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FIXED EXTRACTOR ON BOOM (FEB)

VEHICLE EXHAUST REMOVAL SYSTEM

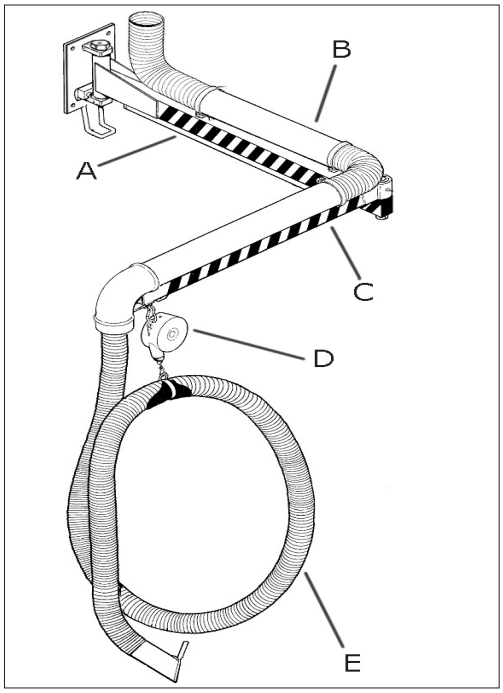
The Fixed Extractor on a Boom Arm (FEB) is designed to cover a wide area with a simple hose drop system. The FEB can be attached to a central fan system or connected to a direct-mounted fan depending on the workshop area.

FEB delivers a simple and space-saving method to increase the coverage of the exhaust hose within a truck workshop or auto service facility. FEB features a double articulated swinging arm fitted with an exhaust hose. When factoring in maximum hose length, FEB can provide a radius of up to 41.6 ft (12,7 m).

Note: Tailpipe adapters, boom arm end hose, fan and fan starter can be included as needed. Please refer to separate product data sheets for more information.

APPLICATIONS

The retractable hose drop can be positioned on any side of the vehicle, making it adaptable to any type of vehicle application. The swing arm can fold back, thus minimizing the area that the FEB needs when stored.



SPECIFICATIONS

Physical Dimensions and Properties	
Length of hose	16 ft (5 m) - typical
Diameters available	6 in. (150 mm) duct kit for 4-6 in. (100-150 mm) hoses; 8 in. (200 mm) duct kits available for 8 in. (200 mm) hoses.
Operating Temperature	Rated for 400°F (205°C) continuous operation. High-temperature stainless steel duct work and flex hoses, rated for 1200°F (650°C), available for FEB-20-8 and 26-8.
Maximum Allowable Point Load	
At end of outer boom: • 20 ft outer arm • 26 ft outer arm	 • 88 lbs. (40 kg) • 48 lbs. (22 kg)
Installation	
Mounted on wall or column (steel beam).	
Arm Length	
Ranges from 15 ft (4,5 m) to 26 ft (8 m). See Model Range Data chart on next page.	

CONSTRUCTION:

