

EN Extraction fan
NL Afzuigventilator
DE Absaugventilator
FR Ventilateur d'aspiration
ES Ventilador de aspiración
SE Utsugsfläkt

FUA-1300/4700



EN User manual
NL Gebruikershandleiding
DE Betriebsanleitung
FR Manuel opérateur
ES Instrucciones para el uso
SE Bruksanvisning

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PREFACE

Using this manual

This manual is intended to be used as a work of reference for professional, well-trained and authorised users to be able to safely install, maintain and repair the product mentioned on the cover of this document.

Pictograms and symbols

The following pictograms and symbols are used in this manual:

	TIP Suggestions and recommendations to simplify carrying out tasks and actions.
	ATTENTION! A remark with additional information for the user. A remark brings possible problems to the user's attention.
	WARNING! Procedures which, if not carried out with the necessary caution, may damage the product or cause serious personal injury.
	WARNING! Denotes risk of electric shock.
	WARNING! Important warning to prevent fire.

Text indicators

Listings indicated by “-” (hyphen) concern enumerations. Listings indicated by “•” (bullet point) describe steps to perform.

Service and technical support

For information about specific adjustments, maintenance or repair jobs which are not dealt with in this manual, please contact the supplier of the product. Make sure you have the following specifications at hand:

- product name
- serial number

These data can be found on the identification plate.

1 INTRODUCTION

1.1 Identification of the product

The identification plate contains, among other things, the following data:

- product name
- serial number
- supply voltage and frequency
- power consumption

1.2 General description

The FUA is an extraction fan that is especially designed to remove welding fumes and other harmful fumes as dust, oil mist and exhaust gases.

The fan is intended and designed for mounting to extraction arms and filter units.

1.3 Product combinations

The fan can be used with all filter units, fume extraction and hose reel/drop systems.

1.4 Options and accessories

The following products can be obtained as an option and/or accessory:

- Mounting bracket (for mounting the fan as a standalone fan or wall/ceiling mounting)
 - FUA-1300/1800/2100: MB-FUA/S1
 - FUA-3000/4700: MB-FUA/S2
- Mounting bracket (for mounting the fan on the UK and FlexMax extractors)
 - FUA-1300/1800/2100: MB-FUA/C1
 - FUA-3000/4700: MB-FUA/C2
- Outlet transition
 - FUA-3000: OL-250 (Ø 250 mm)
 - FUA-4700: OL-250 (Ø 250 mm)
 - FUA-4700: OL-315 (Ø 315 mm)
- Soft connection
 - FUA-1300/1800/2100: SC-160 (inlet/outlet)
 - FUA-3000/4700: SC-250 (inlet/outlet)
 - FUA-4700: SC-315 (outlet)

1.5 Technical specifications

Motor design	IE2
Speed of revolutions	2800 rpm
Insulation class	F
Protection class	IP 55
Max. starts/stops per hour	30
Max. airflow temperature	80°C (176°F)
Noise level according to ISO 3746 (pressure and suction side duct connected)	
- FUA-1300	63 dB(A)
- FUA-1800	64 dB(A)
- FUA-2100	66 dB(A)
- FUA-3000	68 dB(A)
- FUA-4700	66 dB(A)
Connection voltages	
- FUA-1300	230V/1~/50Hz; 230-400V/3~/50Hz
- FUA-1800	230-400V/3~/50Hz
- FUA-2100	230V/1~/50Hz; 230-400V/3~/50Hz
- FUA-3000	230-400V/3~/50Hz
- FUA-4700	230-400V/3~/50Hz
Power	
- FUA-1300	0,37kW (0.5 HP)
- FUA-1800	0,55kW (0.75 HP)
- FUA-2100	0,75kW (1 HP)
- FUA-3000	1,1kW (1.5 HP)
- FUA-4700	2,2kW (3 HP)
Nominal current	
- FUA-1300	1~: 2,75 A; 3~: 1,02/1,1 A
- FUA-1800	1,4-1,5 A
- FUA-2100	1~: 5 A; 3~: 1,9-2 A
- FUA-3000	2,5-2,7 A
- FUA-4700	4,8-4,9 A

	Refer to the available product data sheet for detailed specifications.
---	--

1.6 Dimensions

Refer to Fig. I on page 45.

Fig. I

L = Fan wheel (not shown)
1 = diameter
2 = width

1.7 Pressure drop

Refer to Fig. II on page 46.

Fig. II
A = Static pressure (Pa)
B = Airflow (m³/h)

1.8 Ambient conditions

Min. operating temperature	5°C (41°F)
Nom. operating temperature	20°C (68°F)
Max. operating temperature	40°C (104°F)
Max. relative humidity	80%

2 PRODUCT DESCRIPTION

2.1 Components

The fan consists of the following main components:

Fig. 2.1/ Fig. 2.2
A outlet
B motor
C housing
D inlet
E fan wheel

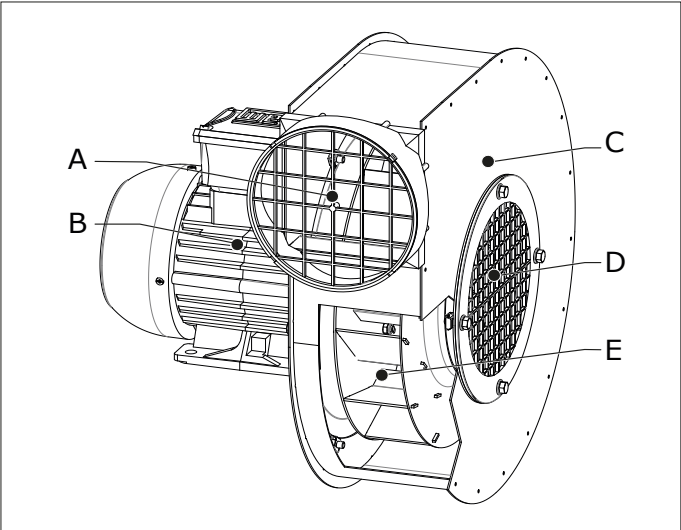


Fig. 2.1 Main components FUA-1300/1800/2100

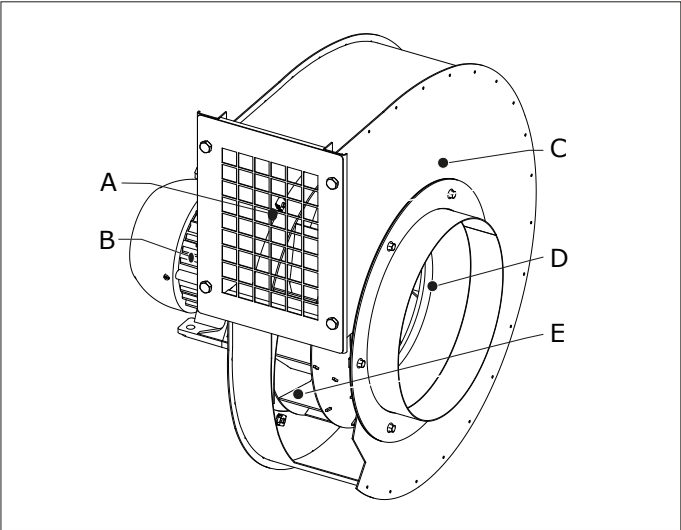


Fig. 2.2 Main components FUA-3000/4700

2.2 Operation

The inlet at the back of the fan is to be connected to the outlet of a central filter system, extraction arm or vehicle exhaust extraction system. The extracted air is blown out at the side of the fan through a duct.

There are various options to control the fan.

2.2.1 Control equipment

Plymovent provides control equipment for controlling the fan. Refer to the manual of the selected control equipment.

3 SAFETY

General

The manufacturer does not accept any liability for damage to the product or personal injury caused by ignoring of the safety instructions in this manual, or by negligence during installation, use, maintenance, and repair of the product mentioned on the cover of this document and any corresponding accessories. Specific working conditions or used accessories may require additional safety instructions. Immediately contact your supplier if you detect a potential danger when using the product.

The user of the product is always fully responsible for observing the local safety instructions and regulations.

User manual

- Everyone working on or with the product must be familiar with the contents of this manual and must strictly observe the instructions therein. The management should instruct the personnel in accordance with the manual and observe all instructions and directions given.
- Never change the order of the steps to perform.
- Always keep the manual with the product.

Pictograms and instructions on the product (if present)

- The pictograms, warning and instructions attached to the product are part of the safety features. They must not be covered or removed and must be present and legible during the entire life of the product.
- Immediately replace or repair damaged or illegible pictograms, warnings and instructions.

Users

The use of this product is exclusively reserved to authorised, well-trained and qualified users. Temporary personnel and personnel in training can only use the product under supervision and responsibility of skilled engineers.

Intended use¹

The product has been designed as an extraction fan for extracting fumes and gases which are released during the most common welding processes, as well as the extraction of exhaust gases. Using the product for other purposes is considered contrary to its intended use. The manufacturer accepts no liability for any damage or injury resulting from such use. The product has been built in accordance with state-of-the-art standards and recognised safety regulations. Only use this product when in technically perfect condition in accordance with its intended use and the instructions explained in the user manual.

Technical specifications

The specifications given in this manual must not be altered.

1. "Intended use" as explained in EN-ISO 12100 is the use for which the technical product is suited as specified by the manufacturer, inclusive of his directions in the sales brochure. In case of doubt it is the use which can be deduced from the construction, the model and the function of the technical product which is considered normal use. Operating the machine within the limits of its intended use also involves observing the instructions in the user manual.

Modifications

Modification of (parts of) the product is not allowed.

Installation

- The installation of this product is exclusively reserved to authorised, well-trained and qualified engineers.
- Inspect the product and check it for damage. Verify the functioning of the safety features.
- Electric connection is to be executed in accordance with local requirements. Ensure compliance with the EMC regulatory arrangements.
- During installation, always use Personal Protective Equipment (PPE) to avoid injury. This also applies to persons who enter the work area during installation.
- Never install the product in front of entrances and exits which must be used for emergency services.
- Mind any gas and water pipes and electric cables.
- Make sure that the workshop, in the vicinity of the product, contains sufficient approved fire extinguishers.

Use

	WARNING Fire hazard! Never use the product for: - extracting flammable, glowing or burning particles or solids or liquids - extracting of aggressive fumes (such as hydrochloric acid) or sharp particles - sucking cigarettes, cigars, oiled tissues, and other burning particles, objects, and acids
	WARNING! Never use the product for: - aluminium laser cutting - paint mist - extraction of hot gases (more than 80°C/176°F continuously) - grinding aluminium and magnesium - flame spraying - extraction of cement, saw dust, wood dust etc. - sucking cigarettes, cigars, oiled tissues and other burning particles, objects and acids - explosive environments or explosive substances/ gases <i>Note: this list is not all-embracing.</i>

- Check the working environment. Do not allow unauthorised persons to enter the working environment.
- Protect the product against water and humidity.
- Make sure the room is always sufficiently ventilated; this applies especially to confined spaces.
- Use common sense. Stay alert and keep your attention to your work. Do not use the product when you are under the influence of drugs, alcohol or medicine.

Service, maintenance and repairs

- During service, maintenance and repair jobs, always use Personal Protective Equipment (PPE) to avoid injury. This also applies to persons who enter the work area during installation.
- Always use tools, materials, lubricants and service techniques which have been approved by the manufacturer. Never use worn tools and do not leave any tools in or on the product.
- Safety features which have been removed for service, maintenance or repairs, must be put back immediately after finishing these jobs and it must be checked that they still function properly.

4 INSTALLATION

4.1 Unpacking

Check that the product is complete. The package should contain:

- extraction fan

Options and accessories

The MB-FUA/S1-2 should contain:

- mounting bracket
- connection flange with grid (S1 only)
- tube clamps (4)
- hardware

The MB-FUA/C1-2 should contain:

- mounting bracket
- connection flange (C1 only)
- hardware

The OL (outlet transition) should contain:

- square to round outlet transition

The SC (soft connection) should contain:

- soft connection with 2 hose clamps

If parts are missing or damaged, contact your supplier.

4.2 Installation

4.2.1 Tools and requirements

The following tools and requirements are needed to install the product:

- wrench 10
- wrench 13
- wrench 17
- screwdriver

4.2.2 Installing the fan on an MB-FUA-S1/S2

For use as a standalone or for mounting on the wall, ceiling or a platform. The motor can be installed resting on the stand. The motor of the FUA-1300/1800/2100 can also be installed upside down (hanging from the stand, not shown).

To install the fan on an MB-FUA-S1/S2 stand, proceed as follows:

Fig. 4.1

- Install the stand in the desired place.
- Attach the tube clamps (B) as desired, if applicable.
- Tighten the tube clamps with suitable hardware (not supplied; material depending on wall, floor or ceiling type).
- Position the fan on the stand as desired.
- Tighten the bolts (A).

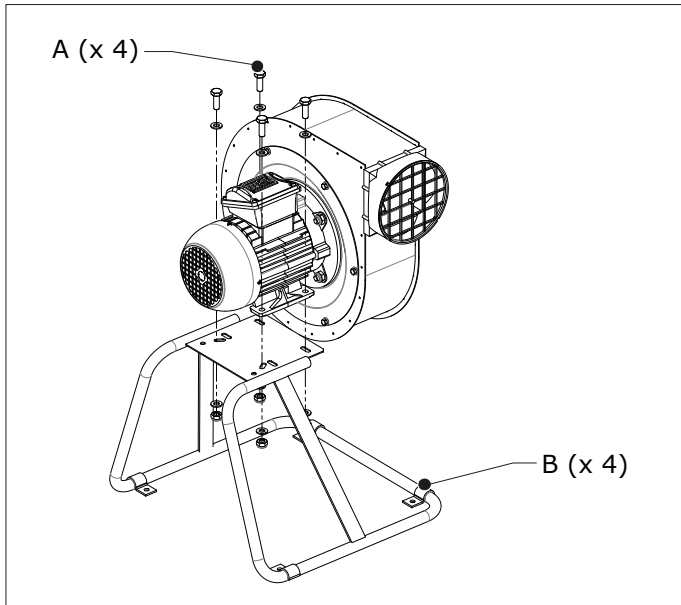


Fig. 4.1 Installing the fan on an MB-FUA-S1/S2

4.2.3 Installing the fan on an MB-FUA-C1/C2

For use on an extractor (UK or FlexMax) or use with vehicle exhaust extraction systems.

To install the fan on an MB-FUA-C1/C2 bracket, proceed as follows:

Fig. 4.2

- Use the mounting holes (A) and suitable hardware (not supplied, material depending on wall type) to install the bracket on the wall.
- Position the fan on the bracket.
- Tighten the bolts (B).

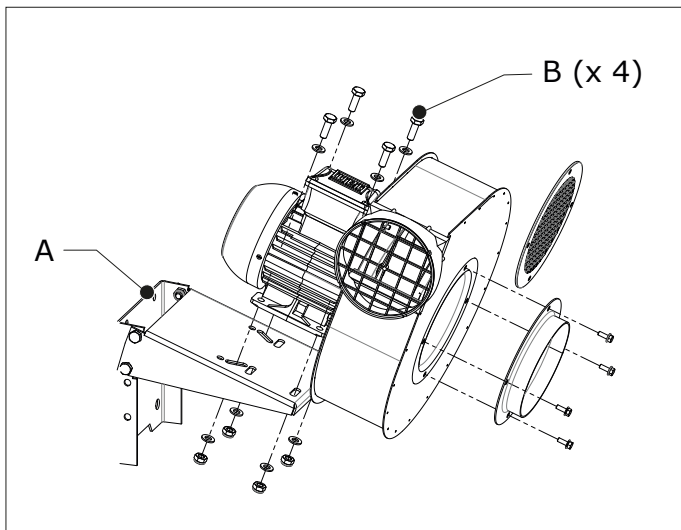


Fig. 4.2 Installing the fan on an MB-FUA-C1/C2

4.2.4 Changing the outlet position

The fan outlet can be positioned in various directions (see Fig. 4.3).

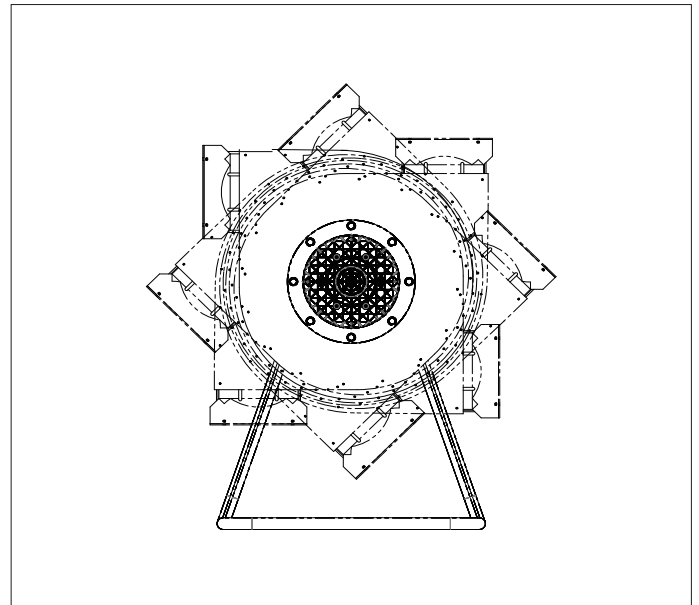


Fig. 4.3 Variable outlet position

To change the outlet position of the fan, proceed as follows:

Fig. 4.4

- Define the desired outlet position.
- If necessary, loosen the motor plate by unscrewing the bolts (A).
- Turn the motor in the desired position.
- Tighten the bolts of the motor plate.

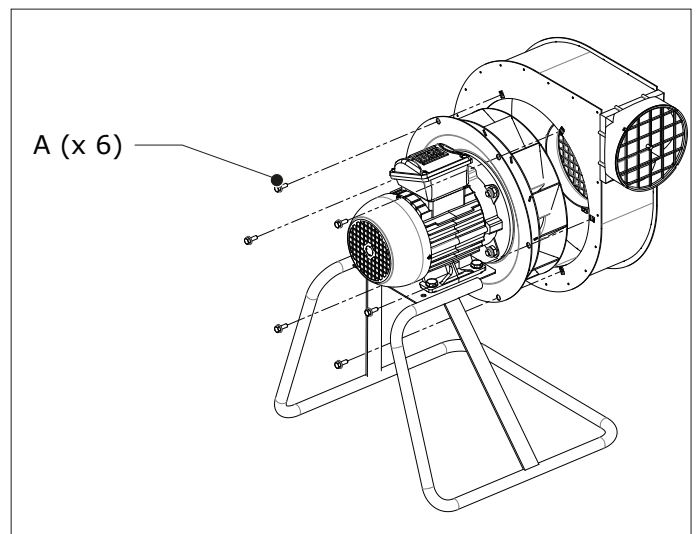


Fig. 4.4 Changing the outlet position

4.2.5 Installing the fan directly on an arm

The FUA-1300/1800/2100 can be used on the KUA or LM-2 extraction arm. In that case, no additional bracket is needed. The necessary hardware is delivered with the arm.

To install the fan directly on the arm, proceed as follows.

Fig. 4.5

- Loosen the bolts of the inlet grid (A).
- Remove the inlet grid.
- Position the inlet of the fan on the bracket.
- Tighten the bolts (B).

