

Product User Manual

Power operated Exhaust Reels MER

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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!

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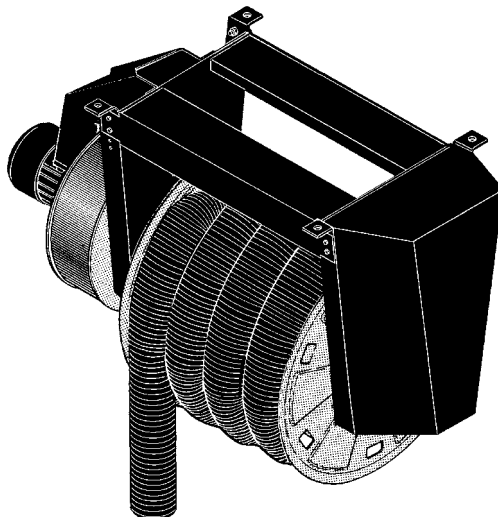
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PLYMOVENT®	Technical data	
MER	© Copyright 2008:All rights reserved.All information within this printed matter may not be reproduced, handed over, copied, xeroxed or translated into another language in any form or means without written permission from Plymovent AB. Plymovent AB reserves the right to make design changes.	



Technical data/Safety Information

Unit specifications

Motor type

Power supply	200-240 / 380-440 VAC
Phase	3 phase
Current	3.1 / 1.8 A
Frequency	50 / 60 Hz
Output	0.37 kW
Speed	920 rpm

Lifting capacity:

Maximum load is 50 kg/110 lbs

Installation:

On ceiling or wall.

Maneuvering:

Push buttons on control box

Maintenance:

Normal wear, no maintenance required.
See owner's manual.

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 pressed until required position is reached.

The electric control box may only be opened by an authorised electrician.

The key for the electric control box should be kept by person responsible for maintenance.

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

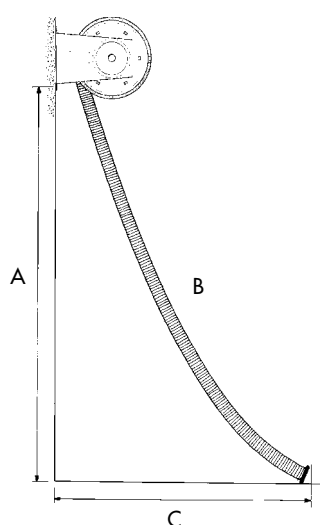
Mounting to different supporting structures

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.

Hose length recommendations

Prod.no.	Hose diameter	Hose length
MER-850-75	Ø 75 mm/3"	15,5 m/51'
MER-850-100	Ø 100 mm/4"	14 m/46'
MER-850-125	Ø 125 mm/5"	12,5m/41'
MER-850-150	Ø 150 mm/6"	10 m/33'
MER-1050-125	Ø 125 mm/5"	14 m/46'
MER-1050-150	Ø 150 mm/6"	12,5m/41'
MER-1250-200	Ø200mm/8"	12,5m/41'

Reach and mounting height



A= Mounting height

B= Hose length

C= Max. reach

A	B	C	B	C	B	C
3m/9,8ft	7,5m/25ft	6,2m/20ft				
3,5m/11,5ft	7,5m/25ft	5,9m/19ft	10m/33ft	8,5m/27,5ft		
4m/13,1ft	7,5m/25ft	5,5m/18ft	10m/33ft	8,3m/27,2ft		
4,5m/14,8ft	7,5m/25ft	5,2m/17ft	10m/33ft	8,0m/26ft		
5m/16ft	7,5m/25ft	4,7m/15ft	10m/33ft	7,7m/25ft	12,5m/41ft	10,6m/34,8ft
5,5m/18ft			10m/33ft	7,4m/22,4ft	12,5m/41ft	10,3m/33,8ft
6m/19,7ft					12,5m/41ft	10m/33ft
6,5m/21,3ft					12,5m/41ft	9,7m/31,8ft
7m/23ft					12,5m/41ft	9,4m/30,8ft

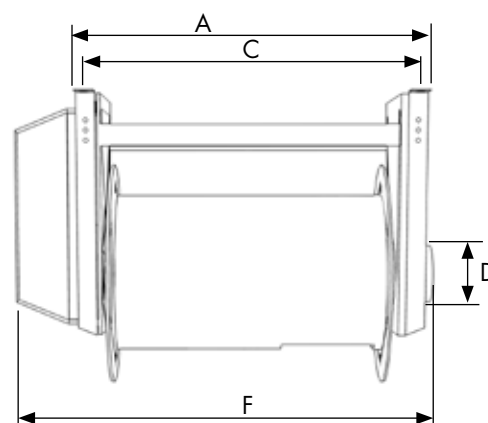
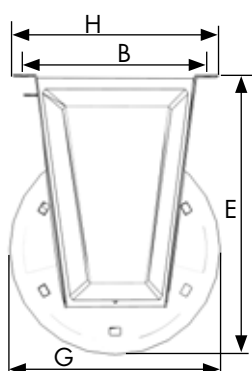
Weight/Measures

Prod.nr:

Weight:

MER-850, 62 kg* / 137 lbs*
 MER-1050, 67 kg */148 lbs*
 MER-1250-200, 75 kg */ 165 lbs*

* Weight without hose.

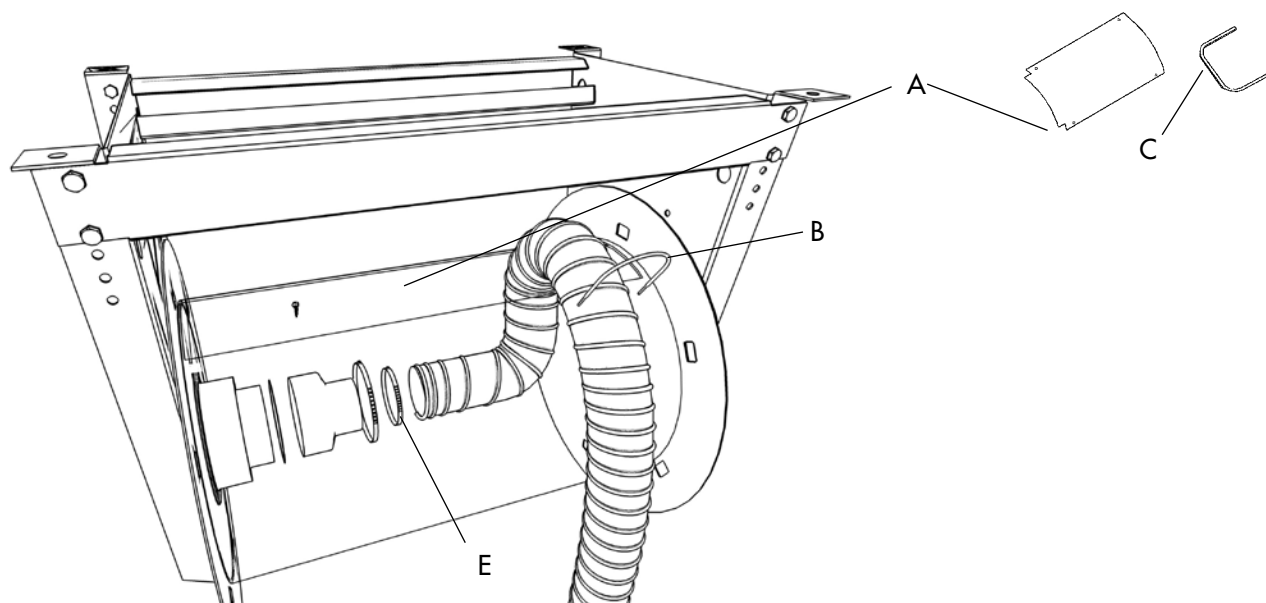


	MER-850	MER-1050	MER-1250-200
A	1030 mm/40.5"	1230 mm/48.4"	1430 mm/56.3"
B	500 mm/19.7"	500 mm/19.7"	525 mm/20.7"
C	974 mm/38.3"	1174 mm/46.2"	1374 mm/54.1"
D	Ø 160 mm/6.30"	Ø 160 mm/6.30"	Ø 200 mm/8"
E	790 mm/31.1"	790 mm/31.1"	1117mm/44"
F	1230 mm/48.4"	1430 mm/56.3"	1620 mm/63.8"
G	600 mm/23.6"	600 mm/23.6"	735 mm/28.9"
H	552 mm/21.7"	552 mm/21.7"	577 mm/22.75"

