

# Motorized Exhaust Reel – MER

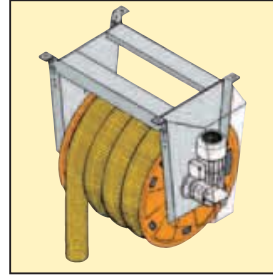
The only hose reel for demanding environments.

The MER is the only solution for work shops that operate heavy off-road vehicles or manufacturing facilities that require the system to operate under high demand.



## Direct drive motor

Direct drive motor eliminates service by eliminating the need for replacement belts or chain drives.



- 100% maintenance free
- Sealed ball bearings
- Adjustable up/down positioning
- Exclusive gear reduction system

## Electrical key sets

Key sets are available in three styles to suit your application.



- Wall mount push button
- Hanging key set
- Radio transmitter key set

## TECHNICAL DATA

### Motorized Exhaust Reel – MER

Prod. no.	Drum width	Hose connection	Max hose length on drum	Duct connection	Weight w/o hose
MER-650-125	650 mm/25.6"	Ø 125 mm/5"	8.5 m/27.9 ft	Ø 160 mm/6.3"	57 kg/125 lbs
MER-650-150	650 mm/25.6"	Ø 150 mm/6"	7.5 m/24.6 ft	Ø 160 mm/6.3"	57 kg/125 lbs
MER-850-125	850 mm/33.5"	Ø 125 mm/5"	11.0 m/36.1 ft	Ø 160 mm/6.3"	62 kg/136 lbs
MER-850-150	850 mm/33.5"	Ø 150 mm/6"	10.0 m/32.8 ft	Ø 160 mm/6.3"	62 kg/136 lbs
MER-1050-125	1050 mm/41.3"	Ø 125 mm/5"	14.0 m/45.9 ft	Ø 160 mm/6.3"	67 kg/147 lbs
MER-1050-150	1050 mm/41.3"	Ø 150 mm/6"	12.5 m/41.0 ft	Ø 160 mm/6.3"	67 kg/147 lbs

- The MER/MERF cassette with power supply 1 ph, 115/240 V, 60 Hz will lift hose/nozzle combinations up to 30 kg/66 lbs. The MER/MERF cassette with power supply 3 ph, 208-600 V, 60 Hz/3 ph, 220-400 V, 50 Hz will lift hose/nozzle combinations up to 30 kg/66 lbs.
- Hose and nozzle must be ordered separately.
- Hose reels with fans are available in all common worldwide voltages.
- Hose reels can be integrated with PlymoVent Intelligent Control Equipment, see pages 48-54.

PlymoVent reserves the right to make design and technical changes.

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## Case Study – Volvo Articulated Haulers, Sweden



### Company

Volvo Articulated Haulers AB, Braås, Sweden

### Problem

Off road vehicles that are designed for road construction and mining are manufactured to perform in the most demanding environments. The demand for maximum engine output creates a black toxic haze whenever the vehicle is running. Manufacturers like Volvo Articulated Hauler all face the same problem.

### Solution and how we did it

After reviewing the work pattern of the production facility, PlymoVent engineered a solution. The customer explained that he had to handle the emissions of vehicles that were both moving and stationary. It was also very important that the employees always have maximum protection from the exhaust gases, which required the installation of two types of solutions.

1. The installation of MER-1050-200 motorized exhaust reels in the area where vehicles were being tested in stationary locations. The sixteen MER hose reels were connected to a central ductwork and fan system which was controlled by a PlymoVent

OS-3 auto start electrical controller. This controller would automatically start the exhaust fan whenever a vehicle was started and would turn it off after the vehicle stopped.

2. The installation of STP straight rail system for vehicles that moved in and out of the final preparation area. This enabled the capture of all exhaust emissions at all times. Even when the vehicle was moving in the production preparation area. The STP rails were also connected to a centralized ductwork and fan system and were controlled by a PlymoVent OS-3 auto start controller. The final solution allowed the plant to shut off its general ventilation exhaust system which made the payoff of the PlymoVent system less than one year due to energy savings.

#### PlymoVent equipment supplied:

- 16 Motorized Hose Reel
- 16 Exhaust hoses 200 mm/8", high temp. 400°C/760°F
- 16 Rubber nozzles Ø 200 mm/8"
- 4 x 15 m/48 ft Straight rails
- 4 Internal crabs with EH-150 mm/6" hoses