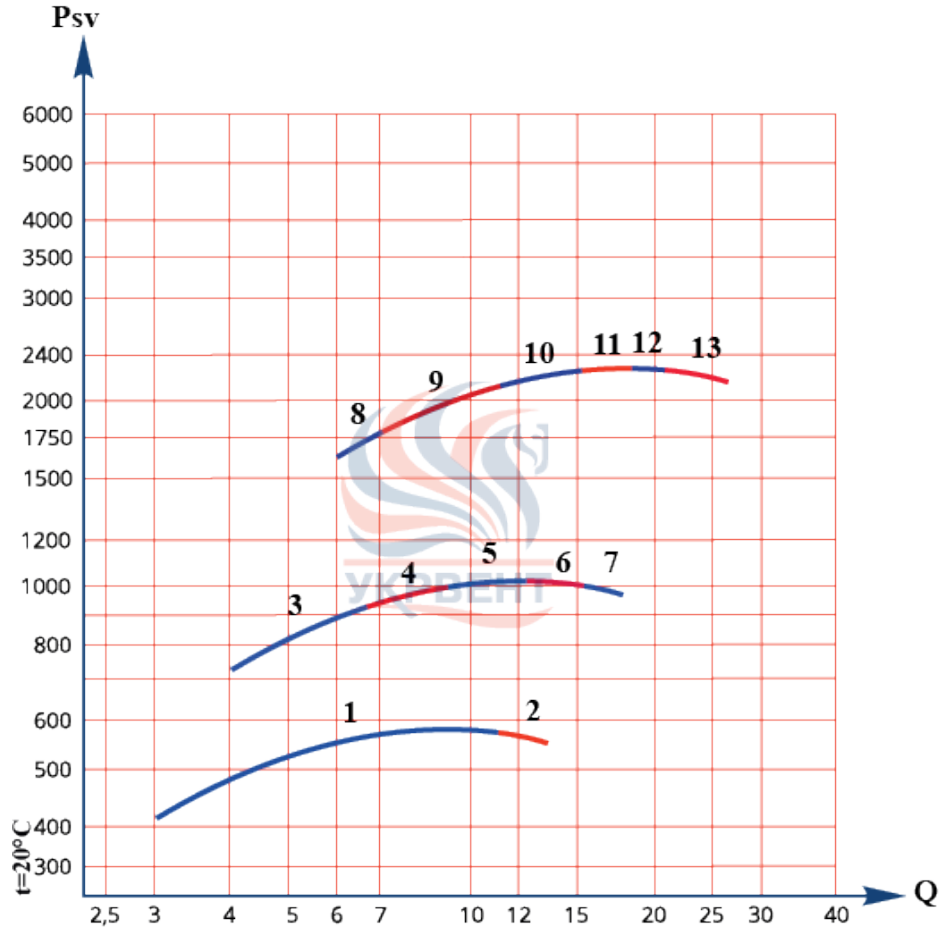


Additional equipment



VR-280-46-5

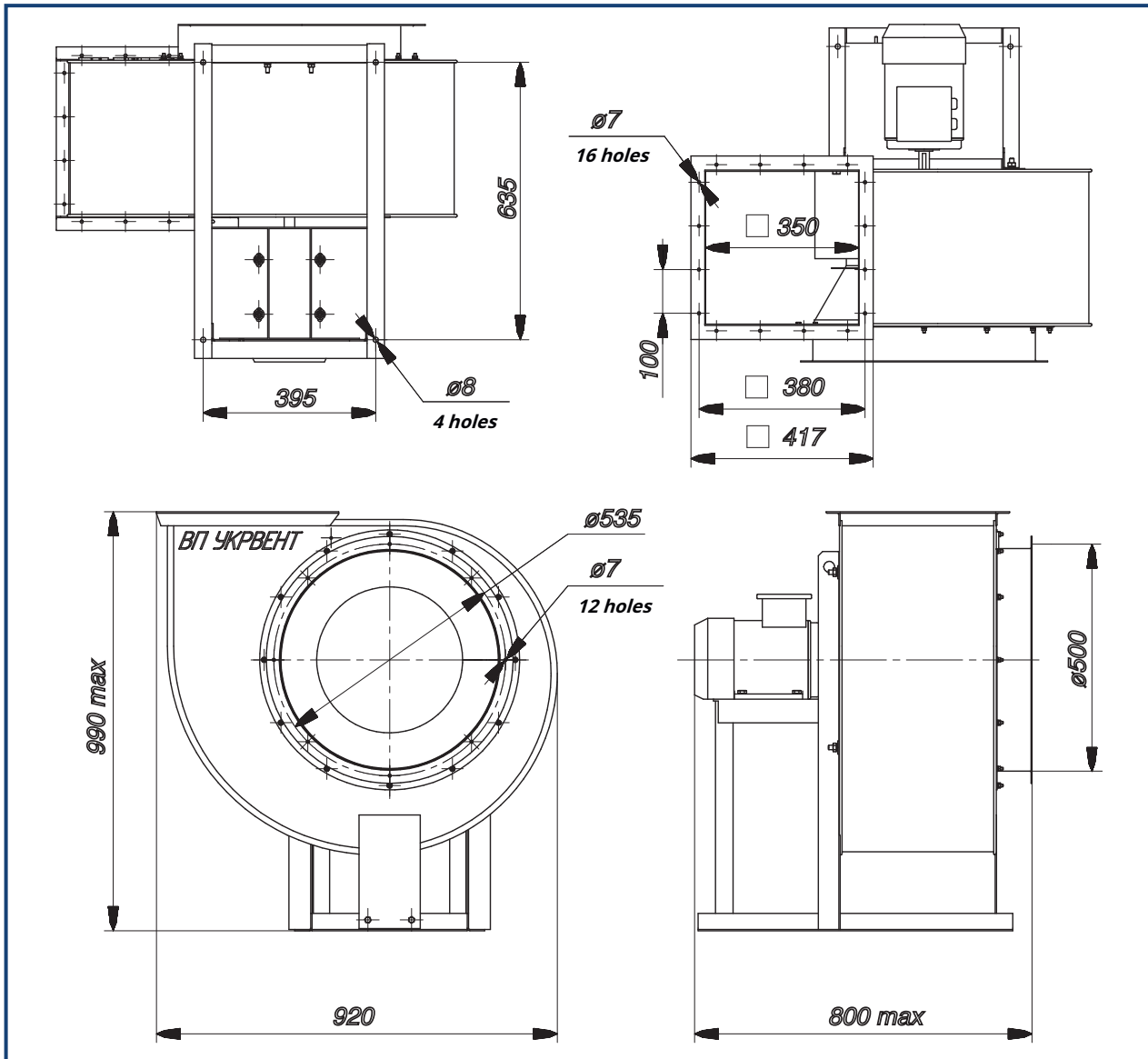
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	3	700	8.6	137.5	90
2	4	715	10.8	167	90
3	3	935	7.9	135	97
4	4	935	10.3	136	97
5	5.5	955	13.4	155	97
6	7.5	960	17.2	229	97
7	11	965	24.6	235	97
8	7.5	1450	15.6	150.5	109
9	11	1450	23.1	170.5	109
10	15	1455	30.8	222	109
11	18.5	1455	37.8	226	109
12	22	1465	44.4	261	109
13	30	1465	59.6	274	109

