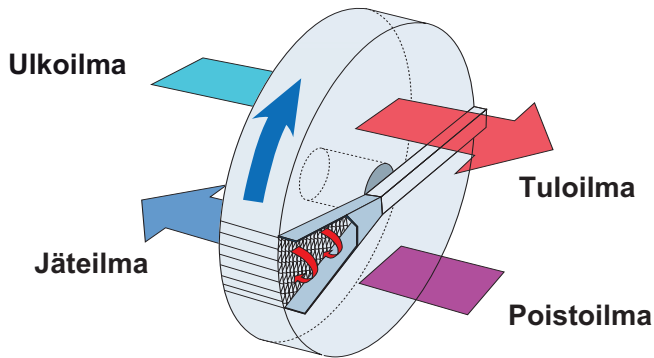


DEFINING THE DIRECTION OF ROTOR ROTATION

After maintenance work on the rotors, the newly installed rotor wheel or the motor of the new drive unit must rotate in the correct direction for the rotor purge to function properly. The direction in which the old device rotated may not necessarily have been correct. The following applies to a rotor installed upstream of both supply and exhaust fans—this is the most common installation setup. The operation of the so-called purge sector installed in the rotor housing structure is based on this.

1. The rotor purge works only when the rotor rotates in the correct direction

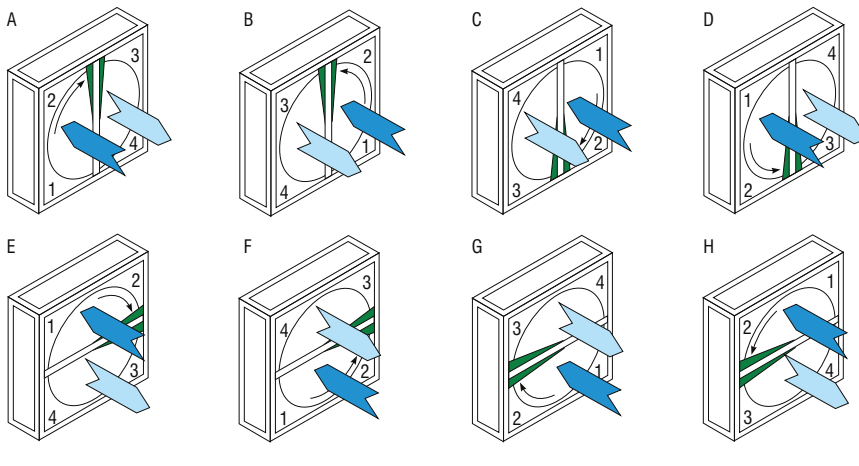


On the left, the operation of the purge sector and the correct rotation direction of the rotor are shown. When viewing the rotor from the exhaust airflow direction, the purge sector appears on either the right or left side of the rotor surface.

Rule for rotation direction:

THE ROTOR MUST ROTATE FROM EXHAUST AIR TO SUPPLY AIR THROUGH THE PURGE SECTOR.

2. Examples of rotor configurations and determining the direction of rotation



On the left, there are a few examples of rotor configurations.

The supply and exhaust airflows can run either vertically (stacked) or horizontally (side-by-side), and the exhaust air can be located either at the top or the bottom of the rotor.

The rotation direction is determined according to the rule in point 1.

3. Checking the direction of rotation when starting the drive unit

When a VariMax or Micromax drive unit is installed and started, the direction of rotor rotation is checked according to points 1 and 2. If the wheel rotates in the wrong direction, the system is stopped and two of the motor winding phase wires are swapped in the control center.

If the refurbished rotor wheel uses an old drive unit of a different brand than those manufactured by IBC, the instructions for reversing the rotation direction of the old drive unit must be followed.

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We supply rotor drive units manufactured by IBC Control Ab, complete with accessories. We stock products for rotor diameters up to 3.9 meters in Helsinki. Larger systems are available with a delivery time of 5 working days. Note: VariMax1500 is available for rotor diameters of 5–6 meters.

We also supply replacement rotors for all rotor brands—see our website at www.taniplan.fi