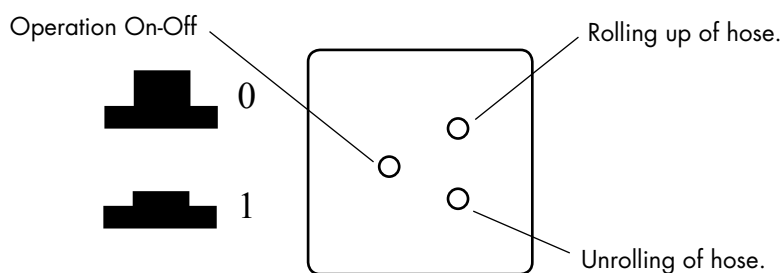
PLYMOVENT®	MOUNTING INSTRUCTION	
MER	© Copyright 2008:All rights reserved.All information within this printed matter may not be reproduced, handed over, copied, xeroxed or translated into another language in any form or means without written permission from Plymovent AB. Plymovent AB reserves the right to make design changes.	

Put on the hose

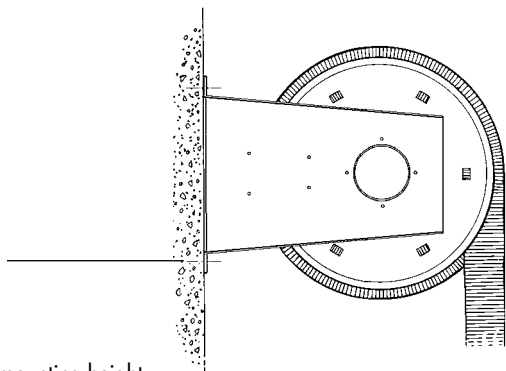
1. Dismantle drum lid A
2. Mount MAP-kit see picture below
3. Mount hose to the socket inside the drum using clamp E.
4. Bend hose into a natural soft curve and fasten it using clamp B.
5. Re-mount the drum lid A.
6. Mount the edge protection C at the opening of the drum where the hose protrudes.
7. Start the motor, coil up the hose and adjust the limit switches, See instructions on page 13.



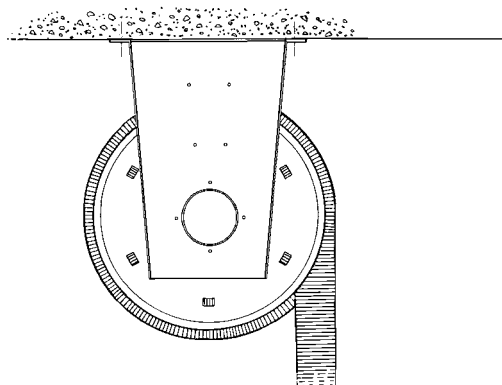
Operation of hose reels via wall mounted control panel:



Mounting



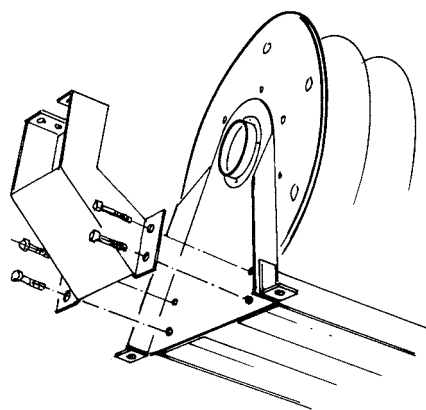
Max. mounting height
5,5 m/18ft for hose length 7,5 m/25ft
8 m/26ft for hose length 10 m/33ft
10,5 m/34,5ft for hose length 12,5
m/41ft



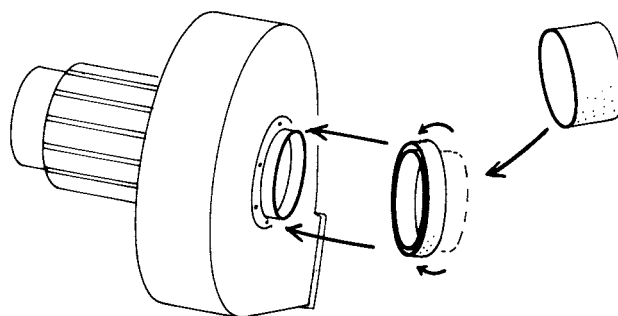
Max. mounting height
6 m /19,7ftvid slanglängd 7,5 m/25ft
8,5 m/27,9ft for hose length 10 m/33ft
11 m/36,1ft for hose length 12,5 m/41ft

Mounting of fan (N/A MER-1250-200)

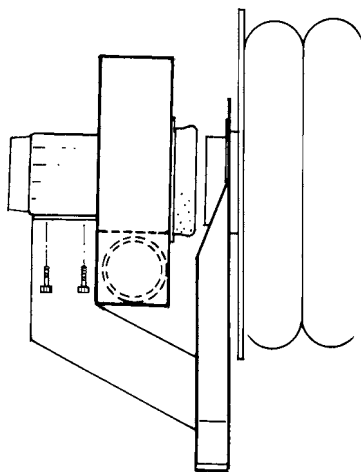
The power operated hose reel is delivered complete including ceiling or wall mounting bracket.
Either for connection to a central exhaust system or fitted with a fan (see 1-4).
First mount the fan with the reel upside down on the floor and then mount the complete reel to
its intended position.



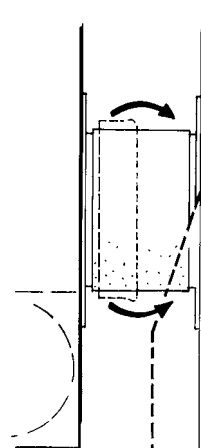
1. Attach bracket to reel.



2. Fit rubber collar folded to socket.



3. Screw fan to bracket.

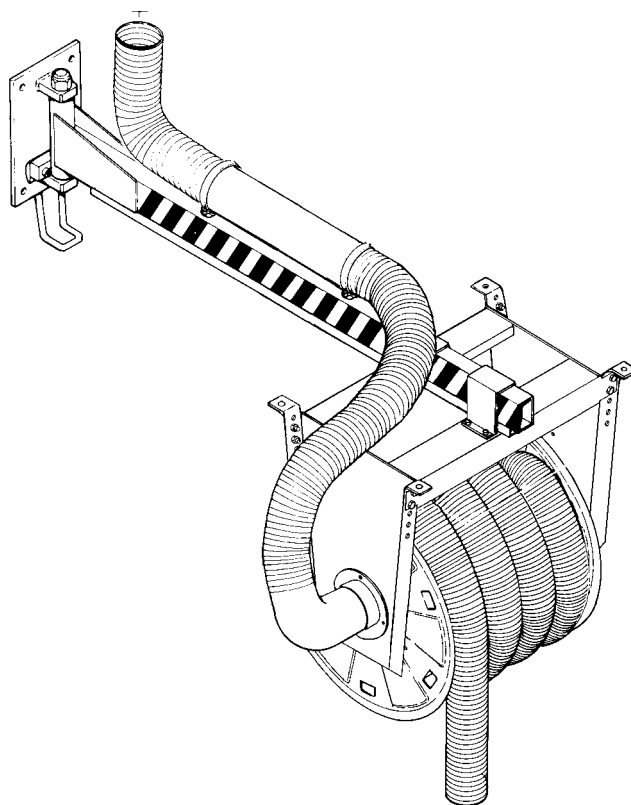


4. Unfold rubber collar over the reel's socket.

Exhaust reel mounted on swinging arm

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Note! N/A for MER-1250-200



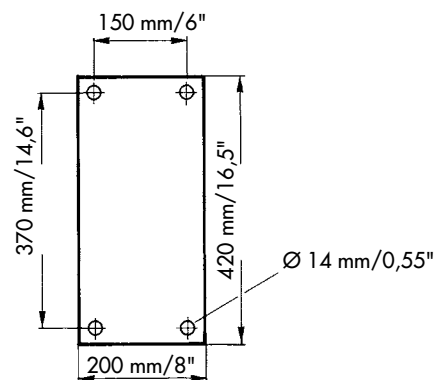
Prod. no.	Reach mm (see page 9)	Max stretching/bolt	Torque demands/bolt
EB-3.5	3500mm/11.5ft	650kp/1430 lb	1950kp/4290 lb
EB-4.5	4500mm/14.7ft	900kp/1980 lb	2700kp/ 5940 lb