VR-280-46-5

Overall and connection dimensions of the fan VR-280-46-5



Additional equipment



Flexible insert
VK-500



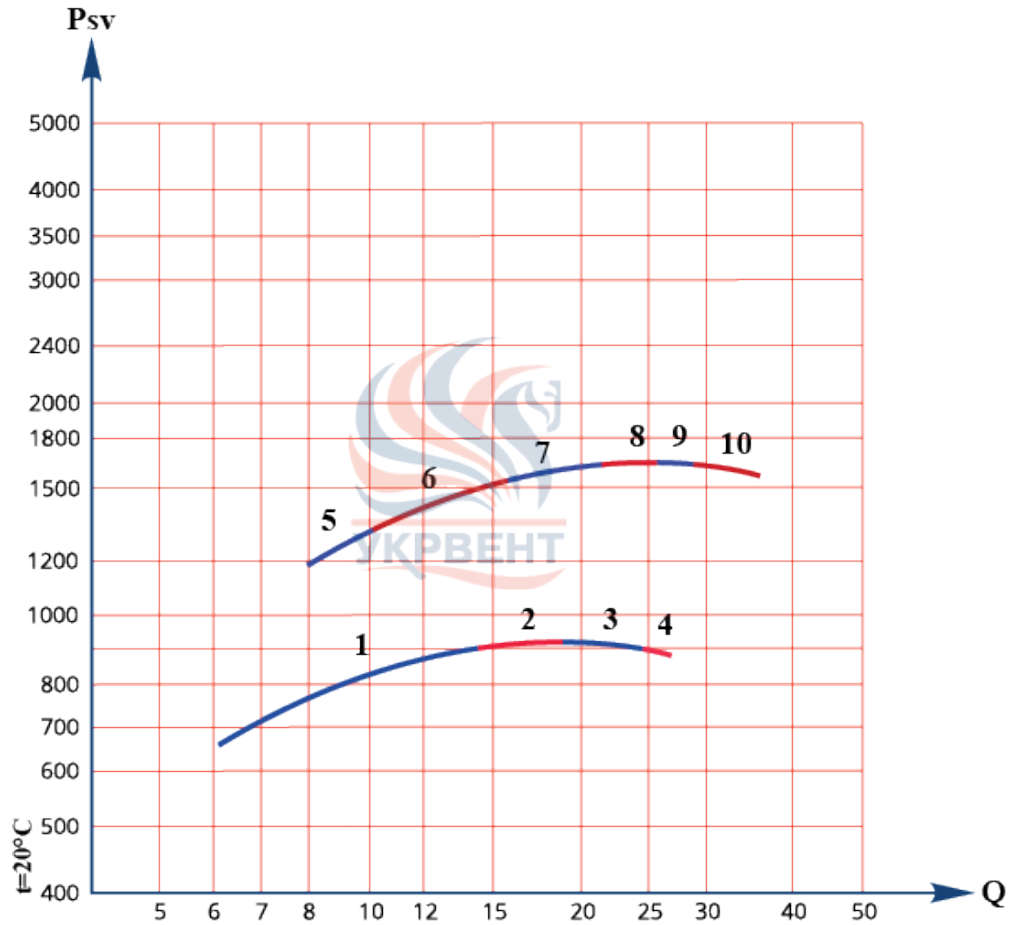
Frequency converter
UVE-810



Vibration isolator RV-30

VR-280-46-6.3

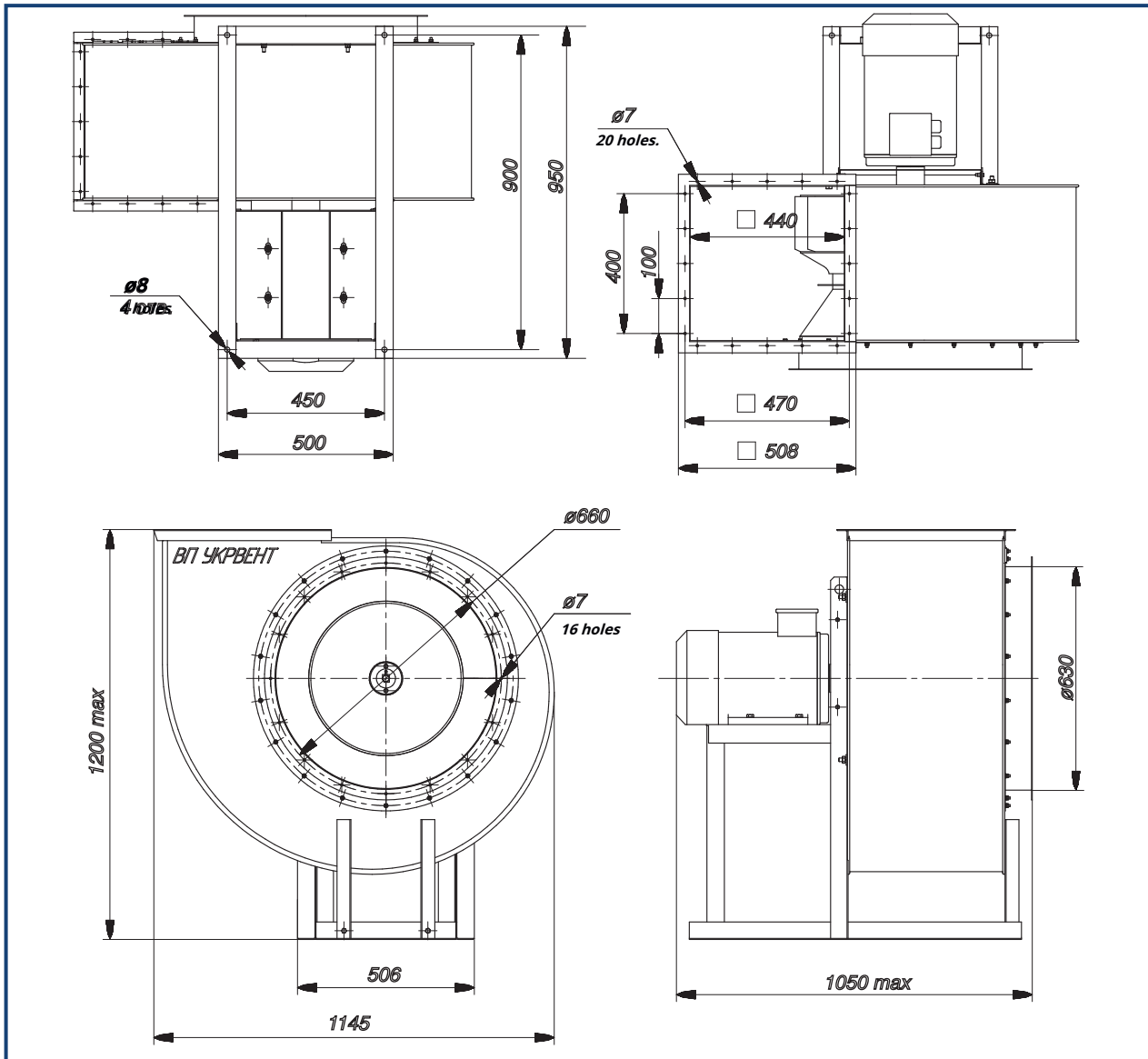
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	5.5	715	14.7	224	93
2	7.5	720	19.2	276	93
3	11	720	27.3	283	93
4	15	730	34.1	308	93
5	7.5	965	17.2	242	99
6	11	965	24.6	269	99
7	15	965	33	283	99
8	18.5	970	39	328	99
9	22	975	45.2	361	99
10	30	975	61.8	378	99

