УКРВЕНТ

# Smoke exhaust fans

ST media

## About the company

- The company was founded in 2002.
- Total production capacity is 5 thousand m².
- The company's products comply with EN standards.
- Export of equipment to more than 10 countries.

## Facts in numbers

**1.312**
object

More
**1.000**
companies that trust us

**21**
year on the market

**100%**
satisfied customers

More
**17.000**
fans produced

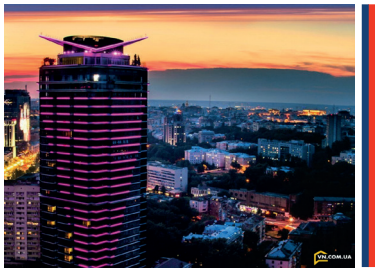
**10**
countries we supply products to

**70,000**
products per year

# Our projects


**Shopping mall "Planeta Mall"**
**Kharkiv, Ukraine**

**Residential complex "Seven"**
**Kyiv, Ukraine**



**Residential complex "Jack House"**
**Kyiv, Ukraine**

**Residential complex "Senat"**
**Kyiv, Ukraine**

**Residential complex "Udobnyi"**
**Odesa, Ukraine**

**Residential complex "Great"**
**Kyiv, Ukraine**

**Residential complex "Varshavsky"**
**Kyiv, Ukraine**

**Residential complex "Crystal Avenue"**
**Kyiv, Ukraine**

**Residential complex "Mistechko Pidzamche"**
**Lviv, Ukraine**

**Residential complex "Artima"**
**Chisinau, Moldova**

**Hotel « Ibis »**
**Tbilisi, Georgia**

**Residential complex "Azimut Copou"**
**Iasi, Romania**

# Our projects

Residential complex
"Linden"
Kyiv, Ukraine


Shopping center
"Silpo"
Ukraine

Residential complex
"Newton House"
Chisinau, Moldova

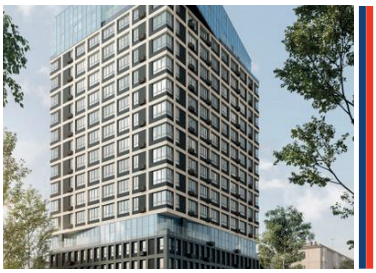
Residential complex
"Lucky Land"
Kyiv, Ukraine

Residential complex
«Central Park»
Vinnytsia, Ukraine

Residential complex
«Milltown»
Lviv, Ukraine


Roshen
Boryspil, Ukraine

Residential complex
"Kryshtalni Dzherela"
Kyiv, Ukraine



Residential complex
"Park Residence"
Lviv, Ukraine

PAES
Ukraine

Residential complex
"Optimisto"
Gatne, Ukraine

Residential complex
"Happy House"
Kyiv, Ukraine

# Our projects

Apart Hotel
"Skhidnytsia, Ukraine

Residential complex
"Lesoparkovy"

Vinnytsia, Ukraine

Residential complex
"Metropolis"

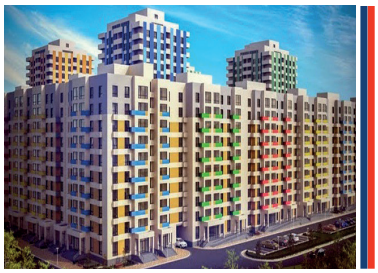
Kyiv, Ukraine

Residential complex
"Teremky"
Kyiv, Ukraine

Residential complex
"Prichal 8"
Kyiv, Ukraine

Residential complex
"Nyvky-Park"

Kyiv, Ukraine



Residential complex
"Aquarelle"
Vyshneve, Ukraine

Residential complex
"Malachite"
Kyiv, Ukraine


Shopping mall "Stryi"

Stryi, Ukraine

Residential complex
"Ok'Land"
Kyiv, Ukraine

Residential complex
"Galaxy"
Kyiv, Ukraine

Residential complex
«Dibrova Park»
Kyiv, Ukraine

# Smoke extraction fans



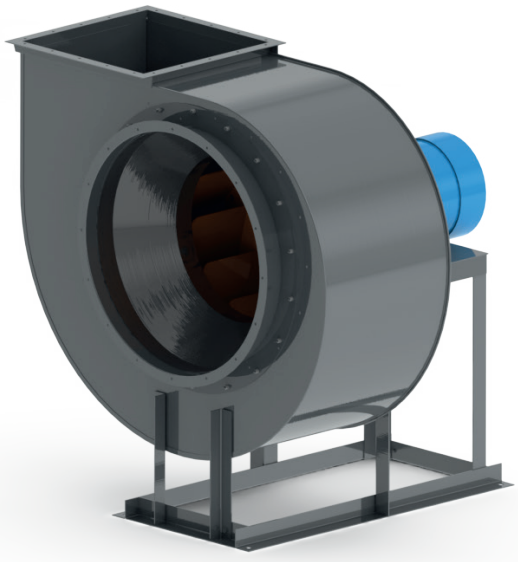
Recently, the demand for human safety systems in buildings, including fire safety, has been increasing. In this matter, smoke ventilation and smoke exhaust fans that are part of it play a major role. Creating and designing smoke ventilation is a complex process, because the factors that affect the situation during a fire are practically not subject to forecasting and analysis. It is also worth considering the complexity of all processes - the chemical reaction of combustion, intensive heat transfer, mixing of air flows and combustion products.

### *What can a smoke exhaust fan be?*

Smoke exhaust fans are classified depending on the design of the fan housing and the impeller design. The most popular are radial roof fans and "snail" type fans (a fan with a spiral housing).

Roof fans have many advantages. First of all, the system uses an unlimited roof area, and there is no need to look for special premises for smoke exhaust fans. Secondly, the use of these fans allows you to do without installing a vertical air duct. The fan discharges air directly into the open air environment.

The fan can discharge air upwards or sideways. When placing the equipment, it is worth considering the accepted safety standard: the discharge into the air environment must occur at a height of at least 2 m from the surface of a combustible material (roof).



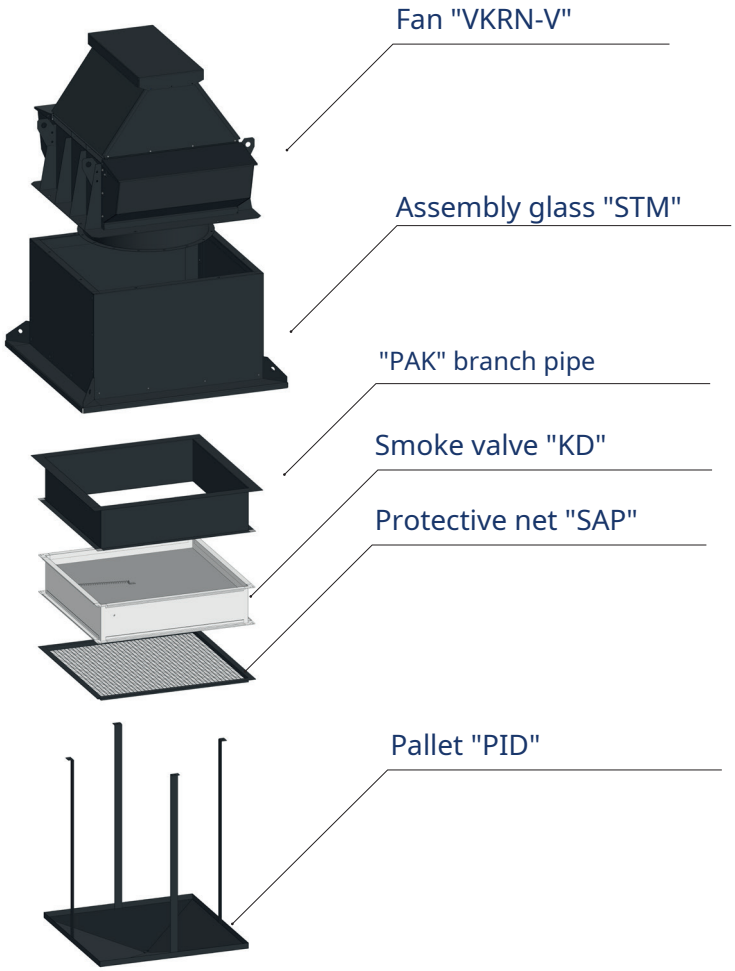
This height can be reduced if the roof is protected with a safe material. If we compare costs, a side discharge fan is a smoke exhaust system, the price of which is slightly lower.

In cases where it is not possible to install a roof fan, a radial fan with a spiral casing can be used. Such a fan can be placed in

any room, and it can also be connected to an air duct at the inlet and outlet. The only requirement for air ducts
– this is fire resistance, which is provided by the structure due to the application of a special fire-retardant composition.

# Radial roof smoke exhaust fans VKRN(-V)-DU

Radial roof smoke exhaust fans **VKRN(-V)-DU** are installed on the roofs of buildings and structures. They are intended for the removal of high-temperature gas-air mixtures that appear during a fire outside the premises of buildings and structures.




General characteristics:

• air capacity from 2000 m³/h to 115000 m³/h;

• static pressure from 150 Pa to 2150 Pa;
• application temperature 400-600 ° C for at least 120 minutes;
• impeller with backward curved blades;
• welded body with wear-resistant paint coating;

• two-way horizontal air discharge (VKRN);
• two-way vertical air discharge (VKRN-V);
• possibility of dense installation of several fans on the roof;
• full protection against precipitation using self-closing nozzle covers that function as a check valve (VKRN-V);

• the body has a square cross-section;

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

The average vibration velocity of external vibration sources at the fan installation locations is no more than 2 mm/s.
The aerodynamic characteristics of the fans are presented in graphs, where:
Q - air capacity $m^3/h \times 10^3$;
Psv - static pressure at $p_{AT}$ = 1.2 kg/$m^3$ and $t_{AT}$ = 20°C air;
The pressure Psv created by the fan and the power consumed by the electric motor N at a different density p of the medium or a different air temperature t can be calculated using the following formulas:

$$Psv_p = (p / p_0) * Psv_0 \qquad Np = (p / p_0) * N$$

$$Psv_t = [\,293 / (273 + t)\,] * Psv_0 \qquad Nt = [293 / (273 + t)] * N_0$$

## Marking

***Example:***

Radial roof fan; number 8; smoke extraction; temperature of the moving medium 600°C, electric motor with power Ny=5.5 kW, with rotation frequency n=970 rpm.

VKRN-V - 8 - DU - 600 - 5.5/1000

| |
|---|
| Fan type:**VKRN; VKRN-V;** |
| Fan size: **5; 5.6; 6.3; 7.1; 8; 9; 10; 11.2; 12.5;** |
| Appointment: **O**- general industrial: **G**- heat-resistant; **DU**- smoke extraction; **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)**;** |
| Electric motor parameters, Ny/n:<br>**Ny**- power, kW;<br>**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.

STM mounting glass

## Appointment

For easy installation of roof smoke exhaust fans on any type of roof.

## Construction

Assembly glass **STM**- steel frame sheathed with galvanized steel.
Insulated mounting glass **STM-U**- steel frame sheathed with galvanized steel, insulated inside with thermally insulating non-combustible material.

## Equipment:

- check valve **KO**, installed inside - to prevent uncontrolled heat loss;

- branch pipe **PACK**- if installation of a smoke valve, a pallet or a corresponding part of the air duct is required;
- smoke valve **KD** with electric drive - to prevent uncontrolled heat loss and condensation;

- decorative aluminum, galvanized and anti-vandal grilles;
- pallet **PID**- for collecting condensate.

## Marking

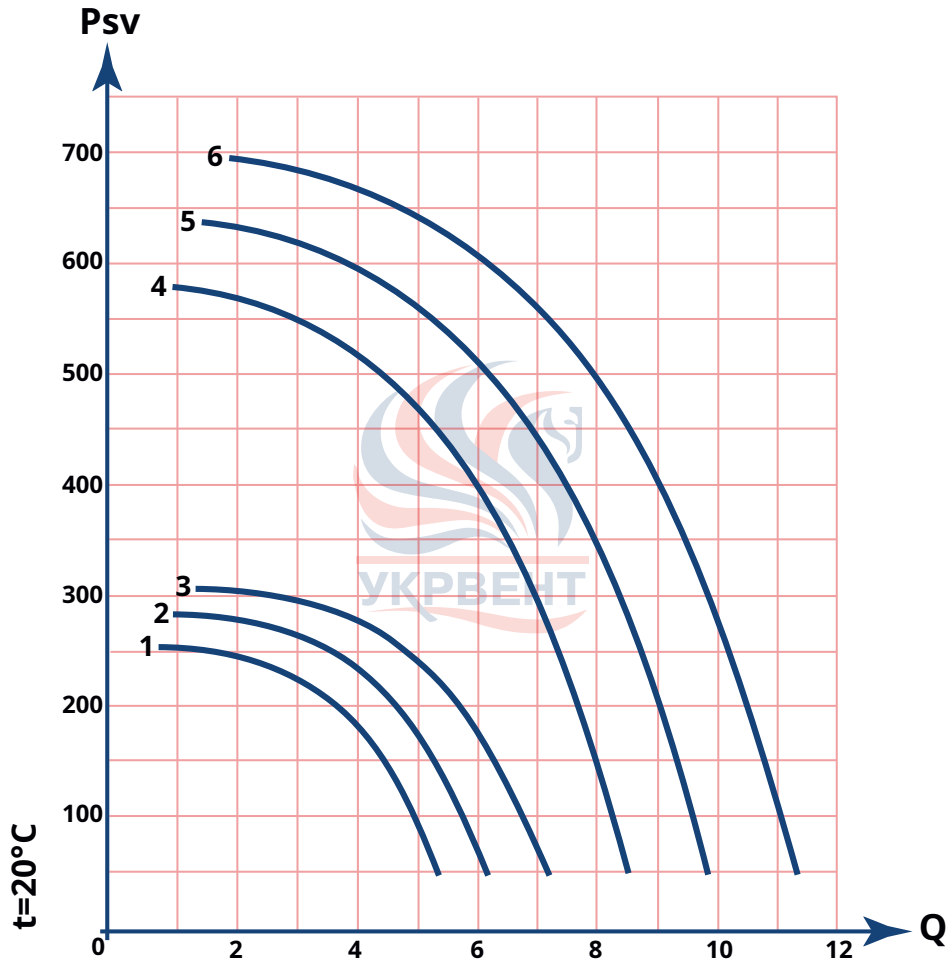
Example:
Mounting cup 115 standard size, insulated with a check valve of general industrial design:

**STM-115 - U - KO - O**

| |
|---|
| Standard size:**72; 92; 115; 140; 156; 2x72; 2x92; 2x115; 2x140; 2x156;** (for paired glasses) |
| Insulation: **U**- with insulation; **0**- without insulation; |
| Check valve: **KO**– with a check valve;**0**– without a check valve; |
| Implementation: **O**- general industrial/smoke extraction; **K**- corrosion-resistant; |

## *VKRN(-V)-5-DU*

### *Aerodynamic characteristics*



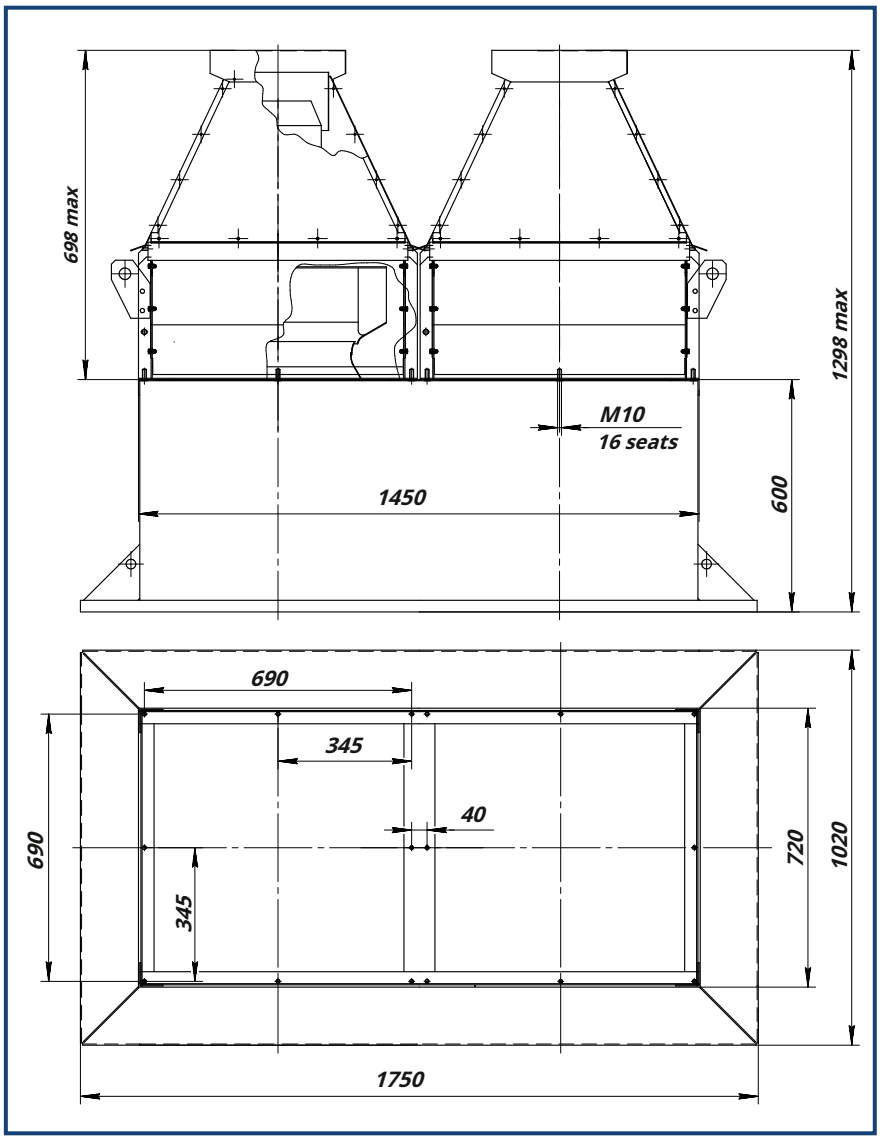

| Curve №. | Power,kW | Frequency of rotation of the impeller, rpm | Rated current, A | Weight of fan, max kg | Weight of the fan with mounting cup, max kg |
|---|---|---|---|---|---|
| *1* | *0.37* | *895* | *1.3* | *116* | *180* |
| *2* | *0.55* | *895* | *1.9* | *116* | *180* |
| *3* | *0.75* | *910* | *2.29* | *120* | *184* |
| *4* | *1.5* | *1390* | *3.95* | *124* | *188* |
| *5* | *1.5* | *1395* | *3.95* | *124* | *188* |
| *6* | *2.2* | *1400* | *5.3* | *129* | *193* |

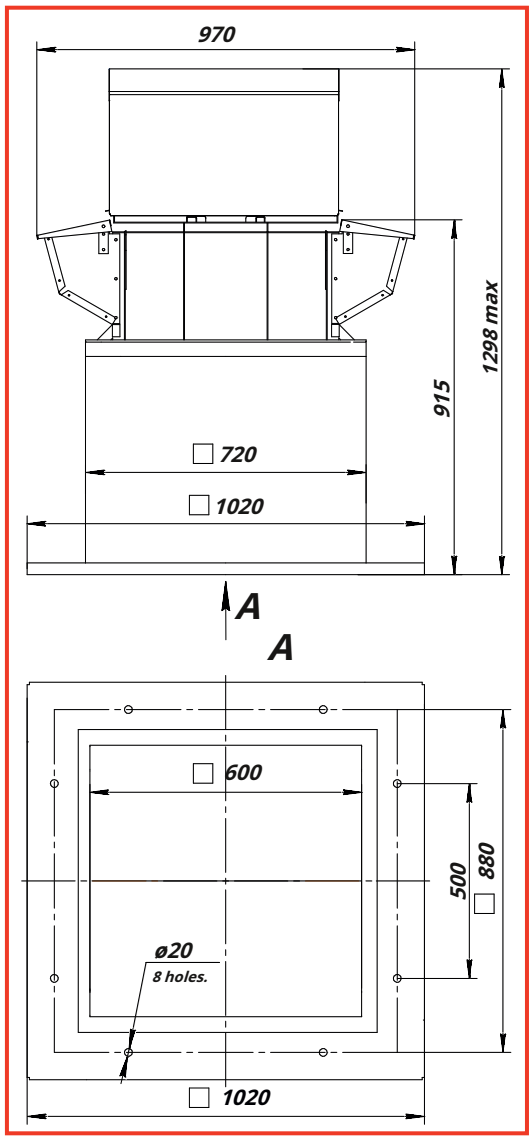
* the masses of paired fans with mounting cups are multiplied by a factor of 2.12

** Paired fans have separate connection boxes

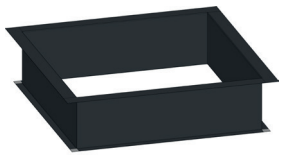
## VKRN(-V)-5-DU

Overall and connection dimensions of the VKRN(-V)-5-DU fan on mounting cups 2xSTM-72-U-KO-O and STM-72-U-KO-O