Mounting

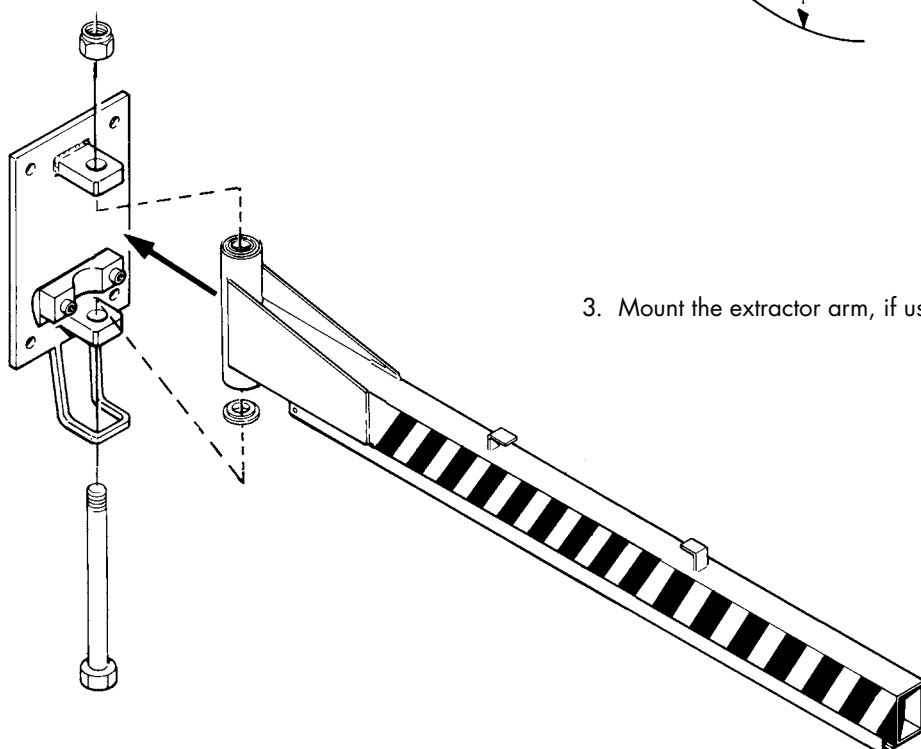
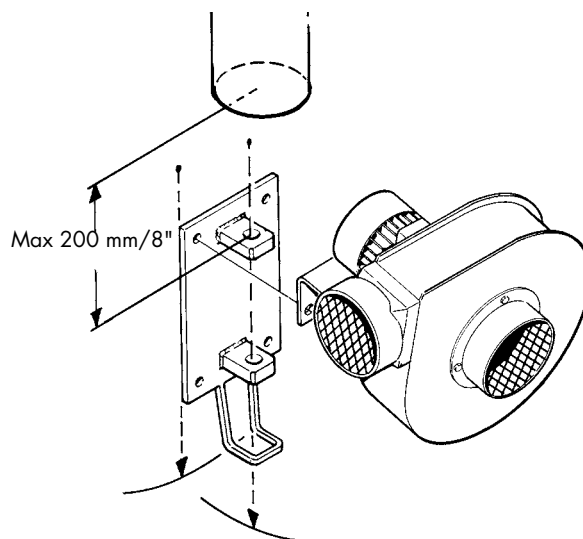
Note! N/A for MER-1250-200

Mounting bracket EB-3.5, EB-4.5

1. Bolt mounting bracket to wall.



2. Mount the fan (if included).

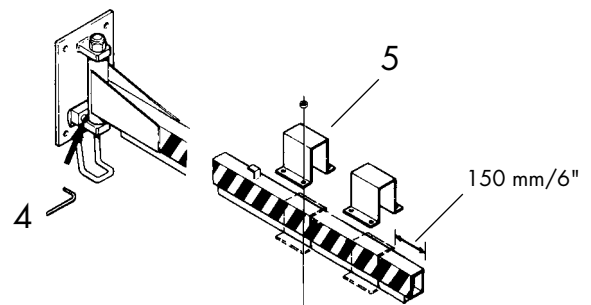


3. Mount the extractor arm, if used.

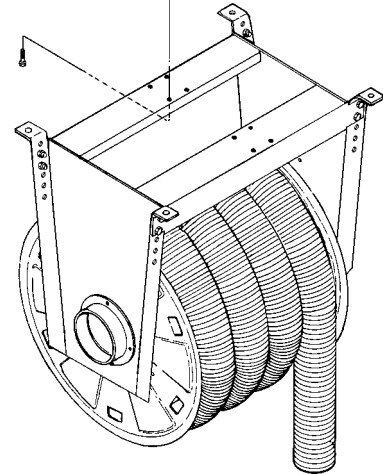
Mounting

Note! N/A for MER-1250-200

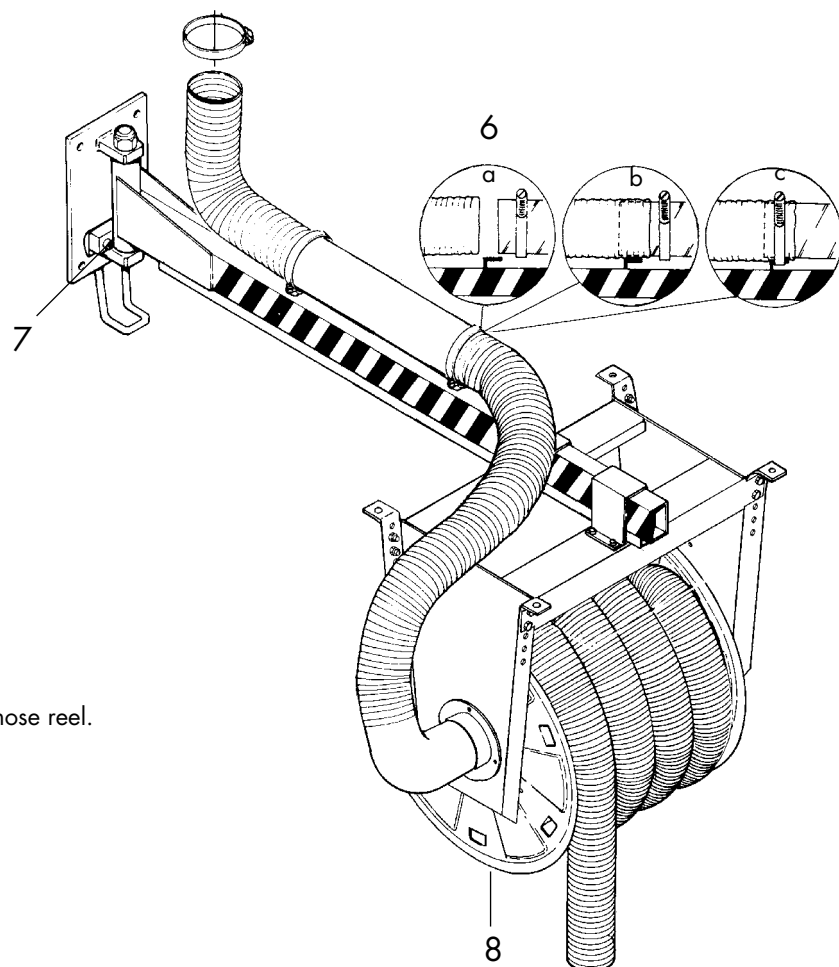
4. Adjust friction until arm remains in one position.