VR-280-46-6.3

Overall and connection dimensions of the fan VR-280-46-6.3



Additional equipment



Flexible insert
VK-630



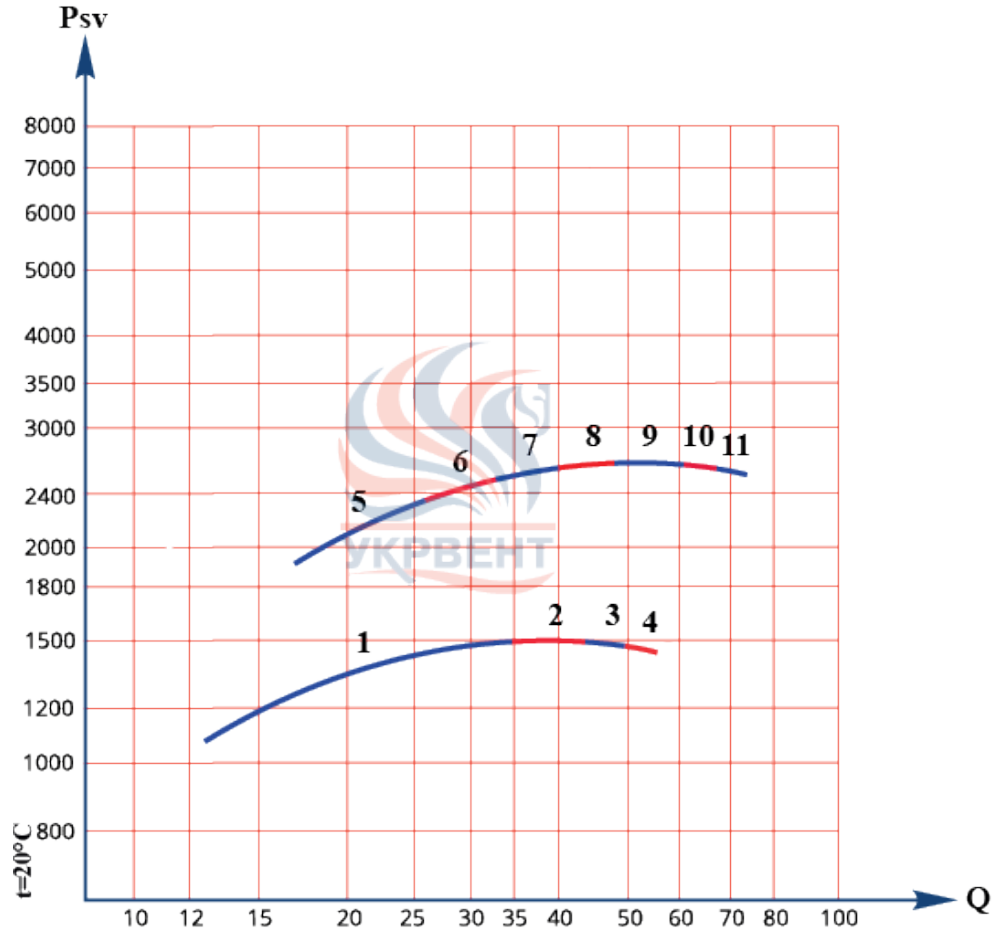
Frequency converter
UVE-810



Vibration isolator RV-40

VR-280-46-8

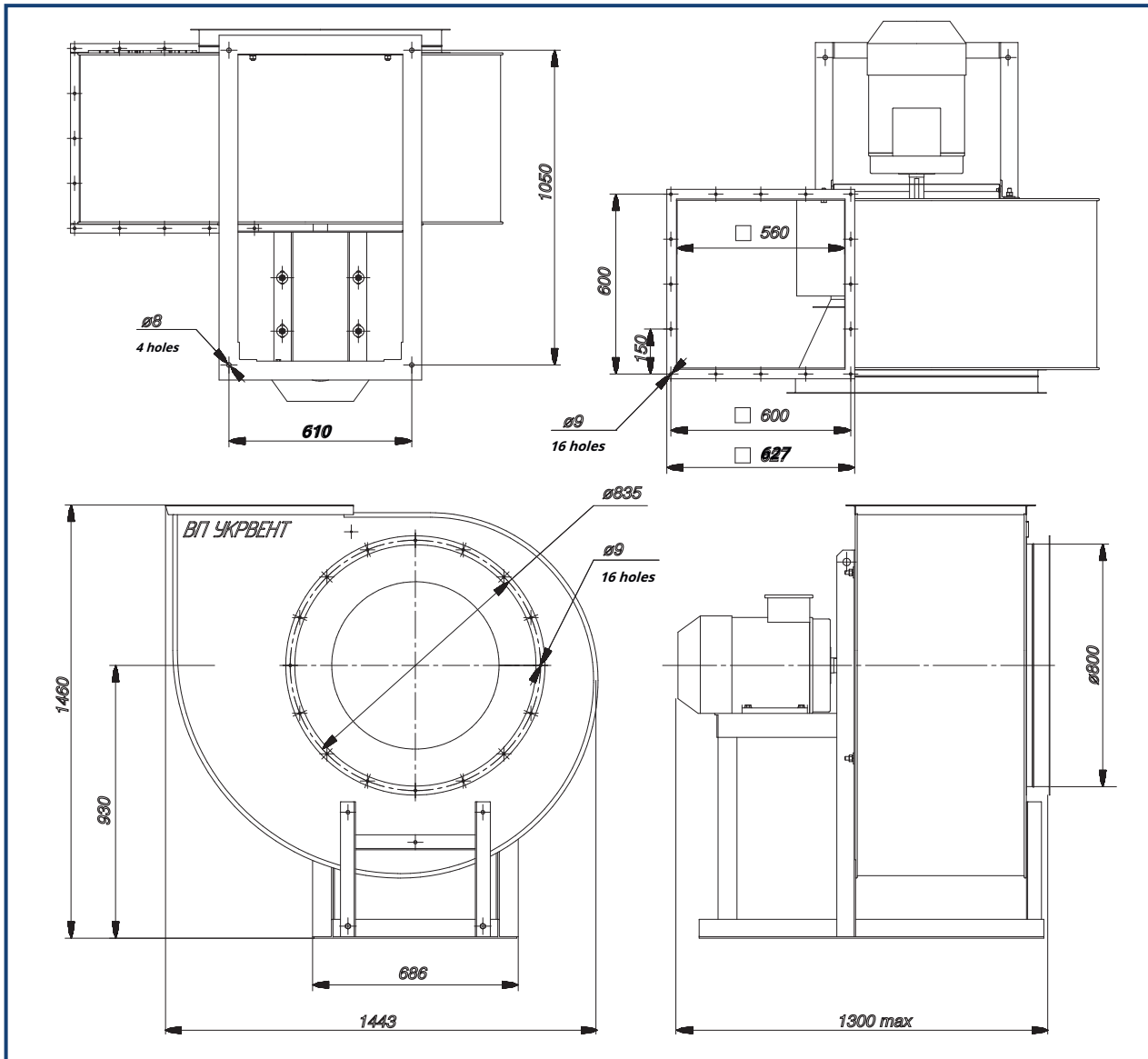
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	22	730	49.4	544	105
2	30	735	65.3	644	105
3	37	740	78	753	105
4	45	740	94	792	105
5	30	975	61.8	534	112
6	37	980	73.5	644	112
7	45	985	90.1	749	112
8	55	985	110	804	112
9	75	985	150	1084	112
10	90	985	169	1166	112
11	110	985	207	1445	112

