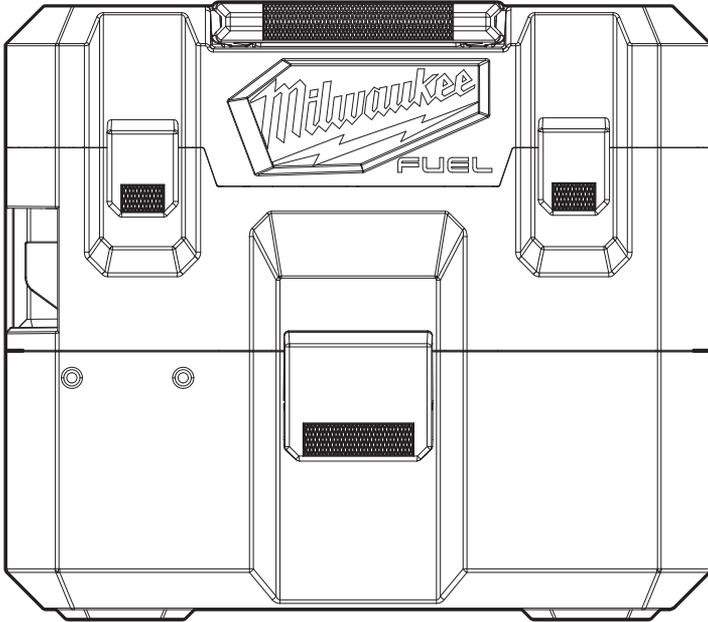




# OPERATOR'S MANUAL



Cat. No.

**M12 FWDVL**

**M12 FUEL™ WET/DRY VACUUM L CLASS**



**! WARNING**

To reduce the risk of injury, user must read and understand operator's manual.



## IMPORTANT SAFETY INSTRUCTIONS

**⚠WARNING** WHEN USING AN ELECTRICAL VACUUM, BASIC PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING: READ ALL INSTRUCTIONS BEFORE USING VACUUM. BEFORE USING THE VACUUM, READ THIS OPERATOR'S MANUAL, BATTERY PACK AND CHARGER OPERATOR'S MANUALS, AND ALL LABELS ON THE VACUUM, BATTERY PACK, AND CHARGER. THIS APPLIANCE IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE. CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE.

**⚠WARNING** OPERATORS SHALL BE ADEQUATELY INSTRUCTED ON THE USE OF THESE MACHINES.

### WORK AREA SAFETY

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Vacuums have motors and other parts that can produce sparks during normal use. Do not use within 10 metres of areas where explosive materials may be present (such as gasoline pumps and places where liquids like paint thinners, cleaners, solvents, etc. are stored).
- Do not use in the presence of explosive dust, liquids or vapours.
- Do not use where oxygen or anesthetics are used.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Use extra care when using on stairs.

### ELECTRICAL SAFETY

- Do not handle battery pack or vacuum with wet hands.

### PERSONAL SAFETY

- STAY ALERT. Watch what you are doing and use common sense. Do not use vacuum when you are tired, distracted or under the influence of drugs, alcohol or medication causing diminished control.
- The operation of a vacuum can result in foreign objects being blown into eyes, which can result in eye damage. Always wear safety goggles or glasses with side shields marked to comply with AS/NZS 1337.1 when operating vacuum.
- Wear a dust mask or use a suitable vacuum solution when working in dusty situations. Dust particles can harm your lungs.

- Avoid accidental starting. Ensure the switch is in the off-position before inserting battery pack. Inserting battery pack in vacuum that has the switch on invites accidents.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the vacuum in unexpected situations.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

### VACUUM USE AND CARE

- Do not use without dust canister and/or filter in place.
- Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.

- Do not pick up anything that is burning or smoking such as cigarettes, matches, or hot ashes.
- Do not pick up soot, cement, plaster or drywall dust without filter in place. These are very fine particles that may affect the performance of the motor or be exhausted back into the air.
- This product is suitable for collection of silica dust when used in accordance with these instructions. To reduce the risk of health hazards from other vapours or dust, do not vacuum carcinogenic, toxic or hazardous materials such as asbestos, arsenic, barium, beryllium, lead, pesticides or other health endangered materials.
- Use special care when emptying heavily loaded tanks.
- To avoid spontaneous combustion, empty dust box after each use.
- Do not leave vacuum unattended when battery pack is installed. Remove battery pack when not in use and before servicing.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything else that may reduce air flow.
- Maintain vacuum. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the vacuum's operation. If damaged, have the vacuum repaired before use. Many accidents are caused by poorly maintained tools.
- Maintain labels and nameplates. These carry important information. If unreadable or missing, contact a MILWAUKEE® service facility for a replacement.