- 5.. Mount hose reel to extractor arm.

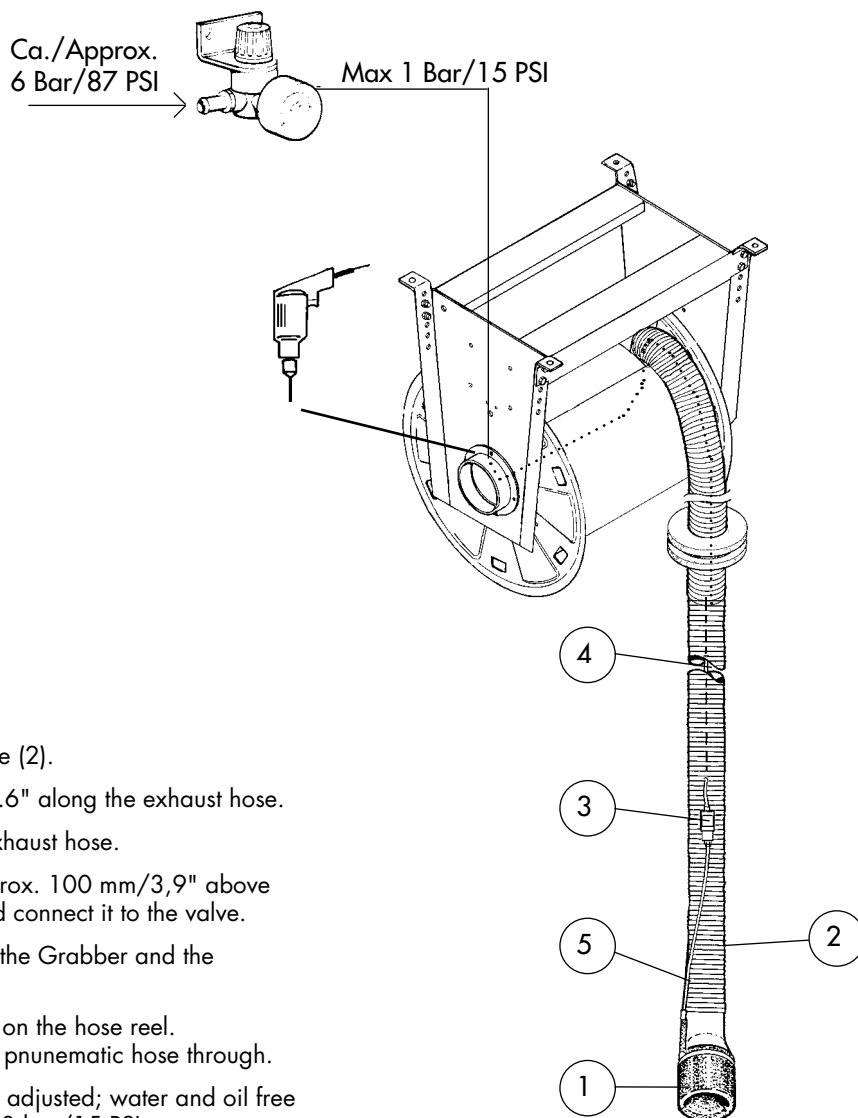


6. Mount spiro-tubing and hose on the extractor arm.

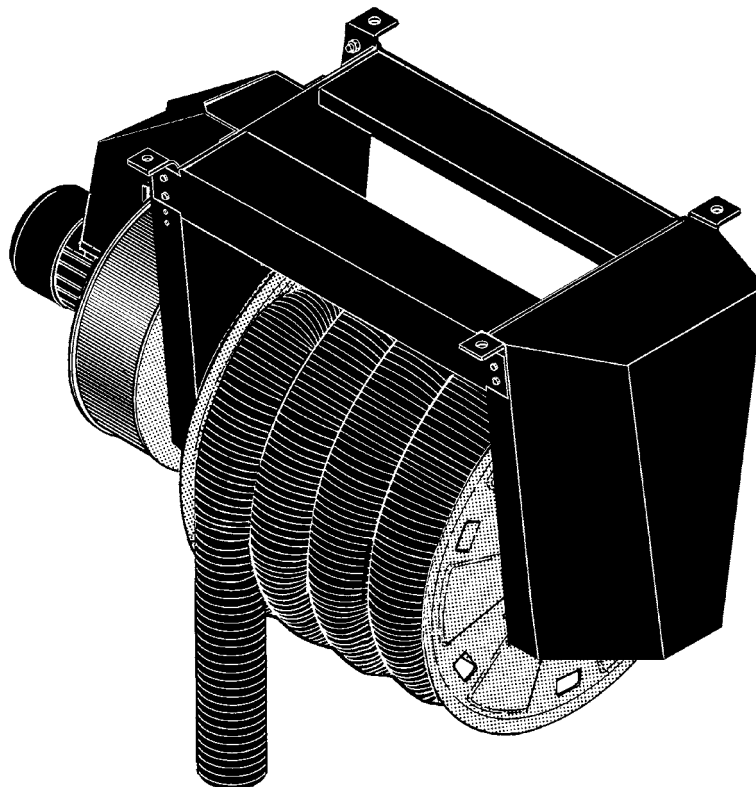


7. Set required friction.

8. Mount ducting bend to hose reel.



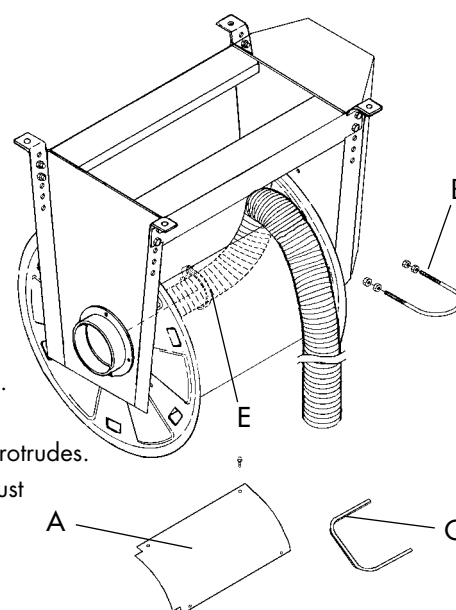
1. Mount Grabber (1) to the exhaust hose (2).
2. Mount valve (3) approx. 700 mm/27.6" along the exhaust hose.
3. Pull pneumatic hose (4) through the exhaust hose.
4. Make a hole on the exhaust hose approx. 100 mm/3,9" above the valve, pull out pneumatic hose and connect it to the valve.
5. Connect pneumatic hose (5) between the Grabber and the valve (Ø 8 mm)/(Ø 0.3").
6. Drill a hole along the duct connection on the hose reel. Mount a rubber grommet and pull the pneumatic hose through.
7. The connection to the inlet (8) must be adjusted; water and oil free compressed air at max. pressure of 1.0 bar/15 PSI.



Power operated exhaust reel

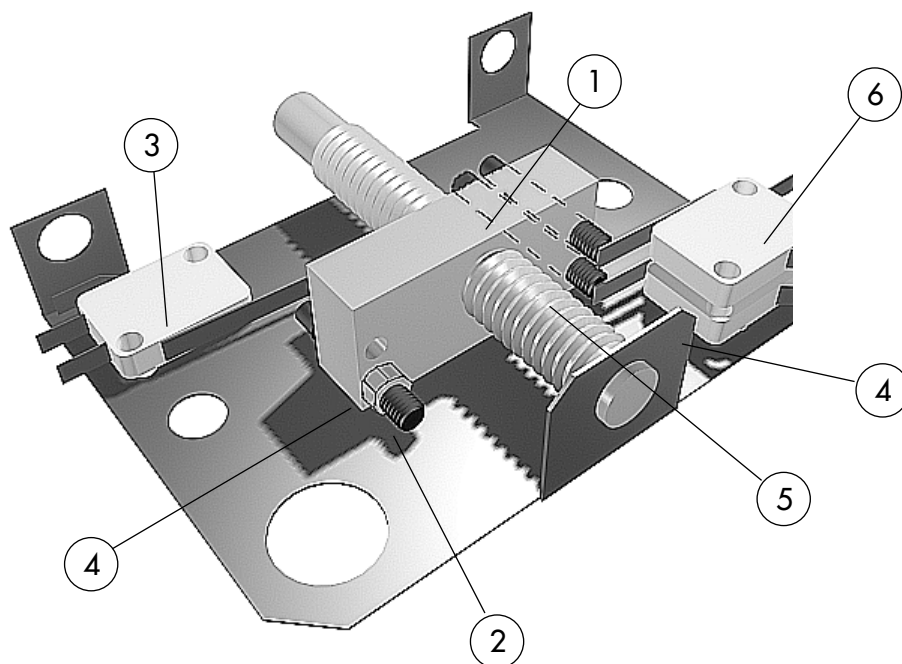
Replacing the exhaust hose

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. Remove hose stop ring D from the old hose and fit it on the new one and adjust so that the hose stays at a convenient height when reeled in.
8. The reel is now ready for use.



