

MOTORIZED HOSE REEL (MHR)

VEHICLE HOSE EXHAUST REEL

The motorized hose reel (MHR) is designed to retract the hose via an electric motor. This hose reel is ideal for general and light duty vehicle workshops.

With the hose safely elevated, you can also operate other equipment in the workshop. This hose reel also limits potential damage to personnel and vehicles. The MHR maximum lifting capacity is 51 lbs (23 kg) with a power supply of 230V, and 33 lbs (15 kg) with a power supply of 120V.

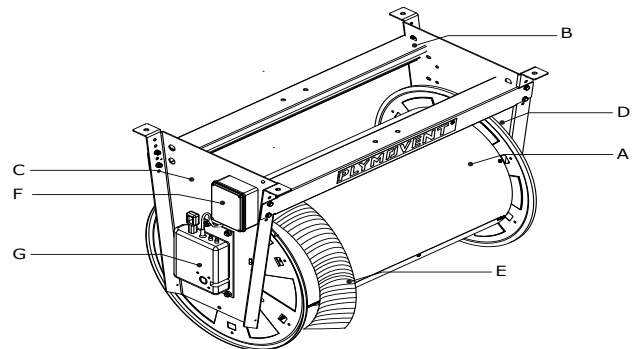
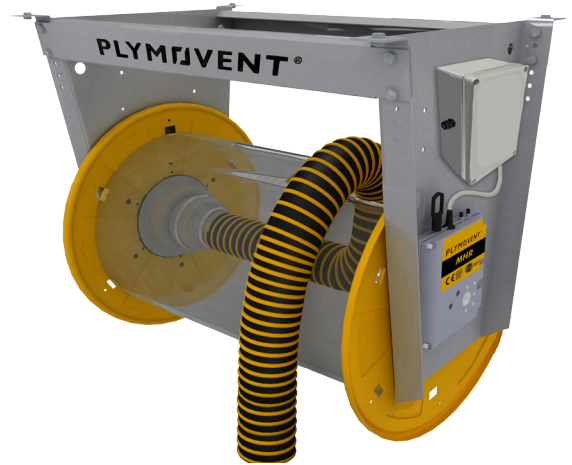
APPLICATIONS

The MHR uses a gear motor system that lifts an exhaust hose and nozzle designed for general and light-duty trucks. A standard overload relay and circuit breaker protect the mechanism from accidental strain.



SPECIFICATIONS

■ Motor type		
Power Supply	120V	230V
Phase	Single Phase	Single Phase
Current	2.7A	1.8A
Frequency	60 Hz	50/60 Hz
Output	320W	390W
■ Lifting Capacity		
Maximum load (hose and nozzle):		
• 120V: 33 lbs (15 kg)		
• 230V: 51 lbs (23 kg)		
■ Installation		
On ceiling, wall or boom		
■ Temperature Range		
MHR-650 and -850: from 300°F (150°C) to 2010°F (1100°C), depending on the hose.		
MHR-1050: from 300°F (150°C) to 2010°F (1100°C), depending on the hose.		
■ Order information		
Article no.	Refer to Plymovent Price List	
Number/package	1 (Bolted on Skid)	
■ Model Range		
MHR-650, MHR-850, and MHR-1050, 4-6 in. (100-150 mm) hoses (hose mounting kit needed)		
Note: MHR 650 models are not available in North America.		
■ Shipment Dimensions		
47 X 30 X 40 in. (1194 X 762 X 1016 mm)		



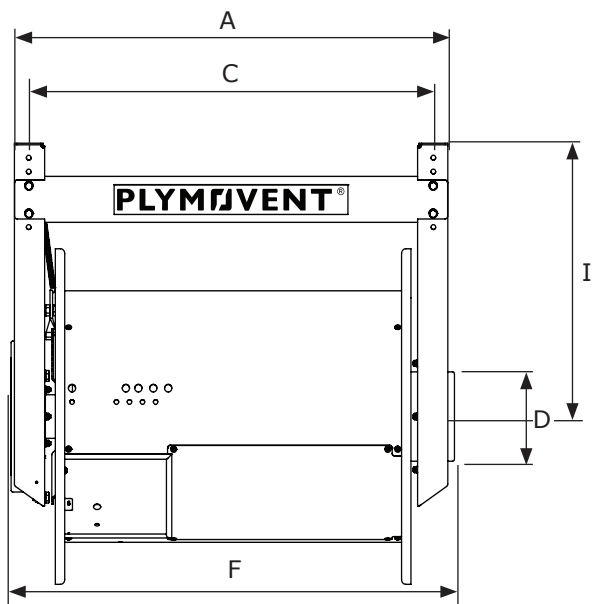
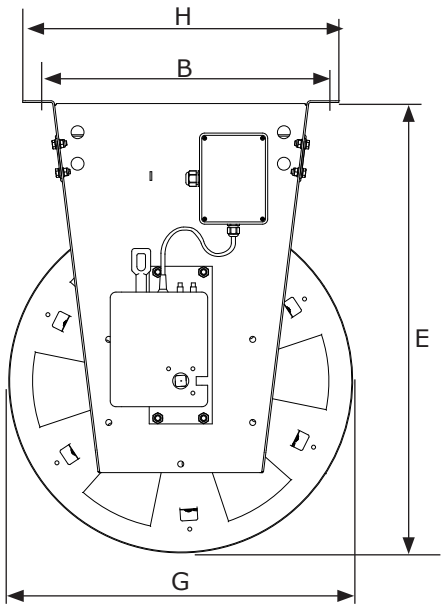
CONSTRUCTION

