



MVU-48
48" Mobile Ventilation Unit (MVU™)
Technical Data and Specifications

Overall Specifications

Total Length:	4,217 mm (166 in.)
Total Width:	1,905 mm (75 in.)
Total Height:	2,413 mm (95 in.)
Total Weight:	4,000 kg (8,800 lbs.)

Blower Assembly

Shroud Diameter:	1,219 mm (48 in.)
Shroud Length:	1,219 mm (48 in.)
Shroud Material:	Steel
Impeller:	7-blades, aluminum

Blower Performance

Impeller RPM:	1,450 maximum
Air Output:	80,000 cubic feet per minute
Air Velocity:	<ul style="list-style-type: none">▪ 94 mph inside▪ 85 mph at outlet▪ 70 mph at 12 foot distance

Fan Adjustment

Scissors Lift: 0" to 118" elevation
Tilt Up/Down: 25-degrees
Rotation: 360-degrees, continuous

Hydraulic Control System

Impeller Motor: Fixed-displacement with auxiliary hydraulics
Scissors Lift: Hydraulic cylinder
Rotation: Hydraulic gear pump
Tilt Up/Down: Hydraulic cylinder

Hydraulic Specifications

Manufacturer: Mannesmann-Rexroth
Tank Capacity: 20 gallons (72 liters)
Impeller Motor:

- Variable delivery pump
- 2,000 RPM
- 50 gallons/minute
@ 2,900 psi (180 lpm @ 194 bar)

Fan Movements:

- Internal gear pump
- 1,000 RPM
- 3 gallons/minute
@ 2,900 psi (11 lpm @ 194 bar)

Diesel Engine

Model: 4 cylinder Cummins Diesel
Power: 125 hp @ 2,100 RPM (Turbo Charged)
Fuel Tank: 52 gallons (188 liters)
Run Time: 8 hours

Control Systems (Electric and Electric over Hydraulic)

Fixed Panel with controls:

- Engine/fan RPM
- Gauges for temperature/oil pressure
- Hydraulic control pressure
- Panel light
- Emergency shut-down switch

Remote Control:

- Portable control box with cable
- Fan, start/stop
- Tilt, up/down
- Rotation, left/right
- Scissors, up/down
- Emergency shut-down switch

Water Mist System

Misting Ring:	1.5" diameter stainless steel, 8 nozzles
Flow Rate:	87 gallons/minute @ 100 psi (300 lpm @ 7 bar)
Reach:	130 feet
Droplet Size:	200 microns
Supply:	Central duct system
Coupling:	1.5" house coupling with shut-off valve

Body Work

- Silencer hood mounted over diesel engine, hydraulic pump, reservoir, and oil cooler with roll-up door for access to control panel.
- Service openings for engine.

Safety Features

- Emergency shut-down switch (entire system).
- Open grid steel fence running along both sides and end of the platform.
- Acoustic warning during lowering of fan unit.