

## MOTORIZED SPRING-OPERATED HOSE REEL

### VEHICLE EXHAUST HOSE REEL

The Motorized Spring-operated Hose Reel (MSHR) combines the benefits of two Plymovent hose reels, SER and MHR. MSHR includes both a recoil motor and spring cassette, making it ideal for facilities with heavy-duty trucks that demand more lifting capacity, due to the weight of the hose and nozzle. With MSHR, the hose will stay in any position until the up or down button is engaged.

With the hose elevated, operators can safely use other equipment in the workshop such as cranes or lifts, while also limiting potential damage to personnel and vehicles.

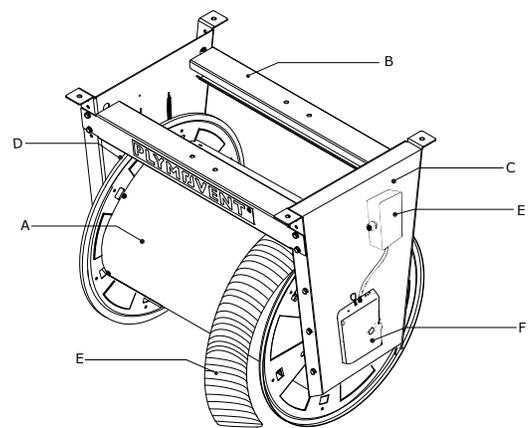
### APPLICATIONS

The MSHR motorized spring-assist reel can lift an exhaust hose and nozzle. A standard overload relay and circuit breaker protect the mechanism from accidental strain.



### SPECIFICATIONS

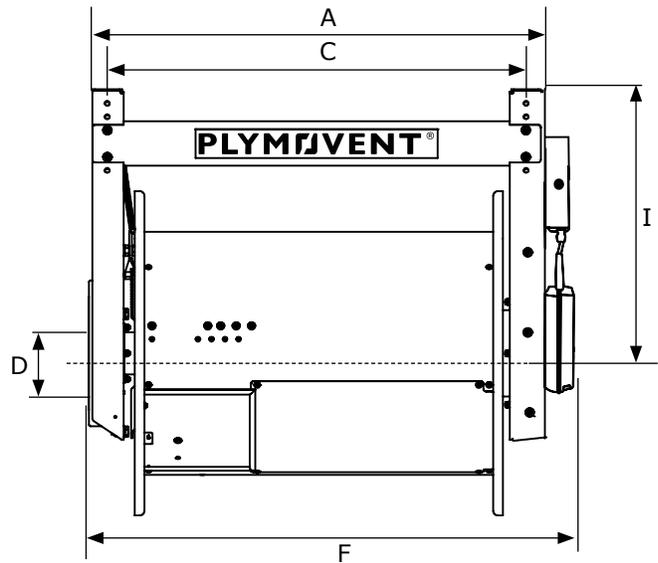
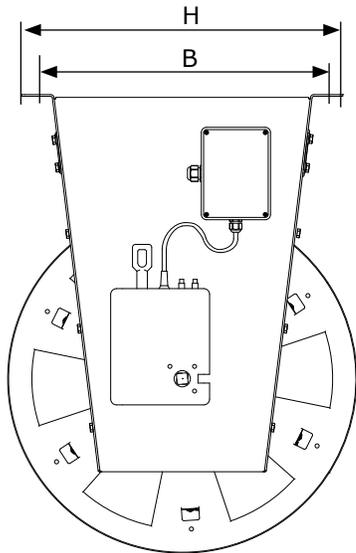
■ Motor types		
Power Supply	120V	230V
Phase	Single Phase	Single Phase
Current	2.7A	1.8A
Frequency	60 Hz	50/60 Hz
Output	320W	390W
RPM	14	12
■ Lifting Capacity		
Maximum load (hose and nozzle): 62 lbs (28 kg) for 4 to 6 in. (100 to 150 mm) hoses 55 lbs (25 kg) for 8 in. (200 mm) hose		
■ Temperature Range		
300°F (150°C) to 2010°F (1100°C), depending on hose.		
■ Installation		
On ceiling, wall or boom Note: 8 in. (200 mm) hose reel not available on boom		
■ Order information		
Article no.	Refer to Plymovent Price List	
Number/package	1 (Bolted on Skid)	
■ Model Range		
MSHR-850 and MSHR-1050, 4 to 6 in. (100 to 150 mm) hoses; MSHR-1050-200 for 8 in. (200 mm) hose <b>Note:</b> Hose mounting kit is needed for 650, 850 and 1050 models, but not for the 1050-200 model.		
■ 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/Frame - 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/S2 connection)
- G. Drive motor - assisted by enclosed spring coil cassette for increased lifting capacity; quiet and maintenance free; adjustable internal limit switches, controlled by on/off wall-mounted switch, hanging pendant or wireless.