## Additional equipment



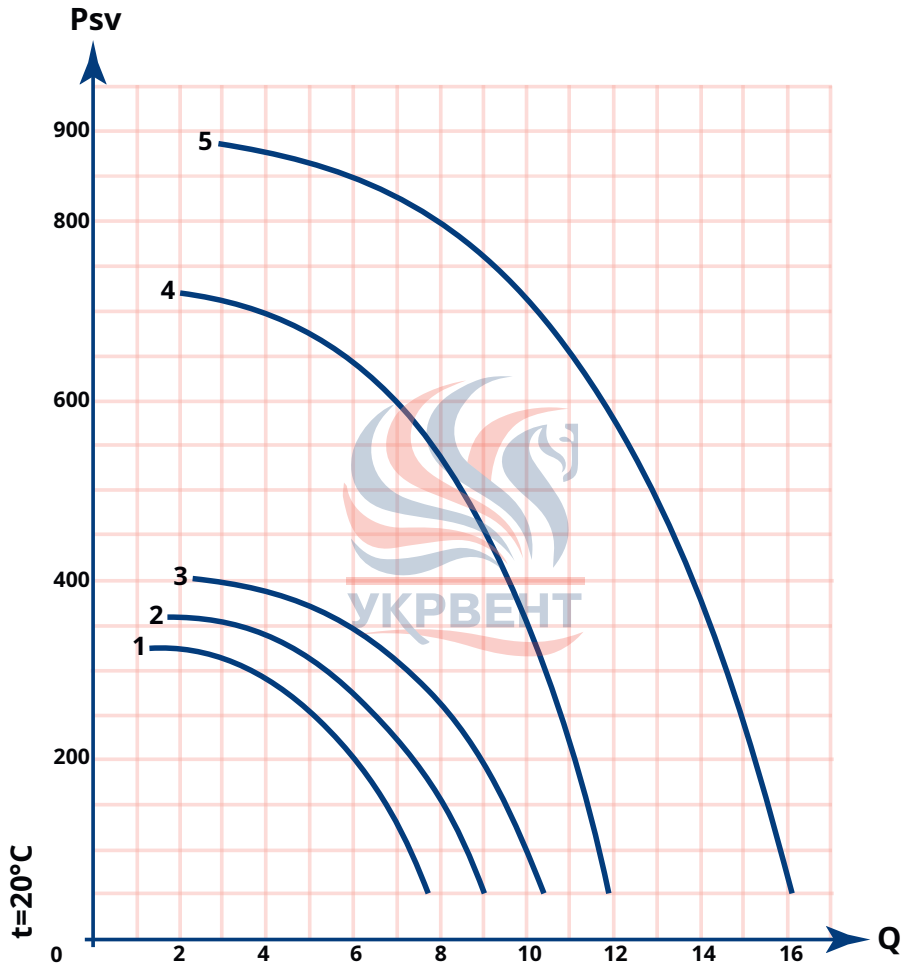
PAK-72 branch pipe

Pallet PID-72

Frequency converter UVE-810

## *VKRN(-V-)-5,6-DU*

### *Aerodynamic characteristics*



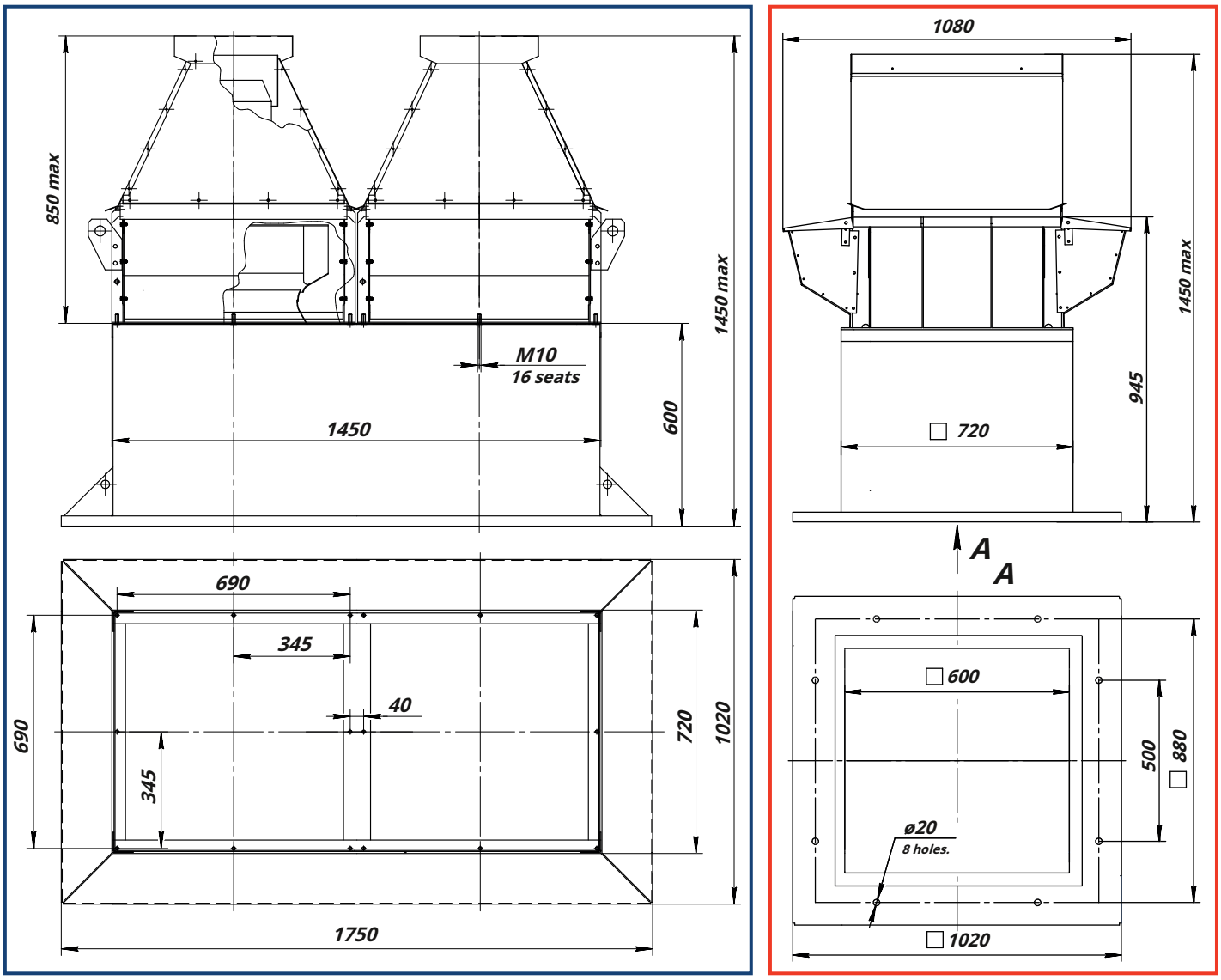

| Curve №. | Power,kW | Frequency of rotation of the impeller, rpm | Rated current, A | Weight of fan, max kg | Weight of the fan with mounting cup, max kg |
|---|---|---|---|---|---|
| *1* | *0.55* | *895* | *1.9* | *138* | *202* |
| *2* | *0.75* | *910* | *2.29* | *142* | *206* |
| *3* | *1.1* | *910* | *3.18* | *142* | *206* |
| *4* | *2.2* | *1400* | *5.3* | *147* | *211* |
| *5* | *3* | *1420* | *7.2* | *154* | *218* |

* the masses of paired fans with mounting cups are multiplied by a factor of 2.12

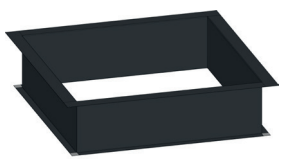
** Paired fans have separate connection boxes

## VKRN(-V-)-5,6-DU

Overall and connection dimensions of the VKRN(-V)-5,6-DU fan on mounting cups 2xSTM-72-U-KO-O and STM-72-U-KO-O




## Additional equipment



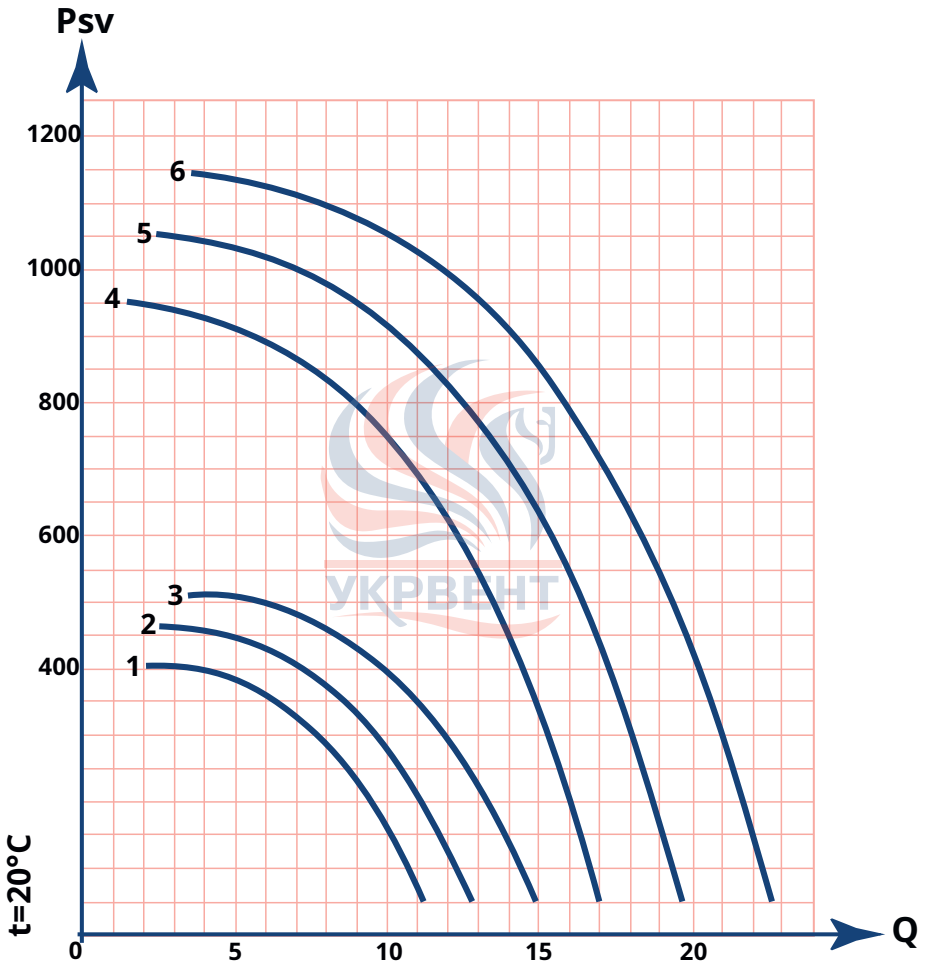
PAK-72 branch pipe

Pallet PID-72

Frequency converter UVE-810

## *VKRN(-V)-6,3-DU*

### *Aerodynamic characteristics*



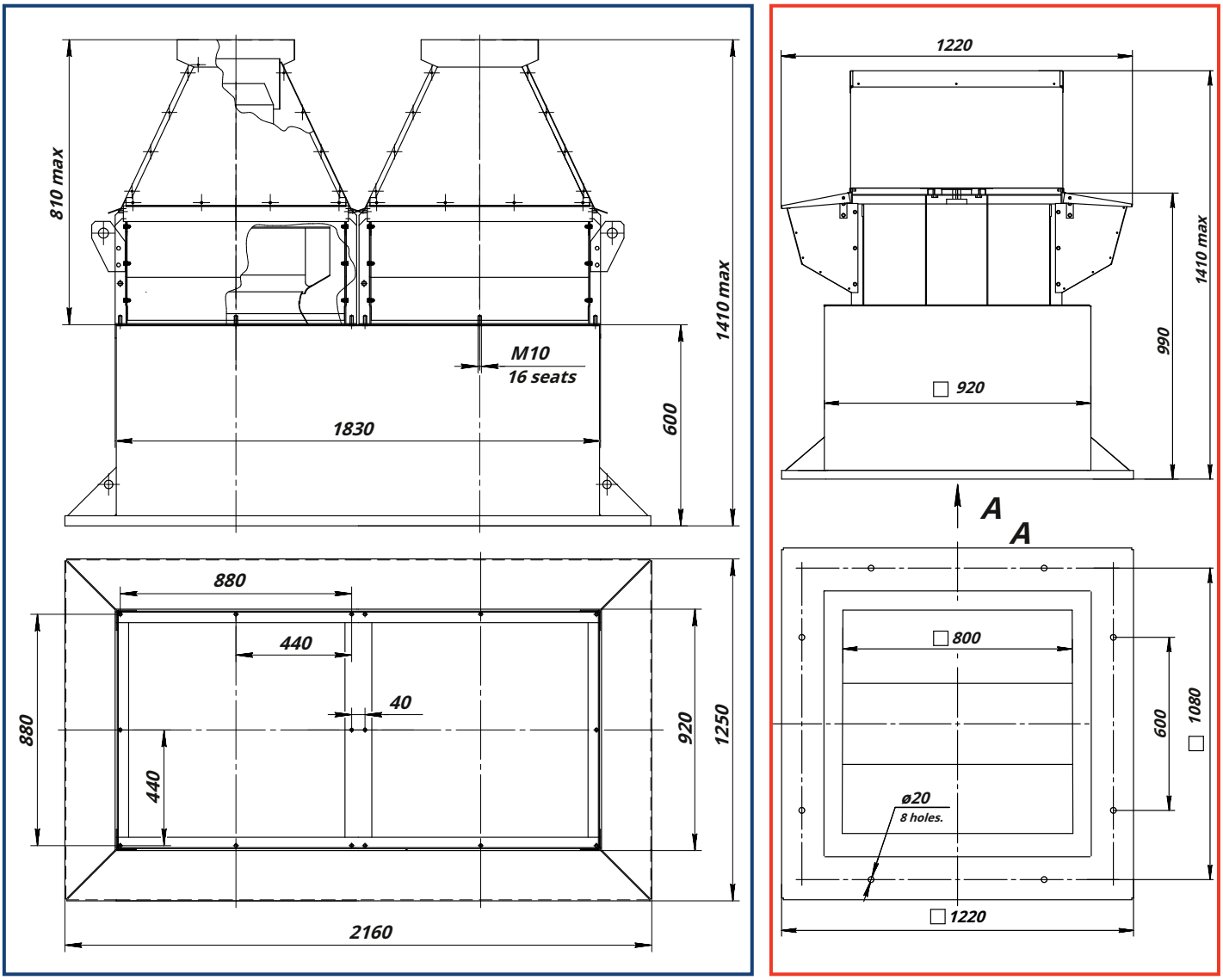

| Curve №. | Power,kW | Frequency of rotation of the impeller, rpm | Rated current, A | Weight of fan, max kg | Weight of the fan with mounting cup, max kg |
|---|---|---|---|---|---|
| *1* | *1.1* | *910* | *3.18* | *156* | *259* |
| *2* | *1.5* | *920* | *4.2* | *160* | *263* |
| *3* | *2.2* | *930* | *5.9* | *170* | *273* |
| *4* | *4* | *1420* | *9.3* | *170* | *273* |
| *5* | *5.5* | *1430* | *12.3* | *180* | *283* |
| *6* | *7.5* | *1440* | *16.1* | *194* | *297* |

* the masses of paired fans with mounting cups are multiplied by a factor of 2.12

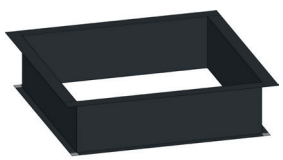
** Paired fans have separate connection boxes

## VKRN(-V)-6,3-DU

Overall and connection dimensions of the VKRN(-V)-6,3-DU fan on mounting cups 2xSTM-92-U-KO-O and STM-92-U-KO-O




## Additional equipment



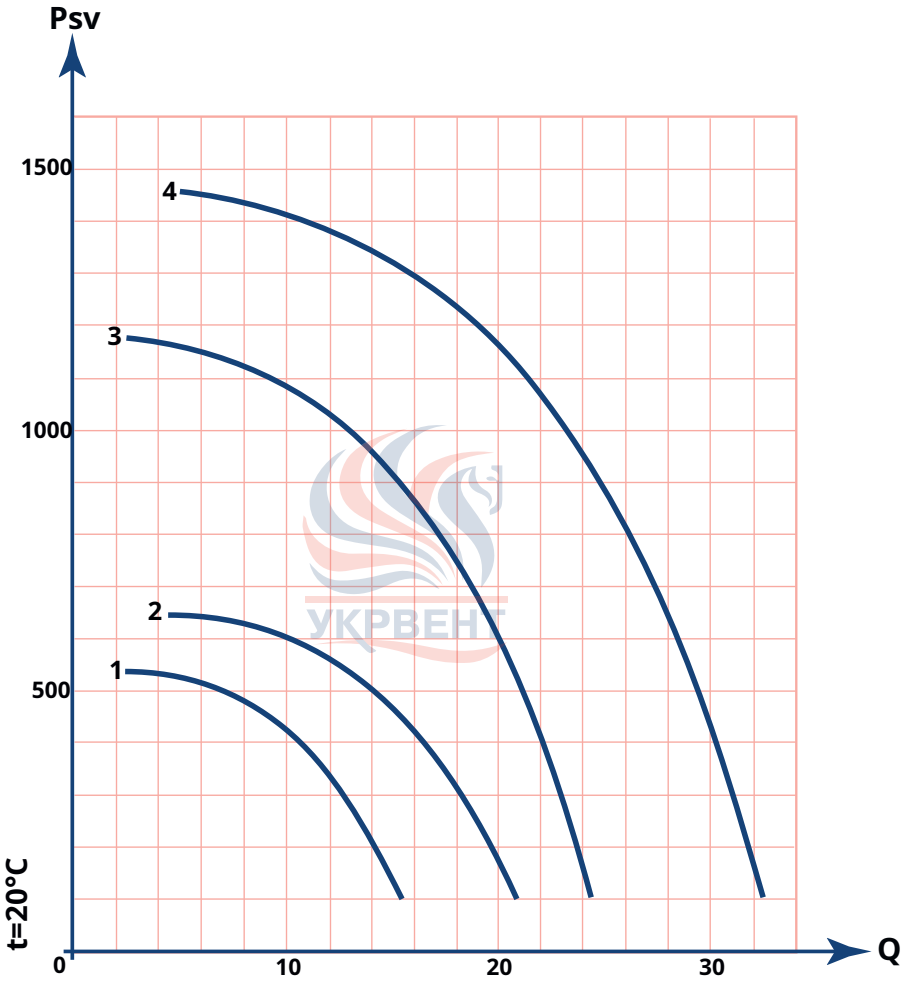
PAK-92 branch pipe

Pallet PID-92

Frequency converter UVE-810

## *VKRN(-V)-7,1-DU*

### *Aerodynamic characteristics*



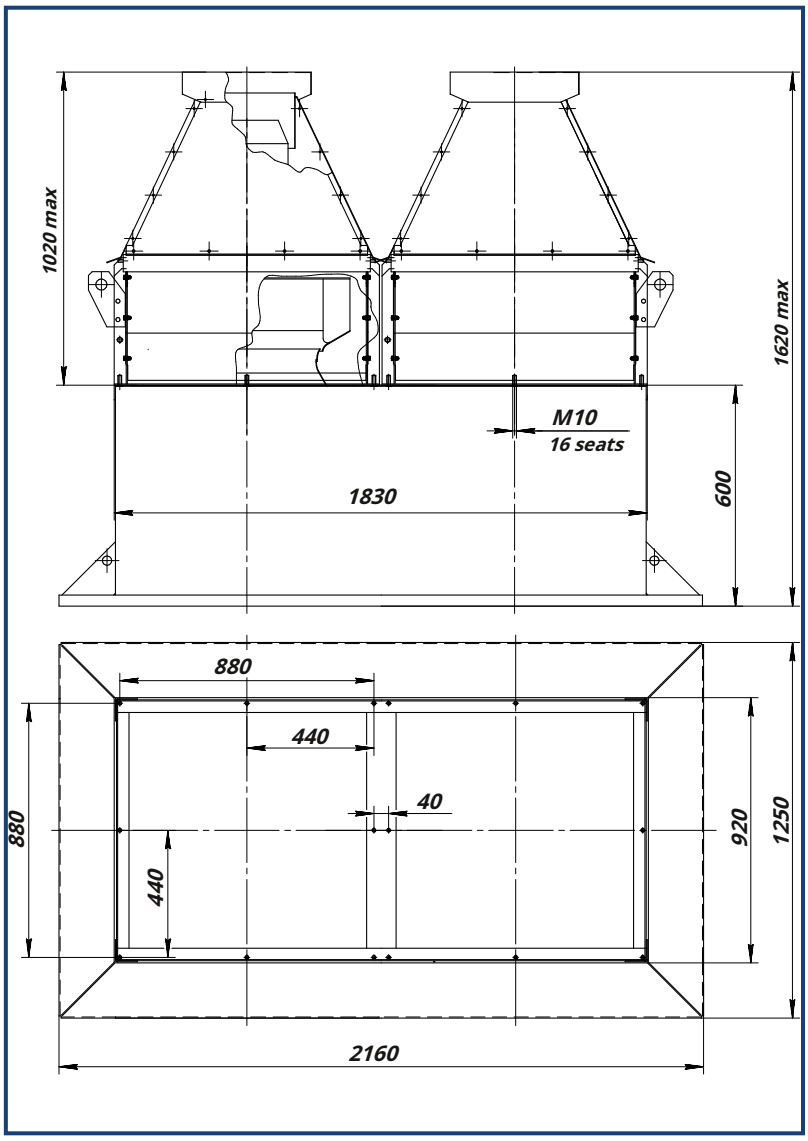

| Curve №. | Power,kW | Frequency of rotation of the impeller, rpm | Rated current, A | Weight of fan, max kg | Weight of the fan with mounting cup, max kg |
|---|---|---|---|---|---|
| *1* | *2.2* | *930* | *5.9* | *208* | *311* |
| *2* | *3* | *935* | *7.9* | *238* | *341* |
| *3* | *7.5* | *1440* | *16.1* | *264* | *367* |
| *4* | *11* | *1450* | *23.1* | *278* | *381* |