- A. Hose reel drum provides a secure and space-friendly storage location for the hose:
 - smooth, zinc-plated drum on which the hose rolls;
 - drum end plates are powder-coated yellow.
- B. Console - zinc-coated steel frame provides support and strength for longevity and robustness.
- C. A-frame - Primered and powder-coated steel.
- D. Adapter (not shown) to fan or central exhaust system; optional factory-installed automatic damper is also available.
- E. Hose must be ordered separately.
- F. Electrical junction box - for landing wires and connection of control equipment (eg Micro Switch 24/2).
- G. Motor - quiet and maintenance free; adjustable internal limit switches, controlled by on/off wall-mounted switch, hanging pendant or wireless.

DIMENSIONS (NOMINAL)			
	MHR-650	MHR-850	MHR-1050
A	32.7 in. (830 mm)	40.5 in. (1030 mm)	48.4 in. (1230 mm)
B	19.7 in. (500 mm)	19.7 in. (500 mm)	19.7 in. (500 mm)
C	30.5 in. (774 mm)	38.3 in. (974 mm)	46.2 in. (1174 mm)
D	Ø 6.30 in. (160 mm)	Ø 6.30 in. (160 mm)	Ø 6.30 in. (160 mm)
E	31.1 in. (790 mm)	31.1 in. (790 mm)	31.1 in. (790 mm)
F	34.3 in. (870 mm)	42.1 in. (1070 mm)	50.0 in. (1270 mm)
G	23.6 in. (600 mm)	23.6 in. (600 mm)	23.6 in. (600 mm)
H	23 in. (580 mm)	23 in. (580 mm)	23 in. (580 mm)
I	19 in. (483 mm)	19 in. (483 mm)	19 in. (483 mm)

Note: Maximum hose length depends on hose diameter. Refer to the Hose Length Recommendations chart for more details.

Note: For models in North America and Canada, a 6.25 to 6 in. (160 to 150 mm) duct reducer is provided.

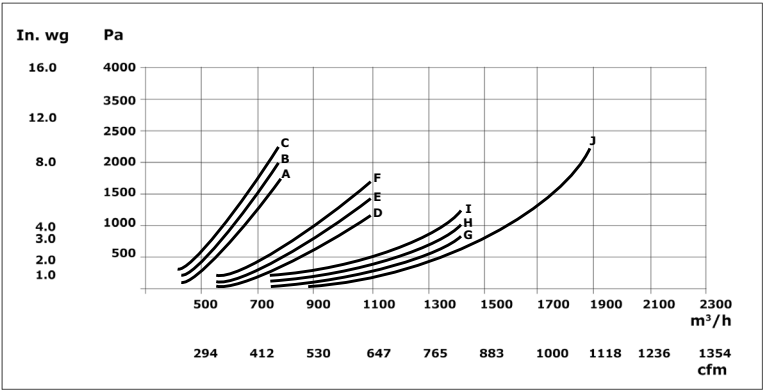


Pressure Loss

The chart on the right shows the pressure loss in the hose reel at different hose diameters and lengths. See next page for hose diameter recommendations based on airflow volume.

Hose diameter:

- A. Ø 4 in. (100 mm), length 25 ft (7,5 m)
- B. Ø 4 in. (100 mm), length 33 ft (10 m)
- C. Ø 4 in. (100 mm), length 41 ft (12,5 m)
- D. Ø 5 in. (125 mm), length 25 ft (7,5 m)
- E. Ø 5 in. (125 mm), length 33 ft (10 m)
- F. Ø 5 in. (125 mm), length 41 ft (12,5 m)
- G. Ø 6 in. (150 mm), length 25 ft (7,5 m)
- H. Ø 6 in. (150 mm), length 33 ft (10 m)
- I. Ø 6 in. (150 mm), length 41 ft (12,5 m)
- J. Ø 8 in. (200 mm), length 41 ft (12,5 m)



