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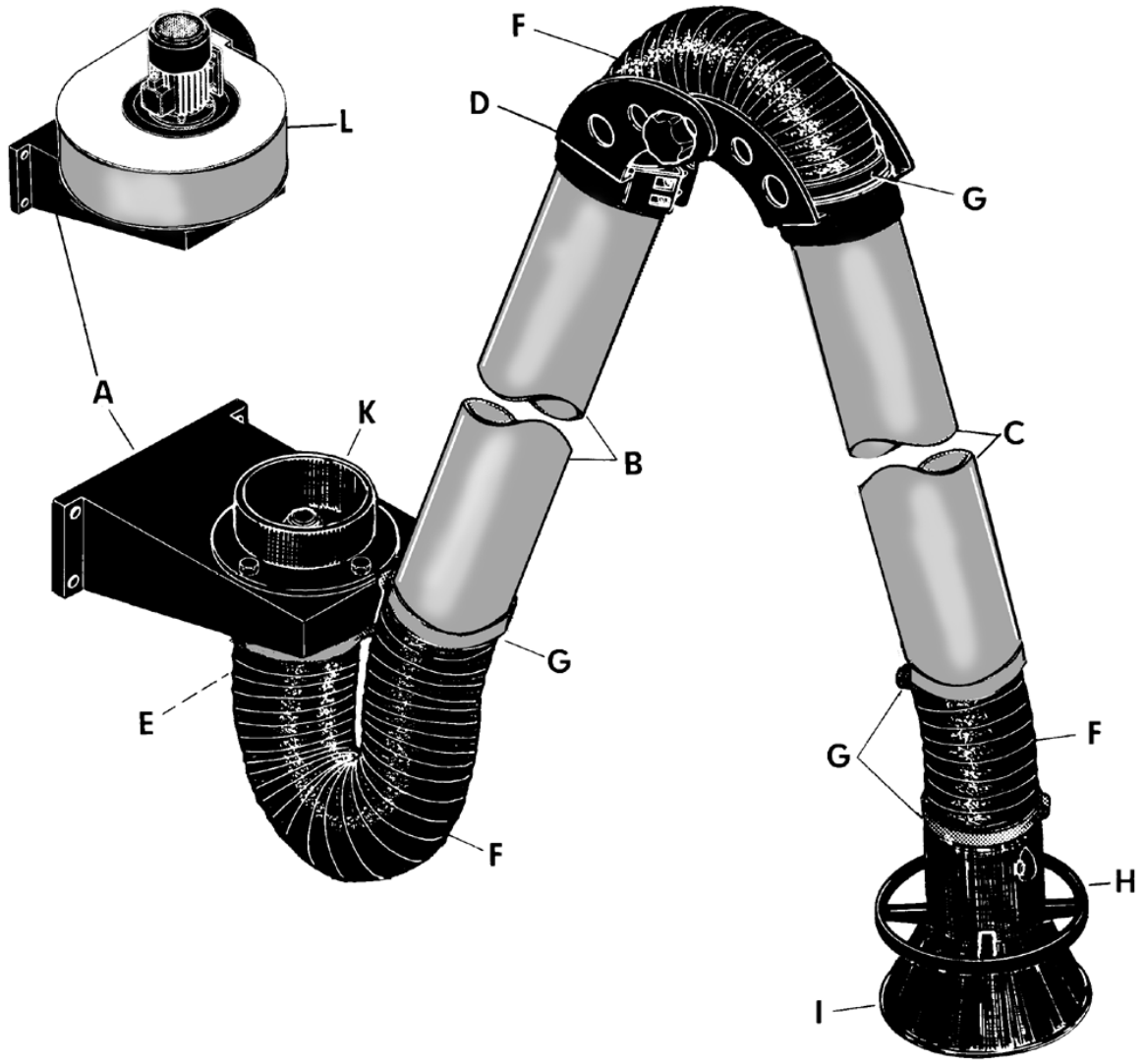
EXTRACTION ARM

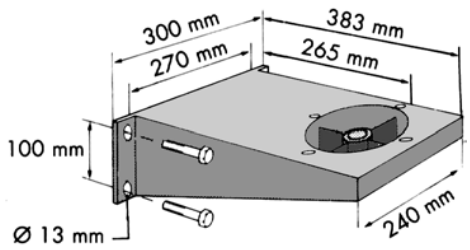
KUA-2, -3, -4.