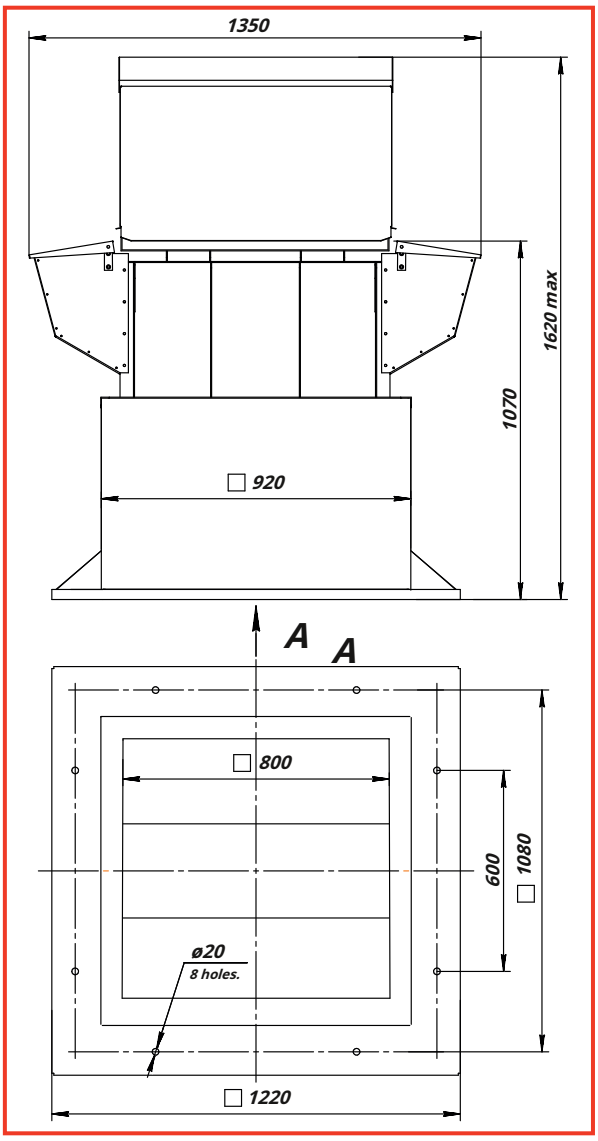
* the masses of paired fans with mounting cups are multiplied by a factor of 2.12

** Paired fans have separate connection boxes

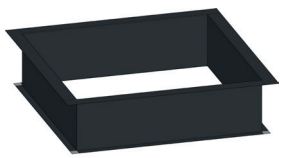
## VKRN(-V)-7,1-DU

Overall and connection dimensions of the VKRN(-V)-7,1-DU fan on mounting cups 2xSTM-92-U-KO-O and STM-92-U-KO-O




## Additional equipment



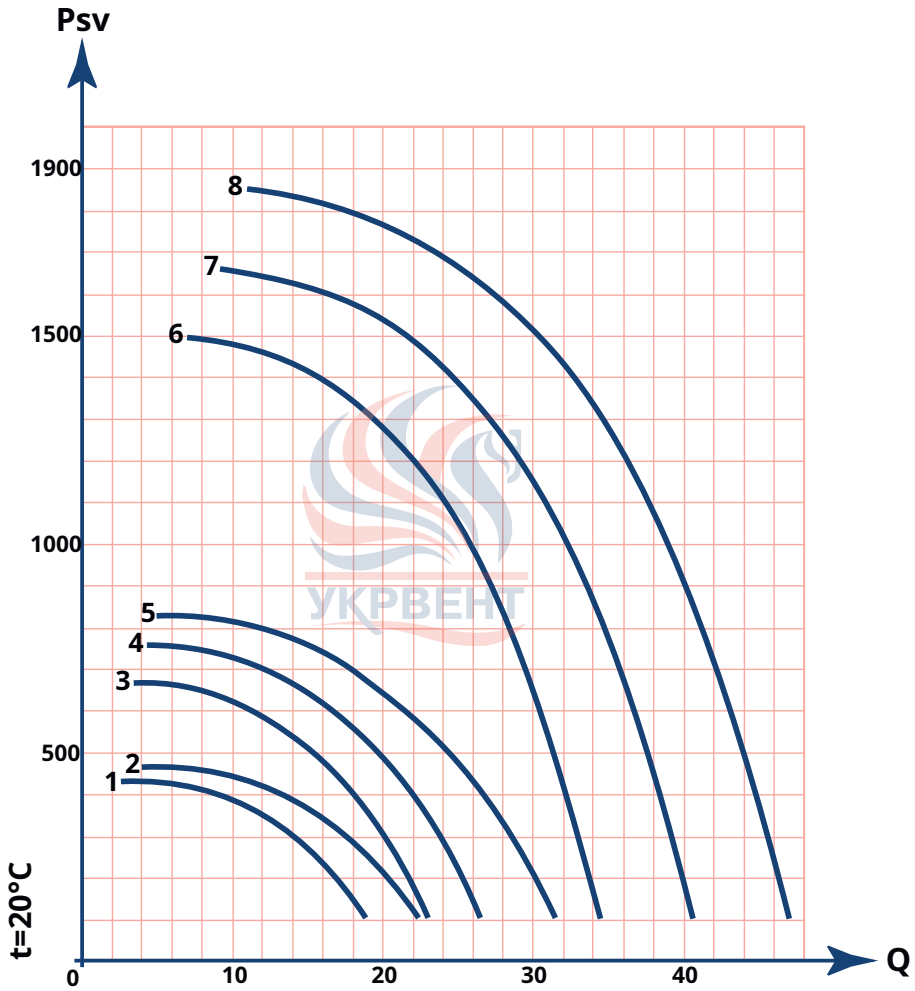
PAK-92 branch pipe

Pallet PID-92

Frequency converter UVE-810

## *VKRN(-V)-8-DU*

### *Aerodynamic characteristics*



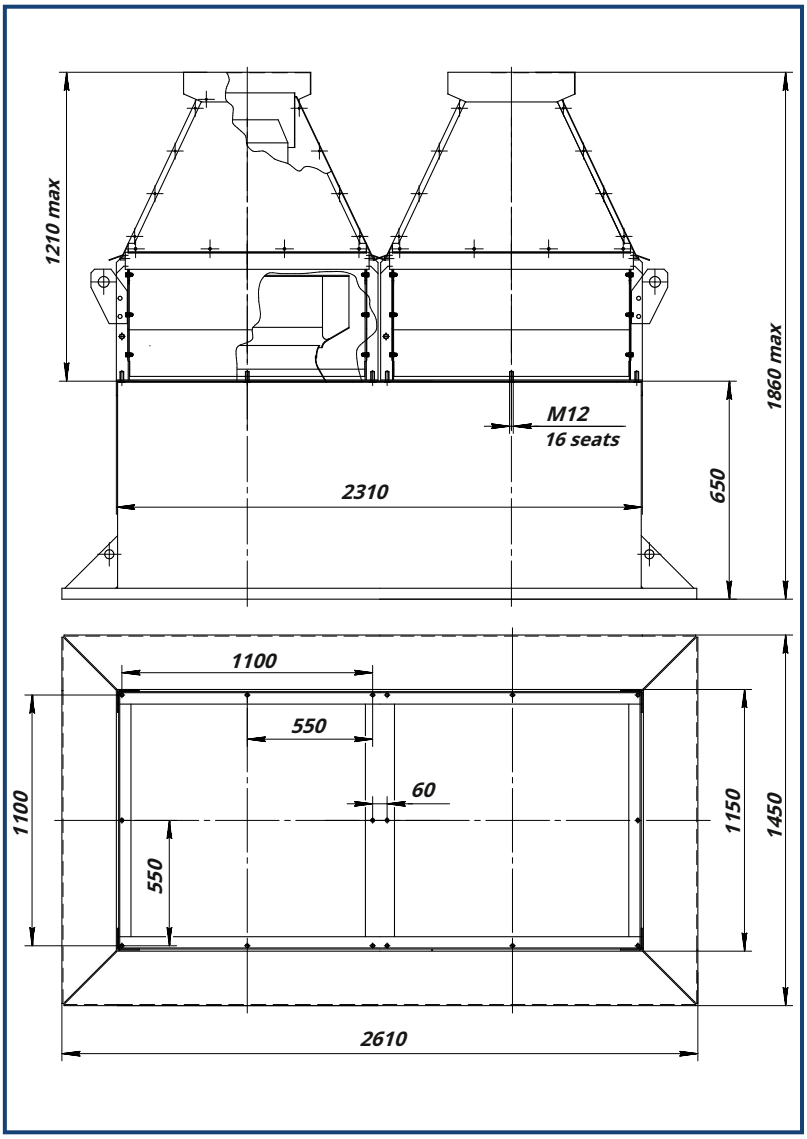

| Curve №. | Power,kW | Frequency of rotation of the impeller, rpm | Rated current, A | Weight of fan, max kg | Weight of the fan with mounting cup, max kg |
|---|---|---|---|---|---|
| *1* | *2.2* | *700* | *6.4* | *306* | *427* |
| *2* | *3* | *700* | *8.6* | *310* | *431* |
| *3* | *4* | *935* | *10.3* | *310* | *431* |
| *4* | *5.5* | *955* | *13.5* | *332* | *453* |
| *5* | *7.5* | *960* | *17.2* | *346* | *467* |
| *6* | *11* | *1450* | *23.1* | *348* | *469* |
| *7* | *15* | *1455* | *30.8* | *390* | *511* |
| *8* | *18.5* | *1455* | *37.8* | *405* | *526* |

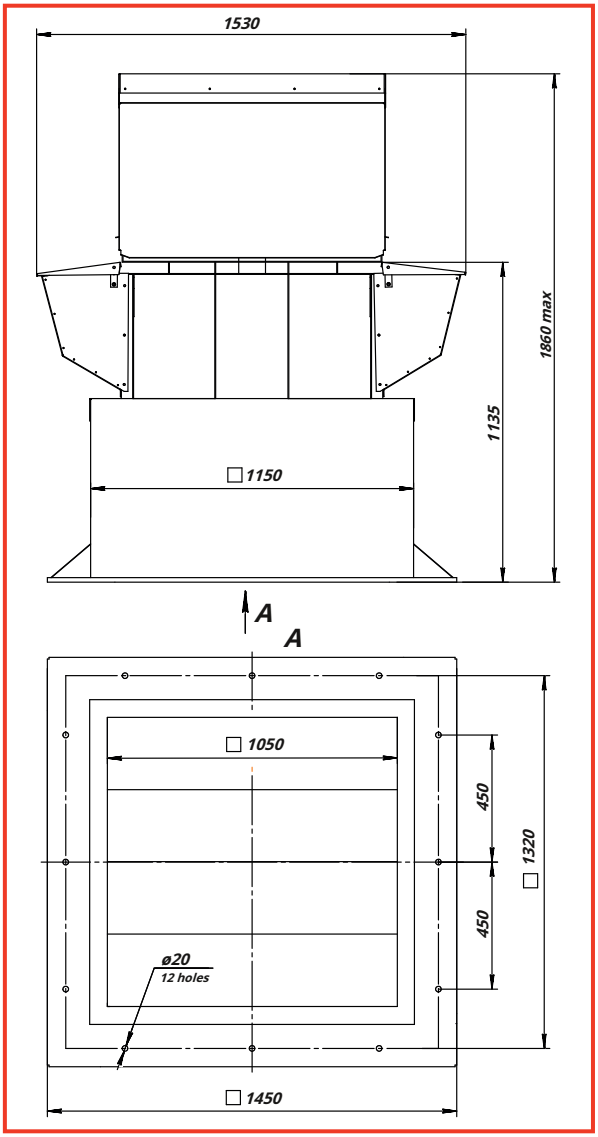
* the masses of paired fans with mounting cups are multiplied by a factor of 2.12

** Paired fans have separate connection boxes

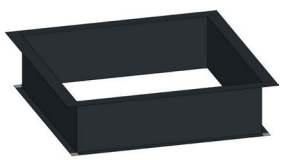
## VKRN(-V)-8-DU

Overall and connection dimensions of the VKRN(-V)-8-DU fan on mounting cups 2xSTM-115-U-KO-O and STM-115-U-KO-O




## Additional equipment



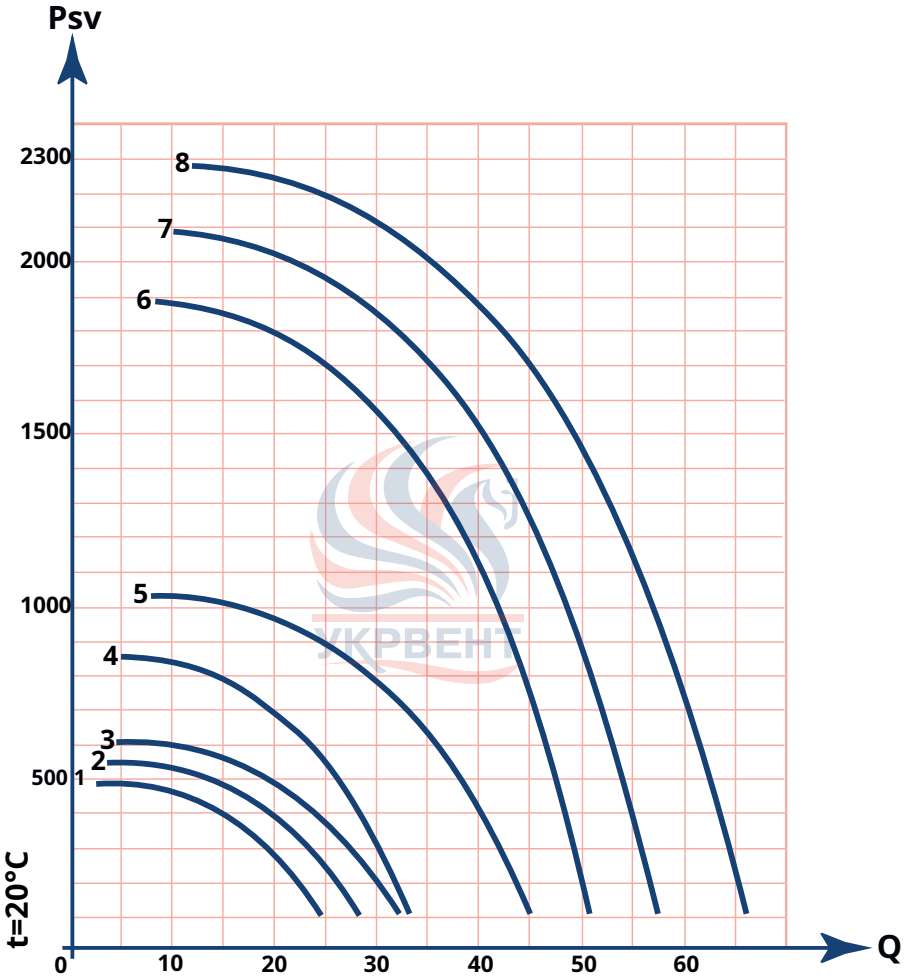
Branch pipe PAK-115

Pallet PID-115

Frequency converter UVE-810

## VKRN(-V)-9-DU

### Aerodynamic characteristics



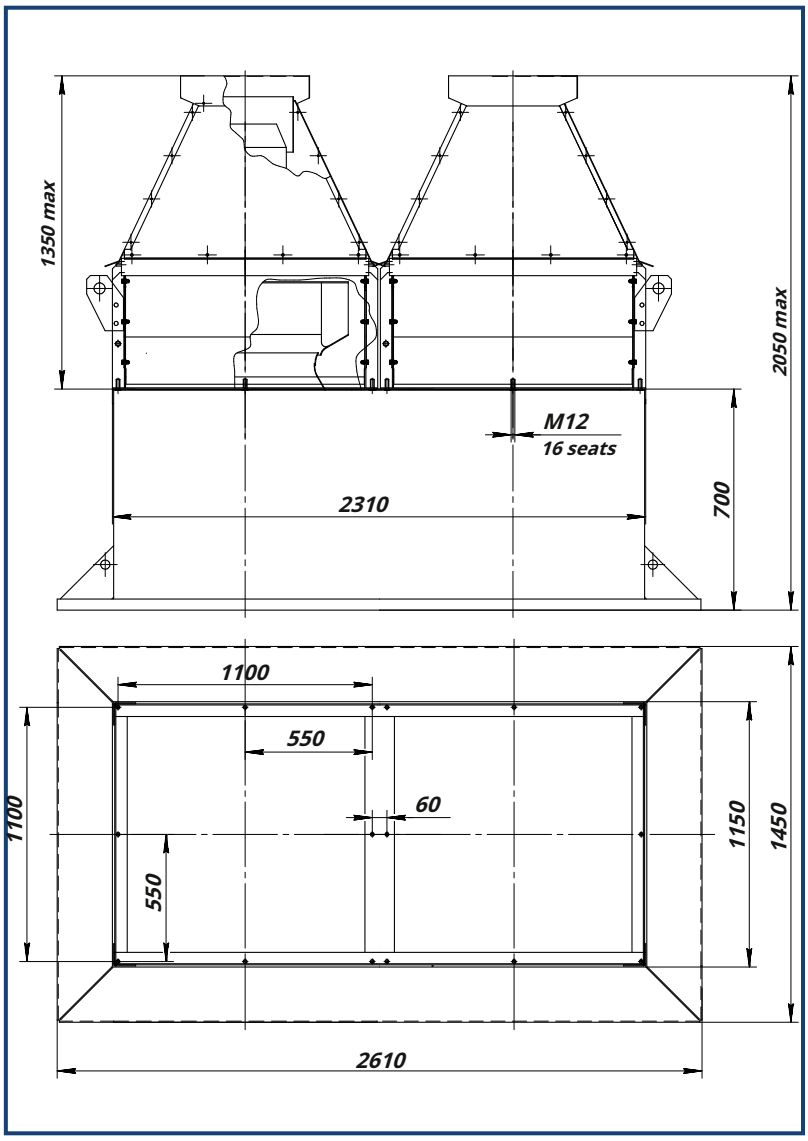

| Curve №. | Power,kW | Frequency of rotation of the impeller, rpm | Rated current, A | Weight of fan, max kg | Weight of the fan with mounting cup, max kg |
|---|---|---|---|---|---|
| 1 | 3 | 700 | 8.6 | 358 | 479 |
| 2 | 4 | 715 | 10.8 | 372 | 493 |
| 3 | 5.5 | 715 | 14.7 | 386 | 507 |
| 4 | 7.5 | 960 | 17.2 | 386 | 507 |
| 5 | 11 | 965 | 24.6 | 430 | 551 |
| 6 | 22 | 1465 | 44.4 | 476 | 597 |
| 7 | 30 | 1465 | 59.6 | 496 | 617 |
| 8 | 37 | 1470 | 73.1 | 552 | 673 |

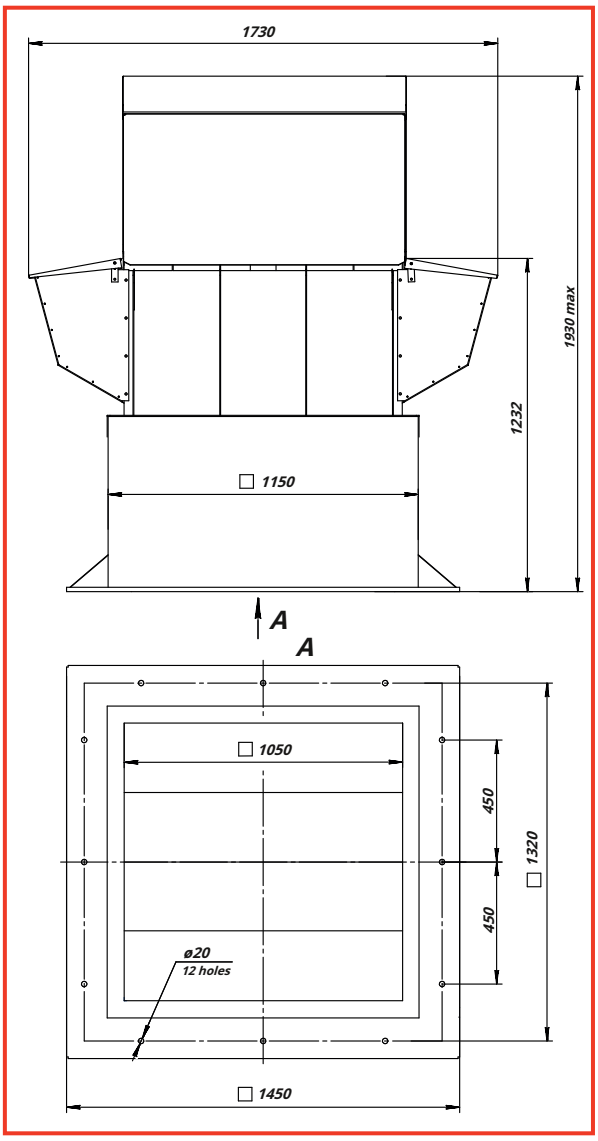
* the masses of paired fans with mounting cups are multiplied by a factor of 2.12

** Paired fans have separate connection boxes

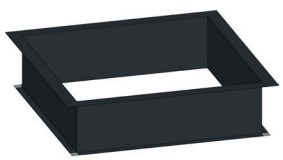
## VKRN(-V)-9-DU

Overall and connection dimensions of the VKRN(-V)-9-DU fan on mounting cups 2xSTM-115-U-KO-O and STM-115-U-KO-O