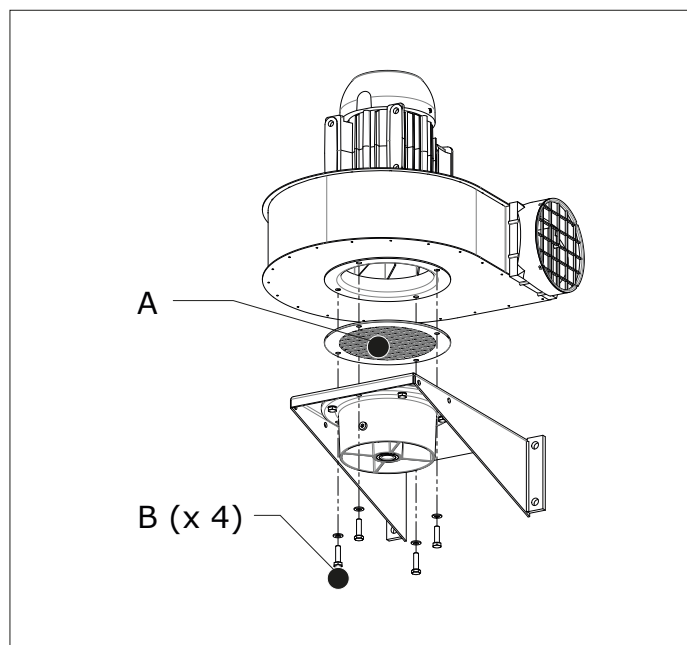


Fig. 4.5 Installing the fan directly on an arm

4.2.6 Connecting the fan inlet to a hose (FUA-1300/1800/2100)

We advise the use of a soft connection for the inlet to reduce the noise and the vibrations of the fan.

To connect the fan inlet to a hose, proceed as follows:

Fig. 4.6

- Loosen the bolts of the inlet grid (A).
- Remove the grid.
- Install the connection flange (B) with the bolts of the inlet grid.
- Tighten the bolts.
- Attach the soft connection to the connection flange.
- Tighten the hose clamp (C).
- Attach the soft connection to the hose.
- Tighten the hose clamp (D).

4.2.7 Connecting the fan outlet to a duct (FUA-1300/1800/2100)

	ATTENTION! In case the fan is not placed directly next to the filter system, make sure the extraction duct is sufficiently supported.
--	--

We advise the use of a soft connection for the outlet to reduce the noise and the vibrations of the fan and to avoid damage to the duct.

To connect the fan outlet to a duct, proceed as follows:

Fig. 4.6

- Attach the soft connection to the outlet of the fan.
- Tighten the hose clamp (E).
- Attach the soft connection to the duct.
- Tighten the hose clamp (F).

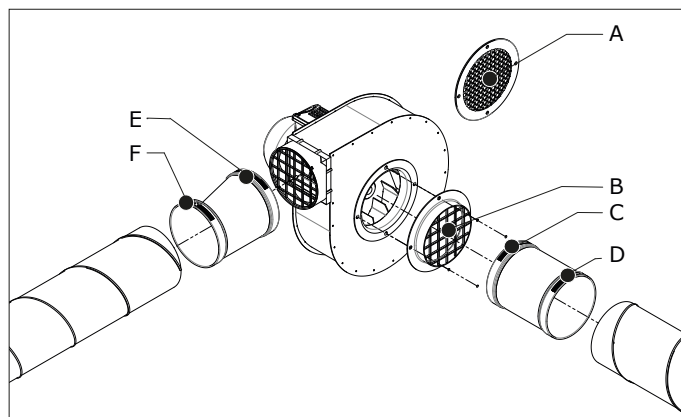


Fig. 4.6 Connecting the fan to a hose and duct (FUA-1300/1800/2100)

4.2.8 Connecting the fan inlet to a hose (FUA-3000/4700)

We advise the use of a soft connection for the inlet to reduce the noise and the vibrations of the fan.

To connect the fan inlet to a hose, proceed as follows:

Fig. 4.7

- Attach the soft connection to the connection flange.
- Tighten the hose clamp (B).
- Attach the soft connection to the hose.
- Tighten the hose clamp (C).

4.2.9 Connecting the fan outlet to a duct (FUA-3000/4700)

	ATTENTION! In case the fan is not placed directly next to the filter system, make sure the extraction duct is sufficiently supported.
--	--

We advise the use of a soft connection for the outlet to reduce the noise and the vibrations of the fan and to avoid damage to the duct. In addition, we advise the use of a (square to round) outlet transition.

To connect the fan outlet to a duct, proceed as follows:

Fig. 4.7

- Loosen the bolts of the outlet grid (A).
- Remove the grid.
- Attach the outlet transition to the outlet of the fan with the bolts of the grid (D).
- Tighten the bolts.
- Attach the soft connection to the outlet transition.
- Tighten the hose clamp (E).
- Attach the soft connection to the duct.
- Tighten the hose clamp (F).

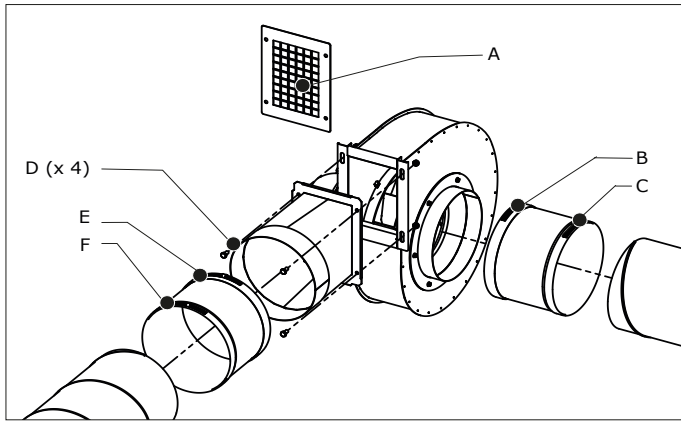


Fig. 4.7 Connecting the fan to a hose and duct (FUA-3000/4700)

4.3 Electric connection



ATTENTION!

Electric connection to be executed in accordance with local requirements. Ensure compliance with the EMC regulatory arrangements.



WARNING!

Make sure that the fan is suitable for connection to the local mains. Information about the connection voltage and frequency can be found on the identification plate. The cables must be connected in conformance with the local rules and regulations and can only be carried out by qualified and authorised technicians.

The default setting for the 3~ fans is 400V. If another voltage is used, the wiring must be changed according to the instructions on the identification plate.

To connect the starting device, proceed as follows:

- Connect the fan to the chosen starting device according to the information on the identification plate on the motor.
- Connect the starting device to the mains according to the separately supplied electrical diagram.
- Check the direction of rotation of the motor. For this purpose the fan contains an arrow indicating the prescribed direction of rotation. The rotation is visible through the grid of the motor.
- If necessary, invert the connection of the phases.

5 USE

Refer to the documentation supplied with the selected control equipment how to control the fan.

6 MAINTENANCE

The fans require no specific maintenance.

7 TROUBLESHOOTING

If the product does not function (correctly), consult the checklist below to see if you can remedy the error yourself. Should this not be possible, contact your supplier.



WARNING!

Always switch **off** the machine and disconnect it from the mains before carrying out the activities below. First read the maintenance regulations at the beginning of this manual.

Symptom	Problem	Possible cause	Solution
Motor does not start.	Machine does not function.	No mains voltage.	Check the mains voltage.
		Mains cord defective.	Repair or replace mains cord.
		Loose contacts.	Repair the contacts.
		Motor protection switch defective.	Replace the motor protection switch.
		Motor defective.	Repair or replace motor.
Motor makes a humming sound, but does not run.	Machine does not function.	Motor uses 2 phases instead of 3 (three-phase motor only).	Repair the phase connection.
		Motor capacitor defective/not connected (single phase motor only).	Repair or replace the motor capacitor.
Motor stops automatically.	Machine does not function.	Motor protection switch activated.	Let the machine cool down for some time. Check setting of motor protection switch (MPS) according to electrical diagram.
		Motor defective.	Repair or replace the motor.
Poor suction.	Machine does not function properly.	Inverted direction of rotation of the motor (three-phase motor only).	Change the direction of rotation.
		Motor defective.	Repair or replace the motor.
		Extraction fan polluted.	Clean the extraction fan.
		Outside air is being extracted.	Check or replace the sealing material.
Vibrations in the machine.	Machine not steady.	Imbalance in the extraction fan.	Clean the extraction fan.

8 SPARE PARTS

The following spare parts are available for the product. Refer to the exploded views on page 47:

- Fig. III for the FUA-1300/1800/2100;
- Fig. IV for the FUA-3000/4700.

Article number	Description
FUA-1300	
0000100580	Fan wheel FUA-1300
0000100585	Inlet flange FUA-1300/1800
0000100588	Outlet grid FUA-1300/1800/2100
0000100589	Motor FUA-1300; 230-400V/3ph/50Hz
0000100590	Motor FUA-1300; 230V/1ph/50Hz
0000100597	Inlet grid (fine) FUA-1300/1800/2100
0000100995	Connection flange with grid FUA-1300/1800/2100
FUA-1800	
0000100581	Fan wheel FUA-1800
0000100585	Inlet flange FUA-1300/1800
0000100588	Outlet grid FUA-1300/1800/2100
0000100591	Motor FUA-1800; 230-400V/3ph/50H
0000100597	Inlet grid (fine) FUA-1300/1800/2100
0000100995	Connection flange with grid FUA-1300/1800/2100
FUA-2100	
0000100582	Fan wheel FUA-2100
0000100586	Inlet flange FUA-2100
0000100588	Outlet grid FUA-1300/1800/2100
0000100592	Motor FUA-2100; 230-400V/3ph/50Hz
0000100593	Motor FUA-2100; 230V/1ph/50Hz
0000100597	Inlet grid (fine) FUA-1300/1800/2100
0000100995	Connection flange with grid FUA-1300/1800/2100
FUA-3000	
0000100583	Fan wheel FUA-3000
0000100594	Motor FUA-3000; 230-400V/3ph/50Hz
FUA-4700	
0000100584	Fan wheel FUA-4700
0000100595	Motor FUA-4700; 230-400V/3ph/50Hz

CE DECLARATION

CE declaration of conformity for machinery

We, Plymovent Manufacturing BV, Wezelkoog 11, 1822 BL Alkmaar, the Netherlands, herewith declare, on our own responsibility, that the product(s):

- FUA-1800
- FUA-2100
- FUA-3000
- FUA-4700

which this declaration refers to, are in accordance with the conditions of the following Directive:

- Machine Directive 2006/42 EC
- EMC directive 2004/108 EC
- LVD 2006/95/EC
- ErP directive 2009/125/EC

Alkmaar, the Netherlands, 1 December 2012



Ir. F. Coehoorn
Vice President Research & Development

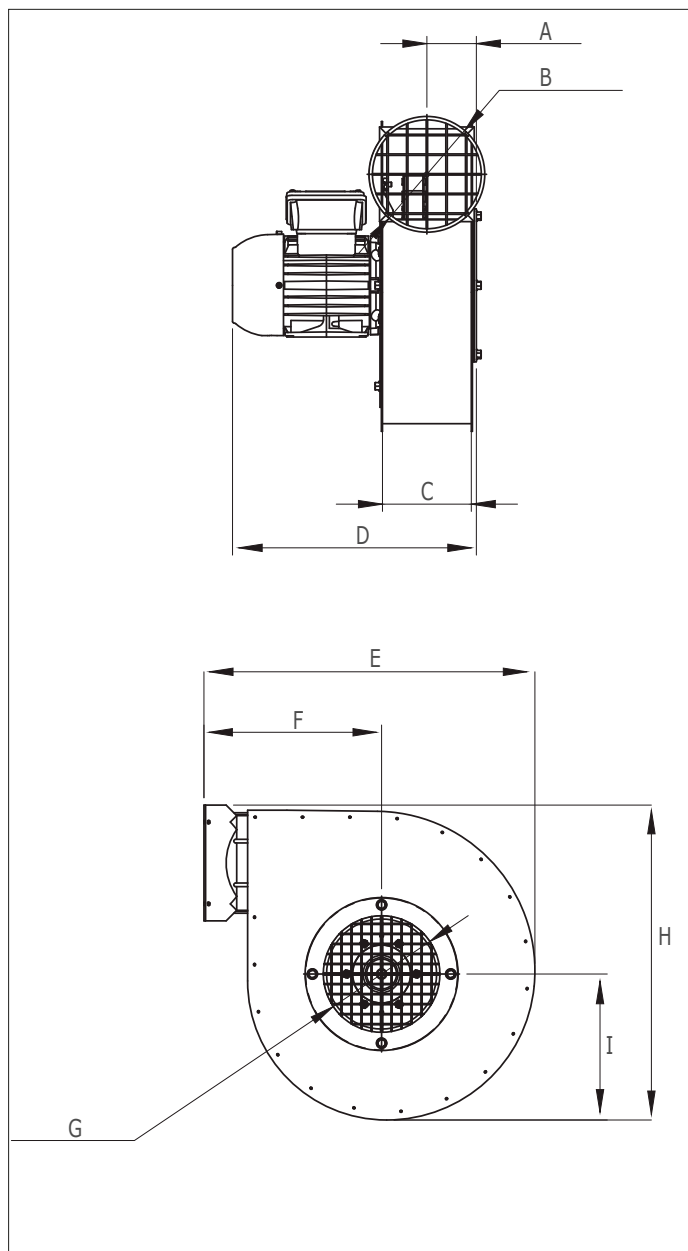
An installation is defined as a combination of several finished products or components that are assembled by an installer at a given place. The various parts of the installation are intended to operate together in a particular environment and to perform a specific task. The entire installation must comply with the relevant directives and standards. The assembly instructions given by the manufacturer, as well as the whole method of installation, must be in accordance with good engineering practices within the context of installations, as well as installation rules. Considering the above, the installer will be responsible for completing the installation and issuing the final CE Declaration of Conformity.

9 ELECTRICAL DIAGRAM

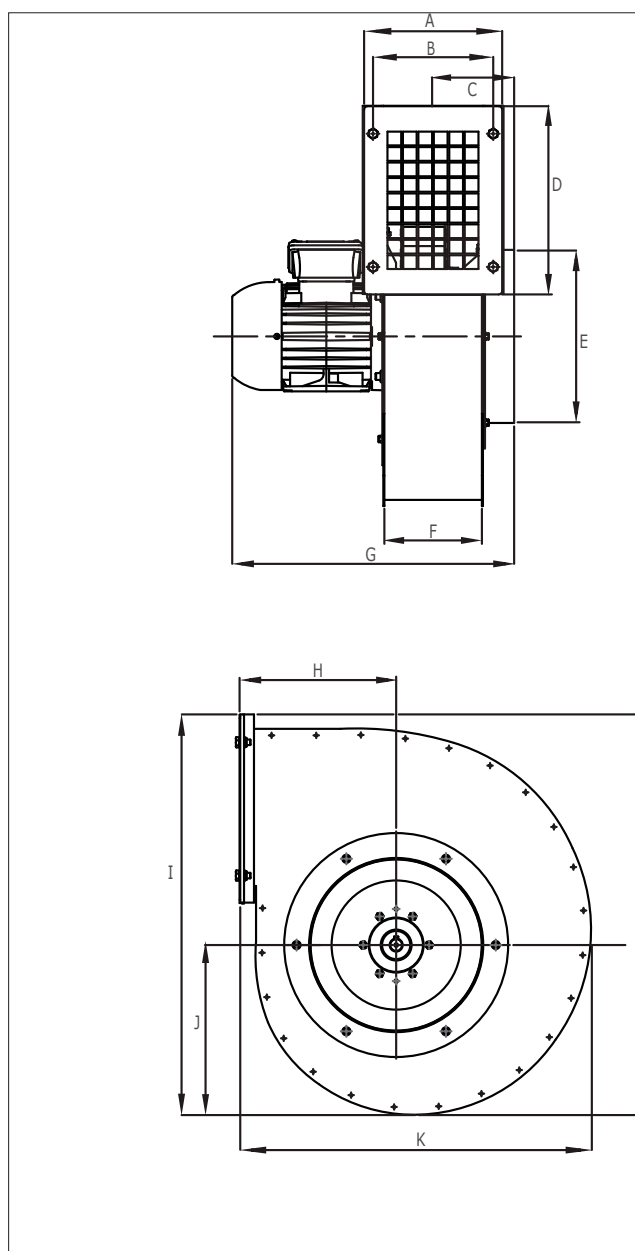
Refer to the separately supplied electrical diagram.

10 DISPOSAL

After life of the product, dispose it of in accordance with federal, state or local regulations.



FUA-1300/1800/2100



FUA-3000/4700

Fig. I

	FUA-1300/1800	FUA-2100
A	68 mm (2.7 in.)	68 mm (2.7 in.)
B	Ø 159 mm (6.3 in.)	Ø 159 mm (6.3 in.)
C	122 mm (4.8 in.)	122 mm (4.8 in.)
D	330 mm (12.9 in.)	353 mm (13.9 in.)
E	455 mm (17.9 in.)	455 mm (17.9 in.)
F	244 mm (9.6 in.)	244 mm (9.6 in.)
G	Ø 160 mm (6.3 in.)	Ø 160 mm (6.3 in.)
H	433 mm (17 in.)	433 mm (17 in.)
I	201 mm (7.9 in.)	201 mm (7.9 in.)
L		
1	Ø 300 mm (11.8 in.)	Ø 300 mm (11.8 in.)
2	20 mm (0.8 in.)/ 25 mm (1.0 in.)	60 mm (2.4 in.)

	FUA-3000	FUA-4700
A	201 mm (7.9 in.)	205 mm (8.1 in.)
B	175 mm (6.9 in.)	175 mm (6.9 in.)
C	118 mm (4.6 in.)	117 mm (4.6 in.)
D	274 mm (10.8 in.)	348 mm (13.7 in.)
E	Ø 250 mm (9.8 in.)	Ø 245 mm (9.6 in.)
F	142 mm (5.6 in.)	142 mm (5.6 in.)
G	410 mm (16.1 in.)	480 mm (18.9 in.)
H	228 mm (9 in.)	258 mm (10.6 in.)
I	583 mm (23 in.)	733 mm (28.9 in.)
J	247 mm (9.7 in.)	297 mm (11.7 in.)
K	512 mm (20.2 in.)	591 mm (23.3 in.)
L		
1	Ø 320 mm (12.6 in.)	Ø 380 mm (15 in.)
2	60 mm (2.4 in.)	45 mm (1.8 in.)