Endposition switch adjustment for power operated hose reels

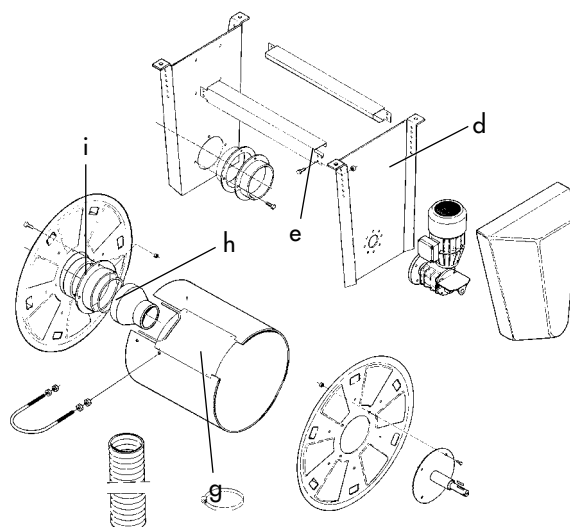
1. Unroll the hose to desired position.
2. Loosen nut (1) and screw adjustingscrew (2), until there is a click from switch (3).
3. Wind up the hose to normal position.
4. Adjust switch (4) with adjustingscrew (5) in the same way.
5. Check and fine adjust desired position. (a quarterturn on adjustingscrews correspond to 24 cm.
6. Secure adjustingscrews with nuts (1). Then adjust switch (6) until on/off position correspond with switch (4).

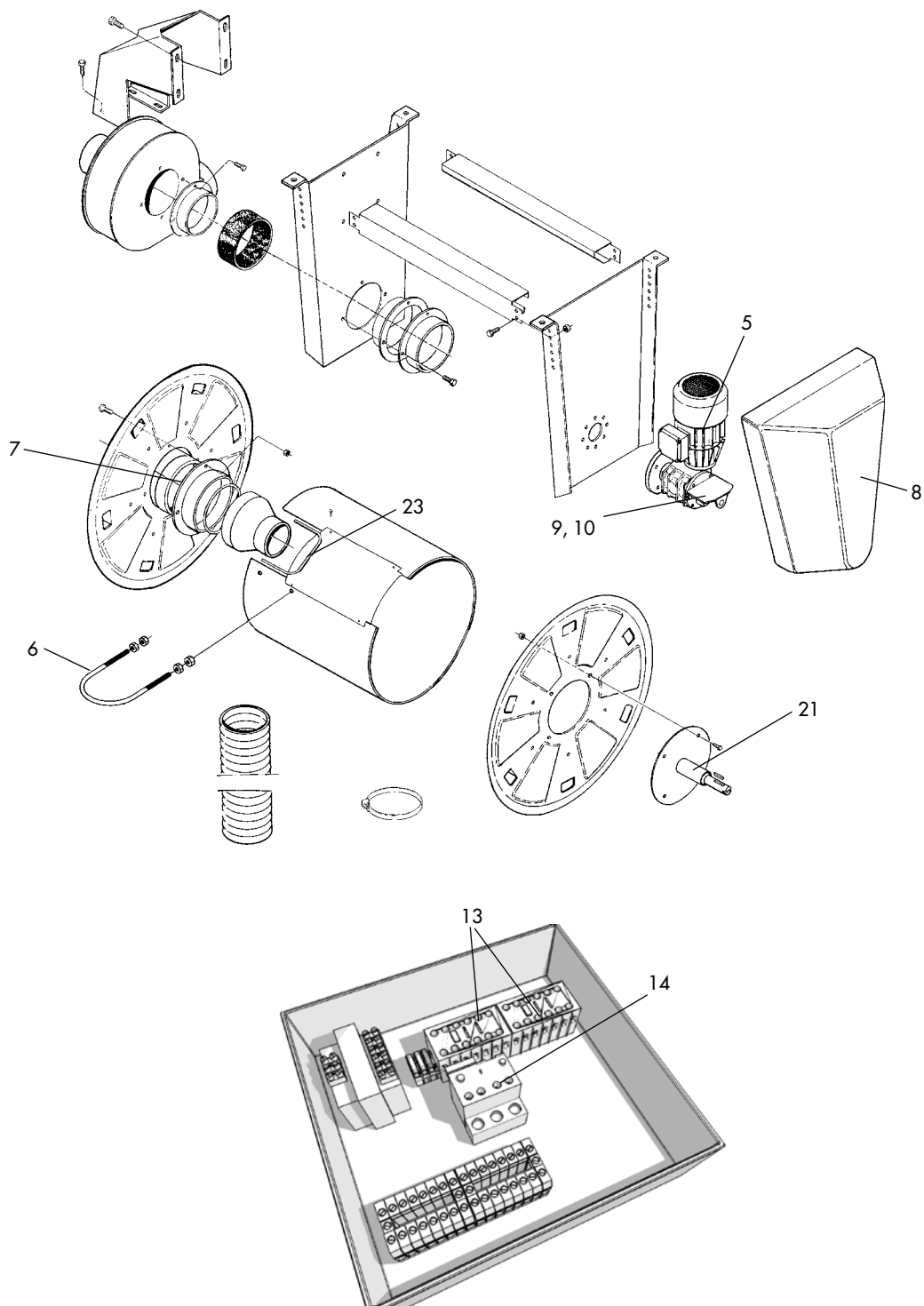


Exchanging the plastic bearings

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.





	SPARE PARTS LIST	BSAB No: Mer. No: Date: Nov -07 Replace: Sept -05
MER-850, -1050, 1250-200	© 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 MER
B	MER-850	
C	MER-1050	
D	MER-1250-200	
E		
F		
G		