## Additional equipment



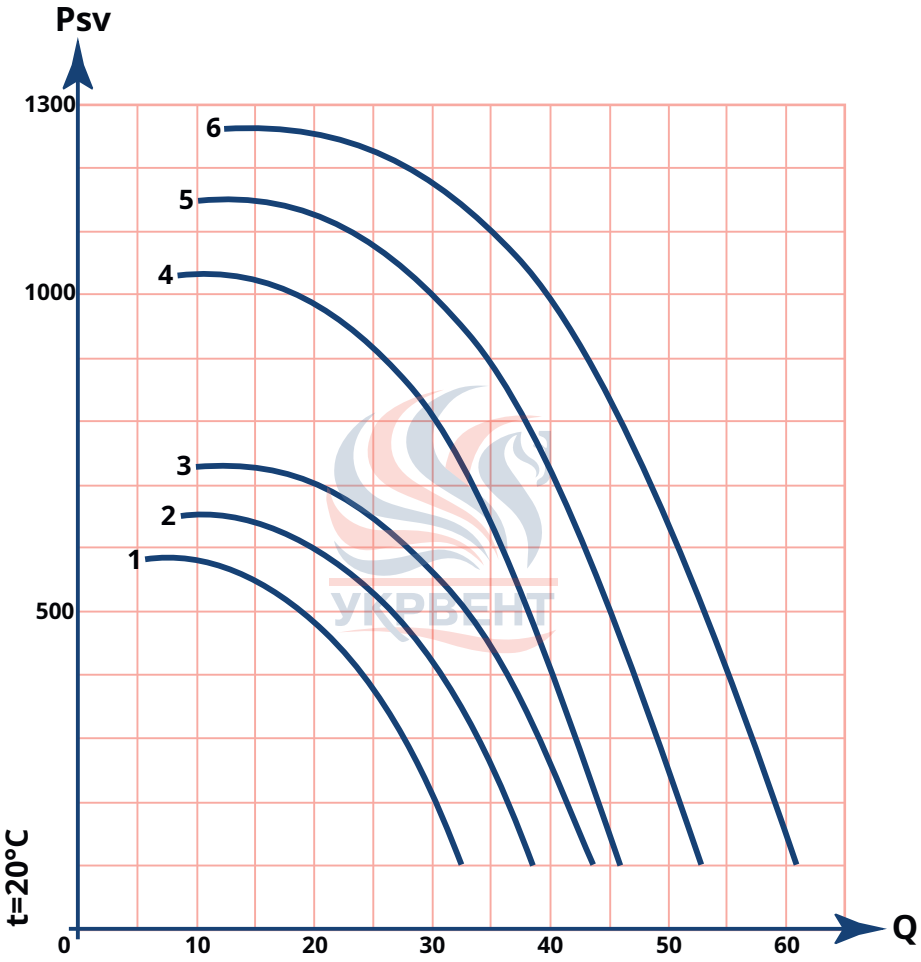
Branch pipe PAK-115

Pallet PID-115

Frequency converter UVE-810

## VKRN(-V)-10-DU

### Aerodynamic characteristics



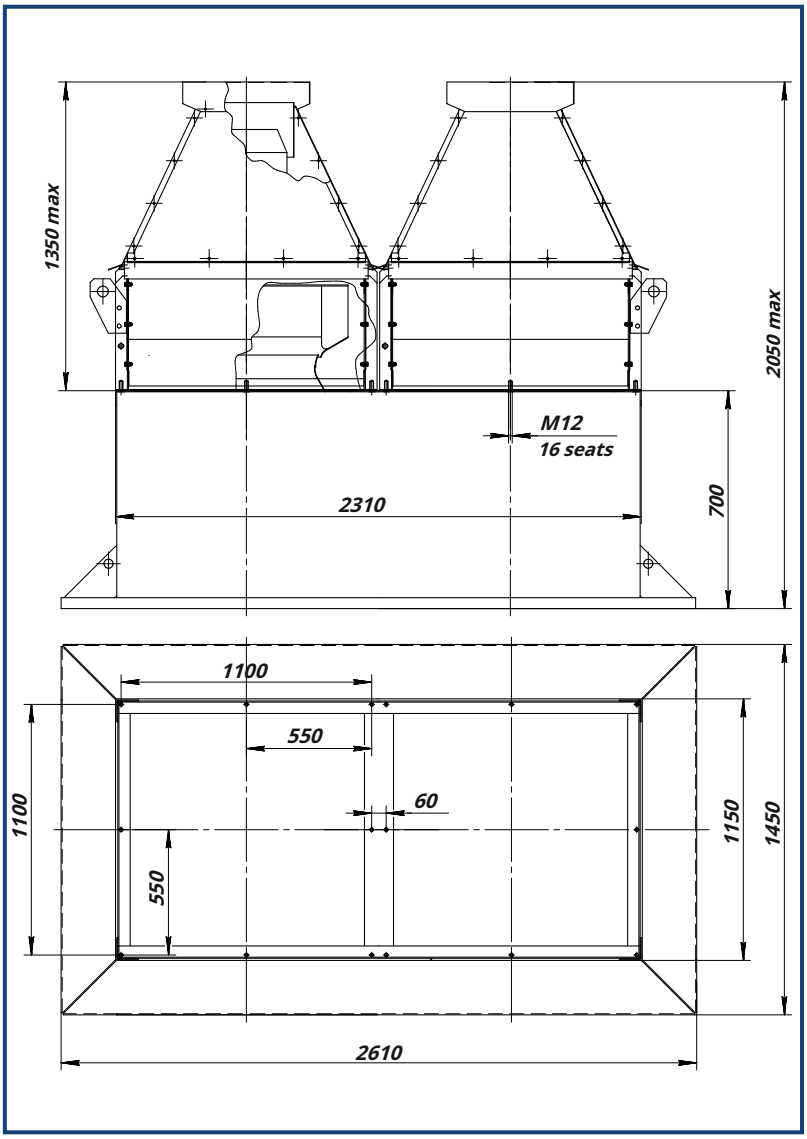

| Curve №. | Power,kW | Frequency of rotation of the impeller, rpm | Rated current, A | Weight of fan, max kg | Weight of the fan with mounting cup, max kg |
|---|---|---|---|---|---|
| *1* | *4* | *715* | *10.8* | *465* | *611* |
| *2* | *5.5* | *715* | *14.7* | *480* | *626* |
| *3* | *7.5* | *720* | *19.2* | *521* | *667* |
| *4* | *11* | *965* | *24.6* | *522* | *668* |
| *5* | *15* | *965* | *33* | *548* | *694* |
| *6* | *18.5* | *970* | *39* | *578* | *724* |

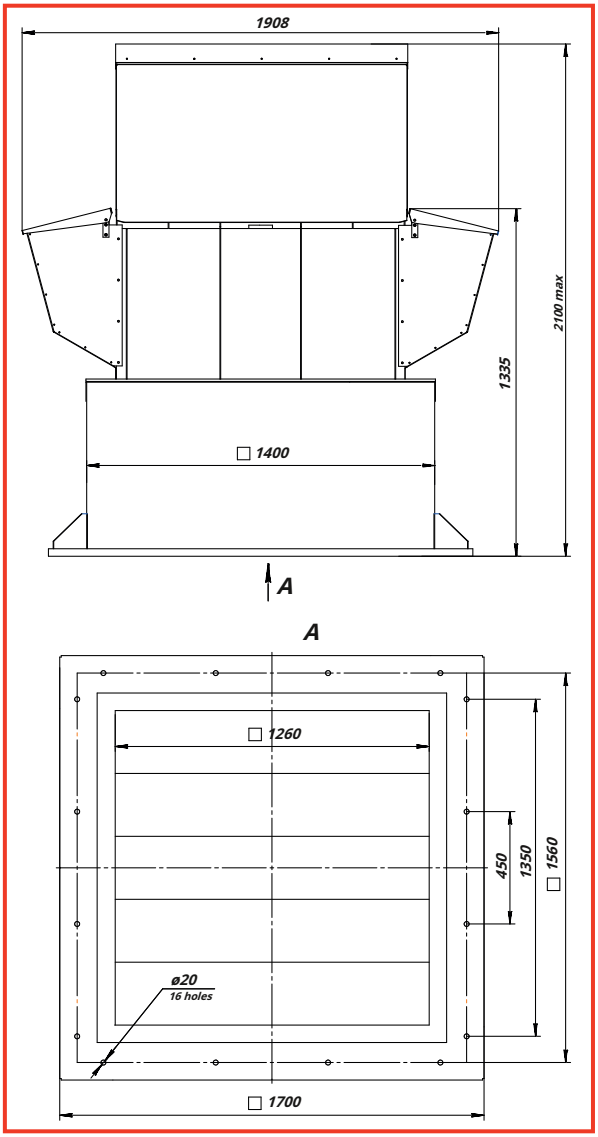
* the masses of paired fans with mounting cups are multiplied by a factor of 2.12

** Paired fans have separate connection boxes

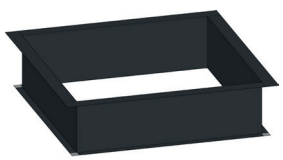
## VKRN(-V)-10-DU

Overall and connection dimensions of the VKRN(-V)-10-DU fan on mounting cups 2xSTM-140-U-KO-O and STM-140-U-KO-O




## Additional equipment



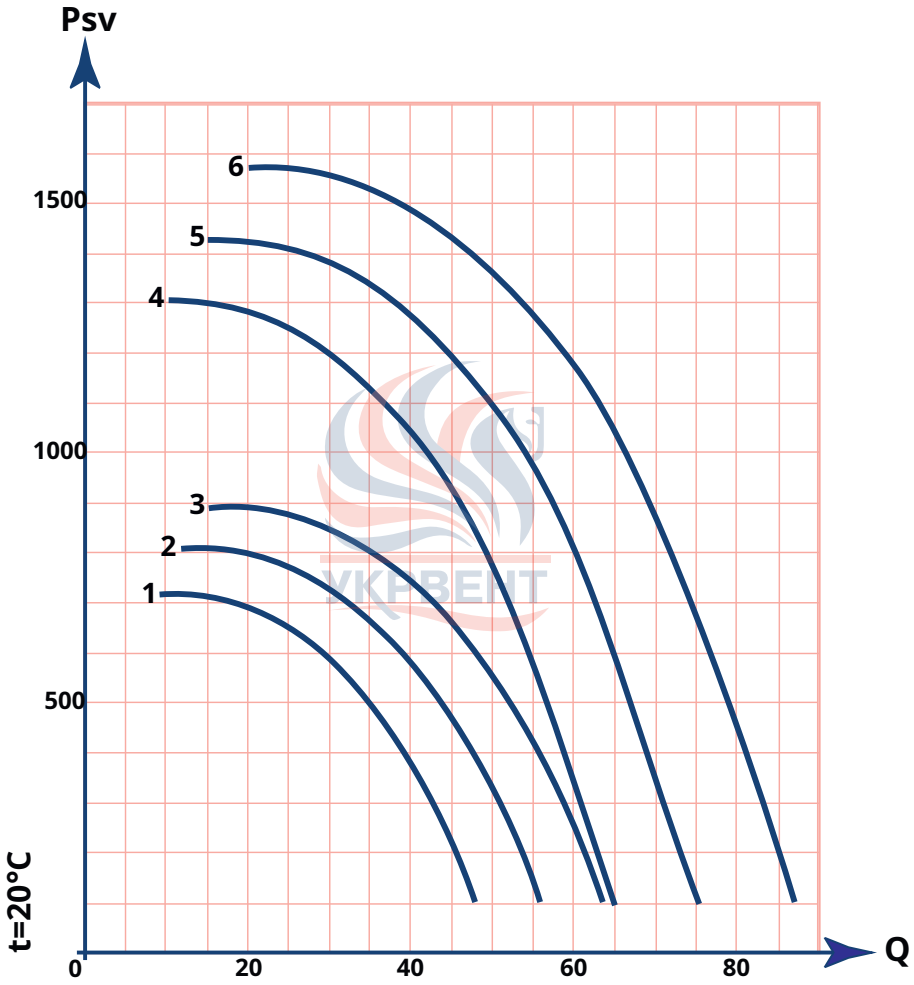
PAK-140 branch pipe

Pallet PID-140

Frequency converter UVE-810

## *VKRN(-V)-11,2-DU*

### *Aerodynamic characteristics*



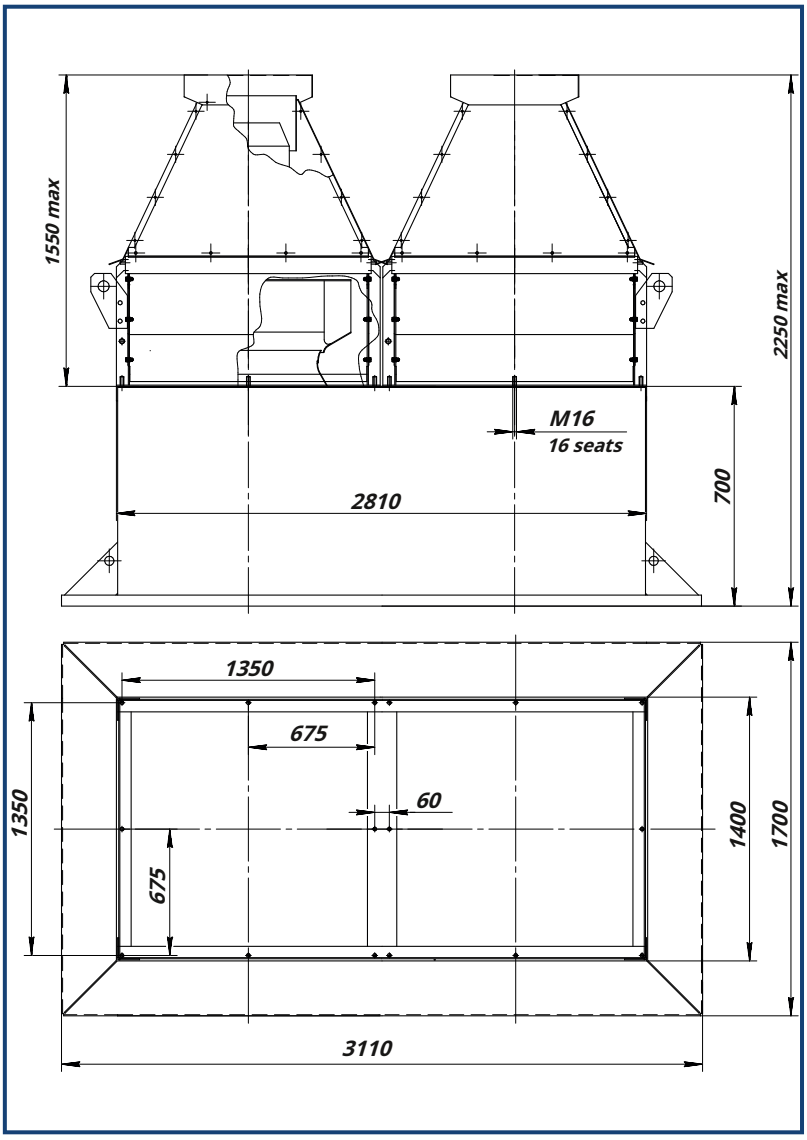

| Curve №. | Power,kW | Frequency of rotation of the impeller, rpm | Rated current, A | Weight of fan, max kg | Weight of the fan with mounting cup, max kg |
|---|---|---|---|---|---|
| *1* | *7.5* | *720* | *19.2* | *626* | *772* |
| *2* | *11* | *720* | *27.3* | *652* | *798* |
| *3* | *15* | *725* | *34.5* | *683* | *829* |
| *4* | *18.5* | *970* | *39* | *683* | *829* |
| *5* | *22* | *975* | *45.2* | *748* | *894* |
| *6* | *30* | *975* | *61.8* | *773* | *919* |

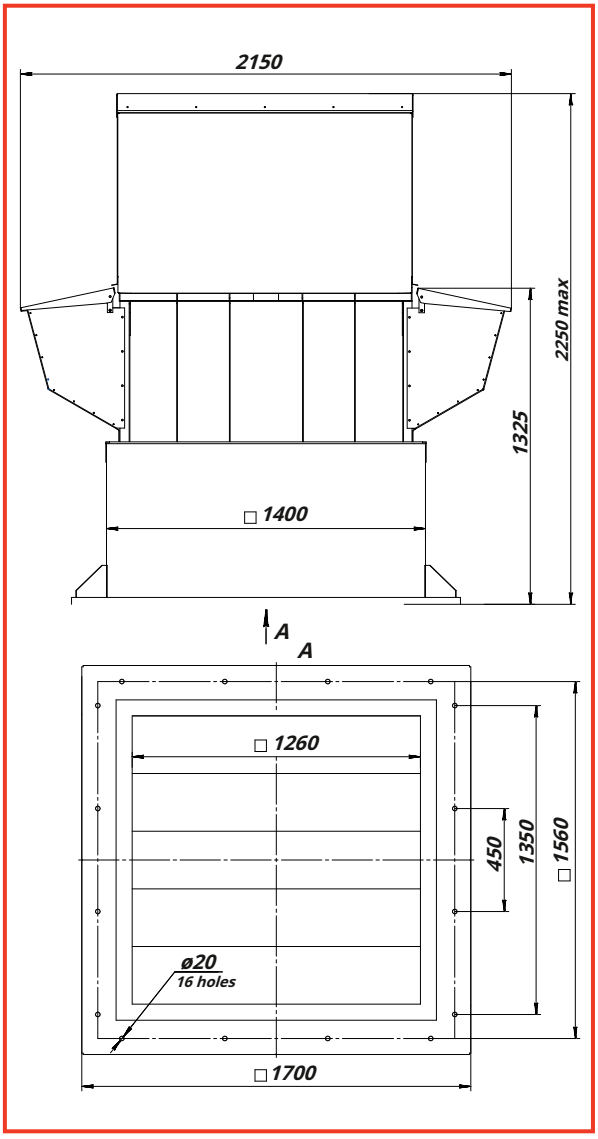
* the masses of paired fans with mounting cups are multiplied by a factor of 2.12

** Paired fans have separate connection boxes

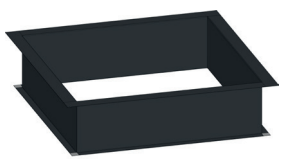
## VKRN(-V)-11,2-DU

Overall and connection dimensions of the VKRN(-V)-11,2-DU fan on mounting cups 2xSTM-140-U-KO-O and STM-140-U-KO-O




## Additional equipment



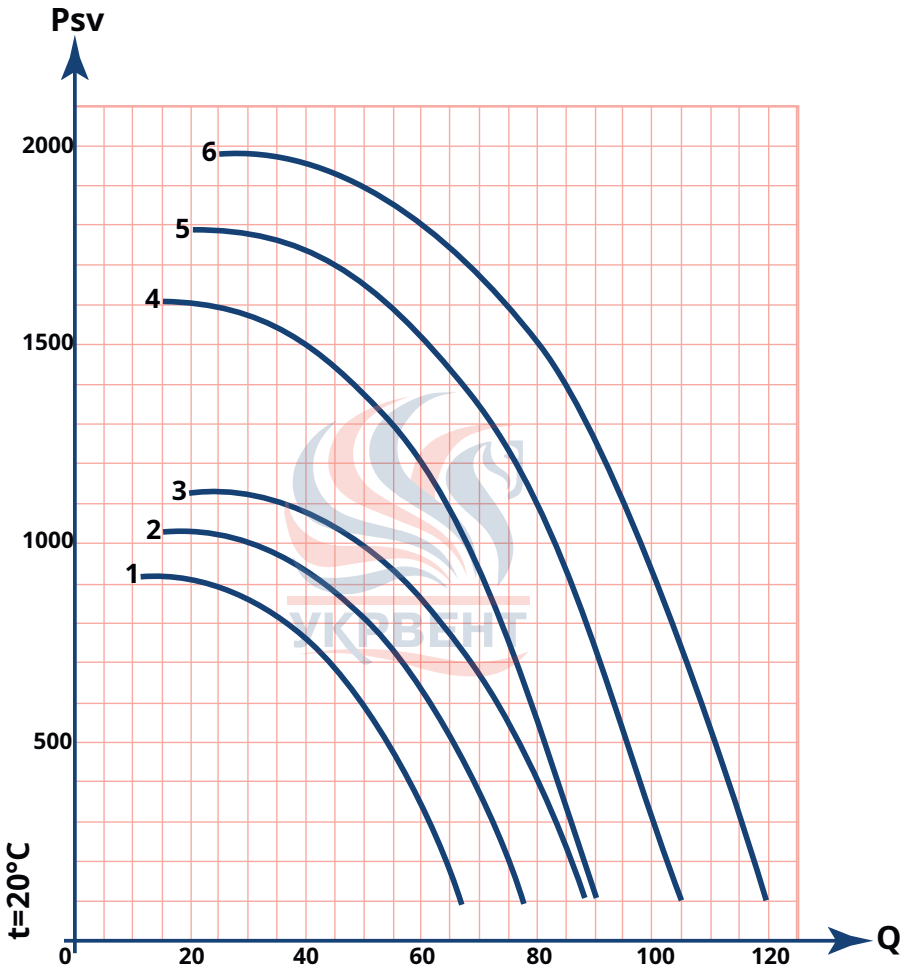
PAK-140 branch pipe

Pallet PID-140

Frequency converter UVE-810

## VKRN(-V)-12.5-DU

### Aerodynamic characteristics



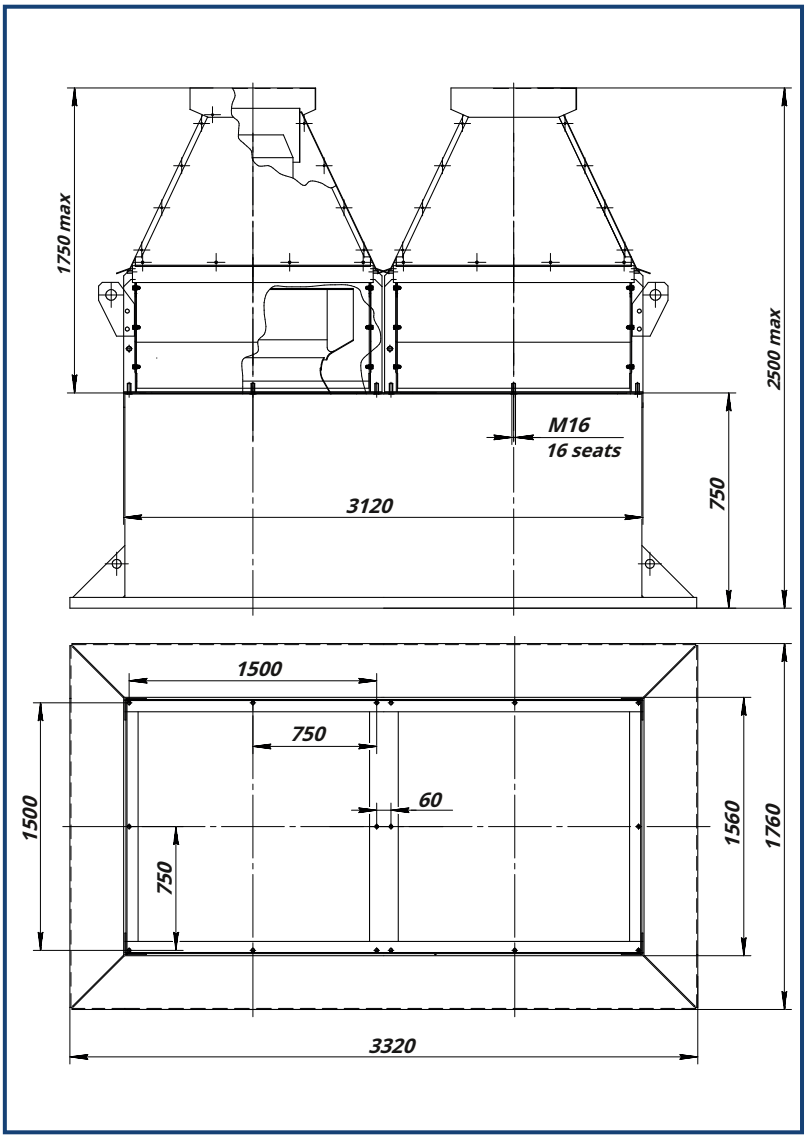

| Curve №. | Power,kW | Frequency of rotation of the impeller, rpm | Rated current, A | Weight of fan, max kg | Weight of the fan with mounting cup, max kg |
|---|---|---|---|---|---|
| *1* | *15* | *725* | *34.5* | *816* | *1032* |
| *2* | *18.5* | *730* | *41.6* | *876* | *1092* |
| *3* | *22* | *730* | *49.4* | *896* | *1112* |
| *4* | *37* | *980* | *73.5* | *966* | *1182* |
| *5* | *45* | *980* | *90.1* | *1066* | *1282* |
| *6* | *55* | *985* | *110* | *1086* | *1302* |