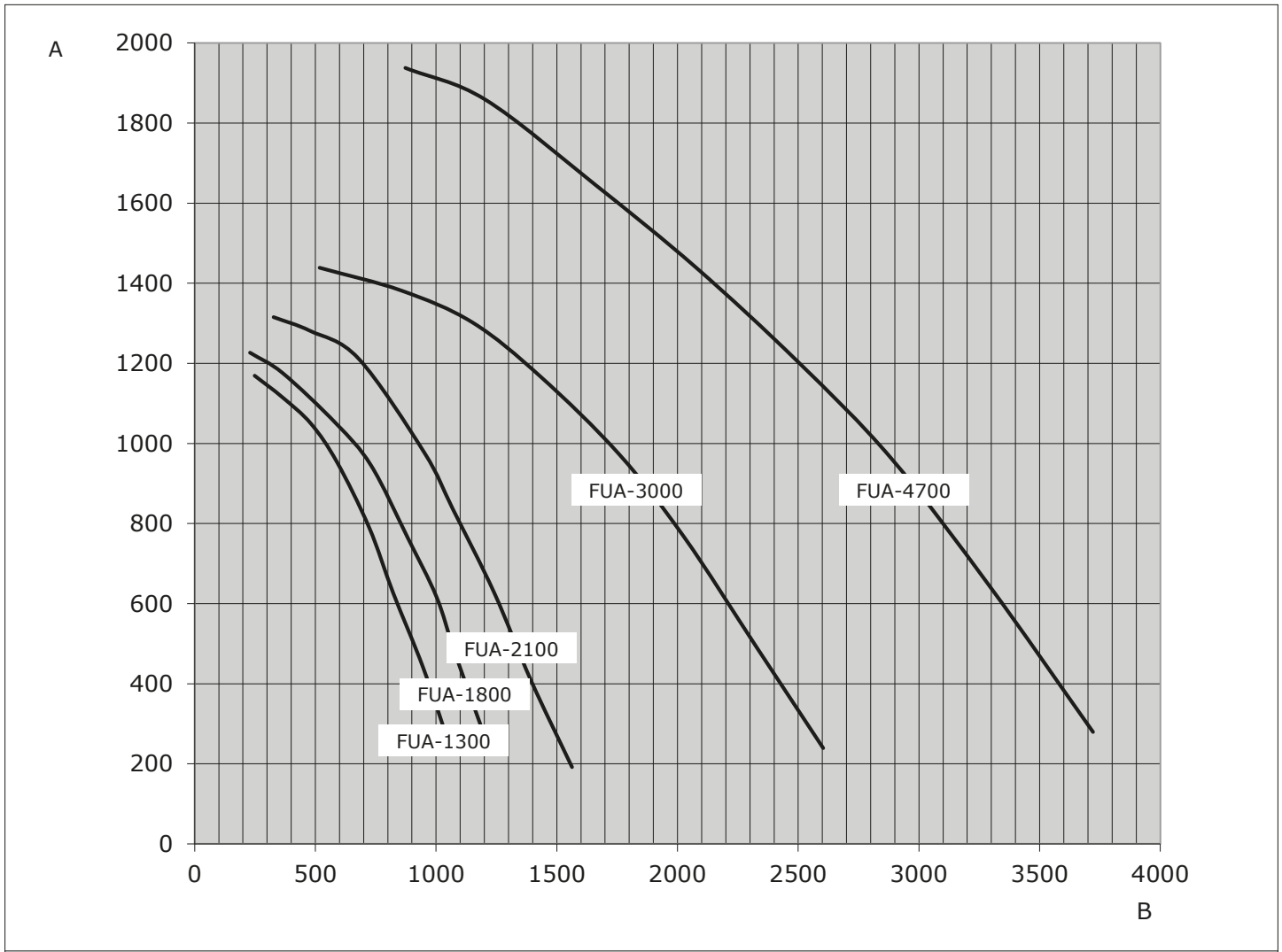


Fig. II

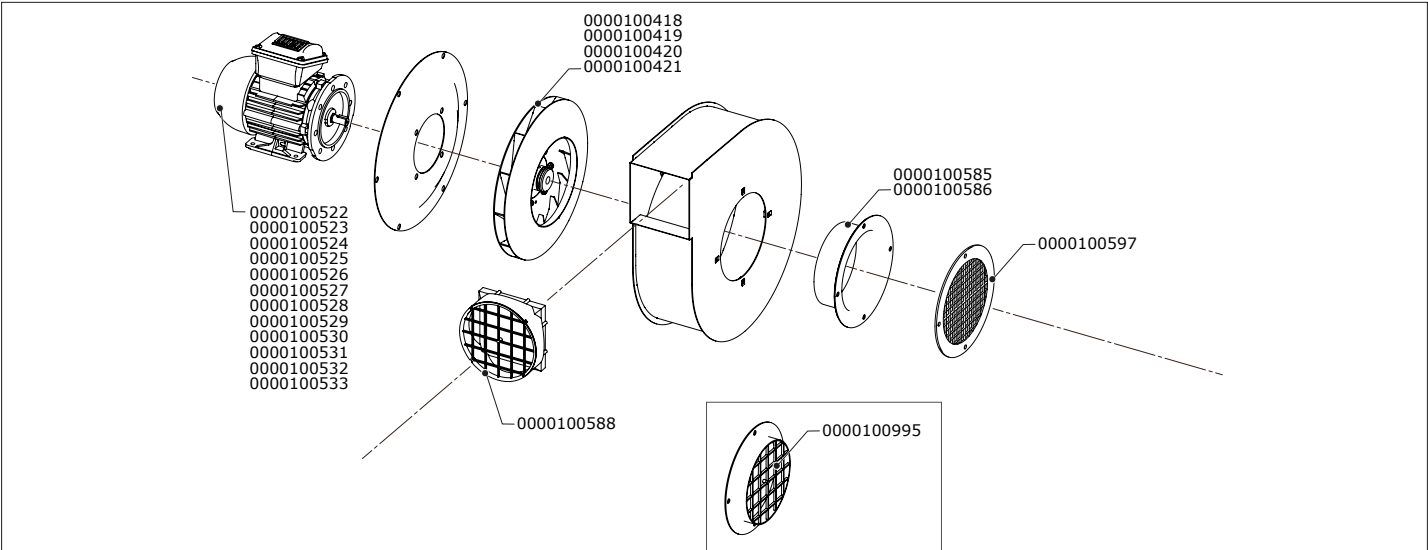


Fig. III

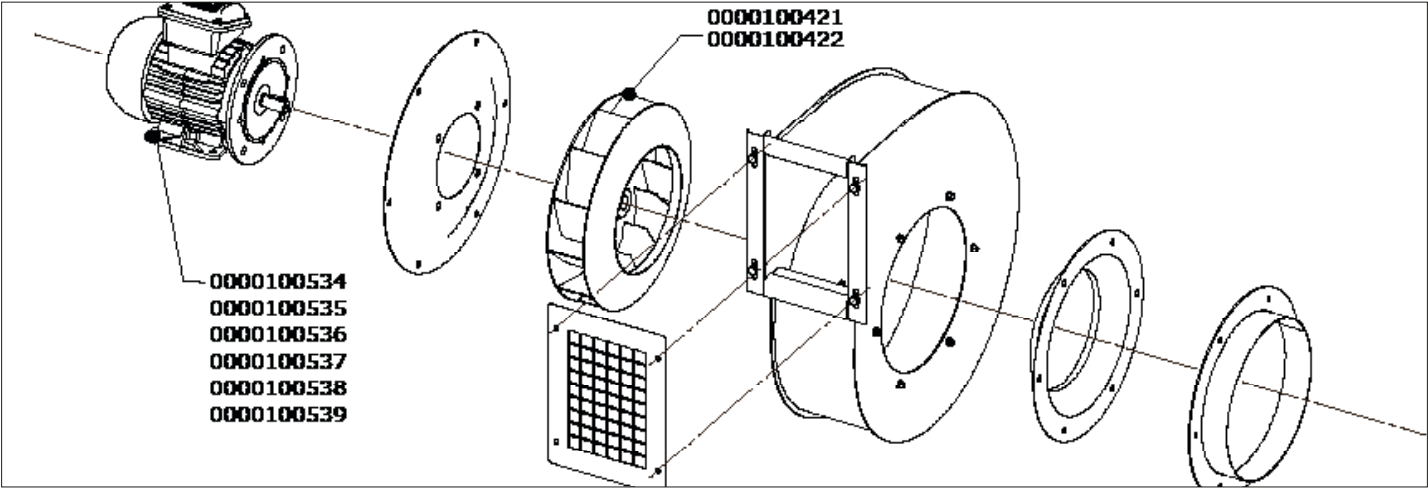


Fig. IV



Product manual

Fans

1300, 1301, 1800, 2100, 2101, 3000, 4700

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PLYMOVENT®

Thank you for buying a PlymoVent product.
Before you unpack and put it into operation please read
this product manual, and follow the instructions.

**THIS MANUAL SHOULD BE HANDED OVER
AND KEPT BY THE SERVICE DEPARTMENT
AFTER THE INSTALLATION!**

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Fax: (732) 417 1818
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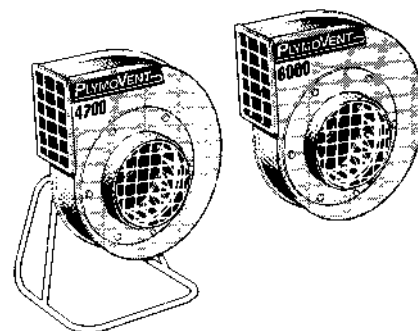
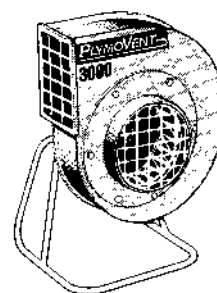
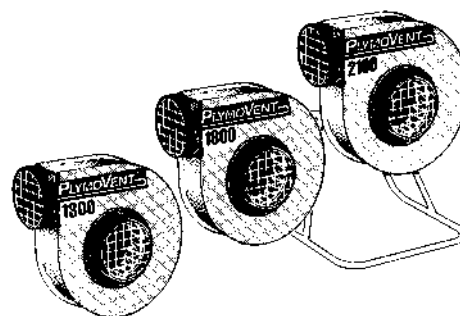


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PLYMOVENT®	TECHNICAL DESCRIPTION	BSAB no: T6.1 Ser.no: F1/TB Date: Sept-97 Replace: Jan-95
FANS 1300, 1301, 1800, 2100, 2101, 3000, 4700	© Copyright 2008: All rights reserved. All information within this printed matter may not be reproduced, handed over, copied, xeroxed or translated into another language in any form or means without written permission from PlymoVent AB. PlymoVent AB reserves the right to make design changes.	

Fans for welding fumes, dust and oilmist.

PlymoVent offers a wide range of fans, fulfilling every demand for fans designed for workshops. The fans are equipped with a non-sparking impeller of aluminium, especially designed to resist welding fumes, dust and oilmist. Matched diameter of inlet and outlet (1300-2101) provides a smooth continuous airflow and a high capacity. By using PlymoVent's automatic control equipment for energy saving (ES-90, ASE-12 and M-1000) the performance of the fan is utilized to its maximum, enabling a more efficient extraction rate and also reducing the energy costs. For information on ancillary control equipment and accessories, please see "Supplementary Equipment". The fans are intended and designed for use with a centralised ducting system.



Delivery

The fans are delivered complete with specific mounting brackets or intended for direct mounting according to the table below.

NOTE! PLYMOVENT PRODUCT RESPONSIBILITY ONLY APPLIES IF THE EQUIPMENT IS NOT ALTERED OR ADDED TO, OTHER THAN WITH THE WRITTEN CONSENT OF PLYMOVENT AB.

Prod. no:	Mounting example	Support	Inlet mm	Outlet mm
FS 1300, 1301 1800, 2100 2101	Mounting on wall or ceiling.	Tubular support.	Ø 6.30 sleeve	Ø 6.30 sleeve
3000 4700	Various applications.		Ø 9.84 sleeve	□ 5.59x8.46* □ 5.59x11.22*
FUK 1800, 2100 2101	Direct to FlexMax and Extractor Crane	Angled support.	Ø 6.30 sleeve	Ø 6.30 sleeve
3000 4700			Ø 9.84 sleeve	□ 5.59x8.46* □ 5.59x11.22*
FUA 1300, 1301 1800, 2100 2101	Direct to KUA, LM-2, Filter.	—	Ø 6.30 sleeve	
3000 4700	Direct to filter.		Ø 9.84 sleeve	□ 5.59x8.46* □ 5.59x11.22*

* For outlets with round sleeves, see "accessories".

Advantages

- Non-sparking impeller designed for vehicle exhaust gases, volatile fumes and dust.
- High capacity and low sound level.
- Housing constructed in 0.04"-0.06" sheet metal, finished in impact resistant enamel.
- All fans are equipped with a protective grill at both the inlet and the outlet.
- Long working life.
- Flexible fan house enabling simple duct connections on in- and outlet.

Technical data

Technical data: 1300

Power supply: 208-230/460V 3 ~
Frequency: 60 Hz
Output: 0.5 Hp
Rated Current: 1-2.2 Amp
Motor speed: 3600 rpm

Technical data: 1800

Power supply: 208-230/460V 3 ~
Frequency: 60 Hz
Output: 0.75 Hp
Rated Current: 1.3-2.9 Amp
Motor speed: 3600 rpm

Technical data: 2101

Power supply: 208-230/460V 3 ~
Frequency: 60 Hz
Output: 1.0 Hp
Rated Current: 1.6-3.5 Amp
Motor speed: 3600 rpm

Technical data: 4700

Power supply: 208-230/460V 3 ~
Frequency: 60 Hz
Output: 3.0 Hp
Rated Current: 4-8.8 Amp
Motor speed: 3600 rpm

Technical data: 1301

Power supply: 115/208-230V 1 ~
Frequency: 60 Hz
Output: 0.5 kW
Rated Current: 3.7-7.4 Amp
Motor speed: 3600 rpm

Technical data: 2100

Power supply: 115/208-230V 1 ~
Frequency: 60 Hz
Output: 0.75 kW
Rated Current: 4.6-9.2 Amp
Motor speed: 3600 rpm

Technical data: 3000

Power supply: 115/208-230V 1 ~
Frequency: 60 Hz
Output: 1.5 kW
Rated Current: 6.6-13.2 Amp
Motor speed: 3600 rpm

Safety information:

1. A strong safety net is fitted to the in- and outlet of the fan.
2. Connection onto the electrical system may only be carried out by certified electricians.

NOTE! IT IS PROHIBITED TO INTERFERE WITH THE ABOVE SAFETY PRECAUTIONS.

Technical data

Airflows through different outlets and freeblowing.

Extractor type	No of Extractors	FS/FUA 1300 CFM	FS/FUA 1301 CFM	FS/FUK/FUA 1800 CFM	FS/FUK/FUA 2100 CFM	FS/FUK/FUA 2101 CFM	FS/FUK/FUA 3000 CFM	FS/FUK/FUA 4700 CFM	FS/FUK/FUA 6000 CFM
KUA-2	1 2 3 4 5	589	589	736 353	824 383	834 383	765 500	765 559	1030 765 618
KUA-3-4	1 2 3 4 5	559	559	706 324	736 353	765 353	706 441	706 530	942 706 560
LM-2	1 2 3 4 5	530	530	706 324	765 353	765 353	677 441	706 530	942 706 471
FlexMAX	1 2 3 4 5			441	589	589	618 383	589 471	795 589 471
UK"Plymoth"	1 2 3 4 5	500	500	589 294	706 324	706 324	647 441	647 500	853 618 500
Capacity free blowing CFM Motor output kW Voltage V Rated Current Amp Sound level dB(A) house Sound level dB(A) inlet Sound level dB(A) outlet Motor speed rpm		824 0.5 208-230/460 3~ 1-2.2 63 69 72.7 3600	824 0.5 115/208-230 1~ 3.7-7.4 63 69 72.7 3600	1060 0.75 208-230/460 3~ 1.3-2.9 63.8 69.1 72.7 3600	1271 1.0 208-230/460 3~ 1.6-3.5 65.9 68.6 76.4 3600	1271 1.0 208-230/460 1~ 6-12 65.9 68.6 76.4 3600	1766 1.5 208-230/460 3~ 2.5-5.5 68.1 75.8 81.6 3600	2766 3.0 208-230/460 3~ 4-8.8 75.9 76.1 81.6 3600	3532 7.5 208-230/460 3~ 9.6-21.2 74.8 81.2 81.6 3600

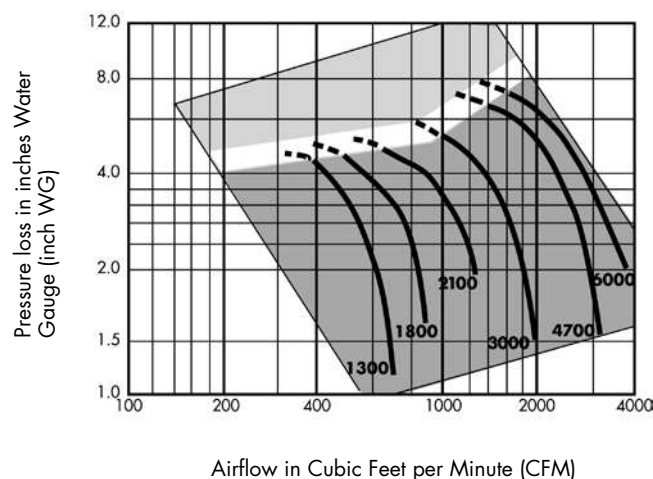
FS: Fan mounted on tubular support. For free standing or wall mounting.

FUK: Fan mounted on angled support. For direct mounting on Extractor crane and Flex-Max.

FUA: Fan without support. For direct mounting on LM-2, KUA, as well as EF-and EFO-filters.

 Recommended fans.

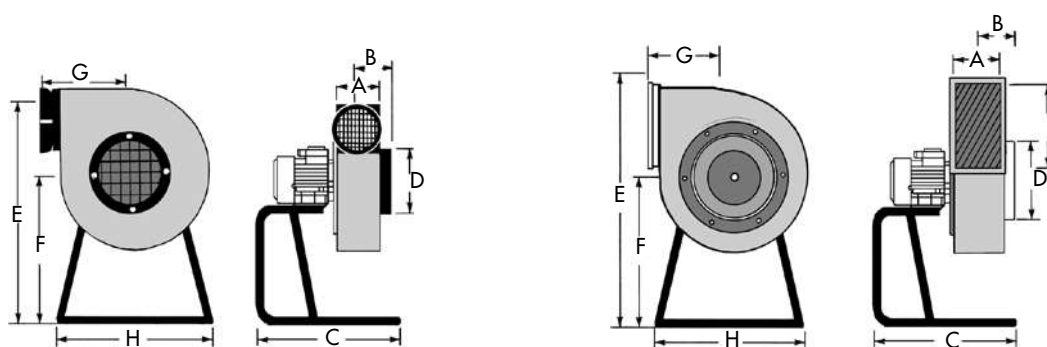
Pressure Loss Chart for FS-, FUA-, and FUK-



-  Recommended working range
-  Critical Zone
-  Fans unsuitable

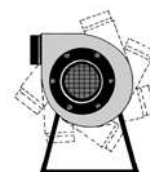
Dimensions FS

Fan mounted on tubular support. For various applications.

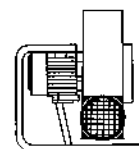


Prod. no:	A	B	C	D	E	F	G	H	I	LB
FS-1300	Ø6.30	3.74	16.93	Ø6.30	25.59	16.34	9.65	17.52	-	34.3
FS-1301	Ø6.30	3.74	16.93	Ø6.30	25.59	16.34	9.65	17.52	-	35.6
FS-1800	Ø6.30	3.74	16.93	Ø6.30	25.59	16.34	9.65	17.52	-	36.1
FS-2100	Ø6.30	3.74	16.93	Ø6.30	25.59	16.34	9.65	17.52	-	42.7
FS-2101	Ø6.30	3.74	16.93	Ø6.30	25.59	16.34	9.65	17.52	-	43.1
FS-3000	5.59	4.33	17.72	Ø9.84	29.13	16.14	9.06	17.52	8.46	42.8
FS-4700	5.59	4.33	18.50	Ø9.84	34.06	17.13	10.24	17.52	11.22	77.0

Dimensions in inches.



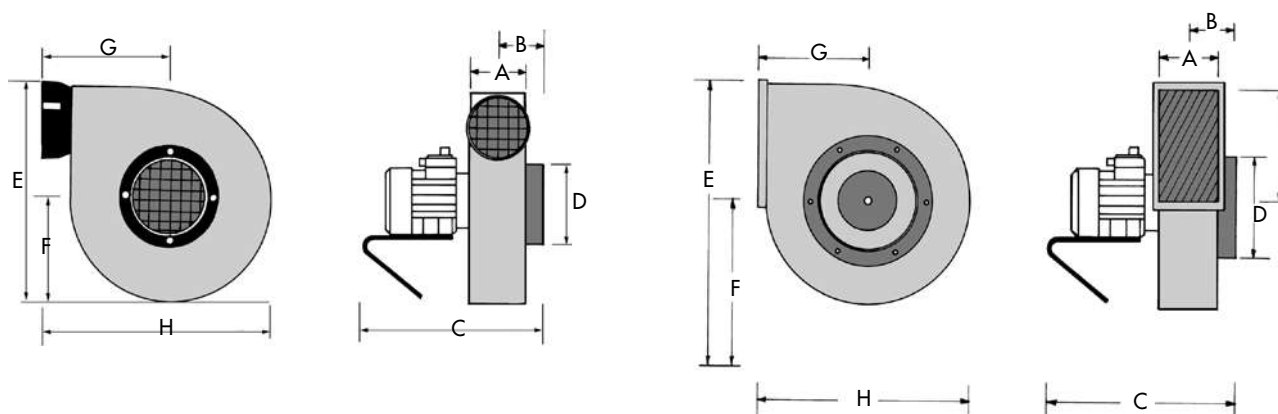
The fan can be turned around its axis and mounted to the support in six different angles



The motor can be mounted inside the support (applies just to FS-1300, -1301, -1800, -2100 och -2101).

