

OPERATION AND ASSEMBLY MANUAL

DVP HIDE - DUCK FANS

APPLICATION:
DVP HIDE fans can be used in industrial and residential spaces (workshops, warehouses, garages, bathrooms).

CONSTRUCTION:
The DVP HIDE fan is a single-phase asynchronous induction motor designed for continuous operation. The radial turbine and casing are made of polymer materials.

INSPECTION:
DVP HIDE fans do not require frequent inspections. The fan is designed for continuous operation, and depending on the operating conditions of the fan, periodic inspections can be performed.

INSTALLATION:
DVP HIDE fans are installed on the wall, ceiling, or frame prepared for the installation of circular ducts. Electrical connections must be made by an electrician with professional qualifications!

After unpacking the fan, check:

The condition of the fan casing (dents, deformations)
The fan blade should not rub against the casing.
The technical label must correspond to the parameters of the electrical installation at the fan connection point. It is recommended to check the condition of the product due to possible damage during transport.

!!! WARNING !!!

Before starting the installation, turn off the power supply! Inspect the installed fan. If no damage is found, you can proceed with the installation:

Prepare the electrical connection
Mount the fan into the ventilation duct
Place the duct on both sides of the flanges insulated in the casing
Secure the duct using a clamp and screwdriver
Electrical connections must be made by an electrician with professional qualifications!

MAINTENANCE:
To remove dirt from the fan:

Disconnect the fan from the power supply
Dismantle the fan - in case of serious contamination, dismantle the turbine using a screwdriver or key
Thoroughly clean all parts with a damp cloth and a little soap, being careful not to wet the motor
After wiping dry, reassemble all parts of the fan
Reinstall the fan in its original position.

MOTOR MAINTENANCE:
The motor should be regularly inspected depending on the conditions, at least every 2 years. Inspection and control should be carried out by a person with relevant qualifications. It should be checked for:

Insulation and winding resistance
Bearing condition.

ELECTRICAL CONNECTION:
Make sure that the voltage (V) and frequency (Hz) of the power supply at the installation location correspond to the values specified on the type label.
After installation, the device must be able to be turned off from the power grid. This is done by turning off the appropriate protective device (fuse, circuit breaker) of the fixed electrical installation to which the fan is connected, and which complies with the electrical standards applicable at the installation location with respect to the effects of external influences.
The device must be permanently connected to the electrical installation on the fan side. (2- or 3-core cable with a minimum cross-section of 1 mm² and a maximum of 1.5 mm²) using a connection terminal, which is part of the fan and is located under a cover that is screwed onto the fan.

Follow the wiring diagram (see: fig. 2A, 2B, 2C) for electrical connection.

Wiring 2A and 2B allows for a choice of Low/Medium/High speeds and is selected using a suitable switch that has 3 selectable positions. If we choose a wiring without a switch, we can choose only Low or Medium or High speeds separately, depending on which terminals we connect the voltage to. The fan can have the voltage supplied to only two terminals at any one time, otherwise it will be damaged. Wiring 2B is the standard wiring for the fan, we connect the L and N wires to the terminal block - it does not allow for a choice of speeds.

Description of connection of supply wires according to the diagram 2A, 2B terminal block:

- 1 N wire
- 2 L wire - high speed
- 3 L wire - medium speed
- 4 L wire - low speed

The device does not have a terminal for connecting a protective conductor. This is an electrical object of protection class II.
Thread the power cable through an insulated holder (O). Place the power cable so as to prevent the entry of liquids or vapors. The power cable must comply with the method of installation when passing through the declared covering specified on the fan label. The work must be carried out by an electrician with professional qualifications.
The device has one, two, or three motor speeds (depending on the model).

Available versions:
STANDARD, no adjustment required.

SETTING AND OPERATION:
Perform the necessary settings according to the installed model. The extraction fan will turn on when activated by the switch.
Before putting the fan into operation, make sure that all connections to the electrical power supply have been made correctly according to the instructions and that the cables are connected in accordance with the wiring diagrams for the type and model of the installed fan.
Return the cover to the correct position and make sure that it cannot be removed without using a tool.
Make sure that the blades rotate freely.