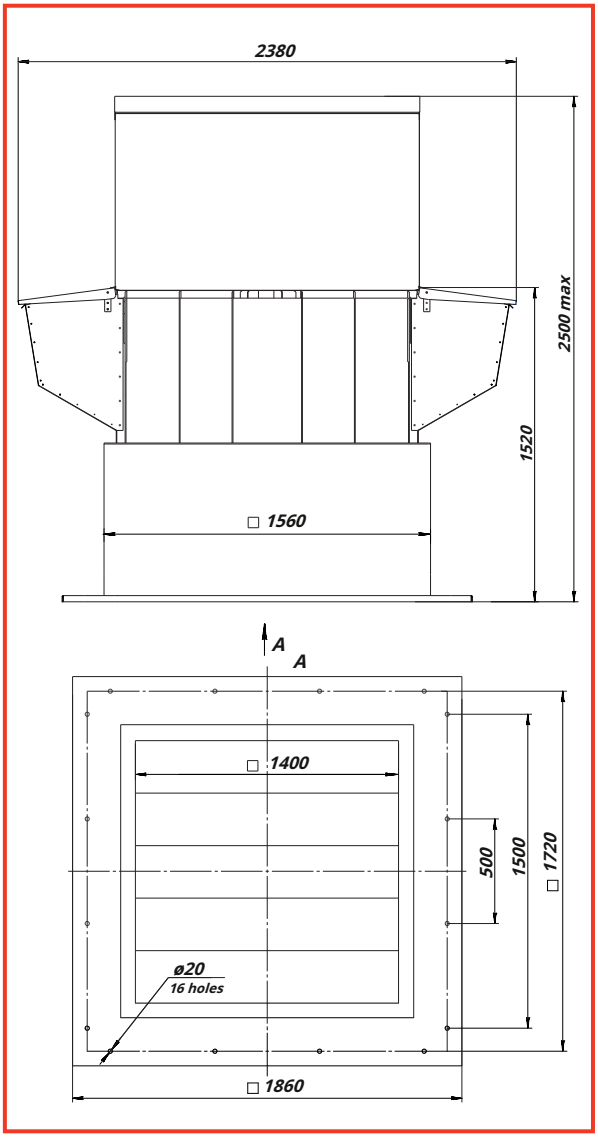
* the masses of paired fans with mounting cups are multiplied by a factor of 2.12

** Paired fans have separate connection boxes

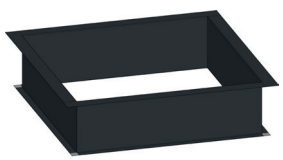
## VKRN(-V)-12.5-DU

Overall and connection dimensions of the VKRN(-V)-12.5-DU fan on mounting cups 2xSTM-156-U-KO-O and STM-156-U-KO-O



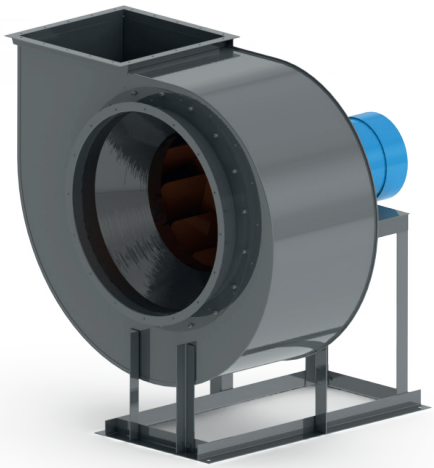

## Additional equipment



PAK-15 branch pipe

Pallet UNDER

Frequency converter UVE-810



adial smoke extraction **VR-80-70-** for removing from the serviced area high-temperature gas-air fumes arising during a fire. Area
Smoke exhaust fans are used in residential, public, industrial and premises that do not belong to fire and explosion hazard categories.

radial removal **VR-80-70-DU** For use outside serviced premises with constant occupancy, the ruler is installed in ventilation chambers.

* used in stationary emergency exhaust ventilation systems;
* air capacity from 1000 $m_{with}$/h up to 84000 $m_{with}$/hour;
* static pressure from 150 Pa to 3100 Pa;
* application temperature 400-600 ° C for at least 120 minutes;
* 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 $m_3$/hour $10_3$;
Psv - static pressure at p = $1_0$.2 kg/$m_{with}$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:

$$Psv_p = (p / p_0) * Psv_0 \qquad Np = (p / p_0) * N \qquad Nt = Psv_t = [293 / (273 + t)] * Psv_0 \qquad [293 / (273 + t)] * N_0$$

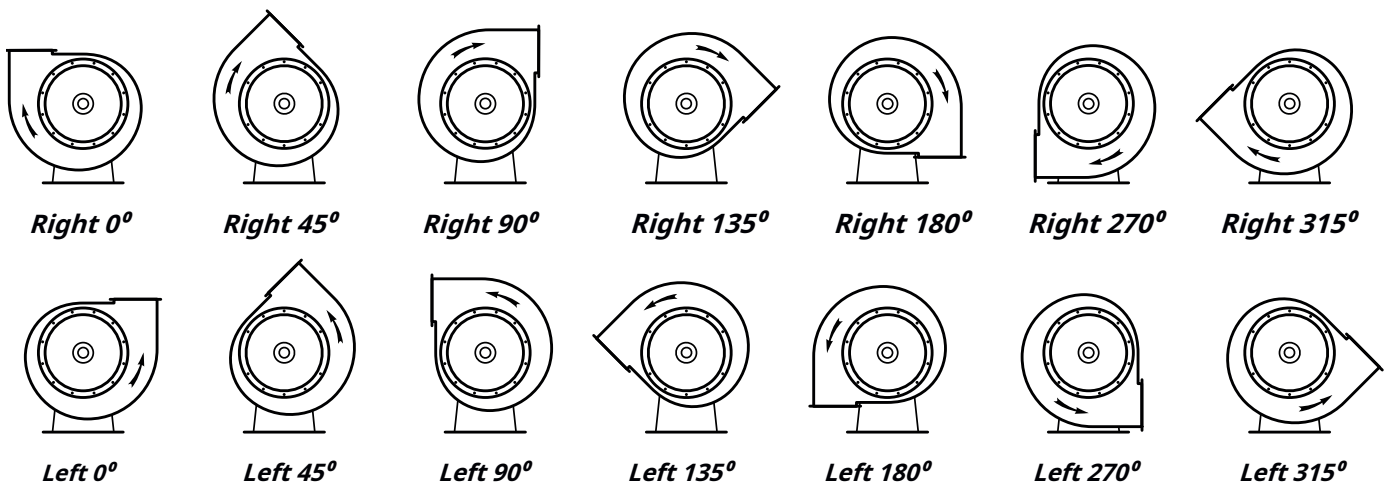
## Marking

Example:
Radial smoke exhaust fan VR-80-70; number 8; smoke exhaust; temperature moving air400°C; housing position left 0°; electric motor with installed power Ny=15 kW, rotation speed n=1500 rpm.

**VR-80-70 - 8 - DU-400 - Left 0° - 15/1500**

| |
|---|
| Fan type:**VR-80-70** |
| Fan number: **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, Ny/n:<br>**Ny**- power, kW;<br>**n**- synchronous speed, rpm (750; 1000; 1500; 3000); |

### *Radial fan housing position options*

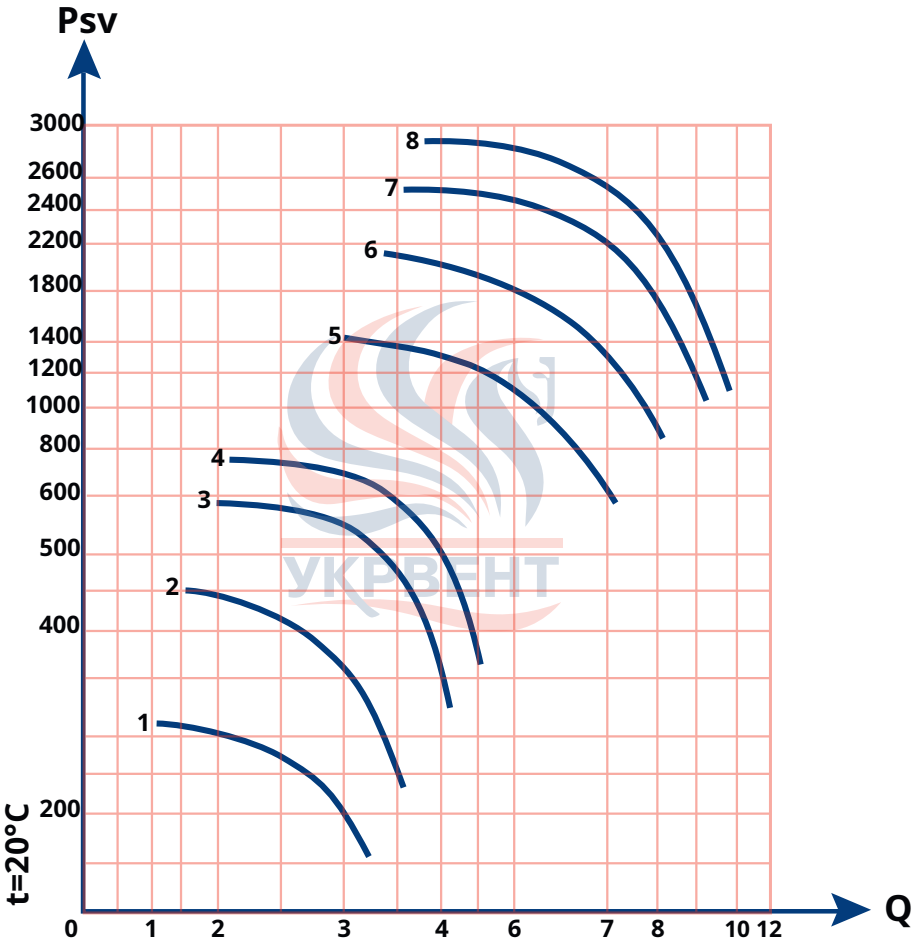



WARNING!

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-80-70-4-DU

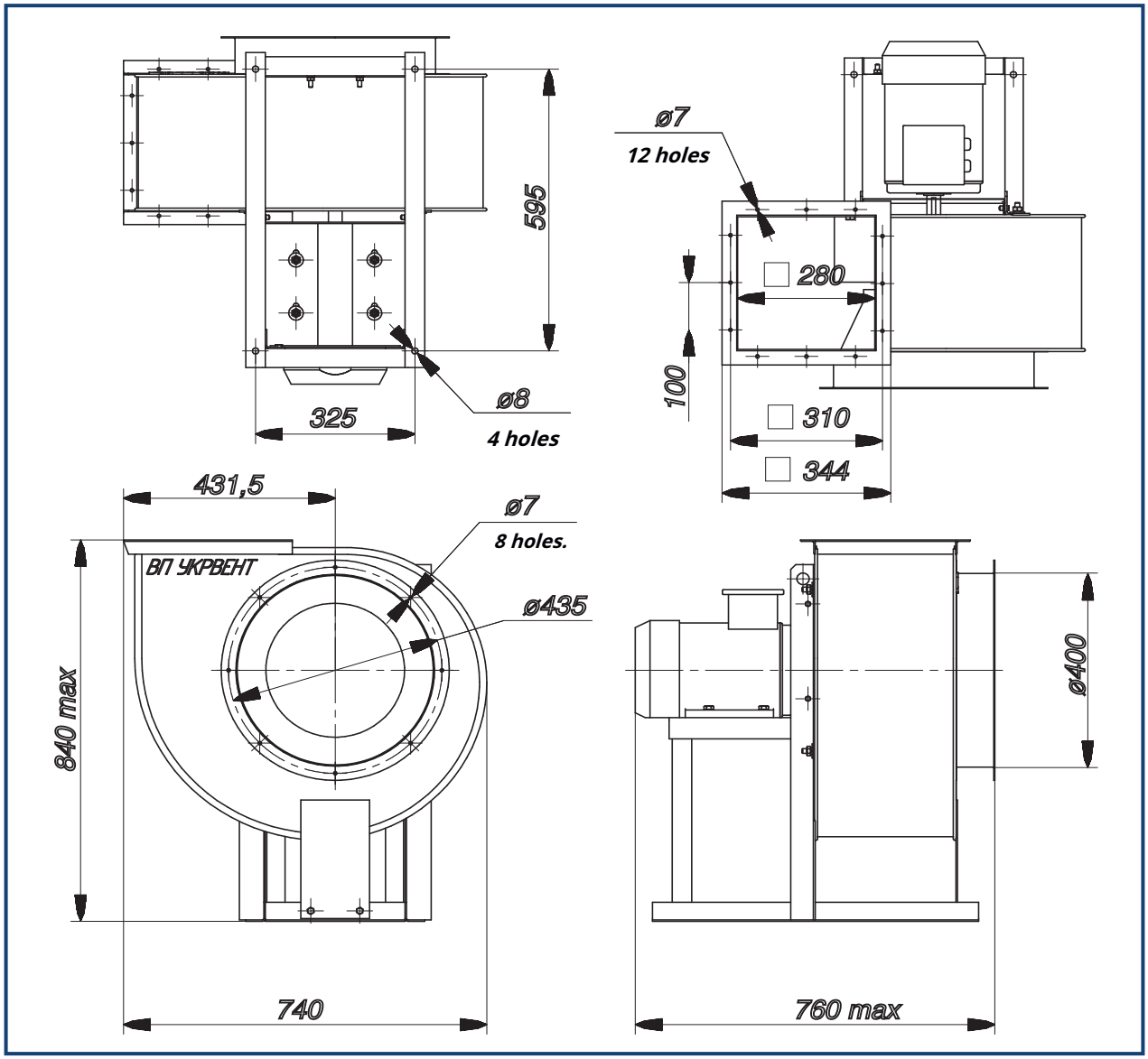
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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* |

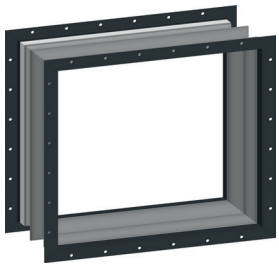
## VR-80-70-4-DU

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




## Additional equipment

Flexible insert
VKO-400

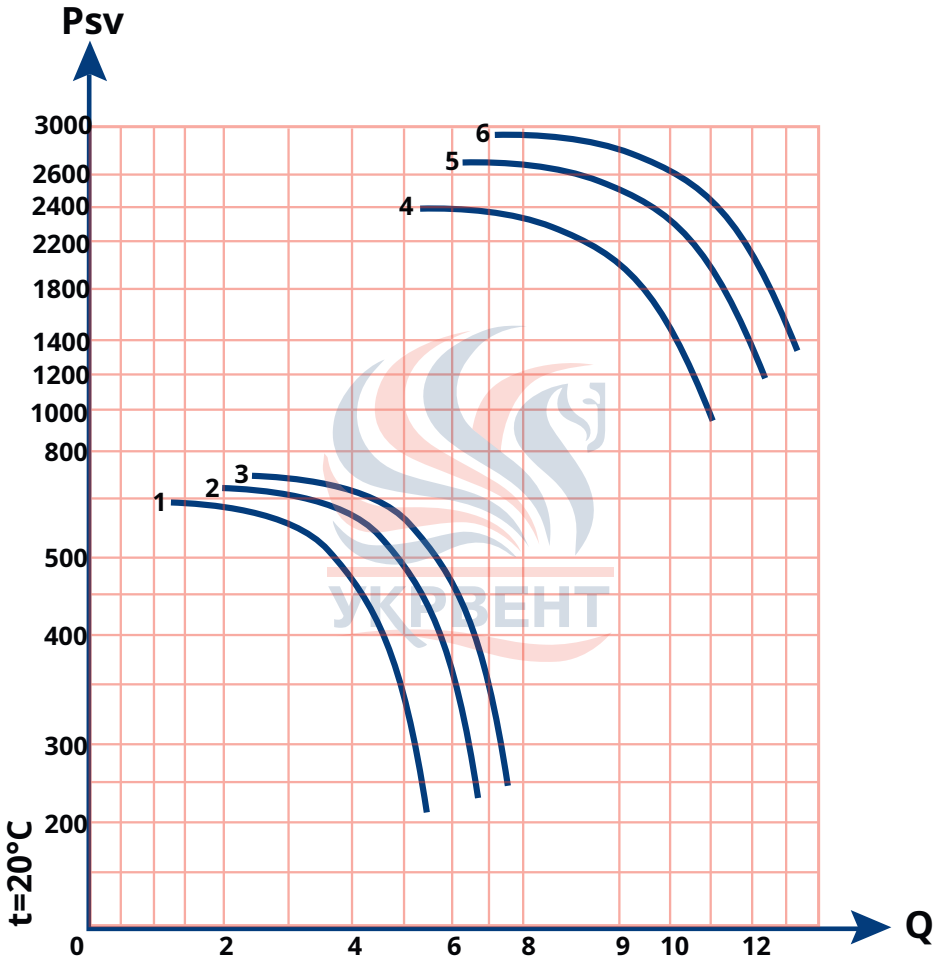


Flexible insert
VPO-400

Vibration isolator RV-30

## VR-80-70-4.5-DU

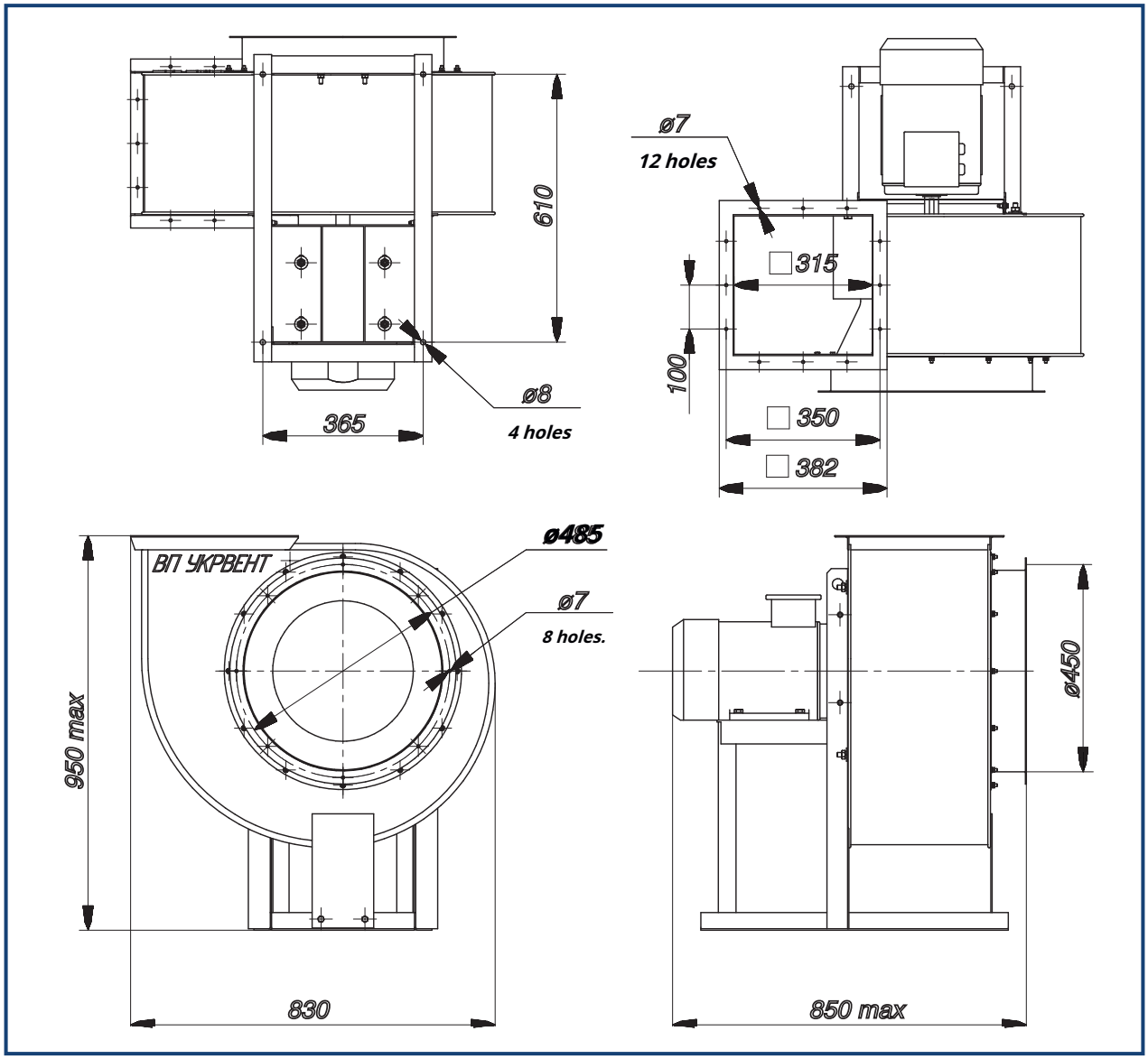
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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* |