Dimensions FUK

Fan mounted on angled support. For direct mounting on FlexMax and Extractor Crane UK.

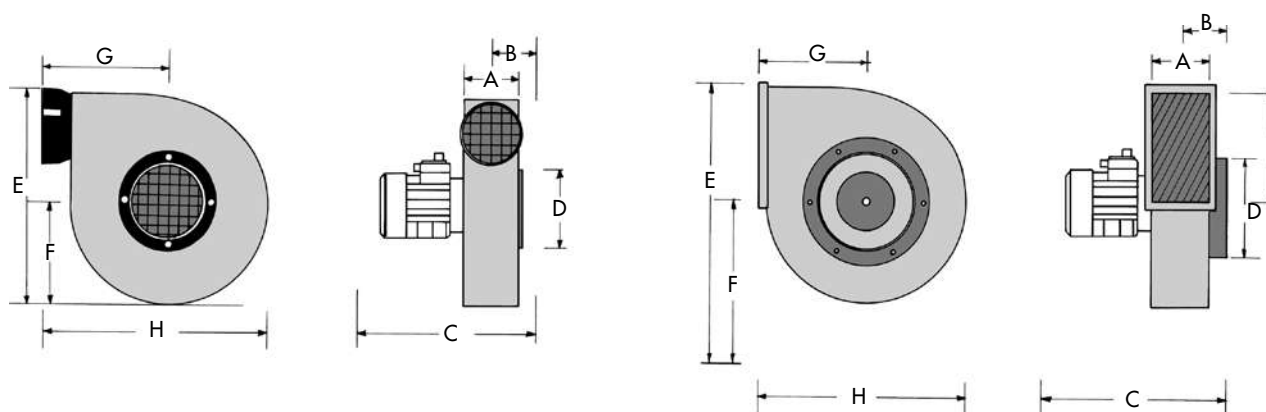


Prod. no:	A	B	C	D	E	F	G	H	I	LB
FUK-1800	Ø6.30	3.74	14.96	Ø6.30	16.93	7.87	9.65	17.91	-	36.1
FUK-2100	Ø6.30	3.74	14.96	Ø6.30	16.93	7.87	9.65	17.91	-	42.7
FUK-2101	Ø6.30	3.74	14.96	Ø6.30	16.93	7.87	9.65	17.91	-	43.1
FUK-3000	5.59	4.33	16.93	Ø9.84	22.05	9.84	9.06	20.28	8.46	52.8

Dimensions in inch.

Dimensions FUA

Fan without support. For direct mounting on LM-2, EA, KUA (1300-2101) and EF, EFO filters.



Prod. no:	A	B	C	D	E	F	G	H	I	LB
FUA-1300	Ø6.30	3.74	13.98	Ø6.30	16.93	7.87	9.65	17.52	-	27.7
FUA-1301	Ø6.30	3.74	13.98	Ø6.30	16.93	7.87	9.65	17.52	-	29.0
FUA-1800	Ø6.30	3.74	13.98	Ø6.30	16.93	7.87	9.65	17.52	-	29.5
FUA-2100	Ø6.30	3.74	13.98	Ø6.30	16.93	7.87	9.65	17.52	-	36.1
FUA-2101	Ø6.30	3.74	13.98	Ø6.30	16.93	7.87	9.65	17.52	-	36.5
FUA-3000	5.59	4.33	16.93	Ø9.84	22.05	9.84	9.06	20.28	8.46	52.8
FUA-4700	5.59	4.33	18.11	Ø9.84	28.74	11.81	10.24	23.23	11.22	70.4

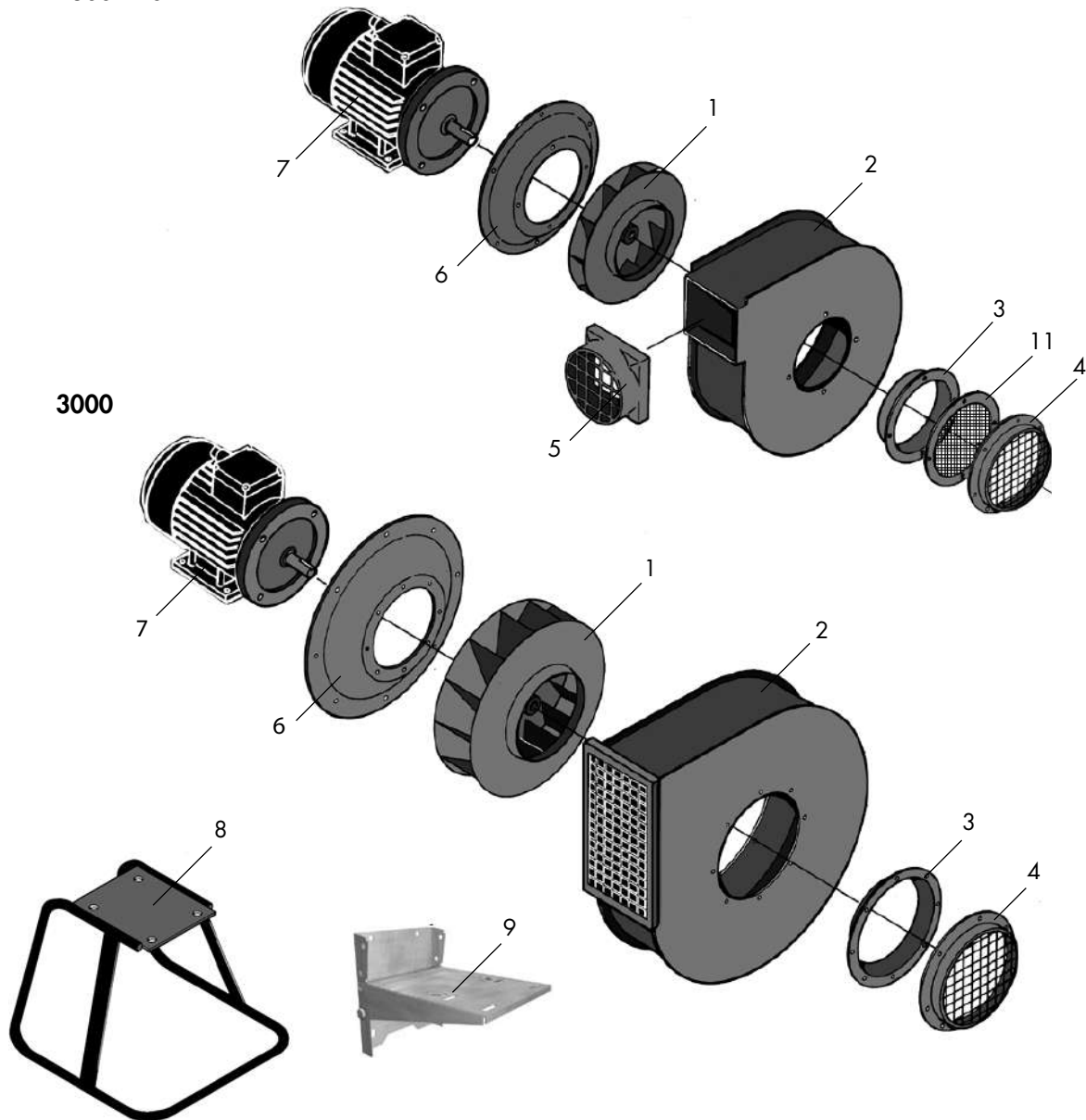
Dimensions in inches.

1300, 1301, 1800, 2100, 2101, 3000

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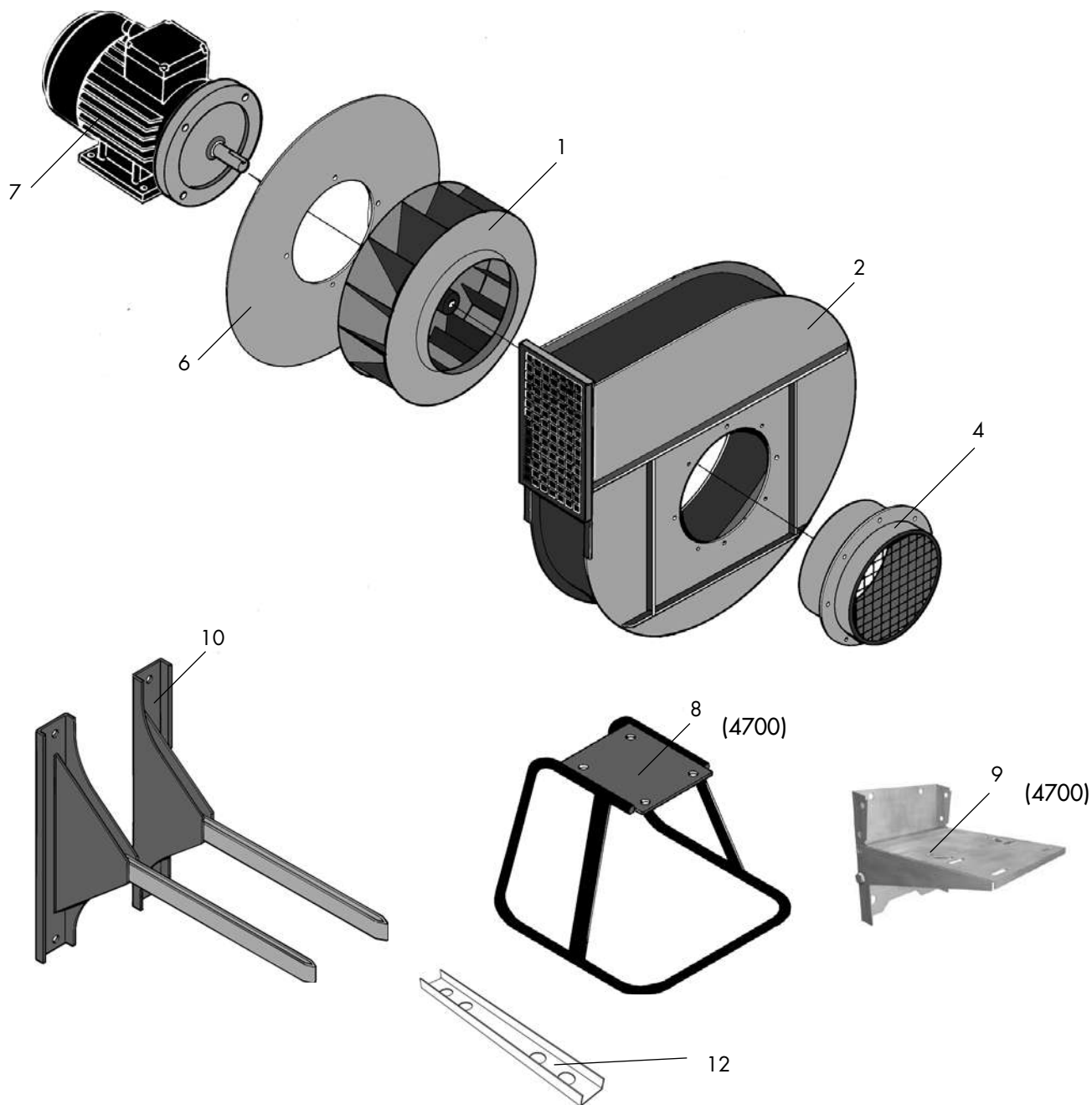
1300-2101

3000



4700

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PLYMOVENT®	SPARE PARTS LIST	BSAB No: T3.1 Ser. No:FA/FUA / RR Date: Apr-07 Replace:
FANS	© Copyright: All right reserved. All information within this printed matter may not be reproduced, handed over, copied, xeroxed or translated into another language, in any form or any means without written permission from PlymoVent AB. PlymoVent AB reserves the right to make design changes.	

Produkt No:	Decription
A All models	All models of Fans
B 1300	
C 1301	
D 1800	
E 2100	
F 2101	
G 3000	
H 4700	

Abbreviations

X = Order as required, state required length.

Pos	Art. No:	A	B	C	D	E	F	G	H	I	Description	Note
1	507426-DM	1	1								Impeller 1300 mod 3	
	507434-DM			1							Impeller 1800 mod 3	
	507442-DM				1	1					Impeller 2100 mod 3	
	507459-DM							1			Impeller 3000 mod 3	
	507467-DM								1		Impeller 4700 mod 3	
2	500 025	1	1	1	1	1					Fan housing 1300, 1800, 2100	
	507 046							1			Fan housing 3000	
	507 970								1	1	Fan housing 4700	
3	505 784	1	1	1							Inlet spigot 1300, 1800 fan	
	507 376				1	1					Inlet spigot 2100 fan	
	504266,1							1			Inlet spigot 3000 fan	
4	505 826	1	1	1	1	1					Spigot with mesh D=157mm	
	507 616								1		Spigot with mesh D=250mm 4700 fan	
5	505818-Z	1	1	1	1	1					Outlet spigot with mesh	
6	505635,1	1	1	1							Motor plate 1300, 1800	
	505644,1					1	1				Motor plate 2100	
	503326,1							1			Motor plate 3000	
	507608								1		Motor plate 4700	
7	936 724	1									Motor 3Ph, 0,37KW, 220-240/ 380-420V 50Hz	
	936 377		1								Motor 1Ph, 0,37kW 240V 50Hz	
	936 773			1							Motor 3Ph, 0,55KW, 220-240/380-420V 50Hz	
	936 807				1						Motor 3PH, 0,75KW, 220-240/ 380-420V 50Hz	
	936 369					1					Motor 1Ph, 0,75kW 240V 50Hz	
	936 864							1			Motor 3 PH, 1,1KW, 220-240/380-420V 50Hz	
	936 914								1		Motor 3PH, 2,2KW, 220-240/380-420V 50Hz	
8	507012-Z	1	1	1	1	1	1				FS-bracket for FS fans	
9	3420-1011	1	1	1	1	1	1				Mounting plate for FUK-1800-2100	
	3425-1011								1		Mounting plate for FUK-3000-4700	
10	7230-1011								1	1	FA-bracket for FA fans 4700	
11	517 482	1	1	1	1	1					Mesh, FUA 1300-2100	
12	508127-4								2	2	Fans/ Motor-"BAR" FA- /part	

When ordering spare parts please quote:

•Product No. (see label) • Batch No • Description • Part No • Quantity

For example: FUA-2100, 00040, impeller, 507442-DM, 1 pc

PLYMVENT®

(GB) EU Declaration of Conformity

We hereby declare that the equipment described below conforms to the relevant fundamental safety and health requirements of the appropriate EU Directives, both in its basic design and construction as well as in the version marketed by us. This declaration will cease to be valid if any modifications are made to the machine without our express approval.

Appropriate internal measures have been taken to ensure that series-production units conform at all times to the requirements of current EU Directives and relevant standards. The signatories are empowered to represent and act on behalf of the company management.

(D) EG Konformitätserklärung

Hiermit erklären wir, daß die nachfolgend bezeichnete Maschine aufgrund ihrer Konzipierung und Bauart sowie in der von uns in Verkehr gebrachten Ausführung den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der EG-Richtlinien entspricht. Bei einer nicht mit uns abgestimmten Änderung der Maschine verliert diese Erklärung ihre Gültigkeit.

Es ist durch interne Maßnahmen sichergestellt, daß die Seriengeräte immer den Anforderungen der aktuellen EG-Richtlinien und den angewandten Normen entsprechen. Die Unterzeichnenden handeln im Auftrag und mit Vollmacht der Geschäftsführung.

(F) Déclaration de conformité européenne

Par la présente, nous déclarons que la machine ci-après répond, de par sa conception et sa construction ainsi que de par le modèle que nous avons mis sur le marché, aux exigences de sécurité et d'hygiène en vigueur de la directive européenne. En cas de modification de la machine effectuée sans notre accord, cette déclaration sera caduque.

La conformité permanente des appareils de série avec les exigences consignées dans les directives actuelles de la CE et avec les normes appliquées est garantie par des mesures internes. Les soussignés agissent par ordre et avec les pleins pouvoirs de la Direction commerciale.

(I) Dichiarazione di conformità CE

Dichiariamo con la presente, che la macchina qui di seguito indicata, in base alla sua concezione e al tipo di costruzione, e nella versione da noi introdotta sul mercato, è conforme ai relativi requisiti fondamentali di sicurezza e di sanità delle direttive della CE. In caso di modifica apportate alla macchina senza il nostro accordo, questa dichiarazione perde la sua validità.

Mediante accorgimenti interni, è stato assicurato che gli apparecchi di serie siano sempre conformi ai requisiti delle attuali direttive CE e alle norme applicate. I firmatari ascrivono su incarico e con i poteri dell'Amministrazione.

(NL) EU-conformiteitsverklaring

Hiermee verklaren wij dat de hierna vermelde machine op grond van haar concipiëring en constructie en in de door ons in omloop gebrachte uitvoering beantwoordt aan de desbetreffende veiligheids- en gezondheidsvoorschriften van de EG-richtlijnen. Na een wijziging aan de machine die niet in overleg met ons wordt uitgevoerd, verliest deze verklaring haar geldigheid.

Door interne maatregelen is er voor gezorgd dat de standaard-apparaten altijd beantwoorden aan de eisen van de actuele richtlijnen en de toegepaste normen. De ondergetekenden handelen in opdracht en op volmacht van de bedrijfsleiding.

(E) Declaración de conformidad de la Unión Europea

Por la presente declaramos los abajo firmantes que la máquina designada a continuación cumple, tanto por su concepción y clase de construcción como por la ejecución que hemos puesto en circulación, las normas fundamentales de seguridad y protección de la salud formuladas en las directivas comunitarias correspondientes. La presente declaración pierde su validez en caso de alteraciones en la máquina efectuadas sin nuestro consentimiento expreso. Mediante una serie de medidas internas, queda asegurado que los aparatos y equipos de serie cumplan siempre las exigencias formuladas en las directivas comunitarias actuales y en las normas correspondientes a aplicar. Los firmantes actúan autorizados y con poder otorgado por la dirección de la empresa.

(P) CE-Declaração de conformidade

Nós declaramos pelo presente instrumento que a máquina abaixo indicada corresponde, na sua concepção, fabricação bem como no tipo por nós comercializado, às exigências básicas de segurança e de saúde da directiva da CE. Se houver uma modificação na máquina sem o nosso consentimento prévio, a presente declaração perderá a sua validade.

Assegura-se, através de medidas internas da empresa, que os aparelhos de série correspondem sempre às exigências das directivas actualizadas da CE e às normas aplicadas. Os abaixo assinados, actuam e representam através de procuração a gerência.

(DK) Eu-overensstemmelseserklæring

Hermed erklærer vi at nedenstående maskine på grund af sin udformning og konstruktion i den udførelse, i hvilken den sælges af os, overholder EU-direktivernes relevante, grundlæggende sikkerheds- og sundhedsmæssige krav.

Hvis maskinen ændres uden aftale med os, mister denne attest sin gyldighed.

Interne forholdsregler sikrer, at serieapparaterne altid opfylder kravene fra de aktuelle EU-direktiver og de standarder, der blev anvendt: Underskriverne handler på forretningsledelsens vegne og med dennes fuldmagt.

