

## **Makita VC4210M Control / Operation**

### **CAUTION**

Damage due to unsuitable mains voltage.

The appliance can be damaged as a result of being connected to an unsuitable mains voltage.

1. Ensure that the voltage shown on the rating plate corresponds to the voltage of the local mains power supply.

### **Starting and operating of the machine**

1. Check that the electrical switch is switched off (in position 0).
2. Check that suitable filters are installed in the machine.
3. Connect the suction hose into the suction inlet at the machine by pushing the hose forward until it fits firmly in place at the inlet.
4. Connect the tubes with the hose handle, twist the tubes in order to ensure that they are properly fitted.
5. Attach suitable nozzle to the tube. Choose nozzle depending on what type of material that is to be picked-up. If used for dust extraction in connection with dust producing tool then connect end of suction hose with appropriate adapter.
6. Check that hose diameter setting corresponds to actual hose diameter.
7. Connect the plug into a proper electrical outlet.
8. Put the electrical switch into position I in order to start the motor.

#### **Turn I:**

Activate the machine

#### **Turn :**

Stop the machine. Permanent power on socket

#### **Turn AUTO :**

Activate Auto-On/Off operation

**Turn I + Off:** Activate the machine with deactivated automatic filter cleaning function.

**Turn AUTO + Off:** Activate Auto-

On/Off operation with deactivated automatic filter cleaning function.

Speed control operation on separate turning knob.

The hose diameter and the setting for suction hose diameter must be the same.

## **Auto-On/Off socket outlet for power tools**

### **CAUTION**

#### **Appliance socket.**

The appliance socket is designed for electrical auxiliary equipment; see technical data for reference.

1. Prior to plugging in an appliance, always switch off the machine and the appliance that is to be connected.
2. Read the operating instructions to the appliance to be connected and observe the safety notes contained in these.

An appliance socket with earthing contact is integrated in the machine. An external power tool can be connected there. The socket features permanent power on, when the electrical switch is in position, i.e. the machine can be used as an extension cord.

In position AUTO the machine can be switched on and off by the power tool connected. Dirt is picked up from the source of dust immediately. To comply with regulations, only approved dust producing tools should be connected.

The maximum power consumption of the connected electrical appliance is stated in section "Specifications".

Before turning the switch to position AUTO ensure that the tool connected to the appliance socket is switched off.

### **3.3 AutoClean**

The machine is equipped with an automatic filter cleaning system, AutoClean. A frequent cleaning cycle will automatically run during operation to ensure that suction performance is always at its best.

If suction performance decreases or in extensive dust applications a manually filter cleaning operation is recommended:

1. Switch off the machine.
2. Close the nozzles or suction hose opening with the palm of your hand.
3. Turn the switch to position „I“ and let the machine operate at full speed for approx. 10 seconds with the suction hose opening closed.

If suction power is still reduced take out the filter and clean mechanically or replace filter.

For certain applications, like wet pick up, it is recommended to turn off the automatic filter cleaning system.

### **3.4 Flow rate warning**

### **CAUTION**

Check that all the filters are present and properly fitted.

The machine is equipped with a system to monitor air velocity. Before picking up dust with occupational exposure limit values, check the volume flow monitor.

1. When the motor is running, hold the suction hose shut to reduce the volume flow. The LED indicator on front panel will light after approx. 1 second.

The acoustic warning sounds after some additional seconds.

2. Set the diameter setting to the actual hose size.

When LED indicator lights, air velocity is below 20 m/s.

1. Check if container or filter bag is full.
2. Check if air flow is reduced in suction hose, tube/nozzle, filter.

\*) Optional accessories / Option depending on model

### **3.5 Antistatic connection\*)**

#### **CAUTION**

The machine is equipped with an antistatic system to discharge any static electricity that may develop during dust pick-up.

The antistatic system is placed in front part of the motor top and creates an earth ground connection to the inlet fitting of the container.

For proper function the use of an electrical conductive or antistatic suction hose is recommended.

1. When inserting the optional disposal bag make sure the antistatic connection is kept.

### **3.6 Cooling air filter**

To protect the electronics and motor, the machine is equipped with a cooling air diffuser. Clean the cooling air diffuser regularly.

For areas with a high concentration of fine dust in the surrounding air it is recommended to equip the machine with an optional cooling air filter cartridge to prevent dust from settling inside the air channels and motor. Contact your local sales representative.

#### **CAUTION**

If cooling air filter is clogged by dust the overload protection switch in the motor can be activated.

1. In such case switch off the machine, clean cooling air filter and allow machine to cool for approx. 5 minutes.

### **3.7 Wet pick-up**

#### **CAUTION**

The machine is equipped with a water level limit system which shuts off the machine when the maximum liquid level is reached.

1. When this occurs, switch off the machine.
2. Disconnect the machine from the socket and empty the container.

3. Never pick up liquids without the water level limit system and filter in place.
4. Do not pick up flammable liquids.
5. Before liquids are picked up, always remove the filter bag/wastebag and check that the water level limit works properly.
6. If foam appears, stop work immediately and empty the tank.
7. Clean the water level limiting device regularly and check for signs of damage.

Before emptying the container, unplug the machine.

Disconnect the hose from the inlet by pulling out the hose. Release the latches by pulling them outwards so that the motor top is released. Lift up the motor top from container.

Always empty and clean the container and water level limit system after picking-up liquids.

Empty by tilting the container backwards or sideways and pour the liquids into a floor drain or similar.

Put back the motor top to the container. Secure the motor top with the latches.

Heavy manoeuvres can, by mistake, trigger the water level limiting device. Should this happen; turn off the machine and wait for 3 seconds to reset the device.

Continue to operate the machine afterwards.

### **3.8 Dry pick-up**

#### **CAUTION**

Picking up environmentally hazardous materials.

Materials picked up can present a hazard to the environment.

1. Dispose of the dirt in accordance with legal regulations.

Remove the electrical plug from the socket before emptying after dry pick-up. Remove the suction hose from the machine and close the inlet cap, to avoid harmful dust spreading. Release the latches by pulling them outwards so that the motor top is released. Lift up the motor top from container.

**Filter:** Check the filters. To clean the filter you can shake, brush or wash it. Wait until the filter is dry before re-starting dust pick-up.

**Dust bag:** check bag to ensure the fill factor. Replace dust bag if necessary. Remove the old bag.

The new bag is fitted by passing the cardboard piece with the rubber membrane through the vacuum inlet.

Make sure that the rubber membrane is passing past the heightening at the vacuum inlet.

**After emptying:** close motor top to the container and secure the motor top with the latches.

Never pick up dry material without filter fitted in the machine.

The suction efficiency of the machine depends on the size and quality of the filter and dust bag. Therefore – use only Original filter and dust bags.