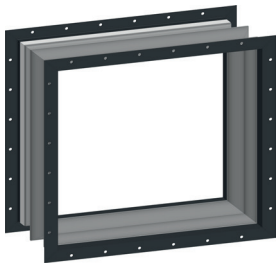
## VR-80-70-4.5-DU

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




## Additional equipment

Flexible insert
VKO-450

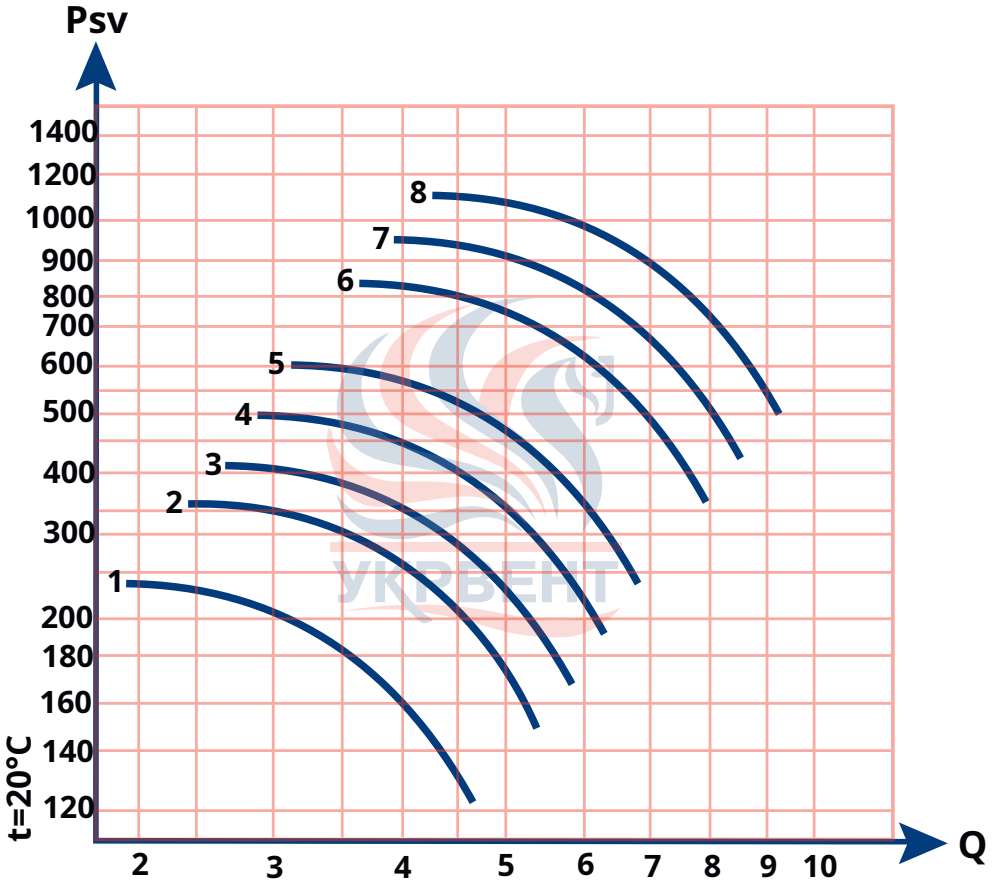


Flexible insert
VPO-450

Vibration isolator RV-30

## VR-80-70-5-DU

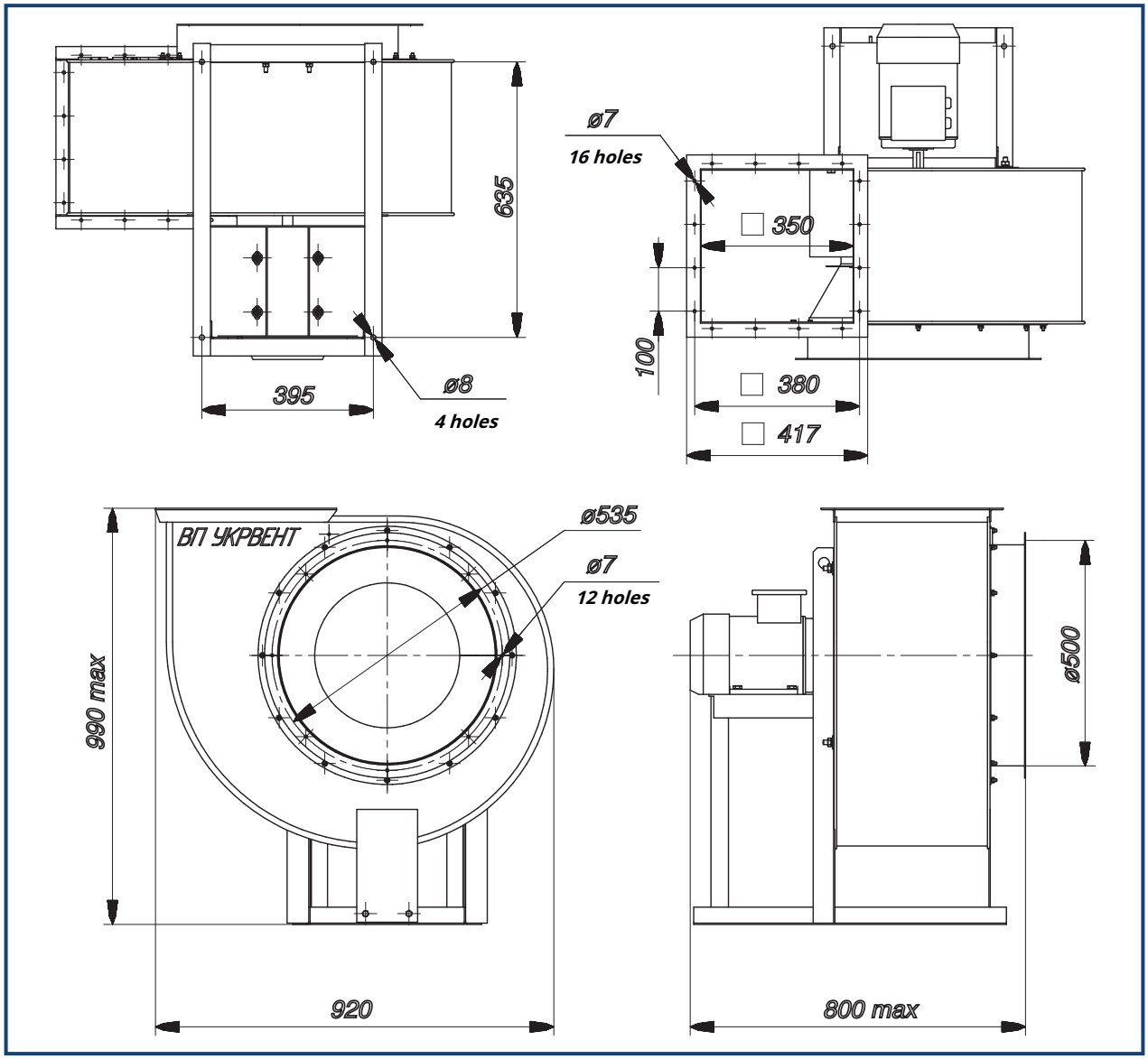
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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 |

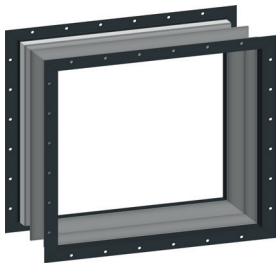
## VR-80-70-5-DU

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




## Additional equipment

Flexible insert
VKO-500

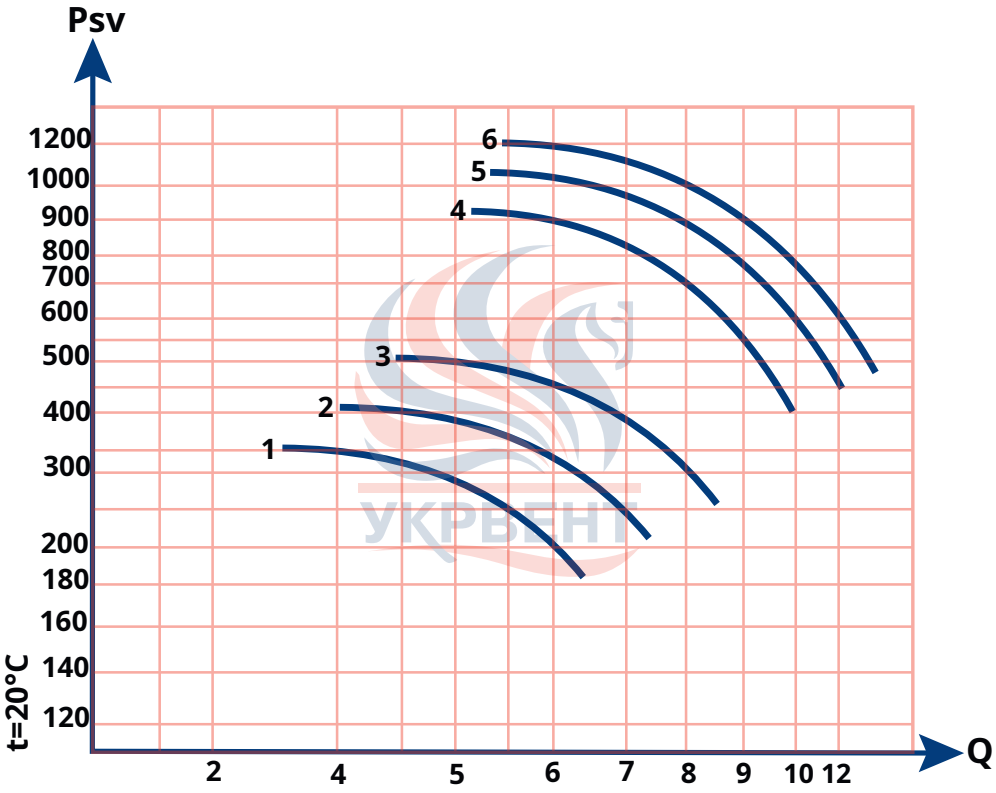


Flexible insert
VPO-500

Vibration isolator RV-30

## *BP-80-70-5,6 - DU*

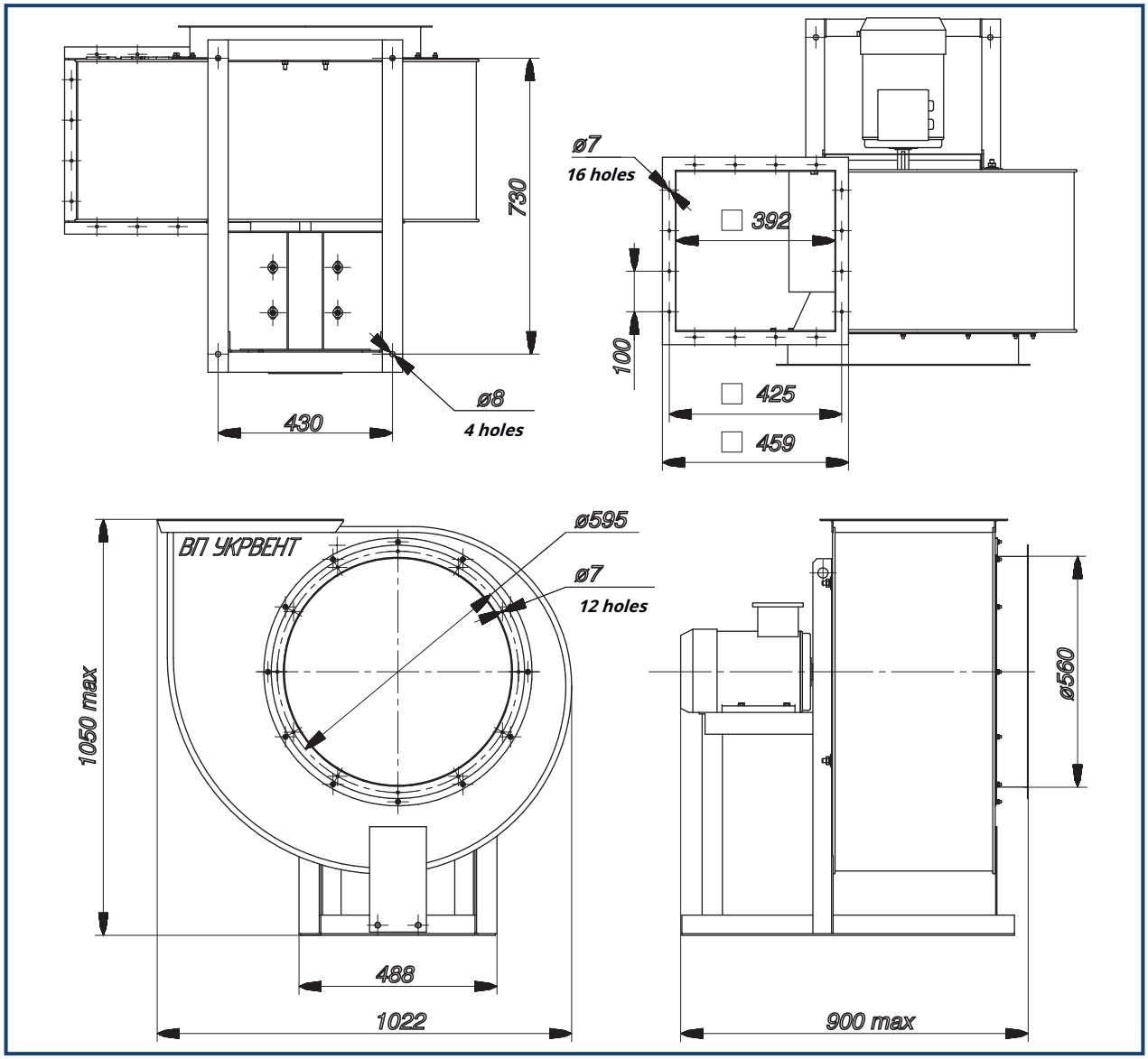
### *Aerodynamic characteristics*




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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* |

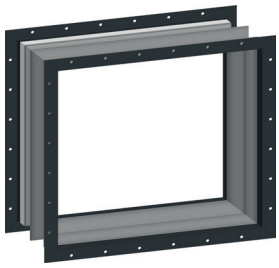
## VR-80-70-5.6-DU

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




## Additional equipment

Flexible insert
VKO-560

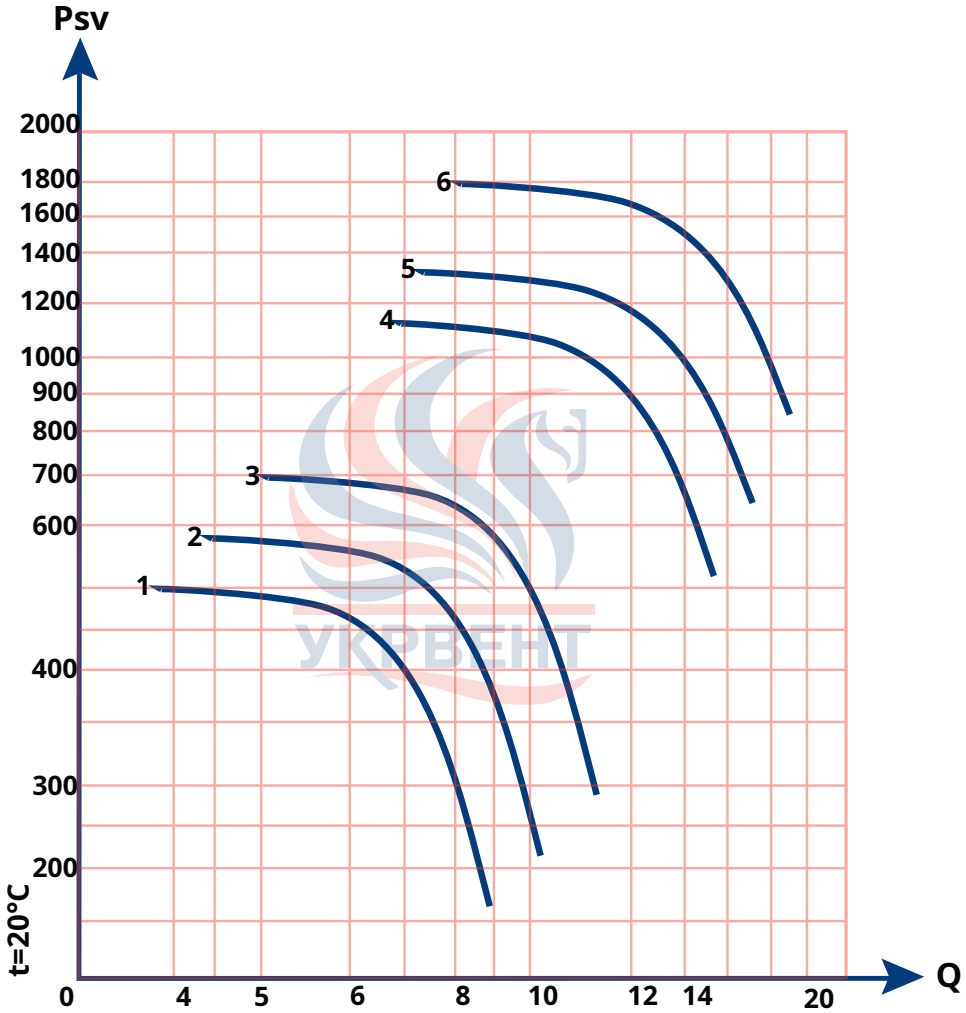


Flexible insert
VPO-560

Vibration isolator RV-30

## VR-80-70-6.3-DU

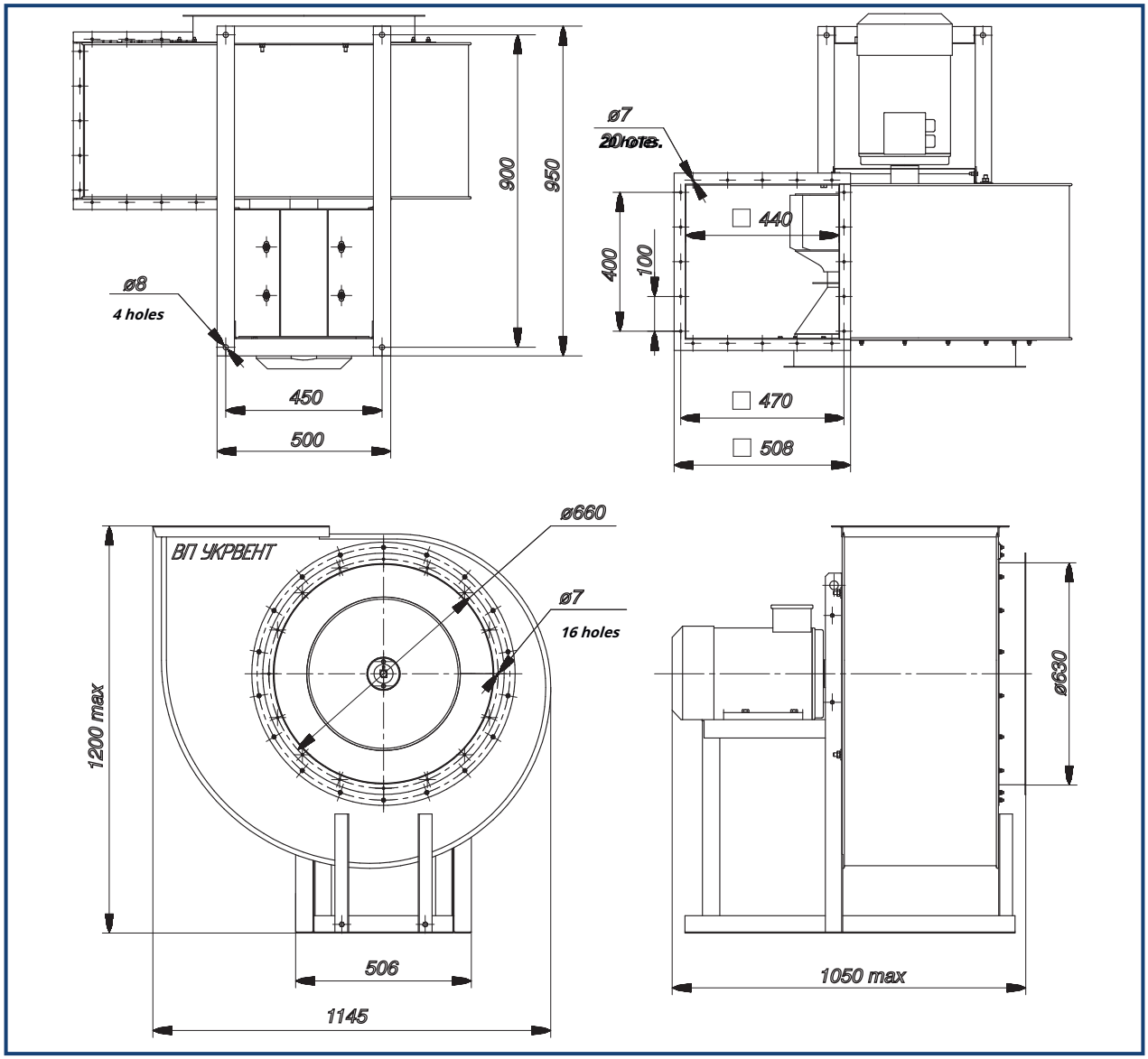
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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 |