(N) EU-KONFORMITETSERKLÆRING

Vi erklærer herved at maskinen som er beskrevet nedenfor, i konstruksjon og utførelse tilsvarer markedsførte modell og er i overensstemmelse med de gjeldende og grunnleggende sikkerhets- og helsekrav i EU-direktivet. Denne erklæring mister sin gyldighet dersom maskinen endres uten etter avtale med oss.

Gjennom interne tiltak er det sikert at serieproduserte maskiner alltid er i overensstemmelse med kravene i de aktuelle EU-direktiver og anvendte normer. Undertegnede handler etter oppdrag og med fullmakt fra ledelsen.

(S) Försäkran om överensstämmelse

Härmed försäkras vi att den enligt nedan angivna maskinen till konstruktion, byggnadssätt och i av oss levererat utförande motsvarar tillämpliga baskrav beträffande säkerhet och hälsa enligt EU-direktiven.

Vid ändringar på maskinen som icke avtalats med oss upphör denna försäkran att gälla.

Vi har genom interna åtgärder säkerställt, att serietillverkade maskiner alltid motsvarar aktuella EU-direktiv och tillämpade normer. De undertecknade agerar på uppdrag av och med fullmakt av företagsledningen.

(FIN) EU-vaatimustenmukaisuusvakuutus

Me vakuutamme, että alla mainittu tuote vastaa suunnittelultaan ja rakenteeltaan sekä valmistustavaltaan EU-direktiivien asianomaisia turvallisuus- ja terveysvaatimuksia. Jos koneeseen tehdään muutoksia, joista ei ole sovittu kanssamme, tämä vakuutus ei ole enää voimassa.

Sisäisin toimenpitein varmistetaan, että sarjatuotantolaitteet vastaavat aina voimassaolevien EU-direktiivien vaatimuksia ja sovellettuja normeja. Allekirjoittaneet toimivat yrityksen johdon toimeksiannosta ja valtuuttamina.

(PL) EU Deklaracja zgodności

Niniejszym deklarujemy, że opisane niżej urządzenia spełniają odpowiednie, zasadnicze wymagania dotyczące bezpieczeństwa i zdrowia obowiązujących Dyrektyw UE, zarówno w swoim podstawowym projekcie i konstrukcji, jak i w wersji sprzedawanej przez naszą firmę. Niniejsza deklaracja traci swą ważność w przypadku jakichkolwiek modyfikacji urządzenia wykonanych bez naszej wyraźnej zgody.

Podjęto odpowiednie środki wewnątrzzakładowe w celu zapewnienia stałej zgodności urządzeń produkowanych seryjnie z wymaganiami aktualnych Dyrektyw UE i odpowiednich norm. Podpisujący deklarację są upoważnieni do reprezentowania i podejmowania działań w imieniu kierownictwa firmy.

PRODUCT: FAN**MODEL: FS, FUK, FUA, FH,
FA, FD, BSFM, TEV****BATCH NO: 04401--XXXXX****EU-DIRECTIVES:****98/37/EC, 98/79/EC**

EN 60204-1

EN 292-1

EN 292-2

EN 294

89/336/EEC, 92/31/EEC

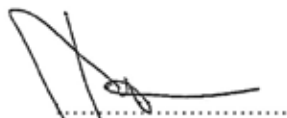
EN 61000-6-4

EN 61000-6-2

73/23/EEC, 93/68/EEC

EN 60204-1

PlymoVent AB
Box 527
921 28 Lycksele
Sweden


Cees Knijn
COO
Tony Norgren
Plant manager

Product manual

Motorized hose reels

MHR

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PLYMOVENT®

Thank you for buying this PlymoVent product. Before you take it out of its box and start to use it, please read this product manual and follow the instructions carefully.

THIS MANUAL SHOULD BE HANDED OVER AND KEPT
BY THE SERVICE DEPARTMENT AFTER THE INSTALLATION!



PLYMOVENT®	TECHNICAL DESCRIPTION	BSAB no: T3.1 Ser .no: MHR Date: Oct.-99 Replace:
MHR-650, MHR-850, MHR-1050	© Copyright 2008: All rights reserved. All information within this printed matter may not be reproduced, handed over, copied, xeroxed or translated into another language in any form or means without written permission from Plymovent AB. Plymovent AB reserves the right to make design changes.	

Motorized hose reel

TO ACHIEVE OPTIMUM PERFORMANCE AND SAFETY, PLEASE READ THIS MANUAL CAREFULLY BEFORE USING THE PRODUCT!

Exhaust reels from PlymoVent are controlling exhaust gas fumes and prevent extraction hoses from trailing over the workshop floor. The exhaust reels take up a small space and can be mounted to the ceiling or on a wall. A flexible and economic solution for work-shops with fixed working areas. The power operated exhaust reel is an excellent solution at great ceiling heights and can be mounted high enough to allow a crane passing below it. The reels are available for different hose sizes and can often service more than one work place.

Advantages

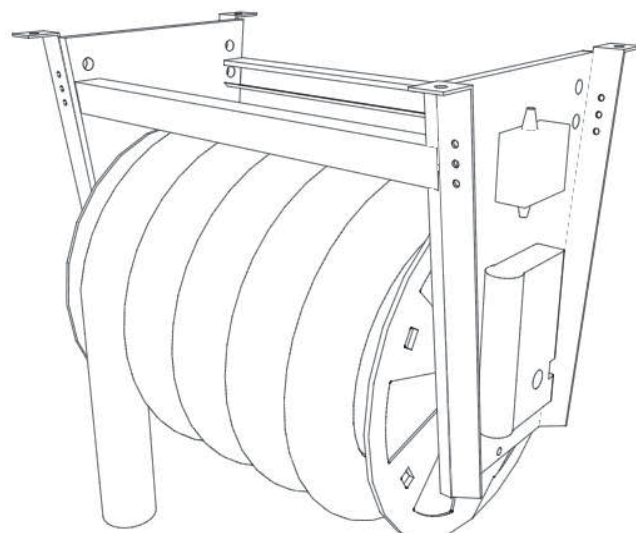
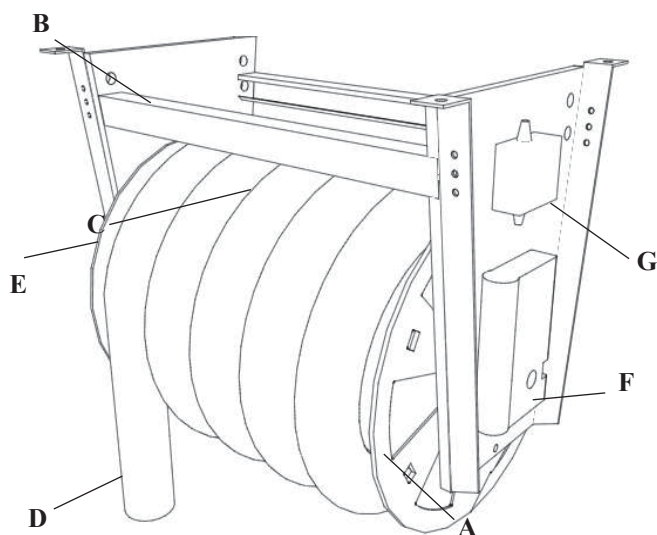
- No extraction hoses trailing over the workshop floor.
- Needs minimum space – handles large working area.
- Very long life span under normal running conditions.
- Great energy savings by accessories for automatic damper control.
- A limit switch will reel the hose out or in to a pre-set position. Quick and easy.

Delivery

The motorized hose reel is delivered complete with a ceiling or wall mounting bracket and a motor with limit switches. There are two alternatives; either with a fan (FUA-1301 or FUA-2101) or with Ø 160 mm (6") stps for connection with a central exhaust system. Hose and nozzle must be ordered separately.

NOTE: PRODUCT LIABILITY BY PLYMOVENT IS ONLY APPLICABLE IF THE EQUIPMENT HAS NOT BEEN ALTERED OR ADDED TO, OTHER THAN WITH THE WRITTEN CONSENT OF PLYMOVENT AB.

Construction



Note!
Hose and nozzle must be ordered separately.

Motorized hose reel:

With or without fan.

- Zinc coated drum with attached end plates of lacquered metal sheet.
- Stand made of profiled, zinc plated metal sheet.
- Hose guide, which controls the hose in its first revolution.
- Hose. 7.5, 10 or 12.5 m (25', 33', 41') flexible hose in diameters Ø 100, 125, 150 mm (4", 5", 6"). Temperature resistant from 150 to 650°C continuously.
Note! hose must be ordered separately.
- Adapter Ø 160 mm (6") to fan or central exhaust system.
- Motor.
- Control box

The motor is not designed for constant operation. If used for constant operation, built in thermal overload relay will release. Operation will automatically restart when motor temperature decrease.

Technical data/Safety Information

Technical data:

There are three different motors and three sizes of the hose reels available. All with or without fan. The maximum length of the hose depends on the weight as well as the installation. Below are some examples;

	Max hose length (lifting cap.see table below)	
	MHR-xxx 120/60	MHR-xxx 230/50 and 220/60
Hose EH-150; Weight 1,4 kg/m (0,0782 lbs/in). Rubber nozzle REGD-150-160; Weight 2,3 kg (5 lbs).	9 m/29,5 feet	12,5 m/41 feet
Hose EH-150; Weight 1,4 kg/m (0,0782 lbs/in). Grabber GN-150-160; Weight 3,2 kg (7 lbs).	8,4 m/27,5 feet	12,5 m/41 feet
Hose ET-150; Weight 2,2 kg/m (0,12 lbs/in). Metal nozzle REGD-150-160; Weight 2,5 kg (5,5 lbs).	5,7 m/18,7 feet	9,3 m/30 feet

Technical data motorized hose reel

(Complete with ceiling/wall mounting and motor. Without hose and nozzle).

Prod. no.	Power supply (V)	Frequ-ency (Hz)	Motor output (kW)	Motor current (A)	Revs/min	Weight* MHR (kg/lbs)	Weight* MHR-xx (kg/lbs)	Lifting capacity kg/lbs
MHR-650 230	50	0,44	2	12	46/101	59/130**	23/50	
MHR-850 230	50	0,44	2	12	51/112	67/147**	23/50	
MHR-1050	230	50	0,44	2	12	56/123	72/158***	23/50
MHR-650	120	60	0,32	2,8	14	46/101		15/33
MHR-850	120	60	0,32	2,8	14	51/112		15/33
MHR-1050	120	60	0,32	2,8	14	56/123		15/33
MHR-650	220	60	0,32	1,5	6	46/101		23/50
MHR-850	220	60	0,32	1,5	6	51/112		23/50
MHR-1050	220	60	0,32	1,5	6	56/123		23/50

*Without hose and nozzle

**With FUA-1300

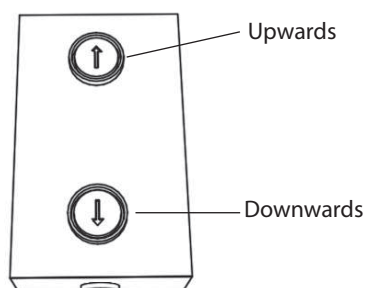
***With FUA-2100

Safety Information:

To ensure maximum safety exhaust reels operated by control panel are constructed so that a button for unrolling and rolling up of the hose has to be depressed until required position is reached.

BE CAREFUL WHEN OPERATING THE HOSE REEL SO AS TO AVOID DAMAGE TO PERSONS AND PROPERTY!

Operation of hose reels via wall mounted control panel:



Pressure Loss Calculation

Pressure Loss Calculation

The fall of pressure in a air duct system or in a hose is mainly determined by the air velocity in that system. The higher the velocity is, the higher the pressure loss will be. And the higher the pressure loss is, the less air the fan will extract. The diagram 2 Pressure loss chart for fans is pointing out a suitable fan regarding the relationship between airflow (m^3/h) and pressure loss (Pa). In a ventilation system with many extraction devices and long suction ducts the pressure loss can be kept down by increasing the size of the ducting and you will achieve an even velocity in the whole system. See Diagram 3 and 4.

Recommended values Airflow:

Cars $360 \text{ m}^3/\text{h}$. (211 cfm.)

Lorries $1080 \text{ m}^3/\text{h}$. (635 cfm.)

Air velocity in ducting: 10-15 m/s.

Hose dimension:

Ø75 mm (3") at airflow < $270 \text{ m}^3/\text{h}$ (159 cfm.)

Ø100 mm (4") at airflow < $540 \text{ m}^3/\text{h}$ (318 cfm.)

Ø125 mm (5") at airflow < $810 \text{ m}^3/\text{h}$ (476 cfm.)

Ø150 mm (6") at airflow < $1080 \text{ m}^3/\text{h}$ (635 cfm.)

Pressure loss in exhaust reels

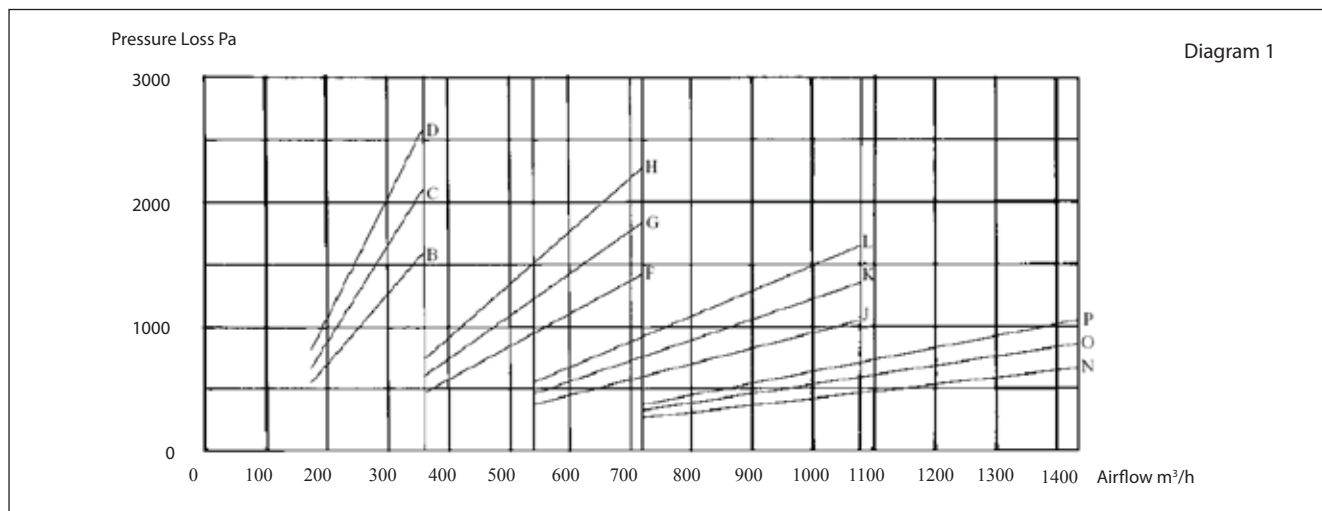


Diagram 1 shows the pressure loss in the hose reels at different airflows. Read the diagram at the recommended airflows;

Cars $360 \text{ m}^3/\text{h}$. (211 cfm.)

Lorries $1080 \text{ m}^3/\text{h}$. (635 cfm.)

The curves show these combinations of hose reel/hose diameter/hose length*:

B. Ø 75 mm,(3") length 7.5 m.(24,7 ft)

C. Ø 75 mm,(3") length 10 m. (32,8 ft)

D. Ø 75 mm,(3") length 12.5 m. (41,1 ft)

F. Ø 100 mm,(4") length 7.5 m. (24,7 ft)

G. Ø 100 mm,(4") length 10 m. (32,8 ft)

H. Ø 100 mm,(4") length 12.5 m. (41,1 ft)

J. Ø 125 mm,(5") length 7.5 m. (24,8 ft)

K. Ø 125 mm,(5") length 10 m. (32,8 ft)

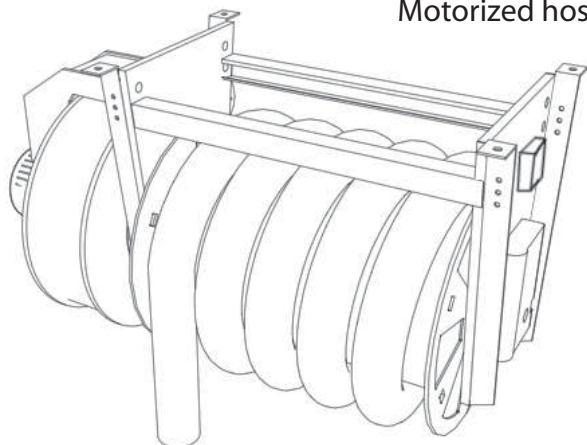
L. Ø 125 mm,(5") length 12.5 m. (41,1 ft)

N. Ø 150 mm,(6") length 7.5 m. (24,7 ft)

O. Ø 150 mm,(6") length 10 m. (32,8 ft)

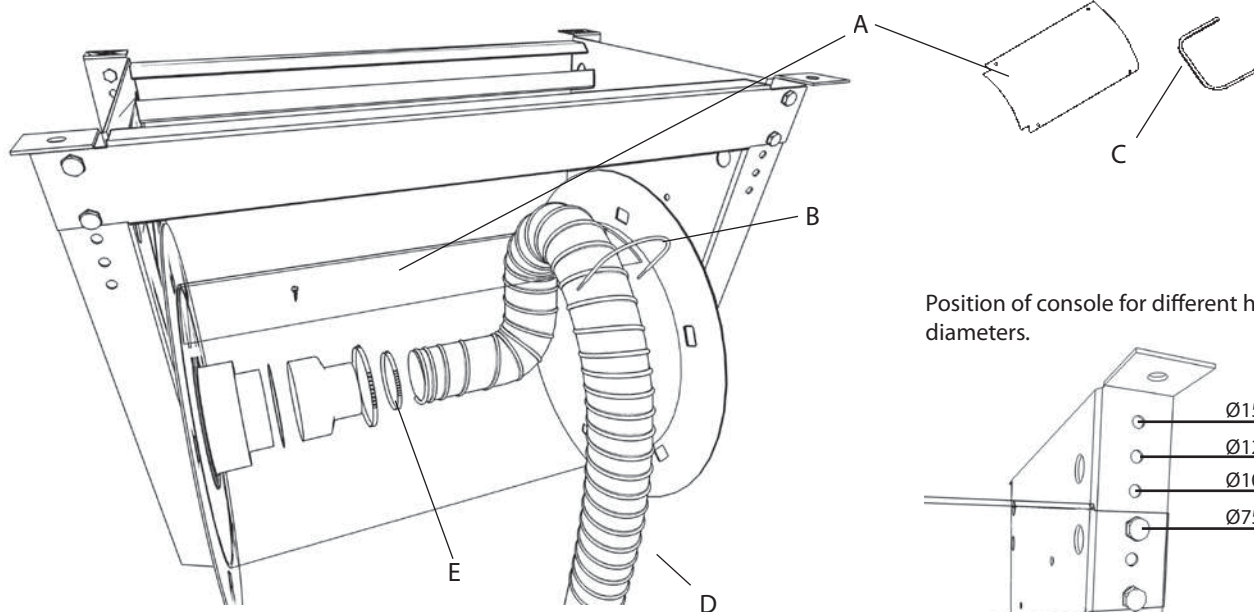
P. Ø 150 mm,(6") length 12.5 m.(41,1 ft)

Motorized hose reel



Assembly the hose

1. Dismantle drum lid A
2. Mount MAP-kit see picture below
3. Mount hose to the socket inside the drum using clamp E.
4. Bend hose into a natural soft curve and fasten it using clamp B.
5. Re-mount the drum lid A.
6. Mount the edge protection C at the opening of the drum where the hose protrudes.
7. Start the motor, coil up the hose and adjust the limit switches, See instructions on page 15

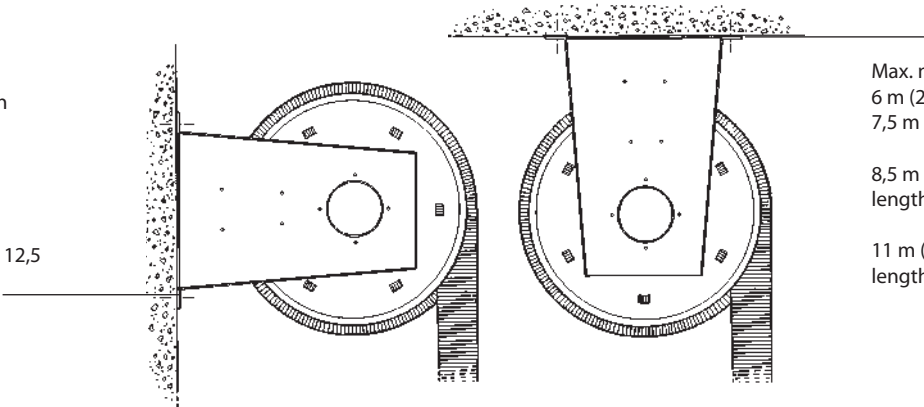


Mounting

Max. mounting height
5,5 m (18'ft) for hose length
7,5 m (24ft).