VR-280-46-8

Overall dimensions and connection dimensions of the fan VR-280-46-8



Additional equipment



Flexible insert
VK-800



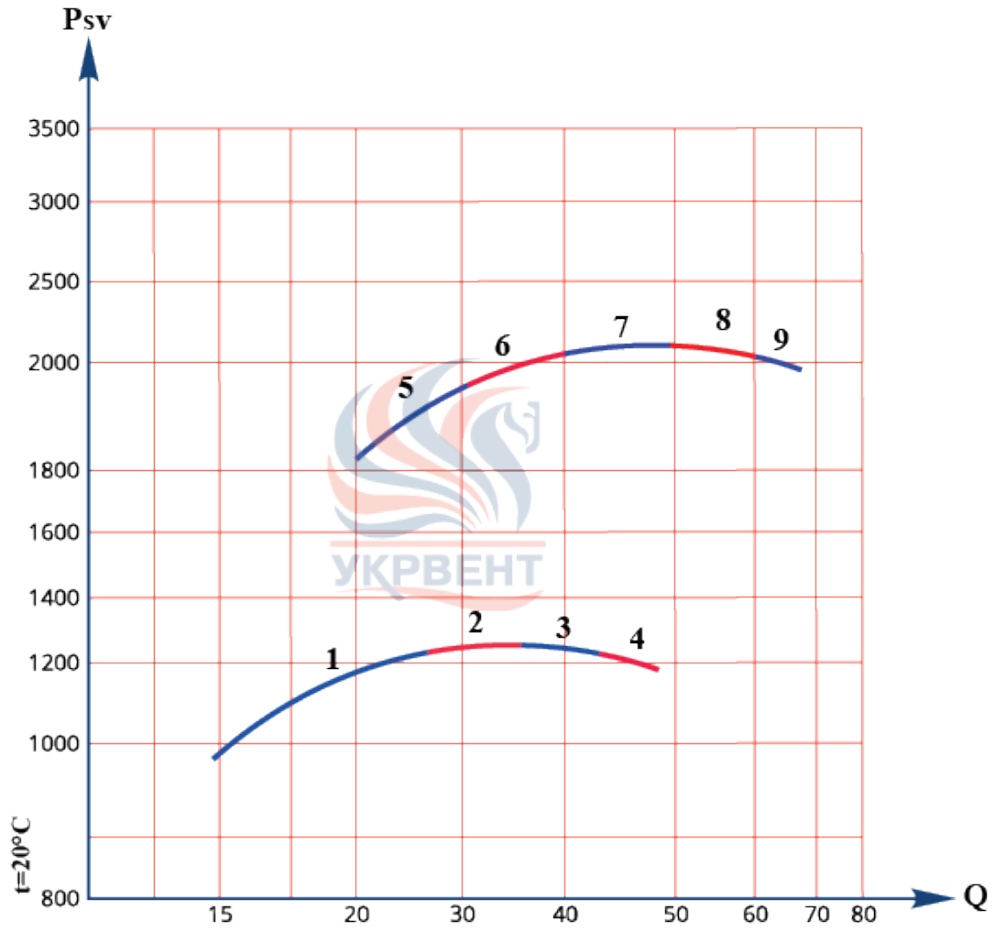
Frequency converter
UVE-810



Vibration isolator RV-40

VR-280-46-10

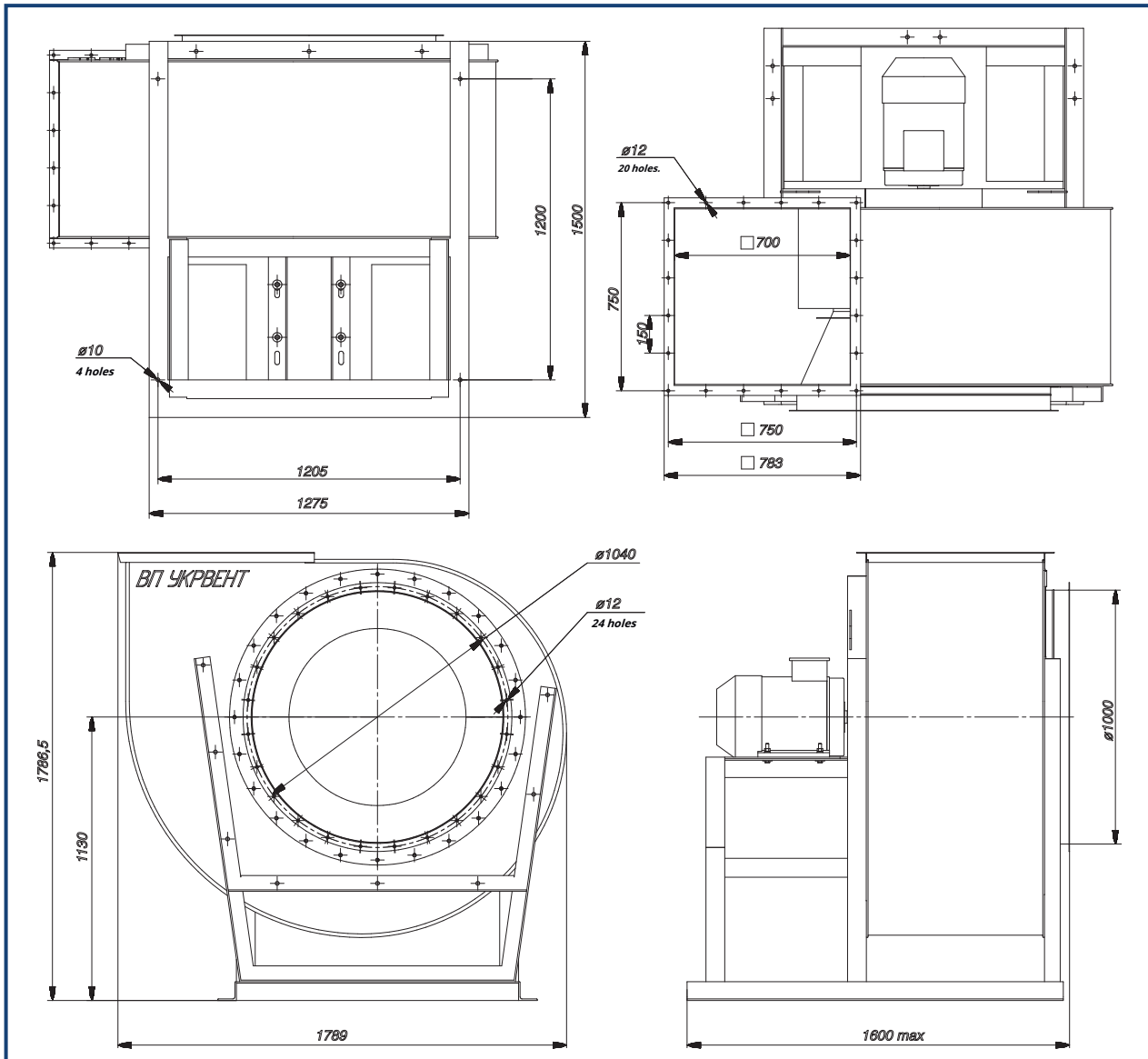
Aerodynamic characteristics



Curve №	Power, kW	Frequency of rotation of the impeller, rpm	Rated current, A	Weight of fan, max kg	Acoustics, dB,
1	18.5	730	41.1	660	108
2	22	730	48.9	675	108
3	30	735	63	810	108
4	37	740	78	919	108
5	37	980	71	810	114
6	45	980	86	915	114
7	55	980	104	970	114
8	75	985	142	1140	115
9	90	985	169	1250	115

VR-280-46-10

Overall and connection dimensions of the fan VR-280-46-10



Additional equipment



Flexible insert
VK-1000



Frequency converter
UVE-810



Vibration isolator RV-50