AIRFLOW VOLUME: GENERAL GUIDELINES		
Vehicles Served	cfm (m ³ /h)	Hose Diameter
Automobile	270-300 (460-510)	4 in. (100 mm)
Motorcycle	600-650 (1020-1105)	6 in. (150 mm)
Trucks (Public Works, Rental Fleets, etc.)	500-550 (850-935)	5 in. (125 mm)
Heavy Duty Trucks	650-800 (1020-1360)	6 in. (150 mm)
Off-Road (Constr., Compressor Tests, etc.)	1100-1400 (1900-2400)	8 in. (200 mm)

Note: Make sure the weight of the hose and tailpipe adapter selected do not exceed the MHR lifting capacity.

HOSE LENGTH RECOMMENDATIONS			
Prod.no.	Hose Diameter	Maximum Hose Length	Weight without Hose
MHR-650-100	Ø 4 in. (100 mm)	32.8 ft (10 m)	101 lbs (46 kg)
MHR-650-125	Ø 5 in. (125 mm)	27.9 ft (8,5 m)	101 lbs (46 kg)
MHR-650-150	Ø 6 in. (150 mm)	24.6 ft (7,5 m)	101 lbs (46 kg)
MHR-850-100	Ø 4 in. (100 mm)	42.6 ft (13 m)	112 lbs (51 kg)
MHR-850-125	Ø 5 in. (125 mm)	36.1 ft (11 m)	112 lbs (51 kg)
MHR-850-150	Ø 6 in. (150 mm)	32.8 ft (10 m)	112 lbs (51 kg)
MHR-1050-100	Ø 4 in. (100 mm)	52.5 ft (16 m)	123 lbs (56 kg)
MHR-1050-125	Ø 5 in. (125 mm)	45.9 ft (14 m)	123 lbs (56 kg)
MHR-1050-150	Ø 6 in. (150 mm)	41.0 ft (12,5 m)	123 lbs (56 kg)

ACCESSORIES

Hose Types:

EG2 - High quality fabric composite hose designed for exhaust gas temperatures of 350°F (177°C) continuous. Spike temperature capability: 400°F (205°C). Recommended for areas that service cars and light trucks.



EF2 - High quality fabric composite hose designed for exhaust gas temperatures of 570°F (300°C) continuous. Spike temperature capability: 660°F (350°C). Recommended for areas that service heavy trucks and off-road vehicles.



Other hoses are available. Consult Plymovent for additional data and details.

Nozzles:

See separate data sheet for nozzles.



Fans:

See separate data sheets for F-Series and TEV fans.



Hose Mounting Kit:

Kits includes U-clamp, reducer and edge protection.



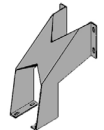
Up/Down Switch Options:

Choose from hard-wired on/off switch, hanging pendant or wireless remote.



Fan Mounting Kit:

Direct mount fans to hose reels are available: Plymovent fans include FUA-1800 to 2700 models, selected for the required airflow and static pressure. Consult Plymovent or your authorized distributor for details.



Micro Switch MSR-24/2:

Used for fan start/stop and damper operation signal.



Fan Starters:

Allows remote start of fan from hose reel. Choose from SA-24, ES-90, and DCV, including magnetic coil contractors, overload, transformer and fuses. UL/CE CSA Listed.



Motor-driven Damper:

MD-160 or 200: Motorized damper Ø 6.3 or 8 in. (160 or 200 mm). Power supply 24 VAC.



Transformer TR-24:




Transformer 115/230 to 24 volt to supply motor-driven dampers when no other control equipment is used.





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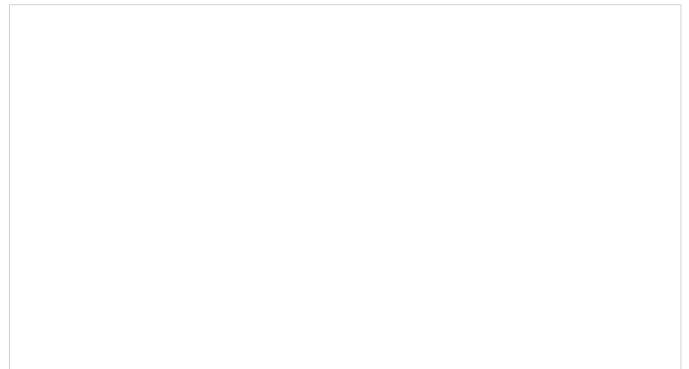
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Plymovent Corp. is ISO 9001:2015 Certified.



Plymovent Authorized Distributor:



Product type	MHR™
Article no.	see remaining specifications
Product category	hose reels
Version	030119/1

Always check the latest version on www.plymovent.com