### BATTERY TOOL USE AND CARE

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.

•Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130°C (265°F) may cause explosion.

•Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

### SERVICE

•Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

### SPECIFIC SAFETY RULES FOR WET/DRY VACUUM

•Never use vacuum without dust canister and filter in place.

•Wear ear protectors. Exposure to noise can cause hearing loss.

•The product is intended for commercial use, for example in hotels, schools, hospitals, factories, shops, offices and rental businesses.

**AWARNING** To reduce the risk of injury, when working in dusty situations, wear appropriate respiratory protection or use a suitable compliant dust extraction solution.

•Always use common sense and be cautious when using tools. It is not possible to anticipate every situation that could result in a dangerous outcome. Do not use this tool if you do not understand these operating instructions or you feel the work is beyond your capability; contact MILWAUKEE® Tool or a trained professional for additional information or training.

**AWARNING** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paint
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

### READ AND SAVE ALL INSTRUCTIONS FOR FUTURE USE FOR HOUSEHOLD OR COMMERCIAL USE.

### ADDITIONAL BATTERY SAFETY RULES

**AWARNING** To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.

### SYMBOLOLOGY



Safety alert



Volts



Direct Current



Read operator's manual



Wear eye protection



Do not step



Unlock



Lock



Class III appliance



Dust class



Do not dispose of electric tools together with household waste material. Electric tools and electronic equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

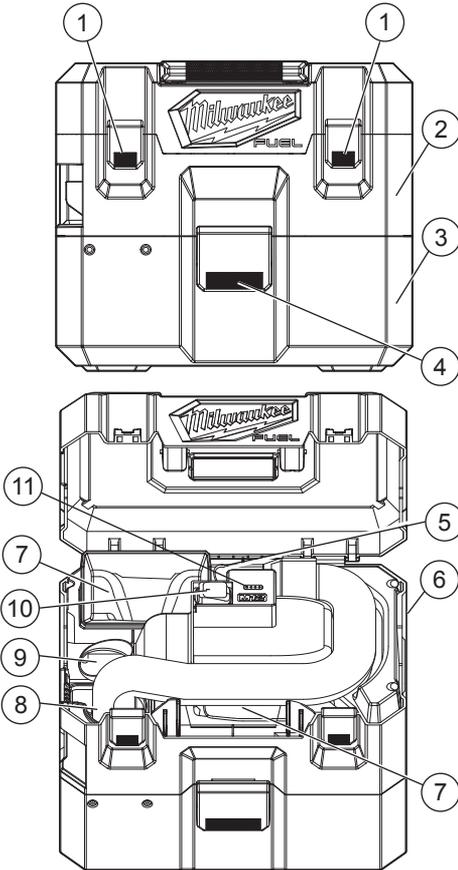
Regulatory Compliance Mark (RCM). This product meets applicable regulatory requirements.



### SPECIFICATIONS

Cat. No.....	<b>M12 FWDVL</b>
Volts.....	12V DC
Battery Type.....	M12™
Charger Type.....	M12™
Max Air Flow.....	1,275 l/min (45 CFM)
Max Suction.....	105 mbar (1,067 mmH2O)
Capacity.....	6.1 L (1.6 Gal.)
Recommended Ambient Operating Temperature.....	-17°C to 51°C
Dust class.....	L
Weight.....	4.5 kg
Vibration emission level.....	0.1 m/s <sup>2</sup>
Uncertainty K.....	0.5 m/s <sup>2</sup>
Sound pressure level L <sub>pA</sub> .....	76 db (A)
Uncertainty K.....	2 db (A)
Sound power level L <sub>WA</sub> .....	88 db (A)
Uncertainty K.....	2 db (A)

## FUNCTIONAL DESCRIPTION



- |                                  |                            |
|----------------------------------|----------------------------|
| 1. Battery compartment latches   | 7. Accessory storage areas |
| 2. Midframe                      | 8. Intake port             |
| 3. Tank                          | 9. Battery bay             |
| 4. Tank latches (front and back) | 10. Switch                 |
| 5. Vacuum inlet                  | 11. Fuel gauge             |
| 6. Blower port                   |                            |

## ASSEMBLY

**⚠ WARNING** To reduce the risk of injury, always remove the battery pack before removing the battery pack before removing the tank.