8 m (26ft) for hose length
10 m (33ft).

10,5 m (34ft) for hose length 12,5
m (41ft)

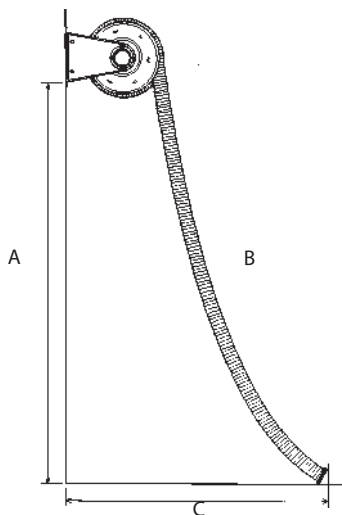


Max. mounting height
6 m (20ft for hose length
7,5 m (25ft).

8,5 m (28ft) for hose length
10 m (34ft).

11 m (36ft) for hose length 12,5 m (41ft).

Reach and mounting height



A=Mounting height B=Hose lenght

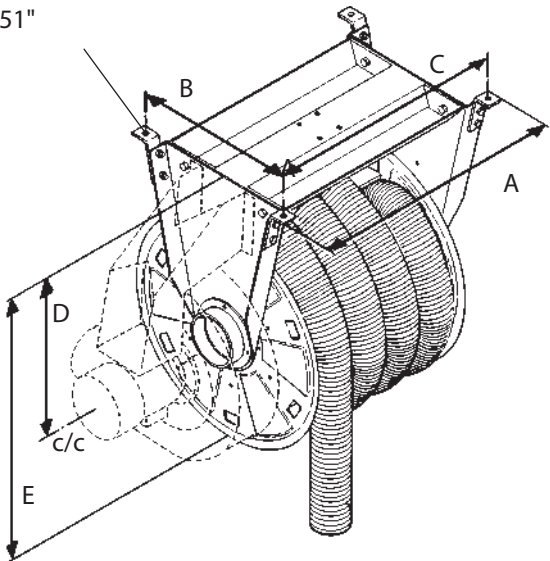
C=Max. reach

m/feet						
A	B	C	B	C	B	C
3/9,8	7,5/24,7	6,2/20,4				
3,5/11,5	7,5	5,9/19,4	10/32,9	8,5/28		
4/13,1	7,5	5,5/18	10	8,3/27,3		
4,5/14,8	7,5	5,2/17,1	10	8,0/26,3		
5/16,4	7,5	4,7/15,5	10	7,7/25,3	12,5/41,1	10,6/34,9
5,5/18			10	7,4/24,3	12,5	10,3/33,9
6/19,7					12,5	10,0/32,9
6,5/21,4					12,5	9,7/31,9
7/23					12,5	9,4/30,9

Measures

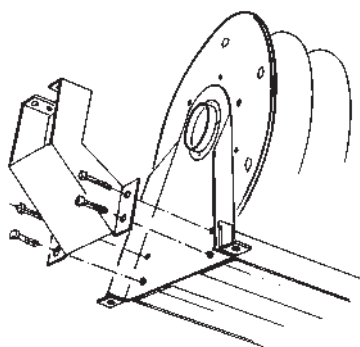
	MHR-650	MHR-850	MHR-1050
	mm/inch	mm/inch	mm/inch
A	830/32,7	1030/40,5	1230/48,4
B	500/19,7	500/19,7	500/19,7
C	774/30,5	974/38,3	1174/46,2
D	490/19,3	490/19,3	490/19,3
E	790/31,1	790/31,1	790/31,1

Ø 13mm 0.51"

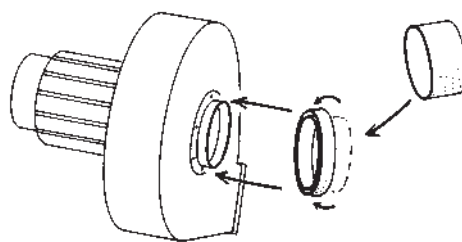


Mounting of fan

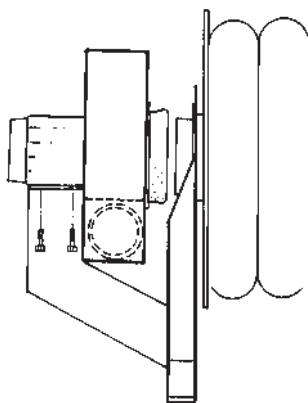
The motorized hose reel is delivered complete including ceiling or wall mounting bracket.
Either for connection to a central exhaust system or fitted with a fan (see 1-4).
First mount the fan with the reel upside down on the floor and then mount the complete reel to its intended position.



1. Attach bracket to reel.



2. Fit rubber collar folded to socket.



3. Screw fan to bracket.



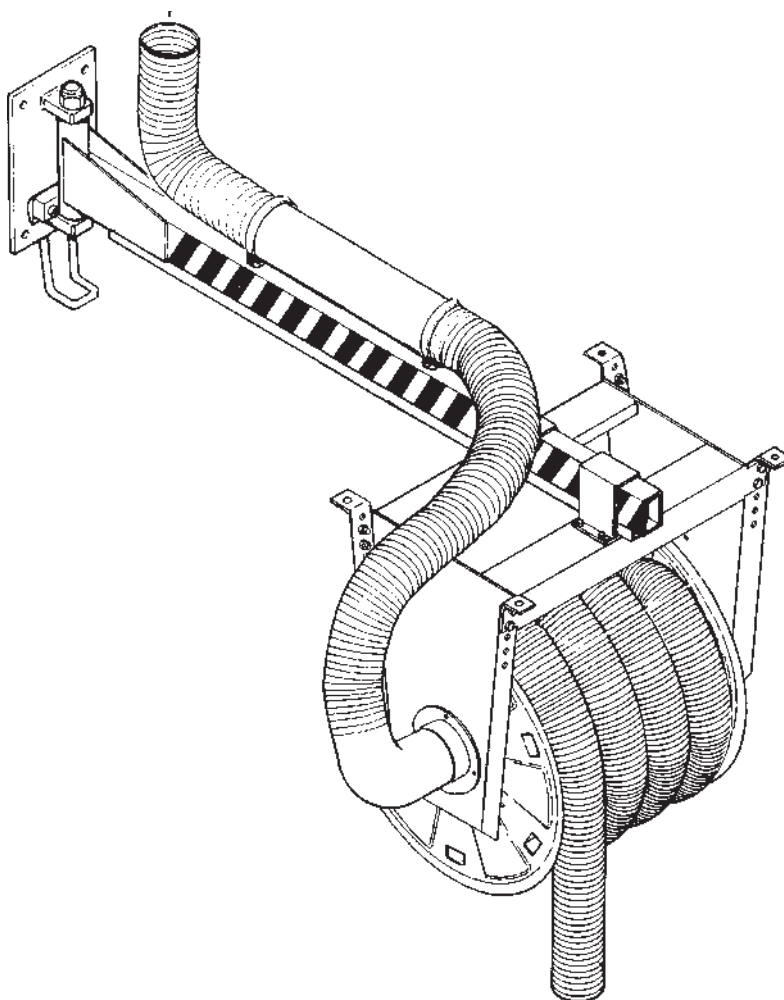
4. Unfold rubber collar over the reel's socket.

Mounting to different supporting structures

When the reel is mounted to rigid structures like iron beam, concrete etc. then use normally dimensioned attachment.
When mounted to porous or otherwise doubtful materials like hollow brick, lightweight concrete, plaster etc. do consult an expert.

Exhaust reel mounted on swinging arm

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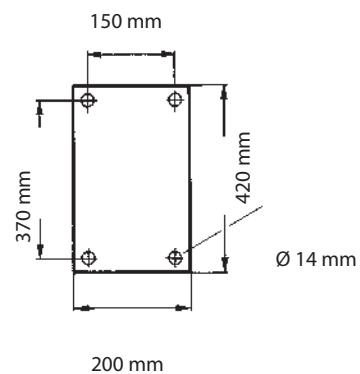


Prod. no.	Reach mm (see page 9)	Max stretching/bolt	Torque demands/bolt
EB-3.5	3500	650	1950
EB-4.5	4500	900	2700

Mounting

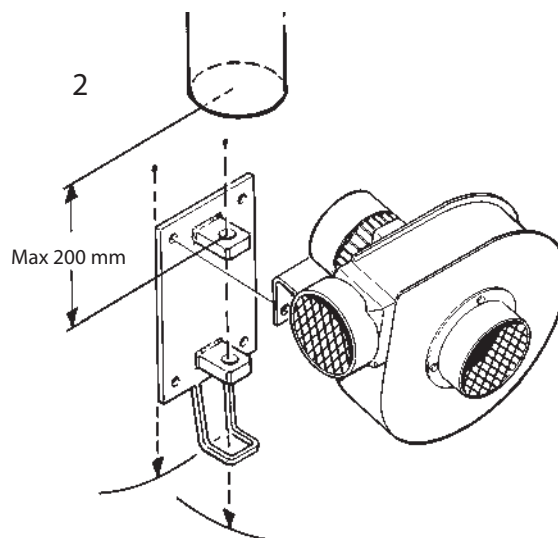
Mounting bracket EBE-3.5, EBE-4.5

150 mm = 5,90 inch
200 mm = 7,87 inch
270 mm = 10,62 inch
320 mm = 12,59 inch
370 mm = 14,56 inch
420 mm = 16,53 inch
 $\phi 14 \text{ mm} = \phi 9/16$

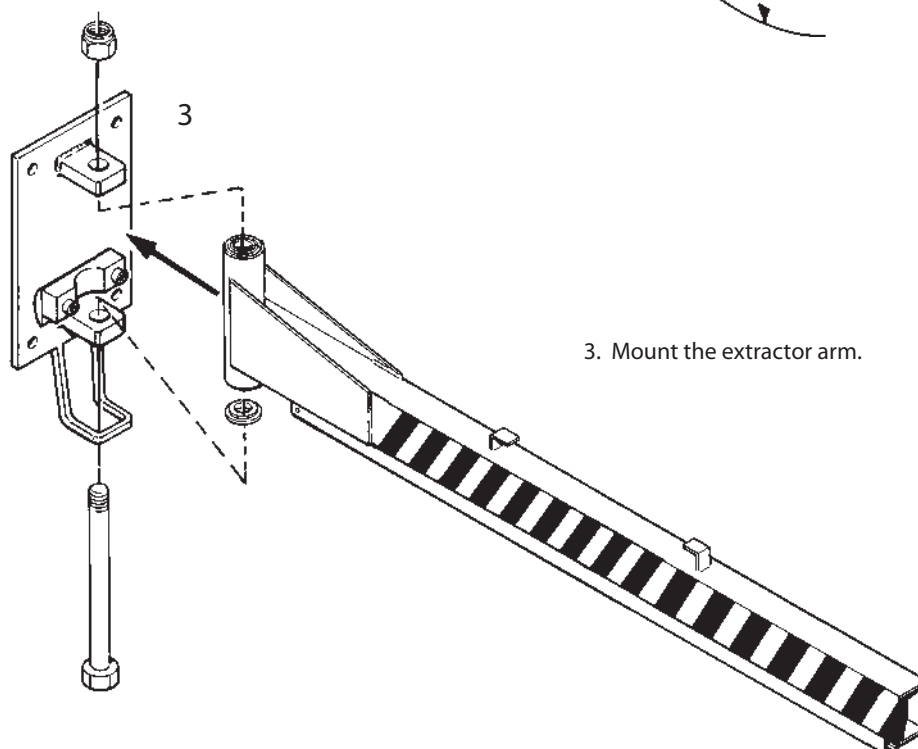


1. Bolt mounting bracket to wall.

2. Mount the fan (if included).

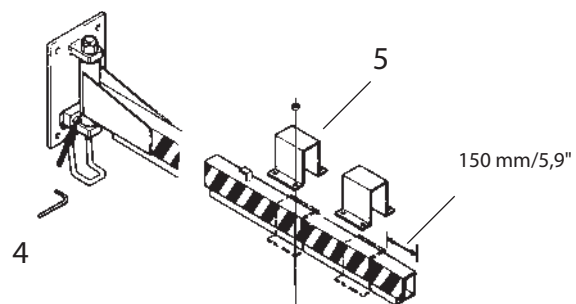


3. Mount the extractor arm.

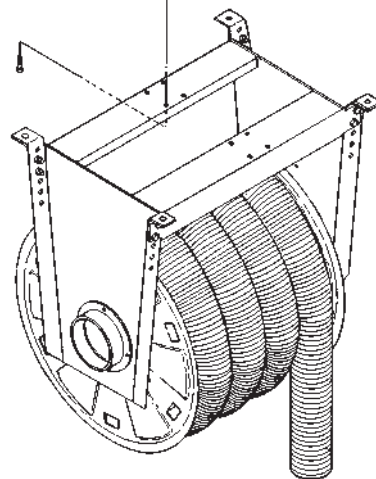


Mounting

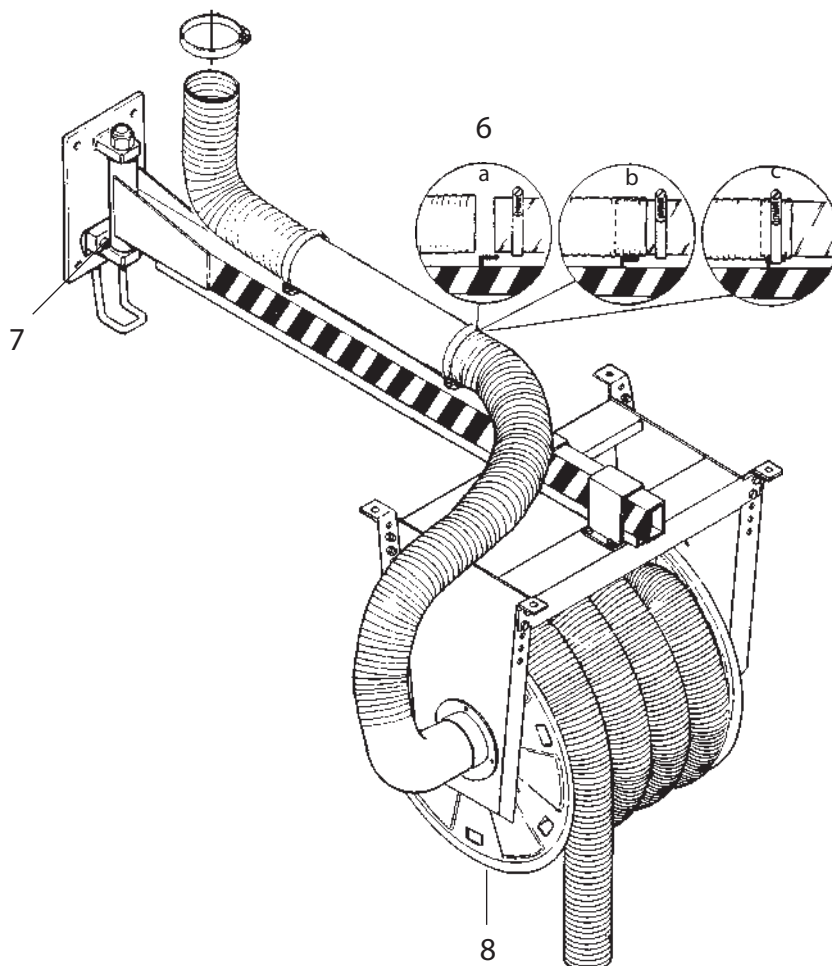
4. Adjust friction until arm remains in one position.



5. Mount hose reel to extractor arm.



6. Mount spiro-tubing and hose on the extractor arm.



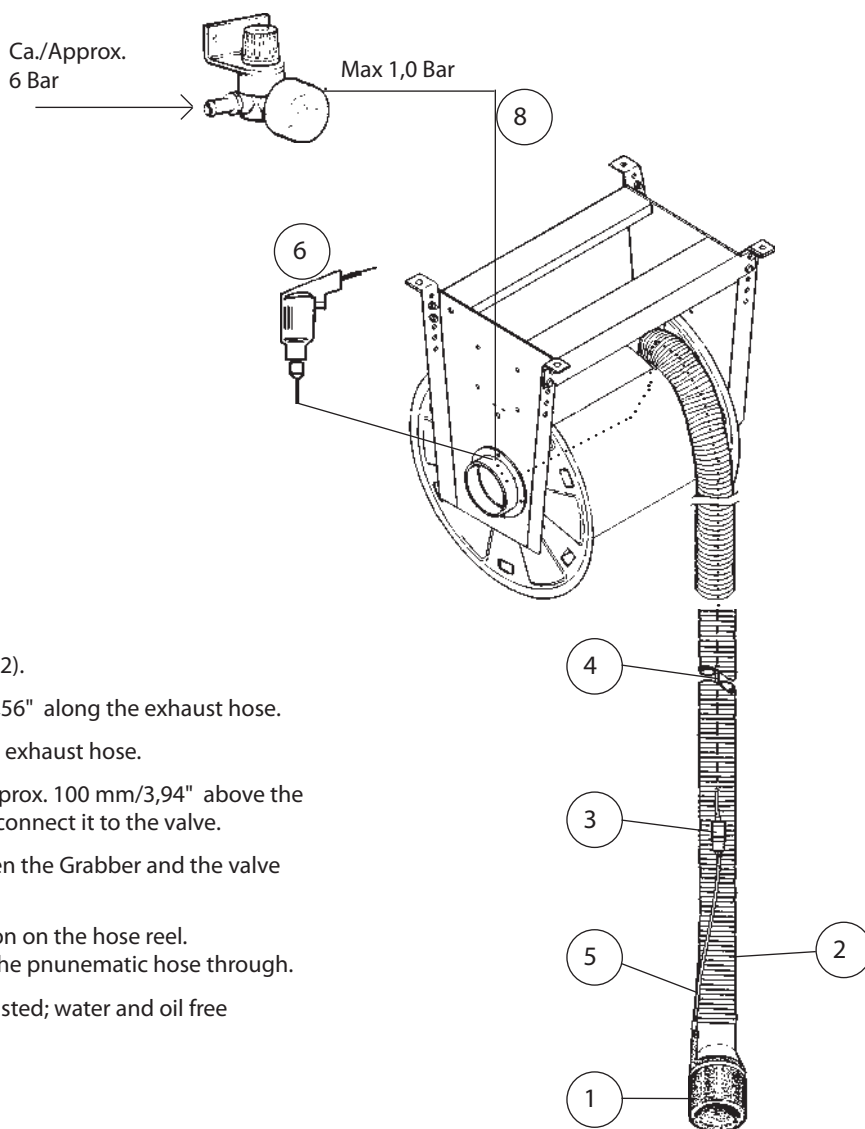
7. Set required friction.

