1. Installation instructions
The Wet & Dry vacuum motor is designed to be installed in products used for wet and dry aspiration.

1.1. Installation
The Wet & Dry vacuum motor must be installed in the appliance so that the motor working air and the motor cooling air are separated. This prevents the wet working air from accessing the motor and damaging it. The motor cooling air must be dry and free from dust.

1.1.1. Wet & Dry vacuum motor with radial discharge
Install the Wet & Dry vacuum motor between rubber gaskets (see Figure 1). These rubber gaskets also function as shock-absorbers and electrical insulators. The rings must be compressed to a level of pressure which creates an air tight seal and resists the starting torque of the Wet & Dry vacuum motor. Excessive mounting force can cause mechanical damage to the Wet & Dry vacuum motor. The Wet & Dry vacuum motor may be positioned either horizontally or vertically.

1.1.2. Wet & Dry vacuum motor with tangential discharge
Install the Wet & Dry vacuum motor in the appliance with screws through the three mounting lugs (see Figure 2). Place a rubber gasket between the Wet & Dry vacuum motor and the appliance casing in order to create an airtight seal. Place tubes of appropriate length between the mounting
lugs and the appliance casing in order to create an airtight seal and to prevent the Wet & Dry vacuum motor from being damaged due to mounting force.

1.2. Handling
The Wet & Dry vacuum motor must be handled only by the impeller cover, motor housing, stator or fan case. Never use the lead wires to hold the Wet & Dry vacuum motor. The Wet & Dry vacuum motor shall not be plugged into the power supply during handling. Ensure that no damage to the Wet & Dry vacuum motor occurs during handling, as this would jeopardize safe use.

1.3. Grounding
Any tampering with the Wet & Dry vacuum motor by the user, such as drilling holes in the housing, cutting threads, welding contacts, etc., without prior consultation with the manufacturer is strictly prohibited.

1.3.1. Wet & Dry vacuum motor with basic insulation
Wet & Dry vacuum motor with basic insulation must be connected to a grounding point inside the appliance. The ground wire may be fixed to a predetermined position on the Wet & Dry vacuum motor or it may already be built in. The ground wire is in green, or yellow-green color.

1.3.2. Wet & Dry vacuum motor with double insulation
Grounding is not necessary for Wet & Dry vacuum motors with double insulation.

2.2. Safety precautions
The Wet & Dry vacuum motor represents one of the components of your final product, and so the following safety precautions must be followed.

- Wet & Dry vacuum motor with basic insulation must be properly connected to a grounding point. Ensure electrical insulation of the unit and insulation to protect the user from electric shock.

- The rotating Wet & Dry vacuum motor shaft or any other element mounted on the shaft is a potential source of injury. Safety must be ensured with the appropriate casing design of the final product in accordance with the safety requirements for final products.

- The Wet & Dry vacuum motor must not be used near flammable or explosive substances since electric sparks can be expected during operation, which may cause these substances to ignite and explode.

- The motor part of the Wet & Dry vacuum motor must not be exposed to moisture, foam or liquids. Moisture, foam or liquids can damage the motor and destroy the electrical insulation.

- The Wet & Dry vacuum motor may not be used at a voltage higher than the nominal voltage marked on the unit. The Wet & Dry vacuum motor can operate at a lower voltage then the nominal voltage. By decreasing the voltage, the performance of the Wet & Dry vacuum motor will be lower.

- The connection cables in the product must be correctly attached. They must not come into contact with rotating parts. Connections must ensure sufficient electrical contact and must be properly insulated.

- Vacuum motors can be serviced only by qualified persons.
Compliance with standards:
Compliance of products with ROHS and REACH directives.

Vacuum motors may, depends of the requirements, comply with the following standards:

- EN 61000-3-2 Electromagnetic compatibility (EMC)
- EN 61000-3-3 Electromagnetic compatibility (EMC)
- EN 55014-1 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus
- EN 55014-2 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus
- EN 60335-1:2012 Household and similar electrical appliances - Safety
- EN 60335-2-2:2010 Household and similar electrical appliances - Safety
- EN 62233:2008 Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure
- UL 1004-1 Rotating electrical machines
- CSA C22.2 NO. 100
- CCC GB12350-2009

Sincerely;
Miro Šmid, Quality director