**⚠ CAUTION** Keep filter clean. Efficiency of the vacuum is largely dependent on the filter. A dirty filter will reduce the air flow and overall efficiency of the system. Do not clean with water. Remove from tank and tap clean.

**⚠ WARNING** Recharge only with the charger specified for the battery. For specific charging instructions, read the operator's manual supplied with your charger and battery.

### Removing/Inserting the Battery

To **remove** the battery, push in the release buttons and pull the battery pack out of battery bay.

To **insert** the battery, slide the pack into battery bay. Make sure it latches securely into place.

### Removing/Installing the Filter

Use the filter for dry pickup only.

1. Remove the battery pack. Close and latch the battery compartment.
2. Release the tank latches and lift off the motor housing. Place it upside down on a flat surface. To **remove** the filter, turn it 13 mm counterclockwise and pull it off of the midframe base/float cage. Empty all debris from the tank.
3. **NOTE:** When applicable, adhere to jobsite guidelines pertaining to the disposal of silica dust. To **install** the filter, slide it over the float cage.
5. Lineup the filter tabs with the motor housing notches and turn it 13 mm clockwise to lock in place.
6. Reinstall the tank and secure both latches.

### Pick-Up/Blower

The vacuum can be used for debris pick-up or as a blower, depending on the port used.

1. For the debris **pick-up**, insert the large end of the hose into the intake port of the motor housing, lining up the tabs on the hose with the notches in the port. Twist to secure and form a
2. To use as a **blower**, insert the large end of hose into the blower port  of the midframe, lining up the tabs on the hose with the notches in the port. Twist to secure and form a tight fit.

**⚠ WARNING** Only use accessories specifically recommended for the product. Others may be hazardous.

### Installing/Removing the Accessories

To install the nozzles, hoses or extensions, push the accessory onto the vacuum inlet.

## OPERATION

**⚠ WARNING** To reduce the risk of injury, always wear proper eye protection marked to comply with AS/NZS 1337.1.

When working in dusty situations, wear appropriate respiratory protection or use a suitable compliant dust extraction solution.

To reduce the risk of fire and injury, do not use to pick up flammable or combustible materials. Empty dust canister before use.

Before use, ensure the filter and float cage are properly installed. Remove filter before all wet pick-up operations.

### Fuel Gauge

**⚠ WARNING** This machine is not suitable for packing up hazardous dust.

To determine the amount of charge left in the battery, turn the product **ON**. The Fuel Gauge will light up for 2-3 seconds. When less than 10% of charge is left, 1 light on the fuel gauge will flash 4 times.

To signal the end of charge, 1 light on the fuel gauge will flash 8 times and the product will not run. Charge the battery pack.

If the battery becomes too hot, the fuel gauge lights will flash in an alternating pattern and the product will not run. Allow the battery to cool down.

### Starting and Stopping Vacuum

To turn the vacuum on **low**, push the switch to the Speed One (I) position.

To turn the vacuum on **high**, push the switch to the Speed Two (II) position.

To turn **off** the vacuum, push the switch to the OFF (O) position.

**⚠ CAUTION** If the float is clean, moves freely, and the suction does not shut off when the tank is filled, contact a **MILWAUKEE®** service facility for repairs. A malfunctioning product can cause personal injury or property damage.

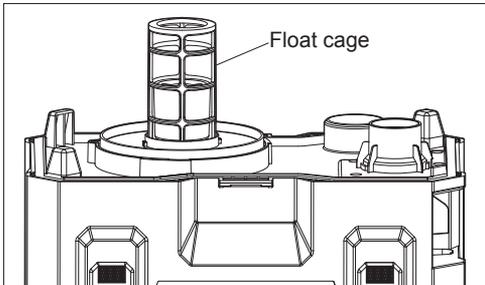
### Wet Pick-Up Operation

**⚠ WARNING** If foam or liquid escapes from the machine, switch off immediately.

**⚠ CAUTION** Clean the water level limiting device regularly and examine it for signs of damage.

For wet pick-up operation, it is recommended to use the foam filter.