!!! WARNING !!!
Connection to the electrical network must be performed by an electrician with professional qualifications and necessary licenses! Before maintenance, adjustment, or cleaning, always disconnect or turn off the fan from the electrical network! The electrical installation must contain a switch, where the distance between the contacts of all poles is not less than 3 mm.
Ventilation must not be conducted through an open chimney or with other appliances with an open flame. Fans should not be used in rooms with high humidity and in spaces with explosion hazards. During operation, it is forbidden to manipulate the fan without prior disconnection of the power supply from the network. The fan must always be installed in accordance with the instructions.

WARRANTY
A 2-year warranty is provided for DVP HIDE duct fans from the date of purchase. The warranty is valid only with a proof of purchase and properly completed complaint protocol. The warranty does not cover defects caused by external mechanical forces, pollution, own modifications, chemical factors, and unprofessional installation.

fig. 1

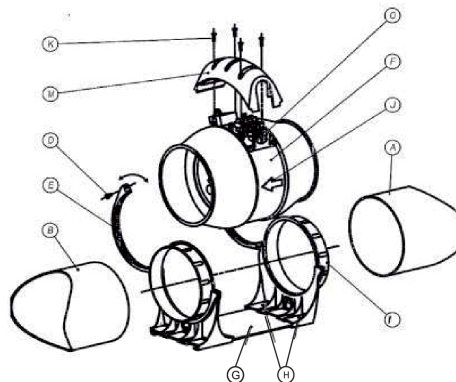


fig. 2C

- A. Suction part of the pipe
- B. Discharge section of the pipe
- D. Bolts
- E. Clamps
- F. Casing
- G. Holder with holes
- H. Mounting holes in bracket
- I. Nozzle
- J. Flow direction arrow (it is on the cover - upper part)
- K. Screws from the cover
- M. Connection cover
- O. Flexible bracket

STANDARD

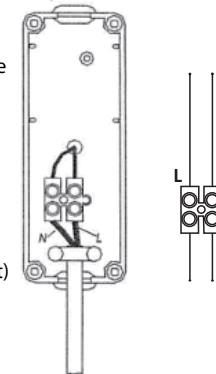
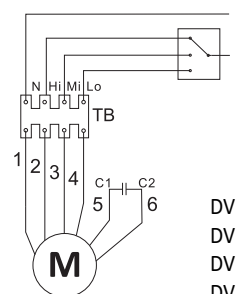
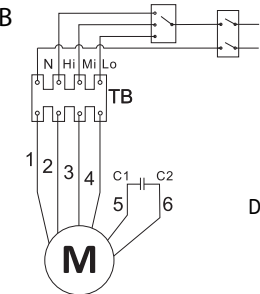


fig. 2A



DVP HIDE 100
DVP HIDE 125
DVP HIDE 150
DVP HIDE 160

fig. 2B



DVP HIDE 200

1	N	BLACK
2	Hi	BLUE
3	Mi	BROWN
4	Lo	WHITE
5	C1	RED
6	C2	VIOLET

DVP HIDE	100	125	150	160	200
Proud vzduchu/ Air flow/ Расход воздуха/ Luftstrom m ³ /h	120/138/198	180/200/280	288/330/432	288/330/432	660/750/970
Akustický tlak/ Acoustic pressure/ звуковое давление/ Schalldruck dB(A)	41/46/56	41/46/56	54/55/63	54/56/63	61/63/68
El. napájení/ Supply voltage/ частота напряжения/ Versorgungsspannung ~50 Hz	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V
Napájení/ Power/ мощность двигателя/ Leistung W	22/24/33	24/26/36	40/45/55	40/45/55	110/115/135
Tlak/ Pressure/ давление/ Druk Pa	90/110/140	80/100/140	100/150/220	100/150/220	240/280/290
Spotřeba energie/ Power consumption/ потребляемая мощность/Energieverbrauch A	0,09/0,09/0,11	0,09/0,10/0,12	0,17/0,18/0,18	0,17/0,18/0,18	0,44/0,45/0,45
Max. pracovní teplota/ Max. working temperature/ Max. рабочая температура/ Max. Arbeitstemperatur °C	35	35	35	35	40
Váha/Weight/вeс/ Gewicht kg	2	2,1	2,9	2,9	4,9
Stupeň ochrany/ Degree of protection/ Степень защиты/ Stärke des Schutzes	IP X2	IP X2	IP X2	IP X2	IP X2