8. Mount ducting bend to hose reel.

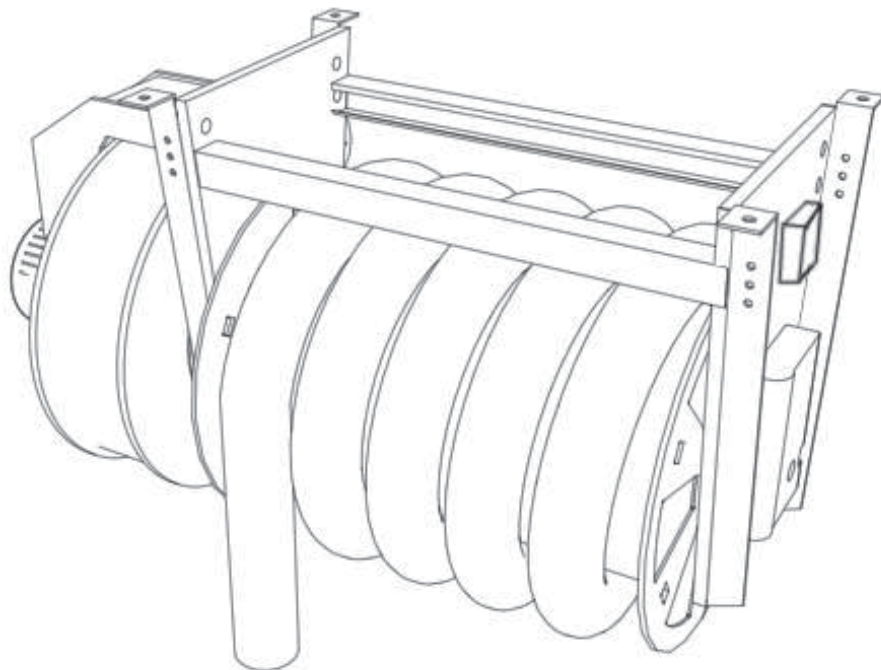
8

Grabber nozzle

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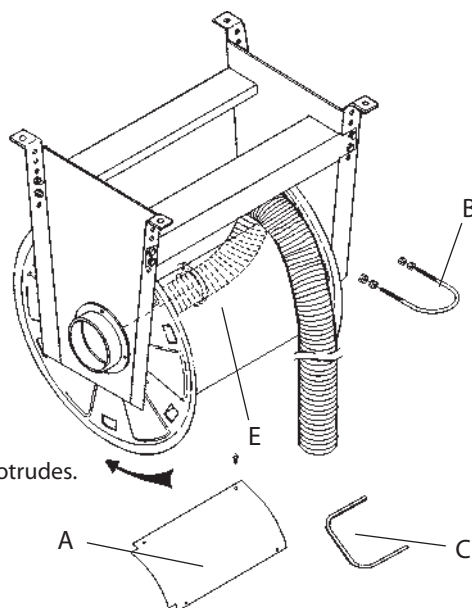


1. Mount Grabber (1) to exhaust hose (2).
2. Mount valve (3) approx. 700 mm/27,56" along the exhaust hose.
3. Pull pneumatic hose (4) through the exhaust hose.
4. Make a hole on the exhaust hose approx. 100 mm/3,94" above the valve, pull out pneumatic hose and connect it to the valve.
5. Connect pneumatic hose (5) between the Grabber and the valve (Ø 8 mm/5/16").
6. Drill a hole along the duct connection on the hose reel. Mount a rubber grommet and pull the pneumatic hose through.
7. The compressed air (8) must be adjusted; water and oil free at max. pressure 1.0 bar.



Replacing the exhaust hose

1. Uncoil hose completely and lock reel in its most extended position.
2. Dismantle edge list C, drum lid A and clamp B.
3. Loosen hose clip E on the connecting socket and remove the old hose.
4. Attach new hose, bend it into a natural soft curve and fasten it using clamp B.
5. Re-mount the drum lid A.
6. Re-Mount the edge protection C at the opening of the drum where the hose protrudes.
7. The reel is now ready for use.



Endposition switch adjustment for motorized hose reels

1. Check that the motor rotate correct in relation to the control switches (fig. 3). If not, shift the brown and black cable inside the control box.
2. Adjustment of the limit positions are made by the two set screws on the underside of the motor (4). The set screws are marked "1" and "2". N.B. The adjustment/direction of rotation for the set screws have opposite directions
3. Adjustment of the upper limit position, "reeled hose". Start the motor by pressing the control switch "up". Turn at the same time set screw "2" using an allen key until the motor reaches the desired position. + (plus) is the same as ""up".
4. Adjustment of the lower limit position, "drawn out hose". The same as above but adjust with set screw "1". + (plus) is the same as "down".

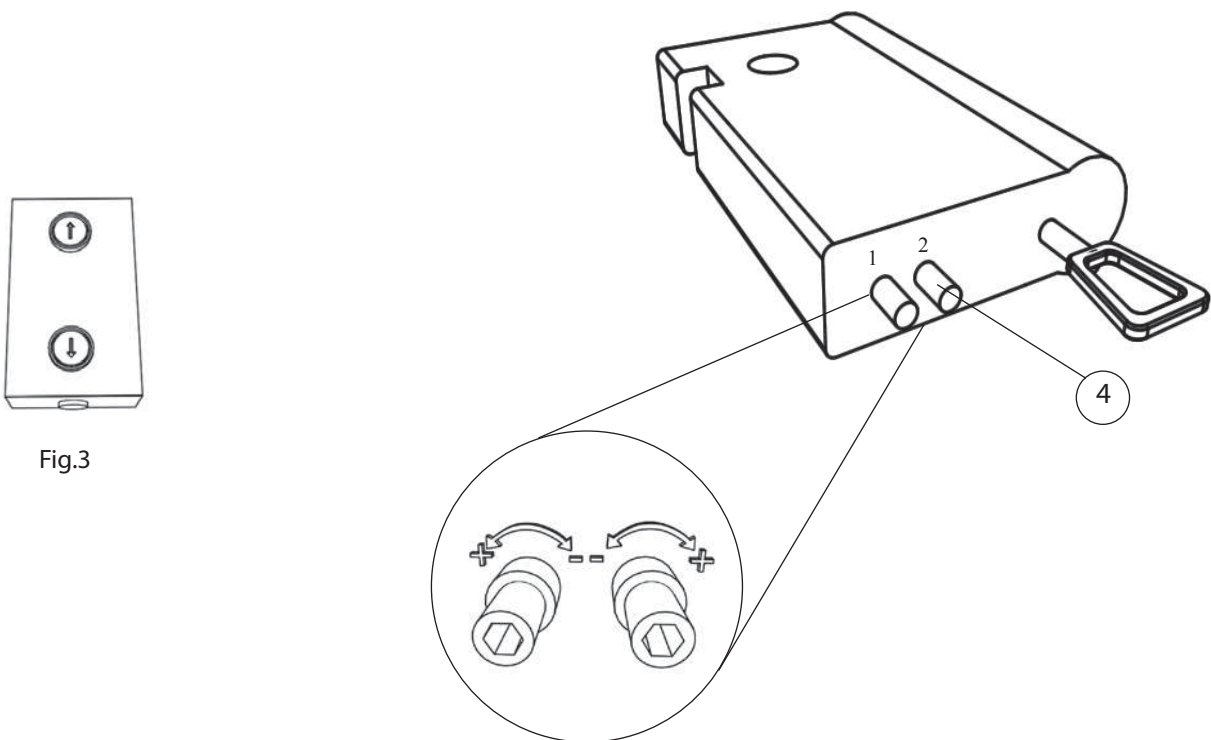
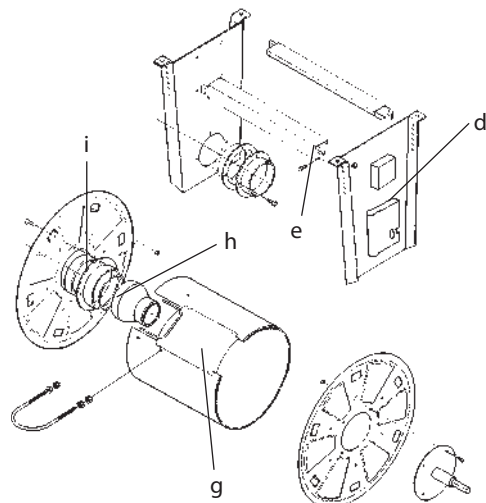


Fig.3

Exchanging the plastic bearings

This work is best done with the reel dismantled and standing on the floor.

1. Loosen the leg on the side of the motor (d) by undoing the bolts on the beam (e).
2. Remove drum from the reel.
3. Unscrew drum lid (g). Dismantle the connecting socket (h) and change the plastic bearing.
4. Reassemble in reverse order.



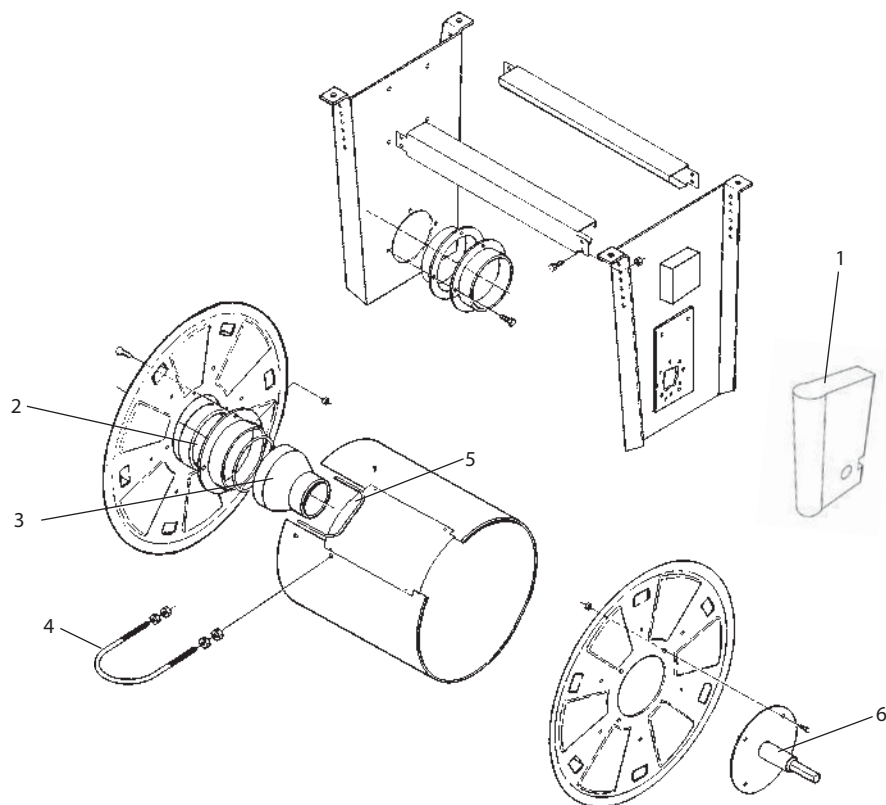
PLYMOVENT®

SPARE PART DRAWING

BSAB no:
Ser .no: MHR
Date: Mar-96
Replace:

MHR-650, MHR-850, MHR-1050

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	SPARE PARTS LIST	BSAB No: T3.1 Ser. No: MHR / RR Date: Aug -98 Replace:
MHR	© Copyright: All right reserved. All information within this printed matter may not be reproduced, handed over, copied, xeroxed or translated into another language, in any form or any means without written permission from PlymoVent AB. PlymoVent AB reserves the right to make design changes.	

	Produkt No:	Decription
A	All models	All models of MHR
B	MHR-650	
C	MHR-850	
D	MHR-850	
E		
F		
G		

Abbreviations

X = Order as required, state required length.

Pos	Art. No:	A	B	C	D	E	F	G	Description	Note
1	937 219	1							Geared motor compl. 220V 50Hz 12rpm	
	937 227	1							Geared motor compl. 120V 60Hz 14rpm	
	937 235	1							Geared motor compl. 220V 60Hz 6rpm	
2	4-783	1							SER/MER BEARING + 159 /PART	
3	524 264	1							Connecting socket	
4	962 126	1							Clamp 75	
	962 118	1							Clamp 100	
	962 134	1							Clamp 125	
	962 159	1							Clamp 150	
5	972 059	X							Edge cover	
6	524 660	1							Axle	
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
20										

When ordering spare parts please quote:

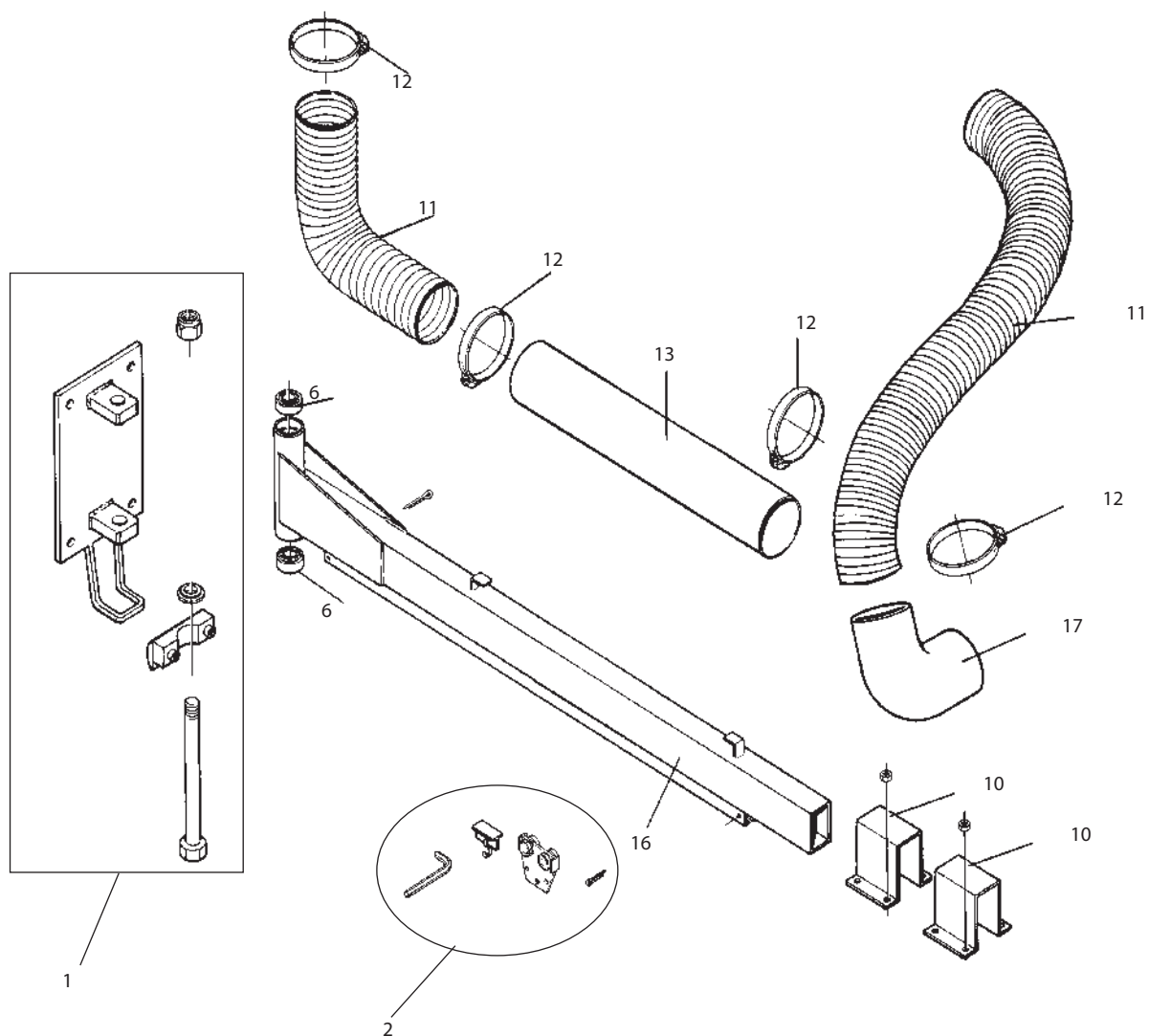
•Product No. (see label) • Batch No • Description • Part No • Quantity

For example:

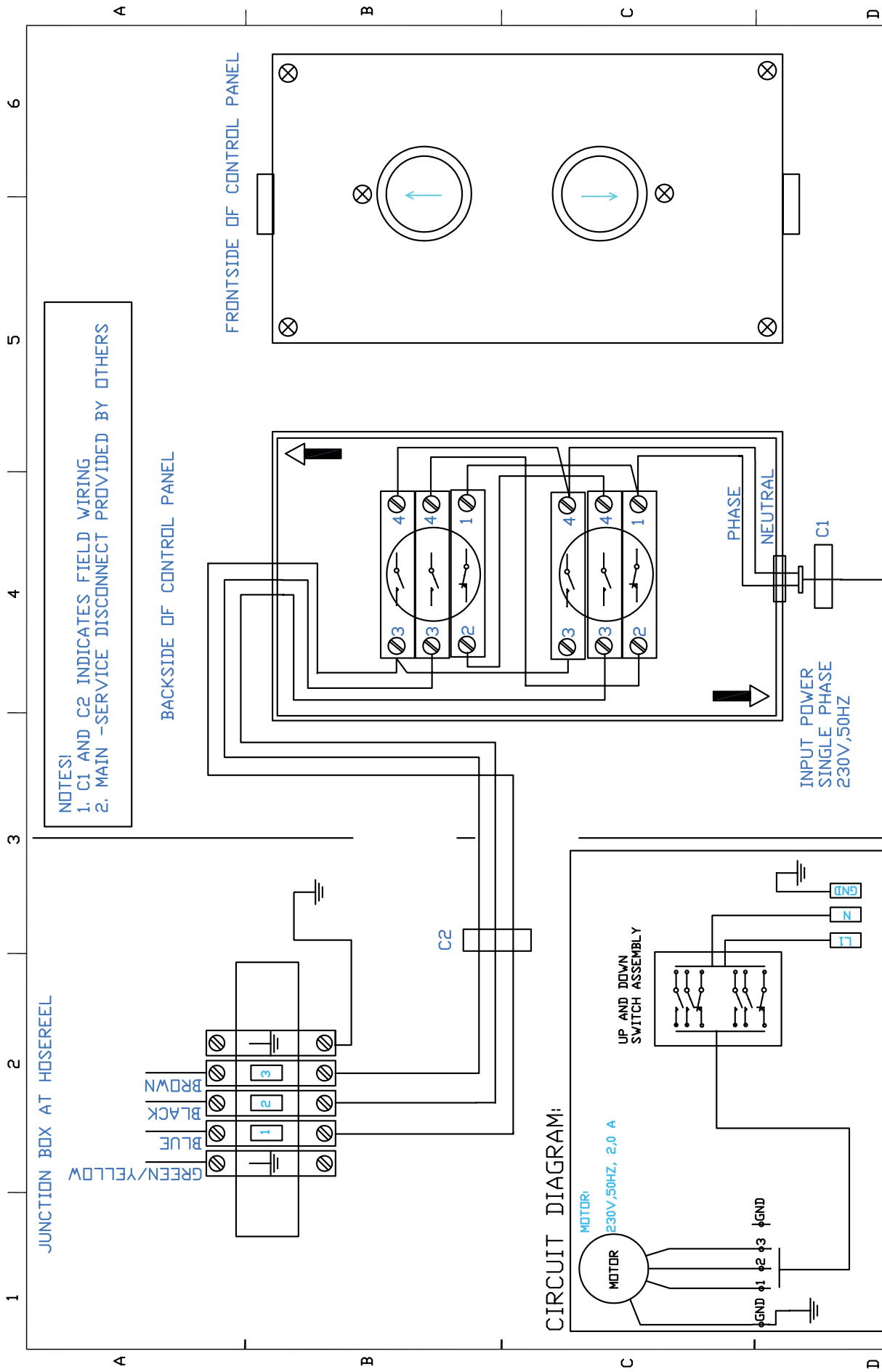
MHR, 00040, clamp 75, 962126, 1 pc

Exhaust rell on swinging arm

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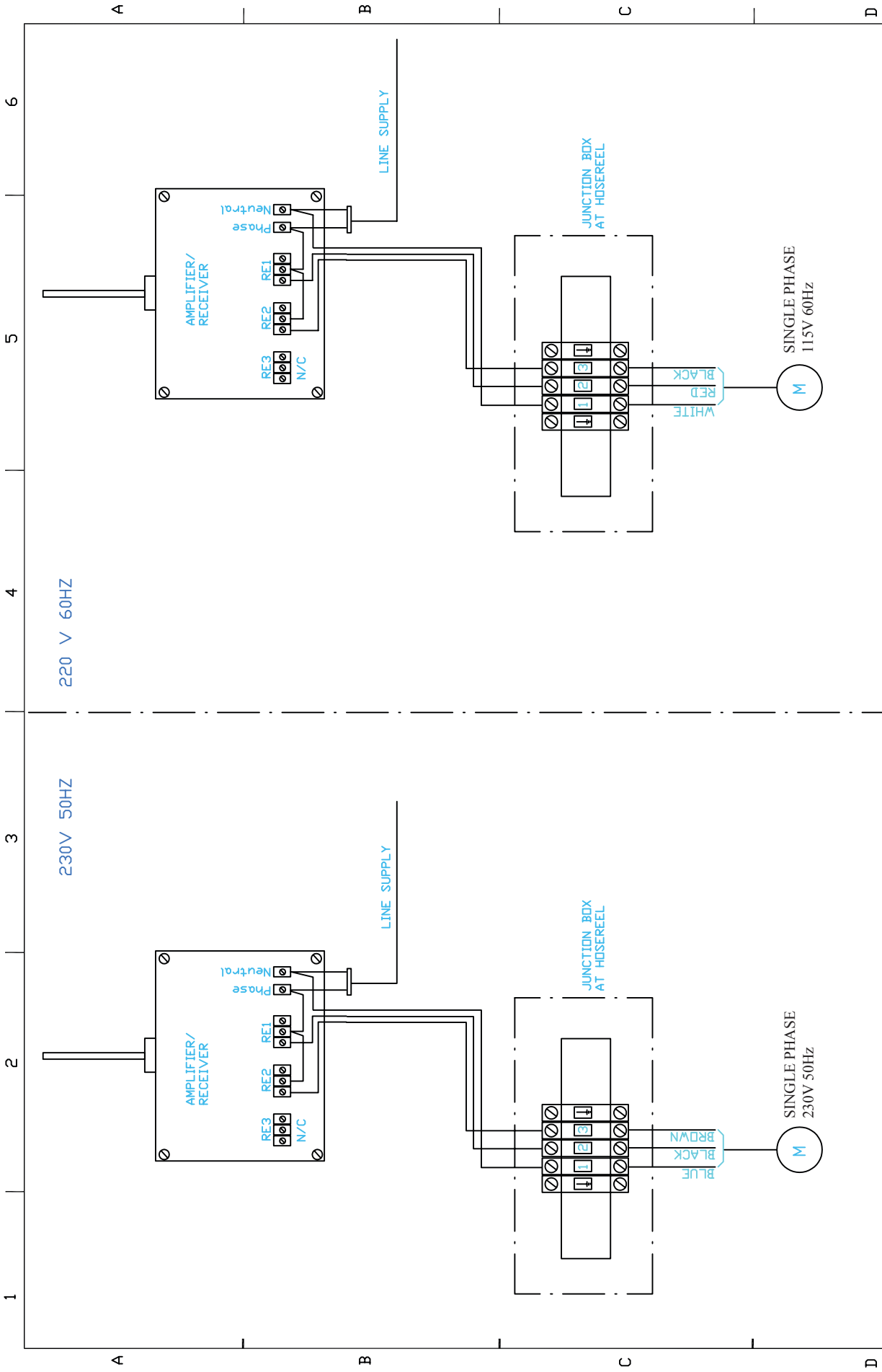




NOTES!
 1. C1 AND C2 INDICATES FIELD WIRING
 2. MAIN -SERVICE DISCONNECT PROVIDED BY OTHERS

CIRCUIT DIAGRAM:

Design checked by		ELECTRICAL INTERCONNECTION		Rev In	Sheet
Drawing checked by		SINGLE PHASE, 230V, 50HZ		Issue	Sheet
Drawn by		MOTORDRIVEN HOSE REEL		Cont	PL
EF		UTV 9936		5010	EN/22
Appd		Year Week		99 51	
Rev In		Revision		1	
terminal block		x		99 51	



5011		MOTORDRIVEN HOSE REEL		Rev In		Sheet	
		RADIO CONTROL		Issue		Sheet	
		—		—		—	
1 TEXT		Drawn by EF		Dept UTV		5011	
Rev In Revision		Appd Year Week		Year Week 9950		PLV	
1		X 00 43		4		6	
		—		5		5	
		—		3		6	
		—		2		6	
		—		1		6	
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PLYMVENT®

(GB) EU Declaration of Conformity

We hereby declare that the equipment described below conforms to the relevant fundamental safety and health requirements of the appropriate EU Directives, both in its basic design and construction as well as in the version marketed by us. This declaration will cease to be valid if any modifications are made to the machine without our express approval.

Appropriate internal measures have been taken to ensure that series-production units conform at all times to the requirements of current EU Directives and relevant standards. The signatories are empowered to represent and act on behalf of the company management.

(D) EG Konformitätserklärung

Hiermit erklären wir, daß die nachfolgend bezeichnete Maschine aufgrund ihrer Konzipierung und Bauart sowie in der von uns in Verkehr gebrachten Ausführung den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der EG-Richtlinien entspricht. Bei einer nicht mit uns abgestimmten Änderung der Maschine verliert diese Erklärung ihre Gültigkeit.

Es ist durch interne Maßnahmen sichergestellt, daß die Seriengeräte immer den Anforderungen der aktuellen EG-Richtlinien und den angewandten Normen entsprechen. Die Unterzeichnenden handeln im Auftrag und mit Vollmacht der Geschäftsführung.

(F) Déclaration de conformité européenne

Par la présente, nous déclarons que la machine ci-après répond, de par sa conception et sa construction ainsi que de par le modèle que nous avons mis sur le marché, aux exigences de sécurité et d'hygiène en vigueur de la directive européenne. En cas de modification de la machine effectuée sans notre accord, cette déclaration sera caduque.

La conformité permanente des appareils de série avec les exigences consignées dans les directives actuelles de la CE et avec les normes appliquées est garantie par des mesures internes. Les soussignés agissent par ordre et avec les pleins pouvoirs de la Direction commerciale.

(I) Dichiarazione di conformità CE

Dichiariamo con la presente, che la macchina qui di seguito indicata, in base alla sua concezione e al tipo di costruzione, e nella versione da noi introdotta sul mercato, è conforme ai relativi requisiti fondamentali di sicurezza e di sanità delle direttive della CE. In caso di modifica apportate alla macchina senza il nostro accordo, questa dichiarazione perde la sua validità.

Mediante accorgimenti interni, è stato assicurato che gli apparecchi di serie siano sempre conformi ai requisiti delle attuali direttive CE e alle norme applicate. I firmatari assumono su incarico e con i poteri dell'Amministrazione.

(NL) EU-conformiteitsverklaring

Hiermee verklaren wij dat de hierna vermelde machine op grond van haar concepiëring en constructie en in de door ons in omloop gebrachte uitvoering beantwoordt aan de desbetreffende veiligheids- en gezondheidsvoorschriften van de EG-richtlijnen. Na een wijziging aan de machine die niet in overleg met ons wordt uitgevoerd, verliest deze verklaring haar geldigheid.

Door interne maatregelen is er voor gezorgd dat de standaard-apparaten altijd beantwoorden aan de eisen van de actuele richtlijnen en de toegepaste normen. De ondergetekenden handelen in opdracht en op volmacht van de bedrijfsleiding.

(E) Declaración de conformidad de la Unión Europea

Por la presente declaramos los abajo firmantes que la máquina designada a continuación cumple, tanto por su concepción y clase de construcción como por la ejecución que hemos puesto en circulación, las normas fundamentales de seguridad y protección de la salud formuladas en las directivas comunitarias correspondientes. La presente declaración pierde su validez en caso de alteraciones en la máquina efectuadas sin nuestro consentimiento explícito. Mediante una serie de medidas internas, queda asegurado que los aparatos y equipos de serie cumplan siempre las exigencias formuladas en las directivas comunitarias actuales y en las normas correspondientes a aplicar. Los firmantes actúan autorizados y con poder otorgado por la dirección de la empresa.

(P) CE-Declaração de conformidade

Nós declaramos pelo presente instrumento que a máquina abaixo indicada corresponde, na sua concepção, fabricação bem como no tipo por nós comercializado, às exigências básicas de segurança e de saúde da directiva da CE. Se houver uma modificação na máquina sem o nosso consentimento prévio, a presente declaração perderá a sua validade.

Assegura-se, através de medidas internas da empresa, que os aparelhos de série correspondem sempre às exigências das directivas actualizadas da CE e às normas aplicadas. Os abaixo assinados, actuam e representam através de procuração a gerência.

(DK) Eu-overensstemmelseserklæring

Hermed erklærer vi at nedenstående maskine på grund af sin udformning og konstruktion i den udførelse, i hvilken den sælges af os, overholder EU-direktivernes relevante, grundlæggende sikkerheds- og sundhedsmæssige krav.

Hvis maskinen ændres uden aftale med os, mister denne attest sin gyldighed.

Interne forholdsregler sikrer, at serieapparaterne altid opfylder kravene fra de aktuelle EU-direktiver og de standarder, der blev anvendt. Underskriverne handler på forretningsledelsens vegne og med dennes fuldmagt.

N**EU-KONFORMITETSERKLÆRING**

Vi erklærer herved at maskinen som er beskrevet nedenfor, i konstruktion og udførelse tilsvarende markedsførte modell og er i overensstemmelse med de gjeldende og grunnleggende sikkerhets- og helsekrav i EU-direktivet. Denne erklæring mister sin gyldighet dersom maskinen endres uten etter avtale med oss.

Gjennom interne tiltak er det sikert at serieproduserte maskiner alltid er i overensstemmelse med kravene i de aktuelle EU-direktiver og anvendte normer. Undertegnede handler etter oppdrag og med fullmakt fra ledelsen.

S**Försäkran om överensstämmelse**

Härmed försäkrar vi att den enligt nedan angivna maskinen till konstruktion, byggnadssätt och i av oss levererat utförande motsvarar tillämpliga baskrav beträffande säkerhet och hälsa enligt EU-direktiven.

Vid ändringar på maskinen som icke avtalats med oss upphör denna försäkran att gälla.

Vi har genom interna åtgärder säkerställt, att serietillverkade maskiner alltid motsvarar aktuella EU-direktiv och tillämplade normer. De undertecknade agerar på uppdrag av och med fullmakt av företagsledningen.

FIN**EU-vaatimustenmukaisuusvakuutus**

Me vakuutamme, että alla mainittu tuote vastaa suunnittelultaan ja rakenteeltaan sekä valmistustavaltaan EU-direktiivien asianomaisia turvallisuus- ja terveysvaatimuksia. Jos koneeseen tehdään muutoksia, joista ei ole sovittu kanssamme, tämä vakuutus ei ole enää voimassa.

Sisäisin toimenpitein varmistetaan, että sarjatuotantolaitteet vastaavat aina voimassaolevien EU-direktiivien vaatimuksia ja sovellettuja normeja. Allekirjoittaneet toimivat yrityksen johdon toimeksiannosta ja valtuuttamina.

PL**EU Deklaracja zgodności**

Niniejszym deklarujemy, że opisane niżej urządzenia spełniają odpowiednie, zasadnicze wymagania dotyczące bezpieczeństwa i zdrowia obowiązujących Dyrektyw UE, zarówno w swoim podstawowym projekcie i konstrukcji, jak i w wersji sprzedawanej przez naszą firmę. Niniejsza deklaracja traci swą ważność w przypadku jakichkolwiek modyfikacji urządzenia wykonanych bez naszej wyraźnej zgody.

Podjęto odpowiednie środki wewnątrzzakładowe w celu zapewnienia stałej zgodności urządzeń produkowanych seryjnie z wymaganiami aktualnych Dyrektyw UE i odpowiednich norm. Podpisujący deklarację są upoważnieni do reprezentowania i podejmowania działań w imieniu kierownictwa firmy.

PRODUKT: HOSE REELS**BATCH NO: 04401--XXXXX****MODEL: MHR****EU-RICHTLINIE:**

"Wir, Plymovent, Kopparbergsgatan 2, SE-214 44 Malmö,
Sweden, erklären hiermit eigenverantwortlich dass das
Produkt/die Produkte:

Richtlinie für Maschinen 2006/42/EC

EN ISO 12100-1, -2

EN ISO 13857

EMC Richtlinie 2004/108/EC

EN 61000-6

EN 61000-2

Alkmaar, die Niederlande, 30-08-2011

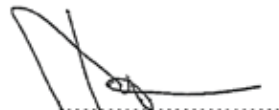
Plymovent Manufacturing AB

P.O. Box 527

SE-921 28 Lycksele



Cees Knijn
COO



Tony Norgren
Plant manager

EXHAUST GAS HOSE FOR TEMPERATURES UP TO +350°F



CARFLEX 350

Material

hose wall: neoprene-coated polyester fabric
external helix: galvanized steel with additional plastic abrasion protector

Applications

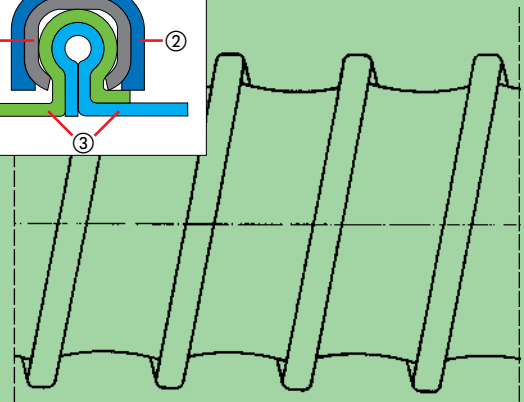
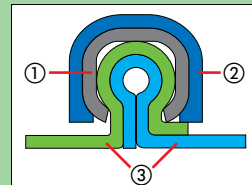
- medium duty exhaust gas extraction from gas or diesel engines
- exhaust gas extraction of engine exhaust gases up to +350°F when exhaust gas funnels are used properly
- all normal exhaust extraction systems such as:
 - hose reel
 - slotted channels
 - abovefloor and underfloor suction extraction

Properties

- vibration proof
- flame resistant, neoprene passed UL 94; V-O
- good flow characteristics
- extremely flexible
- compressibility 1:5
- small bend radius
- super lightweight
- extra strength
- special clamping method guarantees high tensile strength between hose material and external helix
- to maximize life of duct and exhaust system effectiveness, it is recommended to utilize a negative pressure exhaust system and introduce ambient air at the inlet

Construction

- ① external helix
- ② additional abrasion protector
- ③ hose wall: neoprene-coated polyester fabric



Temperature Range

- exhaust gas temperatures up to +350°F when exhaust gas funnels are used properly and enough fresh air is utilized

Technical Data, custom designs and forms of delivery see back page



Masterduct
Member of the Masterflex-Group

CARFLEX 350

Dia. (in.)	Outer (Dia.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
2.50	3.04	95	1.52	0.36905	240-063-118
3.00	3.56	71	1.84	0.40260	240-075-118
3.20	3.72	62	1.92	0.42273	240-080-118
4.00	4.68	40	2.40	0.53009	240-100-118
5.00	5.68	26	3.00	0.63745	240-125-118
6.00	6.68	18	3.60	0.98637	240-150-118
8.00	8.68	10	4.80	1.18096	240-200-118

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Delivery forms:

Standard production:

- Dia. 4" - 8"
- Color: black
 - outer abrasion protector blue
- Production lengths 25'

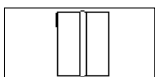
Available on request:

- special lengths
- fix lengths with mounted Clip-Grip-clamps
- abrasion protection profile in other colors
- custom design with other pitches and helix sizes
- special diameters - metric

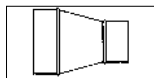
Installation and connection possibilities:



CLIP-GRIP special hose clamp
for MASTER-CLIP hoses



hose connector



hose reducer;
symmetrical

REC

RUBBER NOZZLE WITH SPRING CLIP

The REC nozzle is highly suitable for Plymovent's fixed extractors and exhaust hose reels.

Recommended for today's trucks, private cars and especially vehicles with twin exhaust pipes. The REC is designed to take in ambient cooling air thereby reducing the exhaust emission temperature.

The nozzle is composed of moulded, high temperature resistant rubber. The REC is also equipped with an inner spring clip in order to strengthen the connection with the exhaust pipe.

The nozzle also includes a CO-outlet for measuring emission values.



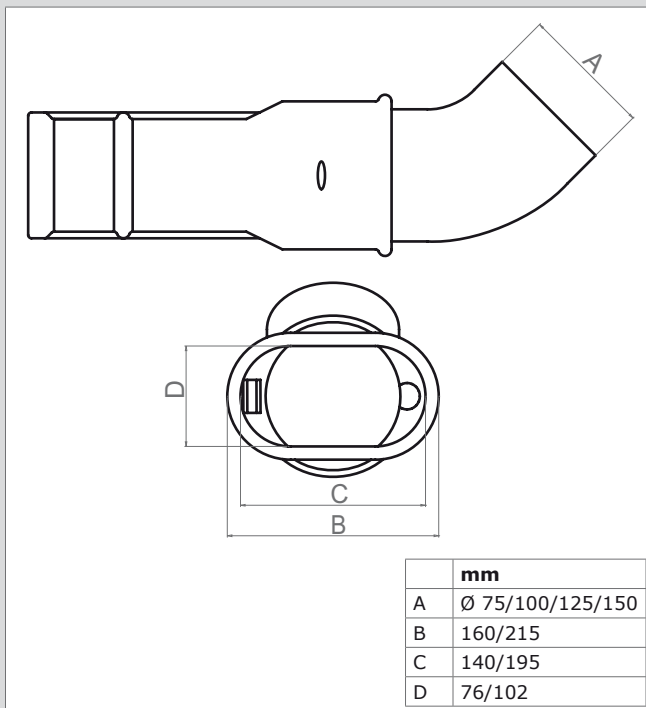
SPECIFICATIONS

■ Physical dimensions and properties	
Material	rubber
Colour	black
Temperature resistance	150°C/300°F continuously
■ Scope of supply	
REC Rubber nozzle with spring clip - Exhaust pipe - Exhaust hose	
■ Order information	
Refer to remaining specifications	
■ Shipping date	
Gross weight	see remaining specifications
Harmonized Tariff Code	8421.39.8090
Country of origin	Sweden

REMAINING SPECIFICATIONS

Article number	Dimensions exhaust hose	Weight
90200-1011	Ø 75 mm/3"	1.10 kg
90205-1011	Ø 100 mm/4"	1.20 kg
90210-1011	Ø 100 mm/4"	1.60 kg
90215-1011	Ø 125 mm/5"	1.75 kg
90220-1011	Ø 150 mm/6"	1.90 kg

DIMENSIONS



Product type	REC
Article no.	refer to remaining specifications
Product category	Nozzles
Version	110711/0

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