1. Remove ALL dirt and debris found in the tank.
2. Remove the filter. Ensure that the float cage remains in place.



3. A float cage shuts off suction when the tank is full. Be sure that the float is clean and moves freely in the float cage to ensure that the float valve works.
4. Turn on the vacuum and begin pick-up.
5. Turn off the vacuum immediately upon completing a wet pick-up job or when tank is full and ready to be emptied.  
**NOTE:** If suction shuts off, turn off the vacuum immediately and empty the tank.
6. Remove the battery pack.
7. Raise the hose to drain any excess liquid into the tank.
8. Remove head and pour liquid waste into a suitable drain.
9. Clean the interior of the tank and pick-up accessories periodically, more often when used to pick up wet, sticky materials. Use warm, soapy water.

### Automatic Suction Shut-Off

When picking up liquids, an internal float rises until it seats itself against a seal at the intake of the motor, shutting off suction. When this happens, the motor will develop a higher than normal pitch noise and the suction is drastically reduced. If this occurs, turn off the vacuum immediately.

**⚠ CAUTION** Failure to turn off product after float rises and shuts off suction will result in extensive damage to the motor.

To continue use, empty the liquid waste from the tank.  
**NOTE:** If the vacuum is accidentally tipped over, it could lose suction. Turn off the vacuum and return it to an upright position. The float will return to its normal position.

### Installing the Vacuum Hanger Mounting Plate

The vacuum comes equipped with a hanger and attachable mounting plate.

Position the mounting plate as desired, taking into account the wall orientation.

Mounting plate must be installed on a flat, even surface. An uneven surface could cause the mounting plate to warp, resulting in possible problems when installing vacuum.

Use the below recommended fasteners in the four corner holes.

If installing into wood:

- Install onto dimensional lumber 50mmx100mm (2"x4") (or larger) or 19 mm (3/4") thick plywood.
- Use four Ø 6 mm (1/4") x 30mm (1-1/4") lag screws.

If installing into concrete:

- Use four suitable concrete anchors.

### Storage

Before storing your vacuum, empty and clean the tank, filter, and accessories. Remove the battery pack.

Wet filters and the interior part of the liquid container shall be dried before storage.

## MAINTENANCE

**⚠WARNING** To reduce the risk of injury, always unplug the charger and remove the battery pack from the charger or tool before performing any maintenance. Never disassemble the tool, battery pack or charger. Contact a MILWAUKEE® service facility for ALL repairs.

### Maintaining Tool

Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program. Inspect your tool for issues such as undue noise, misalignment or binding of moving parts, breakage of parts, or any other condition that may affect the tool operation. Return the tool, battery pack, and charger to a MILWAUKEE® service facility for repair. After six months to one year, depending on use, return the tool, battery pack and charger to a MILWAUKEE® service facility for inspection.

If the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly, return the tool, charger and battery pack, to a MILWAUKEE® service facility for repairs.

**⚠WARNING** To reduce the risk of personal injury and damage, never immerse your product, battery pack or charger in liquid or allow a liquid to flow inside them.

### Cleaning

When carrying out service or repair operations, all contaminated items which cannot be satisfactorily cleaned are to be disposed of; such items shall be disposed of in impervious bags in accordance with any current regulation for the disposal of such waste.

Clean dust and debris from vents. Keep handles clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean, since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

### Cleaning the Filter

To clean the filter, tap clean, or soak in water.

**NOTE:** If cleaning with water, let filter dry 24 hours before using with vacuum. Replace filter if damaged or suction decreases.

### Repairs

For repairs, return the tool, battery pack and charger to the nearest authorised service centre.

## ACCESSORIES

**⚠WARNING** Use only recommended accessories. Others may be hazardous.

For a complete listing of accessories, go online to [milwaukeetool.com.au/](http://milwaukeetool.com.au/) [milwaukeetool.co.nz](http://milwaukeetool.co.nz) or contact a distributor.

## **WARRANTY - AUSTRALIA and NEW ZEALAND**

Please refer to Australian and New Zealand warranty supplied with tool. This warranty applies only to product sold by authorised dealers in Australia and New Zealand.

## **SERVICE - AUSTRALIA and NEW ZEALAND**

**MILWAUKEE®** prides itself in producing a premium quality product that is Nothing But Heavy Duty™. Your satisfaction with our products is very important to us! If you encounter any problems with the operation of this tool, please contact your authorised **MILWAUKEE®** dealer.

For a list of **MILWAUKEE®** dealers, guarantee or service agents please contact **MILWAUKEE®** Customer Service or visit our website.

(Australia Toll Free Telephone Number 1300 645 928)

(New Zealand Toll Free Telephone Number 0800 645 928)

or visit [milwaukeetool.com.au/milwaukeetool.co.nz](http://milwaukeetool.com.au/milwaukeetool.co.nz).

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