A. FEB inner boom made of powder-coated steel.

B. Painted steel ductwork with high temperature flex hoses at pivot points.

C. Outer arm with center-elbow pivot.

D. Hose balancer and saddle assembly.

E. Hose and tailpipe adaptor (must be ordered separately).

product data sheet

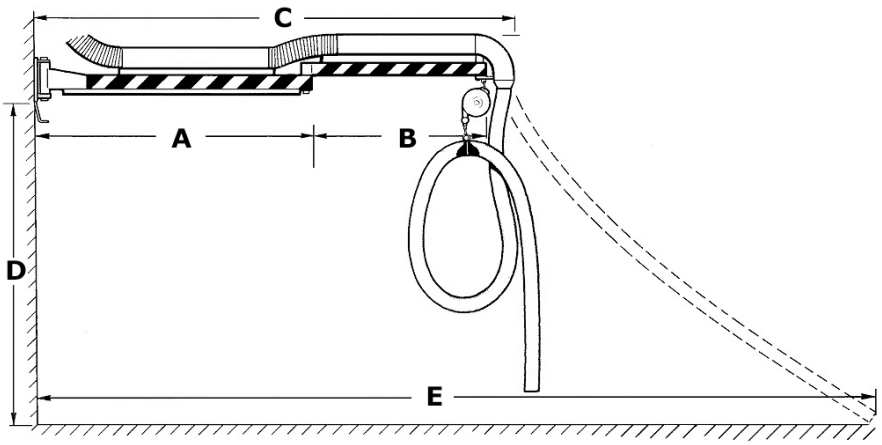
MODEL RANGE DATA

Prod.no.	Arm Length	Hose Diameter	Weight
FEB-10-4	10 ft (3 m)	4 in. (100 mm)	93 lbs (42,2 kg)
FEB-10-5	10 ft (3 m)	5 in. (125 mm)	95 lbs (43,2 kg)
FEB-10-6	10 ft (3 m)	6 in. (150 mm)	97 lbs (44,2 kg)
FEB-15-4	15 ft (4,5 m)	4 in. (100 mm)	124 lbs (56,4 kg)
FEB-15-5	15 ft (4,5 m)	5 in. (125 mm)	126 lbs (57,4 kg)
FEB-15-6	15 ft (4,5 m)	6 in. (150 mm)	128 lbs (58,4 kg)
FEB-20-4	20 ft (6 m)	4 in. (100 mm)	183 lbs (83,2 kg)
FEB-20-5	20 ft (6 m)	5 in. (125 mm)	185 lbs (84,2 kg)
FEB-20-6	20 ft (6 m)	6 in. (150 mm)	187 lbs (85,2 kg)
FEB-20-8	20 ft (6 m)	8 in. (200 mm)	189 lbs (85,7 kg)
FEB-26-4	26 ft (8 m)	4 in. (100 mm)	249 lbs (113,4 kg)
FEB-26-5	26 ft (8 m)	5 in. (125 mm)	252 lbs (114,4 kg)
FEB-26-6	26 ft (8 m)	6 in. (150 mm)	249 lbs (113,4 kg)
FEB-26-8	26 ft (8 m)	8 in. (200 mm)	252 lbs (114,4 kg)

Note: For airflow volume recommendations, refer to the **Airflow Volume: General Guidelines** table on the next page.

Note: Global Plymovent literature may list boom assemblies in metric nomenclature. For example, the FEB-4,5-150 product number is the metric equivalent of the US/Canadian FEB-15-6 model noted here.

DIMENSION DATA

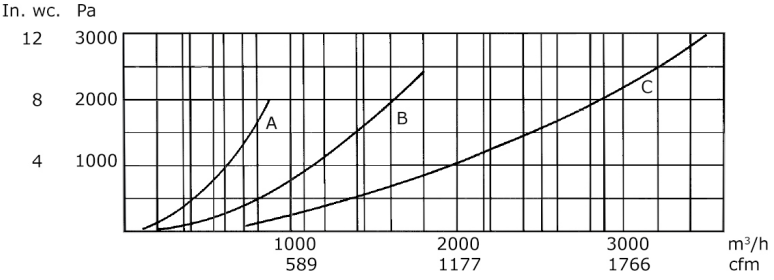


Note: Recommended mounting elevation above the finish floor (AFF) should be determined for each application. Total hose reach will vary based on mounting elevation and length of end hose. Designer must confirm that the BRL or BRC-450 recoil balancer can lift and recoil the hose weight and length required.

Prod.no.	A	B	C	D	E
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
FEB-15 (4-6 in. hose)	98 (2500)	80 (2000)	177 (4500)	See Note	See Note
FEB-20 (4-8 in. hose)	138 (3500)	98 (2500)	236 (6000)	See Note	See Note
FEB-26 (4-8 in. hose)	177 (4500)	138 (3500)	315 (8000)	See Note	See Note

Fixed Extractor on Boom - Pressure Loss

A. Ø 4 in. (100 mm) **B.** Ø 5 in. (125 mm) **C.** Ø 6 in. (150 mm)



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Accessories

Hose Types:

EG2 - Hiqh 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 - Hiqh 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:

Direct mount or central fans are available. Consult Plymovent for sizes and options.

Micro Switch for Fan Start:

Available when using the BRC-450 recoil balancer.

Fan Starters:

SAS-24, ES-90 or DCV controller for fan, including magnetic coil contractors, overload, transformer and fuses. UL/CE/TCSA Listed.

Motorized Dampers:

Motorised damper, activated via a Micro Switch on the BRC-450 recoil balancer.

Transformer TR-24:

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

AIRFLOW VOLUME: GENERAL GUIDELINES		
Vehicles Serviced	**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 (1020-1360)	6 in. (150 mm)
Off-Road (Constr., Compressor Tests, etc.)	1100-1400 (1900-2400)	8 in. (200 mm)

Note: These guidelines will vary based on types of vehicles and service work being performed. If the facility conducts Dyno Testing, CFM will vary based on types of vehicles and length of test period. Please refer to the Plymovent Vehicle Exhaust Extraction System Design Guide for more details.

Plymovent Authorized Distributor:

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Plymovent Corp.
5 Corporate Drive
Cranbury, NJ 08512
USA

T +1 800 644 0911
T +1 609 395 3500
F +1 609 655 0569
E info.usa@plymovent.com

plymoventusa @plymoventusa plymoventusa

Product type	**FEB™**
Article no.	see remaining specifications
Product category	hose drops
Version	032119/1

Always check the latest version on **www.plymovent.com**

Plymovent Corp. is ISO 9001:2015 Certified.