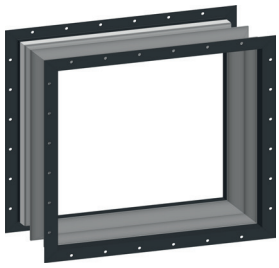
## VR-80-70-6.3-DU

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




## Additional equipment

Flexible insert
VKO-630

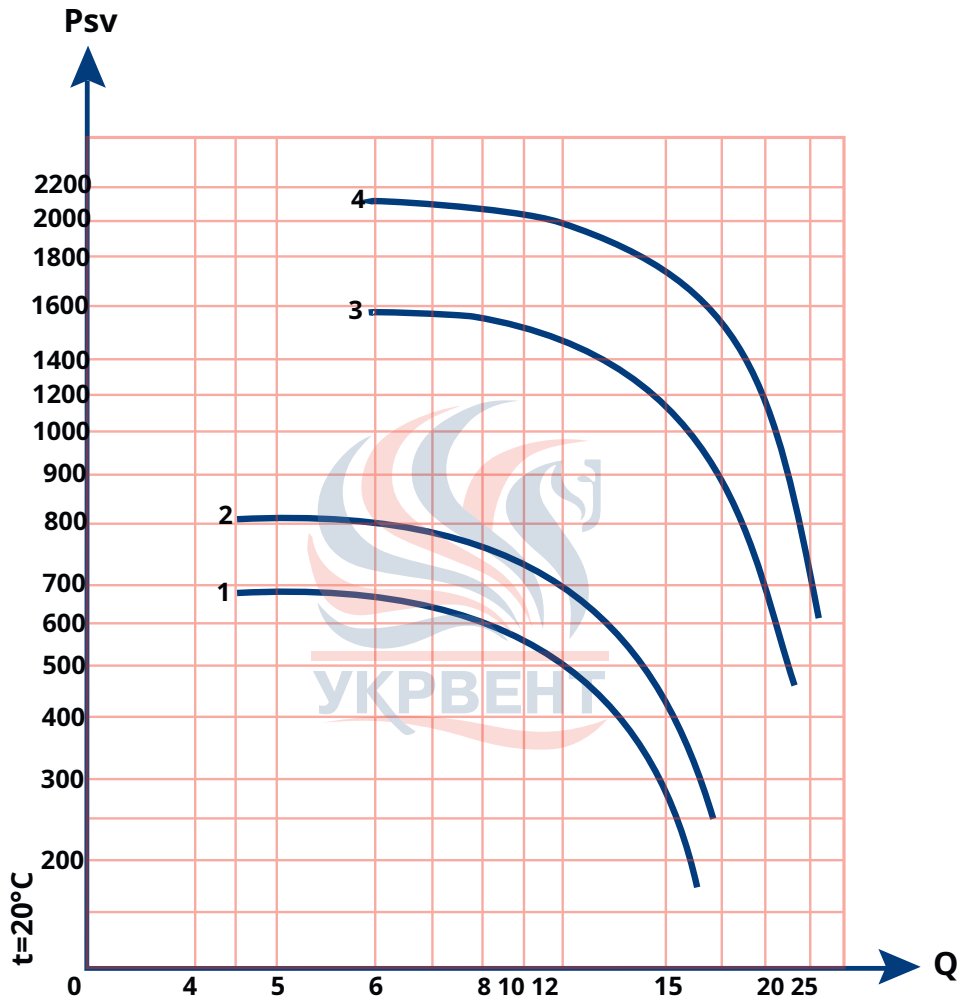


Flexible insert
VPO-630

Vibration isolator RV-40

## VR-80-70-7.1-DU

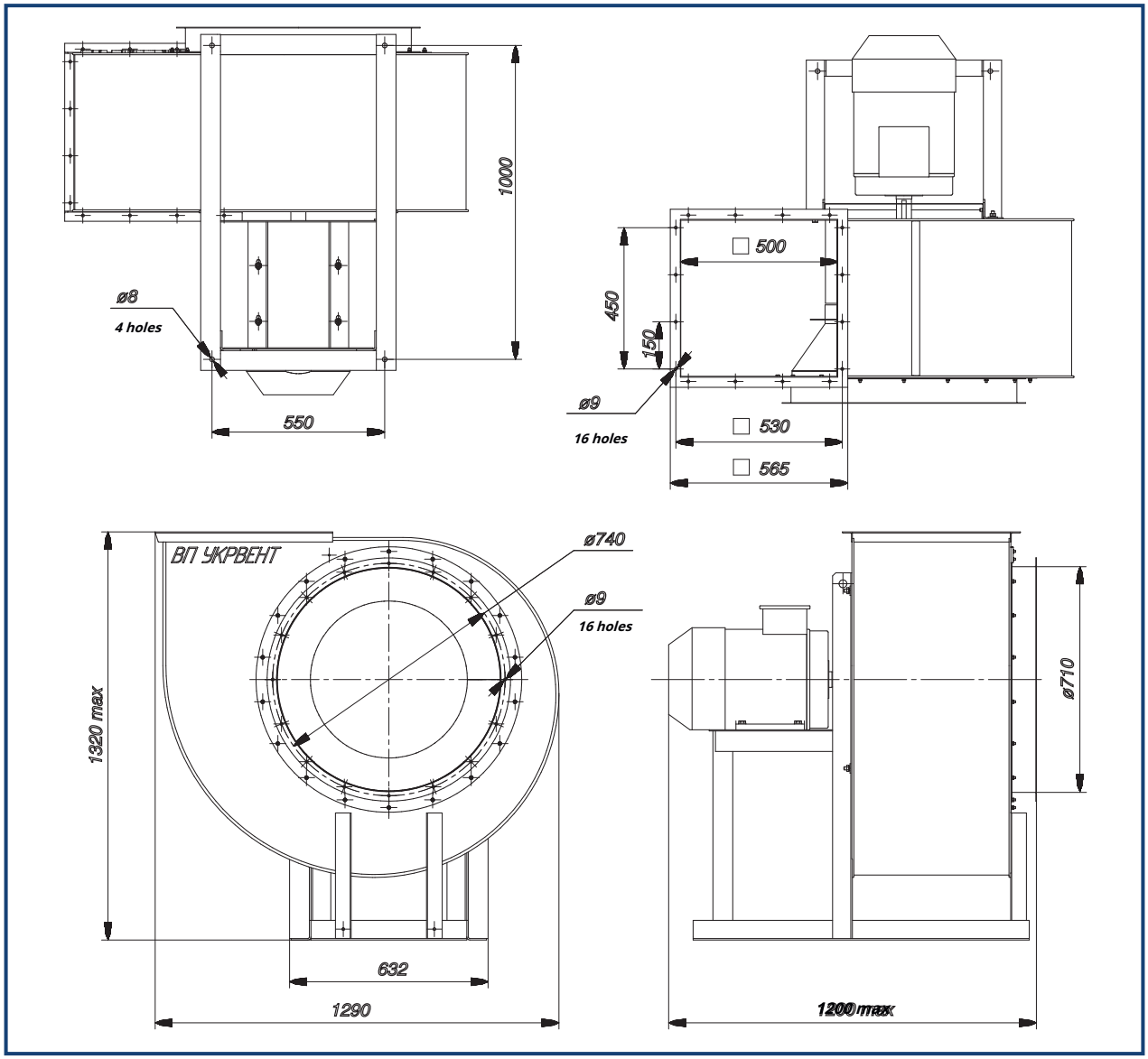
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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* |

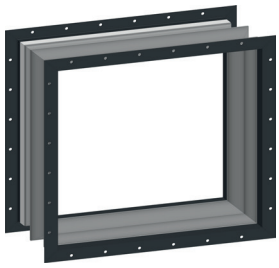
## VR-80-70-7.1-DU

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




## Additional equipment

Flexible insert
VKO-710

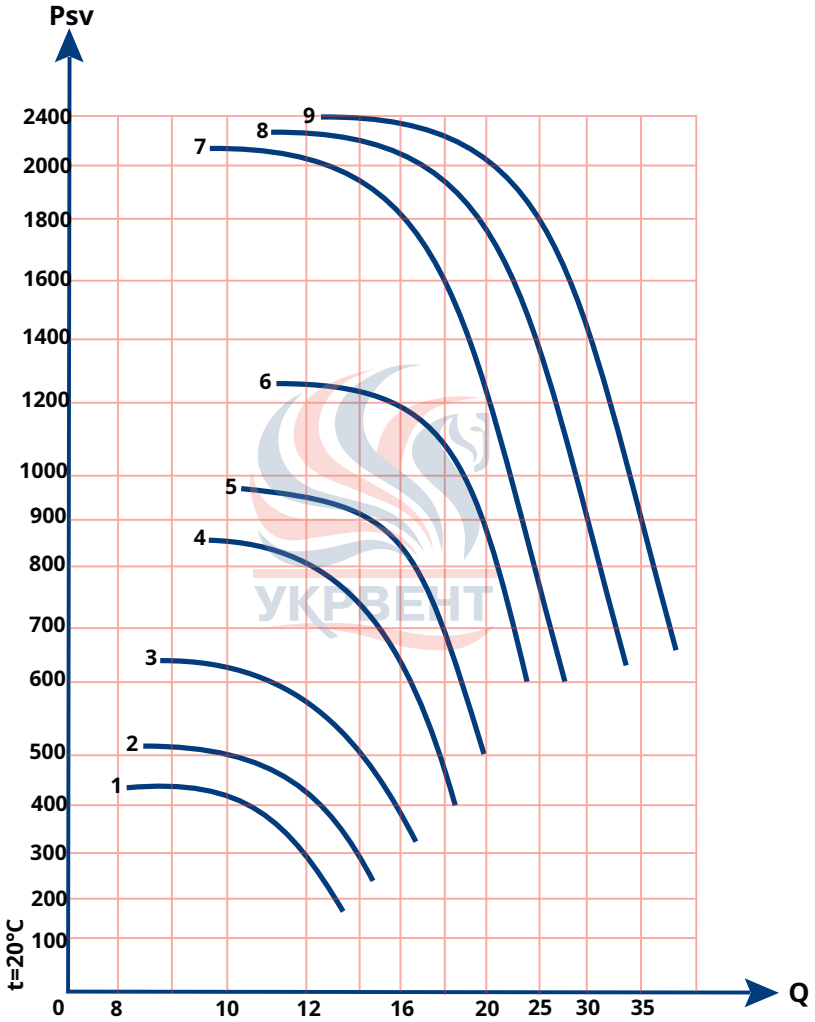


Flexible insert
VPO-710

Vibration isolator RV-40

## VR-80-70-8-DU

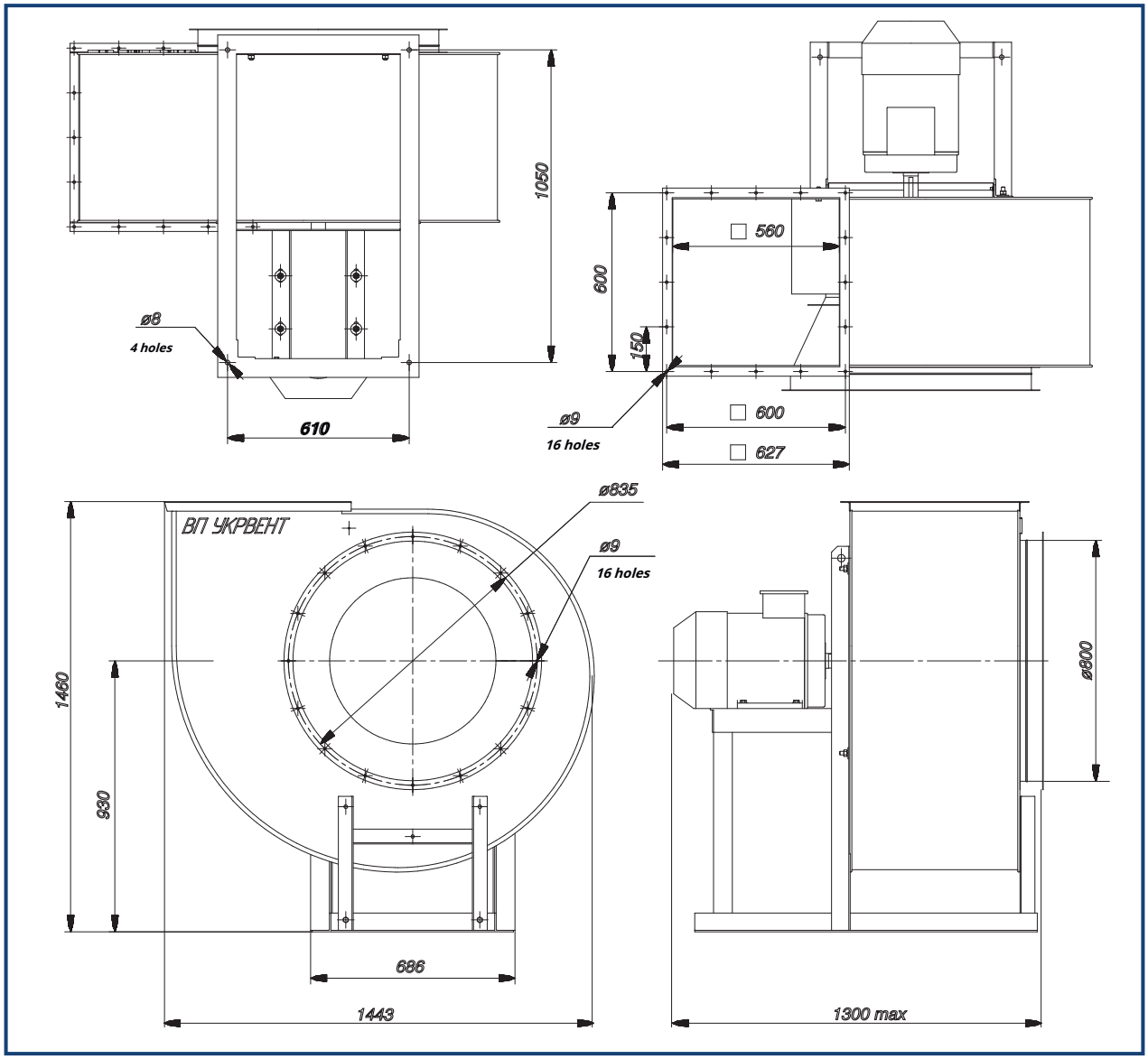
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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* |

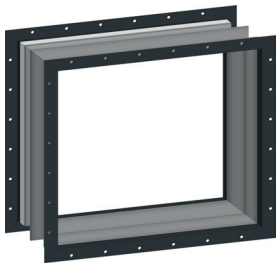
## VR-80-70-8-DU

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




## Additional equipment

Flexible insert
VKO-800

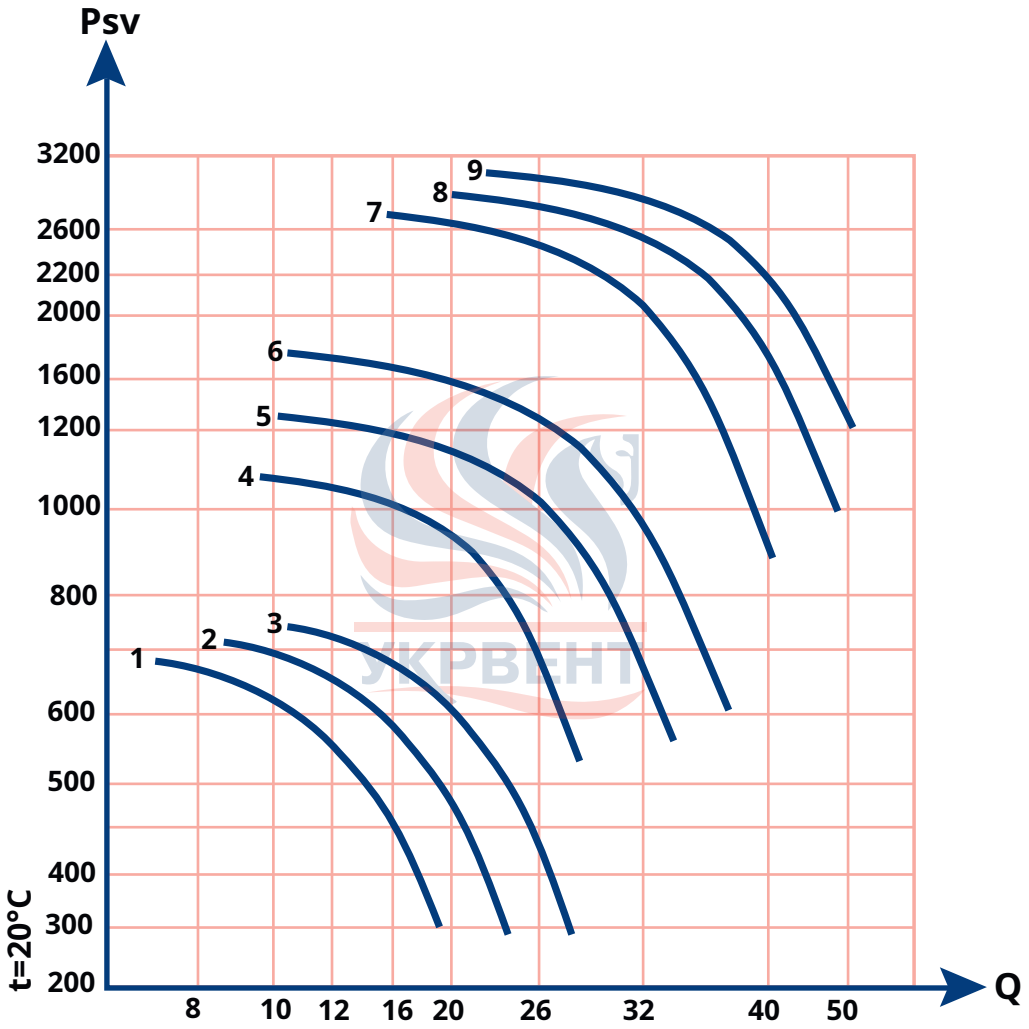


Flexible insert
VPO-800

Vibration isolator RV-40

## VR-80-70-9-DU

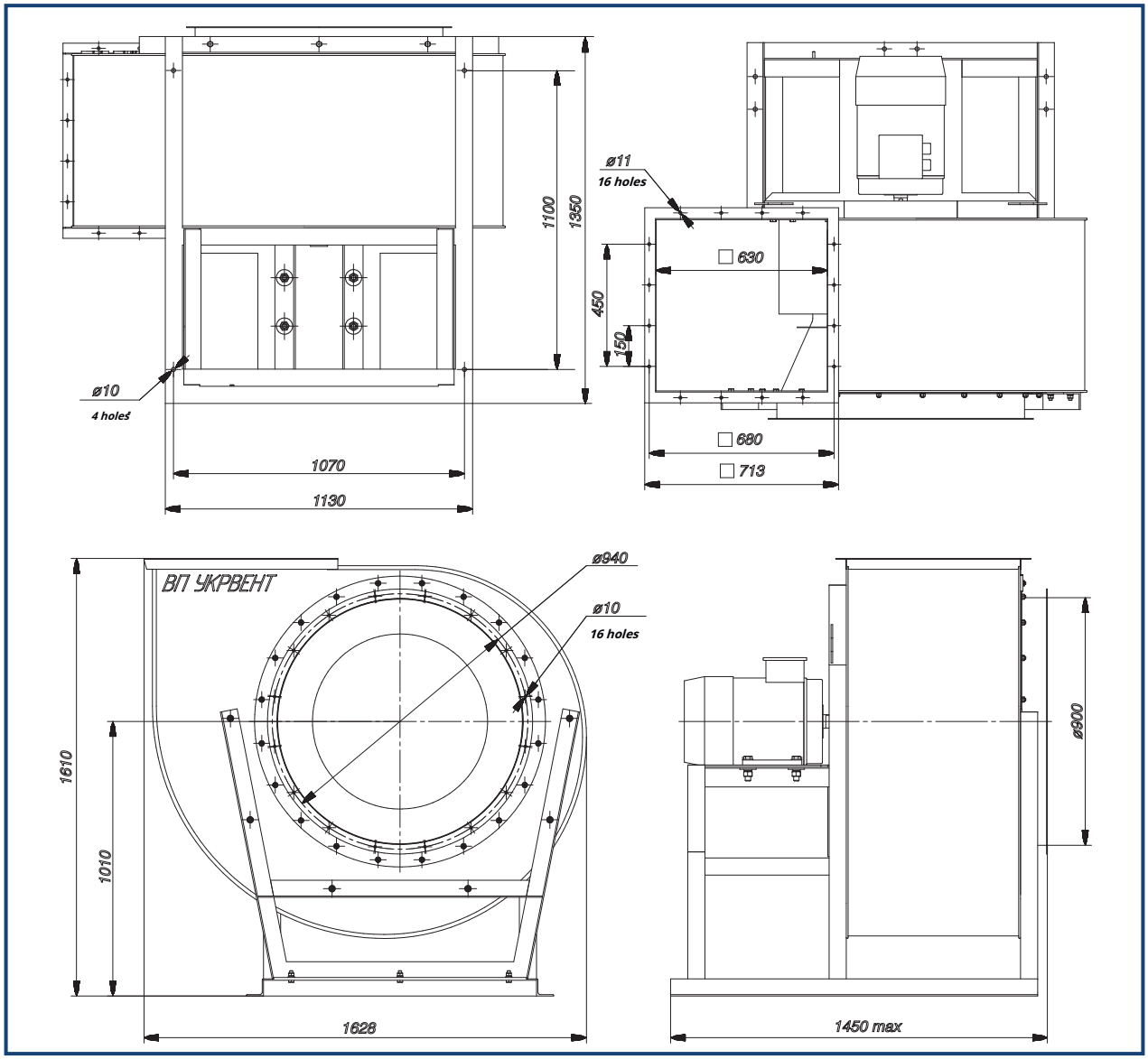
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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* |