revisions

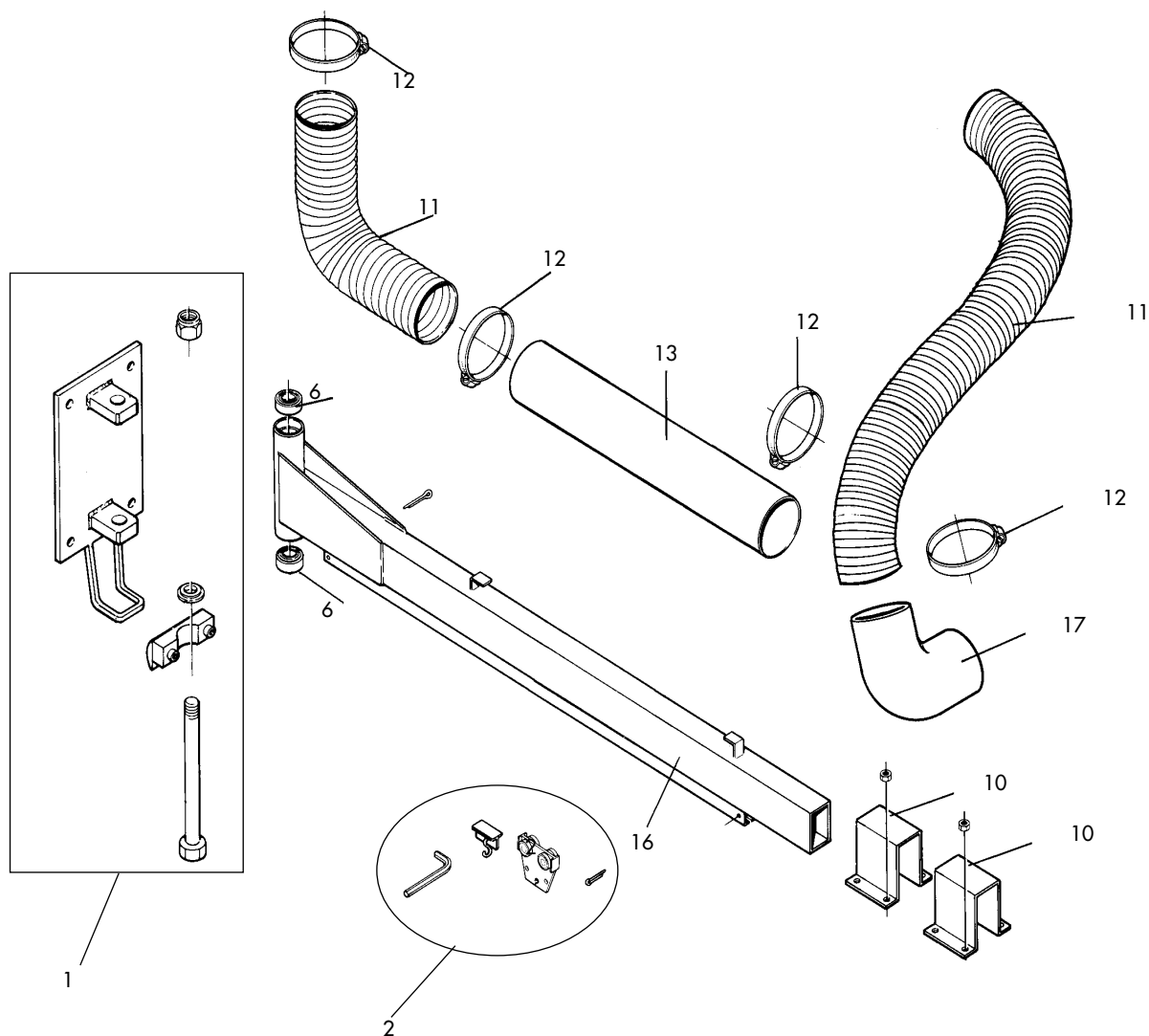
X = Order as required, state required length.

Pos	Art. No:	A	B	C	D	E	F	G	Description	Price
5	937 090	1							Motor/gear 200-240, 380-440V 50/60Hz	
6	962 126		1	1					Clamp 75mm/3"	
	962 118		1	1					Clamp 100mm/4"	
	962 134		1	1					Clamp 125mm/5"	
	962 159		1	1					Clamp 150mm/6"	
	961 482				1				Clamp 200mm/8"	
7	4-783	1							Plastic bearing	
8	524 207	1							Casing	
9	936 096	3							Micro switch	
10	936 070	3							Limit position cam	
13	935 388	2							Contactor AB M12 24VAC	
14	939 038	1							Overload AB 0,9-1,3A	
21	524 173	1							Axle	
23	972 059	X							Edge cover /m	

When ordering spare parts please quote: •Product No. (see label) • Batch No • Description • Part No • Quantity For example: MER, 00040, Overload, 939038, 1 pc	
--	--

EB-3,5 -4,5

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PLYMOVENT®	SPARE PARTS LIST	BSAB No: T3.1 Ser. No: EB / RR Date: Sep -05 Replace: Aug 98
EB-3,5, -4,5	© 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 EB
B	EB-3,5	
C	EB-4,5	
D		
E		
F		
G		

Abbreviations

X = Order as required, state required length.

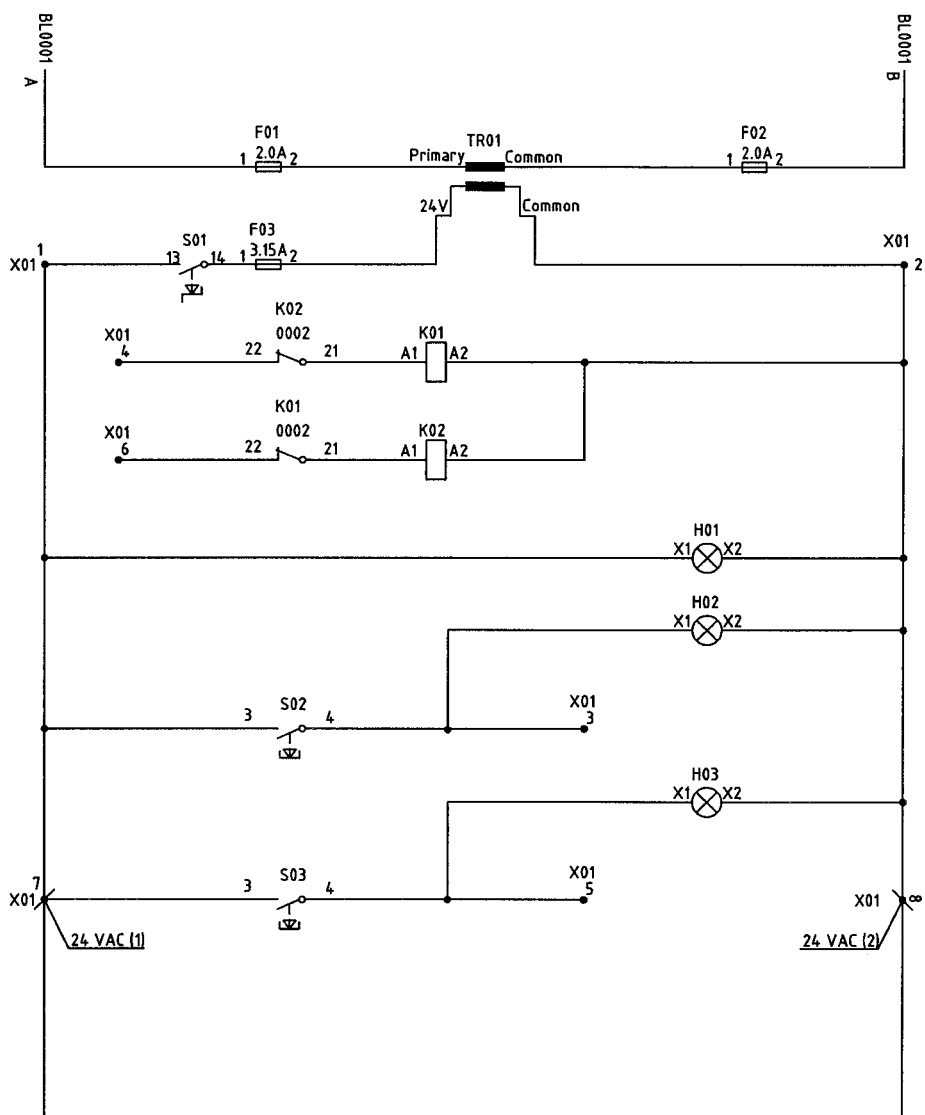
Pos	Art. No:	A	B	C	D	E	F	G	Description	Note
1	508 424	1							Mount bracket EB-35,-45 complete.	
2	508 440	1							Boom/set accessories c-/parts	
6	963 017	2							Ballbearing EB-35, EB-45	
10	524 470	2							Hose reel attachment	
11	999 219	2							Inner hose 1,3M/4,28' Ø165mm/6,50"	
12	961 466	4							Hose clamp 168 black	
13	979 302,1		1						Inner lenght rigid ducting 2,3m	
	979 328,1			1					Inner lenght rigid ducting 3,3m	
16	503 861,1		1						Boom/ inner arm 3,5M/ 11,51' black	
	503 896,1			1					Boom/ inner arm 4,5M/ 14,80' black	
17	980 292,1	1							90° bend Ø 160mm/ 6,50"	

When ordering spare parts please quote:

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

For example:

EB, 00040, Hose clamp ,961466 , 1 pc



T-01 - Transformer
 NOTE: ADJUST THE PRIMARY TO THE
 VOLTAGE BETWEEN PHASES L1 & L2.
 S01 - Switch ON/OFF
 K01 - Contactor reel up
 K02 - Contactor reel down
 H01 - Indicator ON/OFF
 H02 - Indicator reel up
 H03 - Indicator reel down
 S02 - Button reel up
 S03 - Button reel down

PLYMOVENT®

DRAWING NO:
546144

REV:
B

DESCRIPTION:
MER-CB Single phase

30° ANGLE PROJECTION

Tolerance : unless otherwise specified: ± 0.5 mm / ± 0.2°

Material :

Treatment :

A4



GENERAL TOLERANCES ACC. TO ISO 2768 -
 SURFACE ROUGHNESS ACC. TO ISO 1302 -

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Volume :

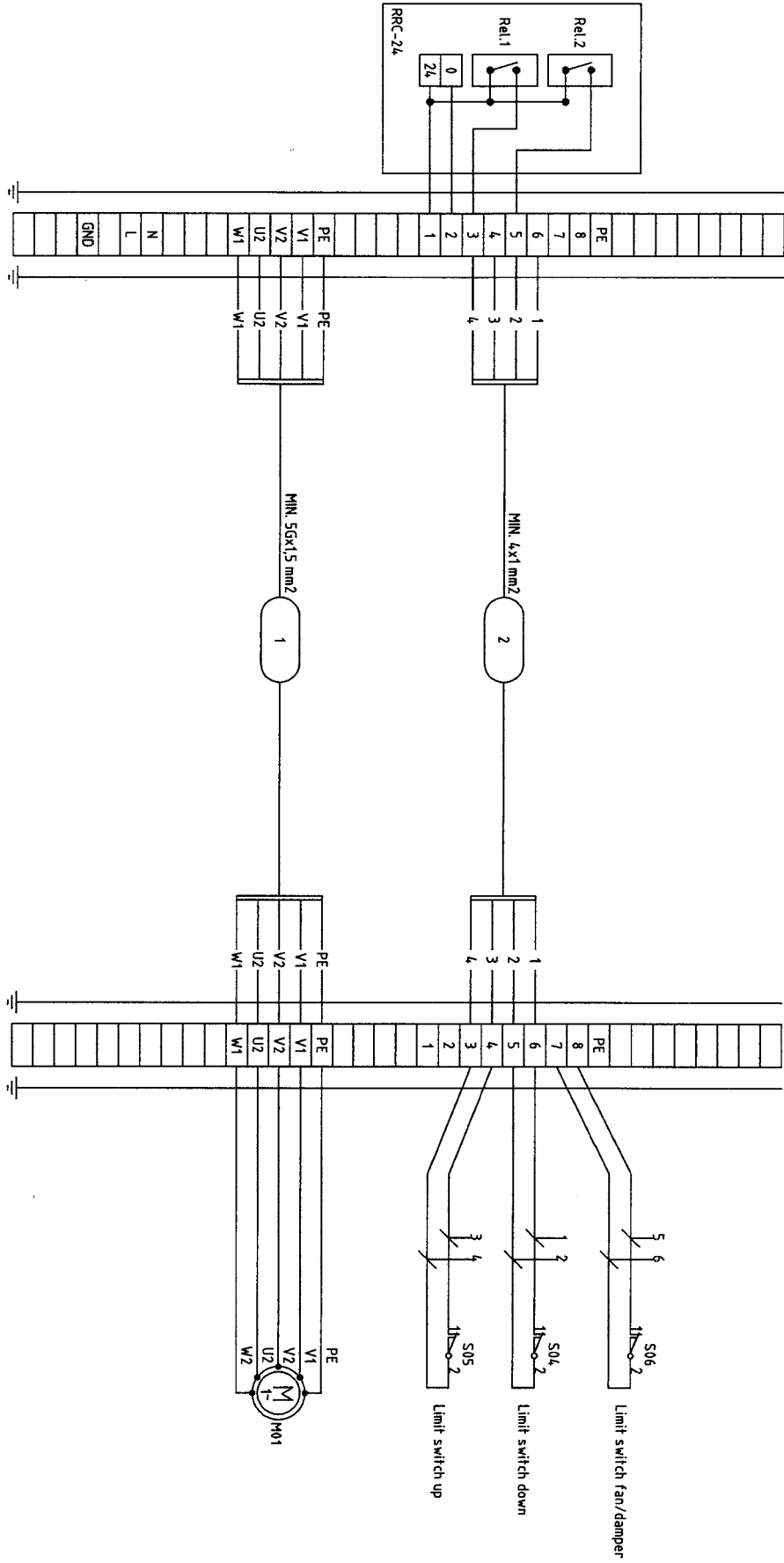
Units :

Scale :

Sheets : 2 of 3

X01 - TERMINAL STRIP CB - MER

X02 - TERMINAL STRIP JUNCTIONBOX MOTOR (513275)



PLYMOVENT®

DRAWING NO:
546144

REV.:
B

DESCRIPTION:
MER-CB Single phase

A4

3RD ANGLE PROJECTION



TOLERANCE : unless otherwise specified: ± 0.5 mm / ± 0.2 °

GENERAL TOLERANCES ACC. TO ISO 2768 -

SURFACE ROUGHNESS ACC. TO ISO 1302 -

Material :

Treatment :

Document status :

REV.:	RFC:	DATE:	DESIGN BY:	CHECKED:	APPROVED:
8	RFC 109005	15-12-2009	GDV		

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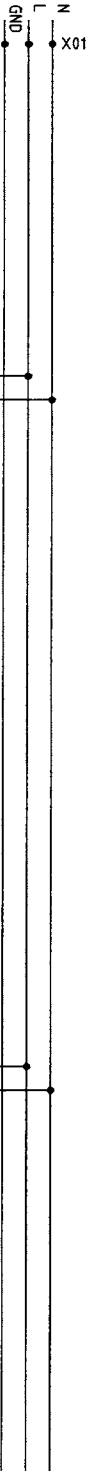
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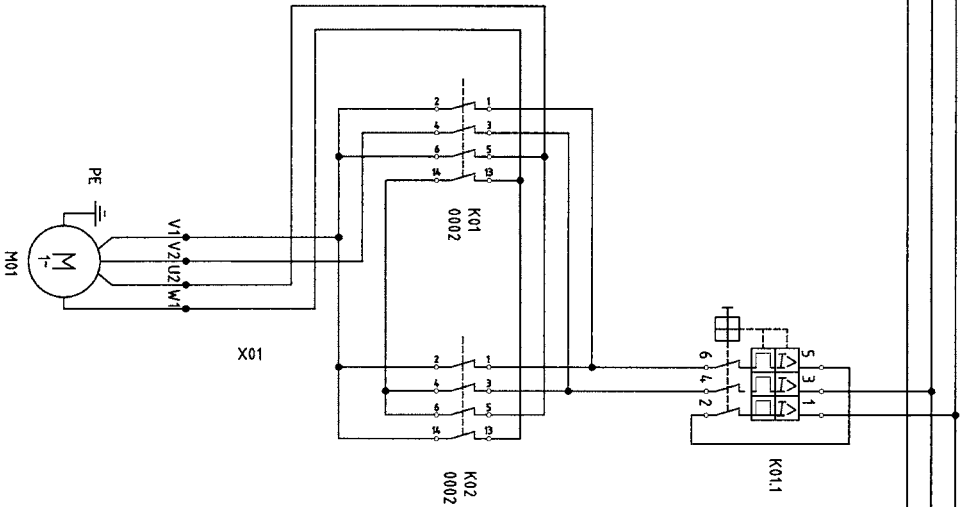
Units :

Scale :

Sheets : 3 of 3



BL 0002 B
BL 0002 A



PLYMOVENT®

Plymovent AS, Skogvægen 19, S-971 28 Uppsala, SWEDEN - Tel: +46 (0)930 57 000 Fax: +46 (0)930 57 070

DRAWING NO.:

546144

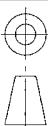
REV.:

B

DESCRIPTION:

MER-CB Single phase

3RD ANGLE PROJECTION



Tolerance : unless otherwise specified $\pm 0.5 \text{ mm} / \pm 0.2^\circ$

GENERAL TOLERANCES ACC. TO ISO 2768 -

SURFACE ROUGHNESS ACC. TO ISO 1302 -

Material :

A4

Document status :

REV.:

B

DATE:

15-12-2009

DESIGN BY:

GDV

CHECKED:

APPROVED:

RFC:

1097005

DATE:

15-12-2009

DESIGN BY:

GDV

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1097005

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15-12-2009

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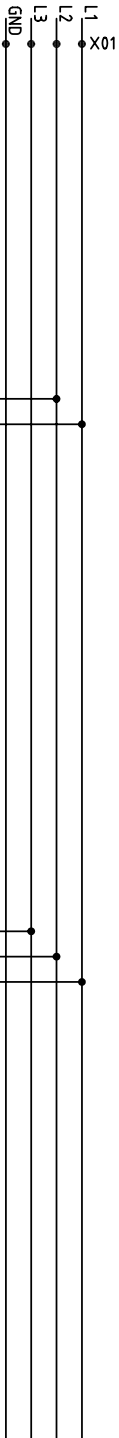
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Units :

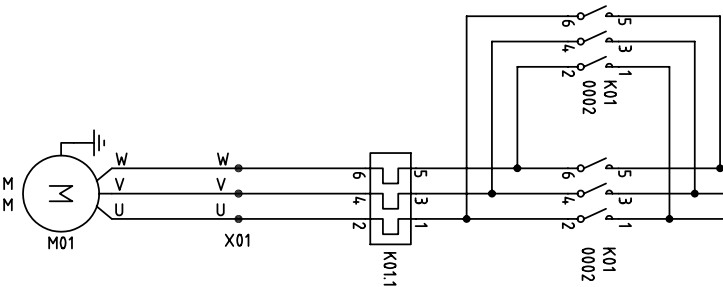
Scale :

Sheets : 1 of 3

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BL 0002 B
BL 0002 A



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DRAWING NO:

546143

3RD ANGLE PROJECTION



Tolerance : unless otherwise specified: ± 0.5 mm / ± 0.2 °

GENERAL TOLERANCES ACC. TO ISO 2768 -

SURFACE ROUGHNESS ACC. TO ISO 1302 -

REV.: A DESCRIPTION: MER-CB 3 phase w/o neutral

Material :

Treatment :

A4

Document status :			
REV.:	RFC:	DATE:	DESIGN BY:
A	RFC PV 109005	27-03-2009	GDV
0	-		
CHECKED:			
APPROVED:			

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File name :

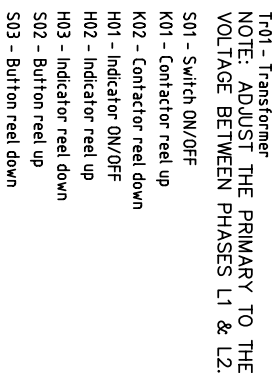
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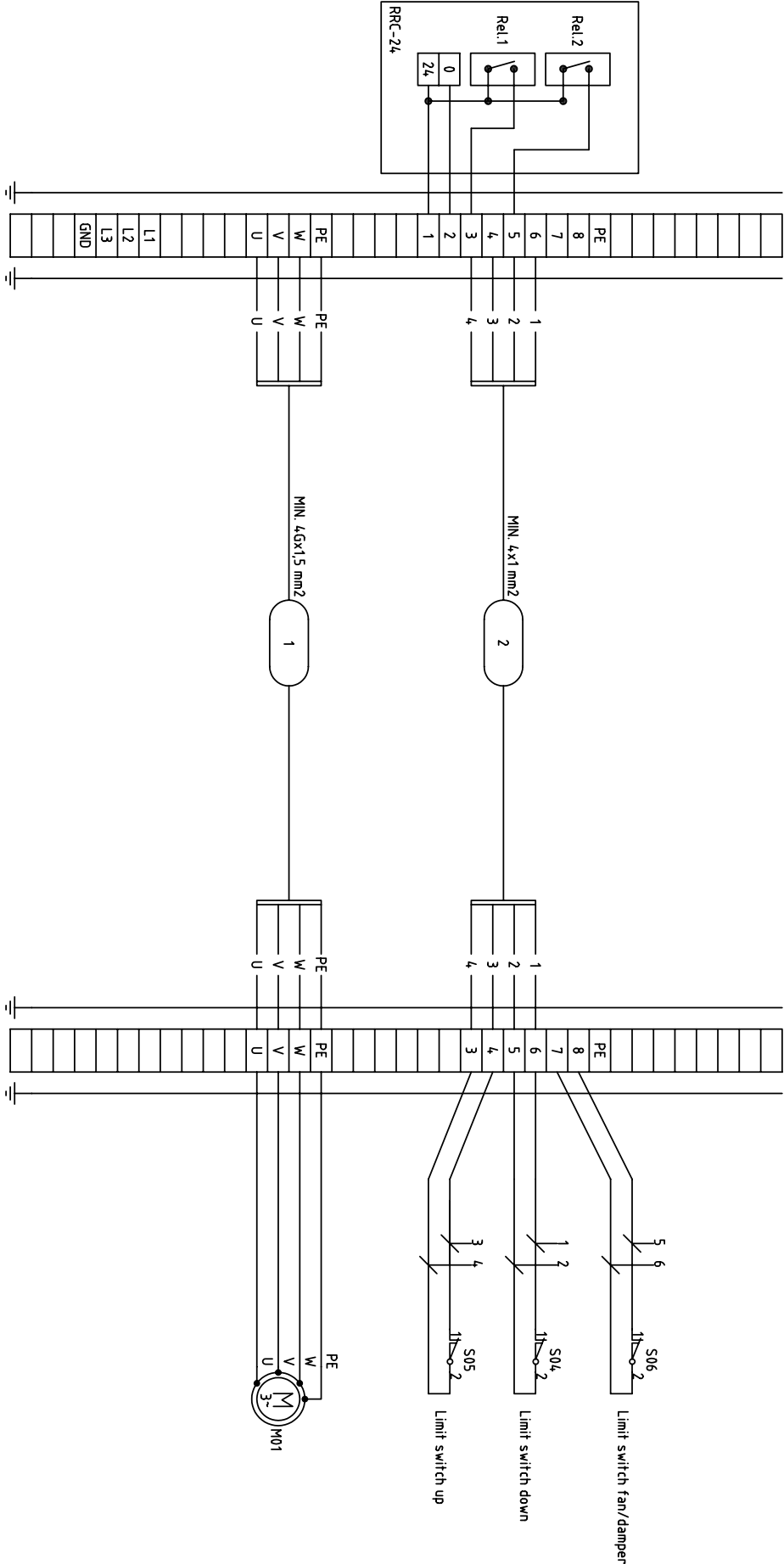
Scale :

Sheets :

1 of 3



MER/ENG/20/20



PLYMOVENT®

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DRAWING NO.:

546143

REV.:

A

DESCRIPTION:

MER-CB 3 phase w/o neutral

30° ANGLE PROJECTION

Tolerance: unless otherwise specified: ± 0.5 mm / ± 0.2°

GENERAL TOLERANCES ACC. TO ISO 2768 -

SURFACE ROUGHNESS ACC. TO ISO 1302 -

Material:

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Treatment:

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Scale:

Sheets: 3 of 3

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(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 apportata 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 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 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 diretiva 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: Underskrifterne handler på forretningsledelsens vegne og med dennes fuldmagt.

N EU-KONFORMITETSERKLÆRING

Vi erklærer herved at maskinen som er beskrevet nedenfor, i konstruktion og uftørelse 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 sikret 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 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-direktiivin 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 wewnętrzne 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: HOSE REELS**BATCH NO: 04401--XXXXX****MODEL: SER, SERF, MHR, MER, MERF****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

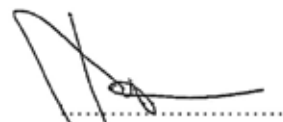
EN 61000-6-4

EN 61000-6-2

73/23/EEC, 93/68/EEC

EN 60204-1

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