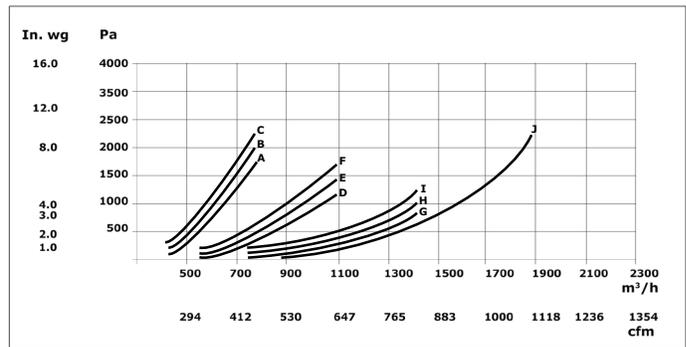
DIMENSIONS (NOMINAL)			
	MSHR-850	MSHR-1050	MSHR-1050-200
A	40.5 in. (1030 mm)	48.4 in. (1230 mm)	49.4 in. (1255 mm)
B	19.7 in. (500 mm)	19.7 in. (500 mm)	20.7 in. (527 mm)
C	38.3 in. (974 mm)	46.2 in. (1174 mm)	54 in. (1374 mm)
D	Ø 6.3 in. (160 mm)	Ø 6.3 in. (160 mm)	Ø 8 in. (200 mm)
E	31.1 in. (790 mm)	31.1 in. (790 mm)	38 in. (965 mm)
F	44.5 in. (1130 mm)	52 in. (1321 mm)	53 in. (1347 mm)
G	23.6 in. (600 mm)	23.6 in. (600 mm)	29 in. (737 mm)
H	21.7 in. (552 mm)	21.7 in. (552 mm)	22.7 in. (578 mm)
I	19.2 in. (489 mm)	19.2 in. (489 mm)	23.2 in. (590 mm)



**PRESSURE LOSS**

The diagrams to the right show the pressure loss in the hose reels at different airflows. The top chart shows pressure loss in uncoiled position only. See Airflow Volume: General Guidelines on the next page.

- 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 (m3/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 (1100-1360)	6 in. (150 mm)
Off-Road (Constr., Compressor Tests, etc.)	700-800 (1190-1360)	8 in. (200 mm)

HOSE LENGTH RECOMMENDATIONS			
Prod.no.	Hose Diameter	Maxium Hose Length on Reel	Weight without Hose
MSHR-850-100	Ø 4 in. (100 mm)	32.8 ft (10,0 m)	130 lbs (59 kg)
MSHR-850-125	Ø 5 in. (125 mm)	36.1 ft (11,0 m)	130 lbs (59 kg)
MSHR-850-150	Ø 6 in. (150 mm)	32.8 ft (10,0 m)	130 lbs (59 kg)
MSHR-1050-100	Ø 4 in. (100 mm)	41 ft (12,5 m)	140 lbs (64 kg)
MSHR-1050-125	Ø 5 in. (125 mm)	41 ft (12,5 m)	140 lbs (64 kg)
MSHR-1050-150	Ø 6 in. (150 mm)	41 ft (12,5 m)	140 lbs (64 kg)
MSHR-1050-200	Ø 8 in. (200 mm)	35 ft (10,5 m)	140 lbs (64 kg)

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

## 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.

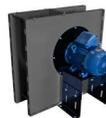
### Nozzles:

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.



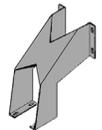
### Up/Down Switch Options:

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, overhead, 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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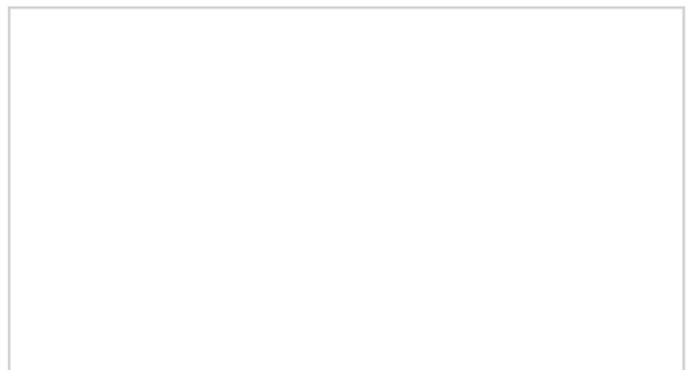
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Plymovent Corp. is ISO 9001:2008 Certified.



**Authorized Plymovent Distributor:**



Product type	<b>MSHR™</b>
Article no.	see remaining specifications
Product category	hose reels
Version	291118/3

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