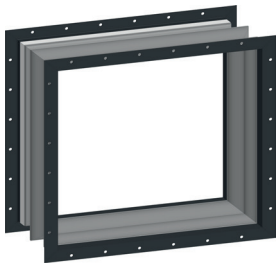
## VR-80-70-9-DU

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




## Additional equipment

Flexible insert
VKO-900

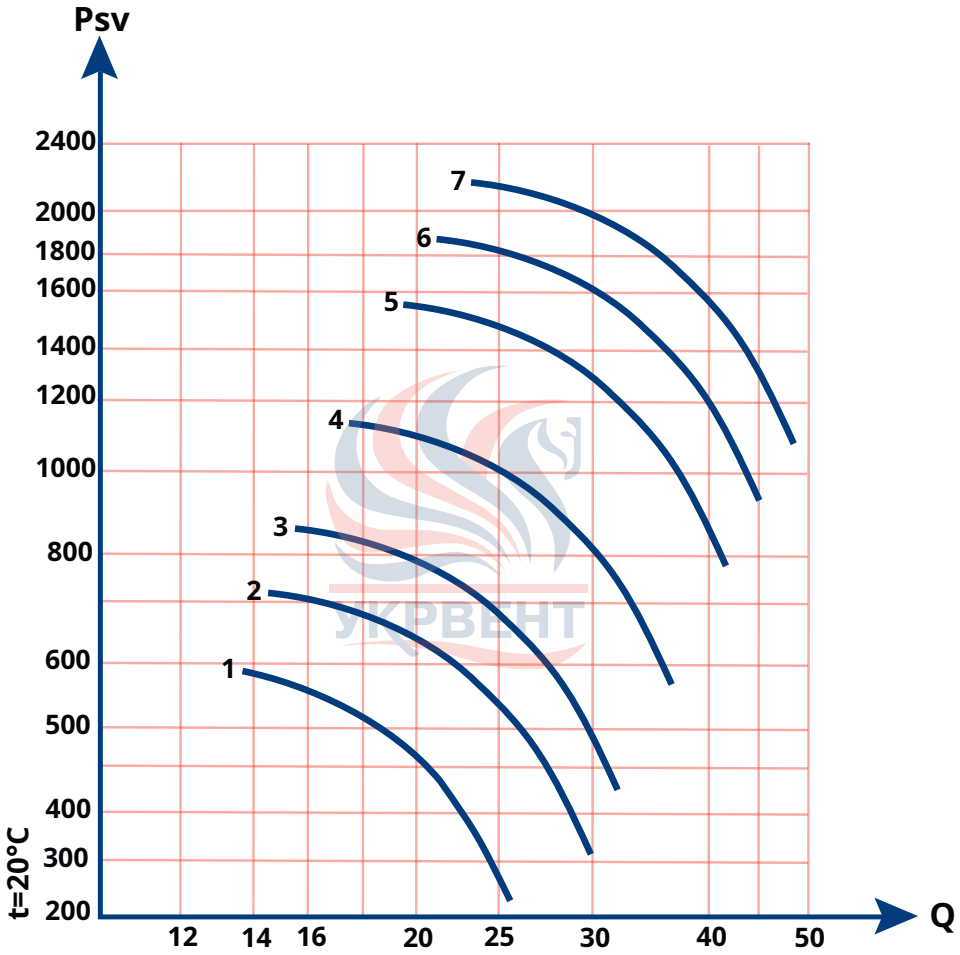


Flexible insert
VPO-900

Vibration isolator RV-50

## VR-80-70-10-DU

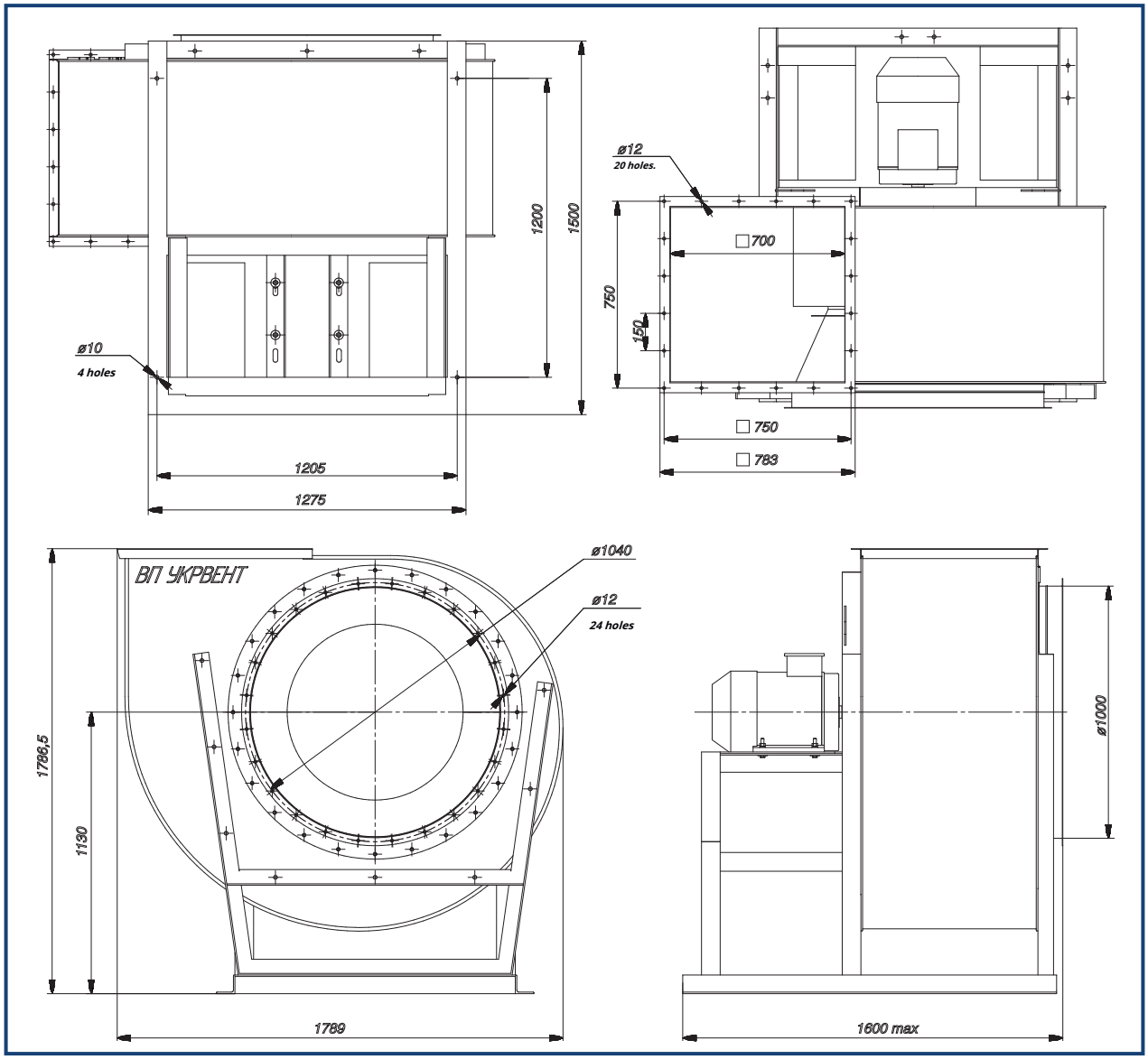
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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* |

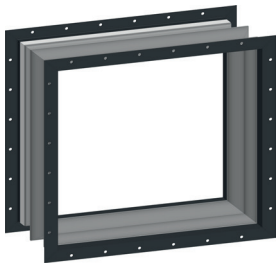
## VR-80-70-10-DU

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




## Additional equipment

Flexible insert
VKO-1000

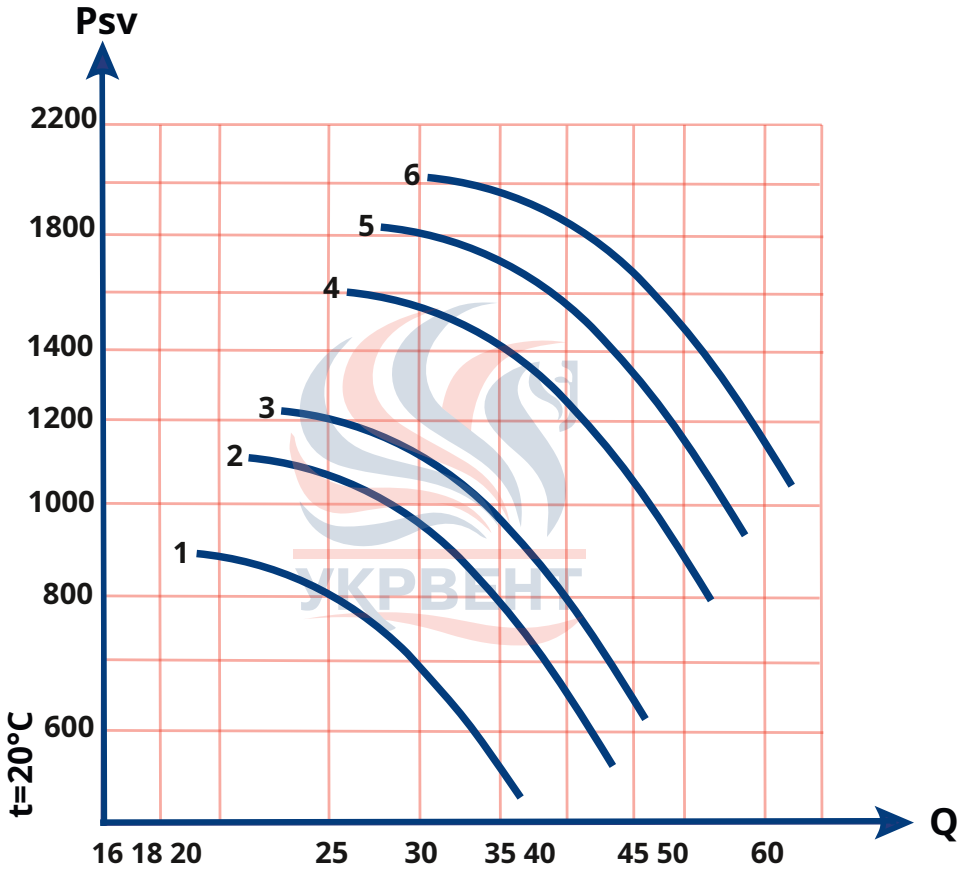


Flexible insert
VPO-1000

Vibration isolator RV-50

## VR-80-70-11.2-DU

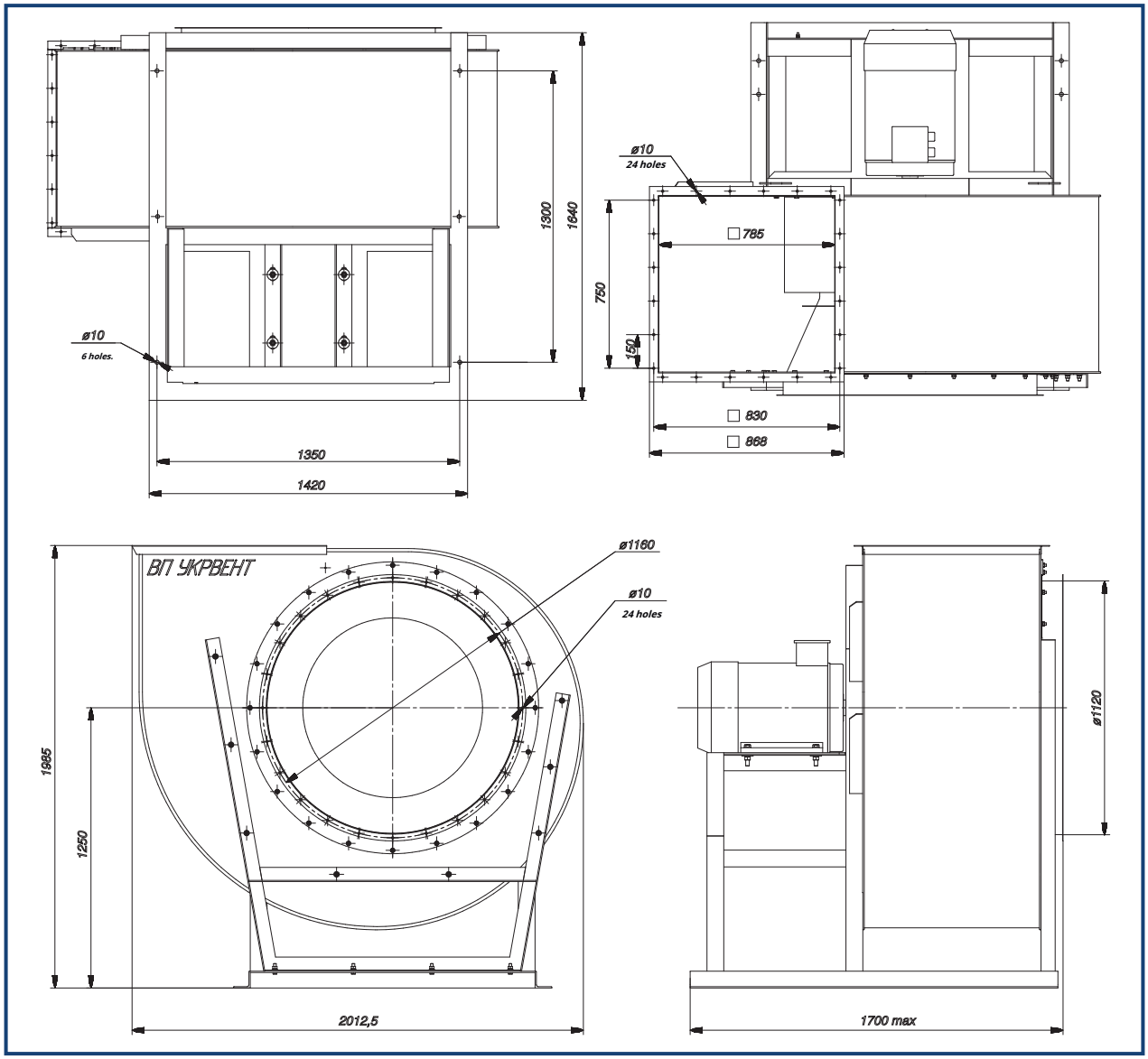
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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* |

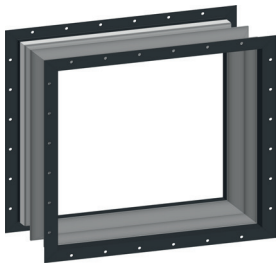
## VR-80-70-11.2-DU

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




## Additional equipment

Flexible insert
VKO-1120

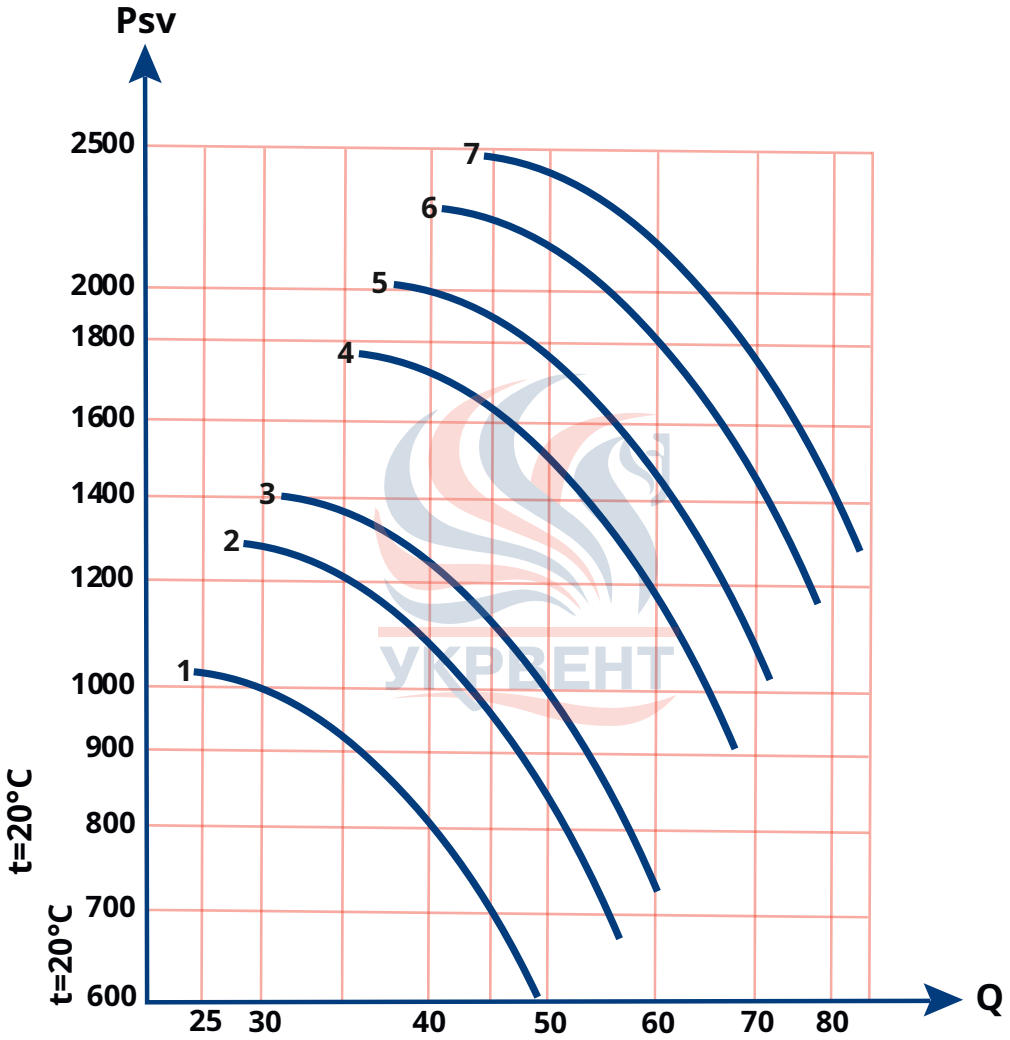


Flexible insert
IDP-1120

Vibration isolator RV-50

## VR-80-70-12.5-DU

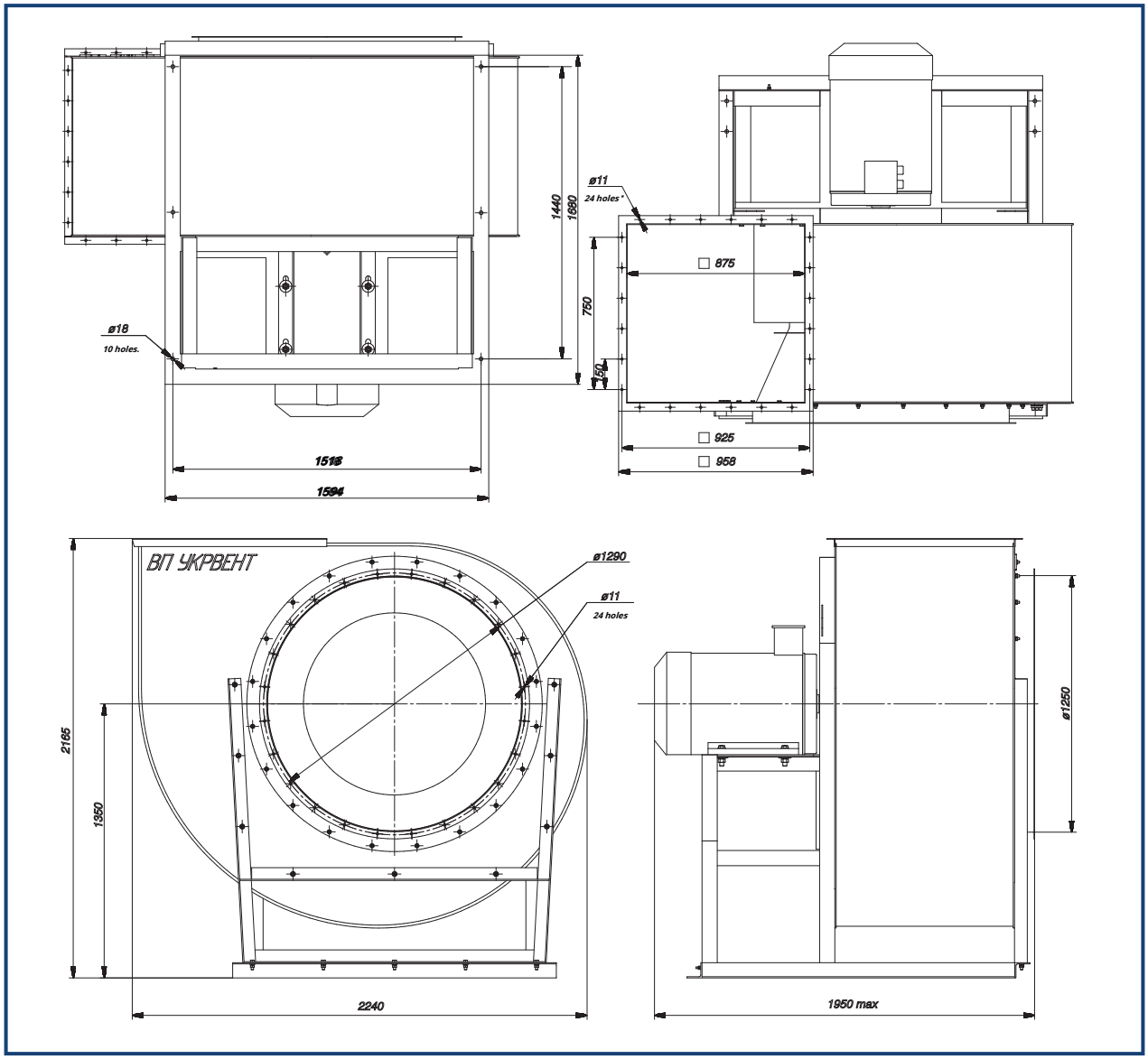
### Aerodynamic characteristics




| Curve №. | Power, kW, | Rotation speed of the impeller, rpm | Rated current, A | Fan weight, 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* |

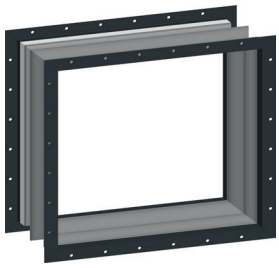
## VR-80-70-12.5-DU

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




## Additional equipment

Flexible insert
VKO-1250



Flexible insert
IDP-1250

Vibration isolator RV-50