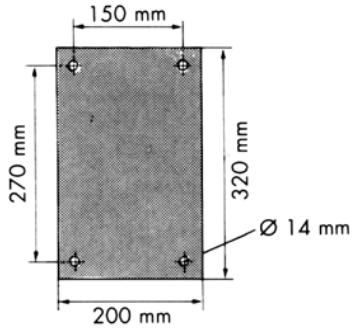
Pos no	DESCRIPTION	Pos no	DESCRIPTION
A	Mounting bracket	G	Jubilee clip
B	Inner arm	H	Hood collar
C	Outer arm	I	Hood
D	Hinged joint	K	Spigot
E	Rubber collar	L	Fan
F	Hose		

Mounting instructions

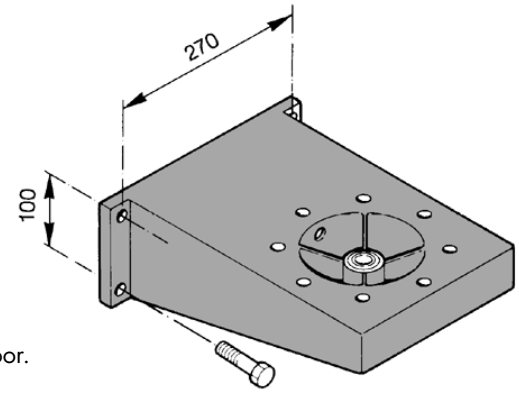
Wall mounting bracket for KUA



Mounting plate PA-110, 220

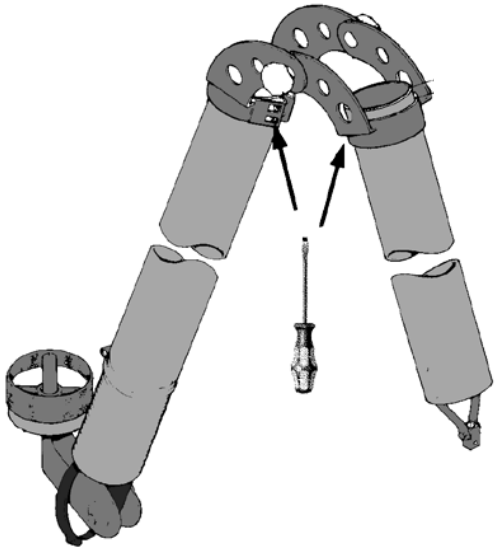


1. Bolt mounting bracket to wall.

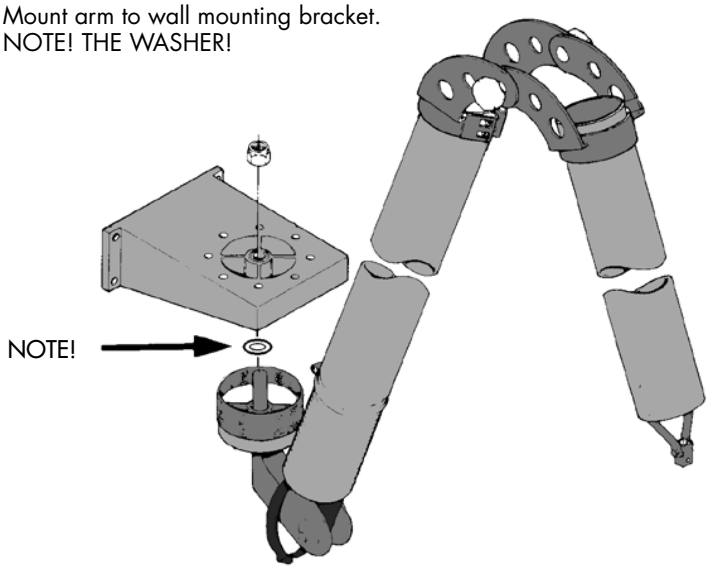


Recommended mounting height 2.2-3 m from floor.

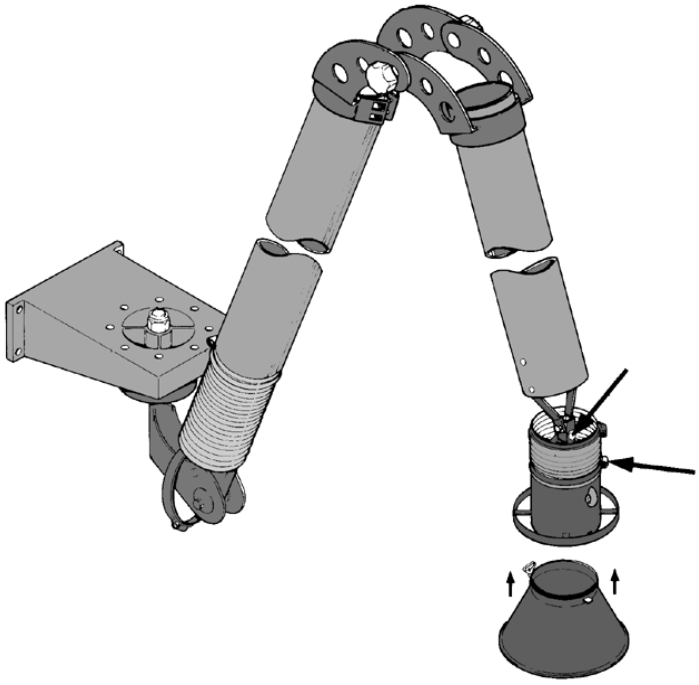
2. Attach inner arm to outer arm by means of hinged joint and fit rubber collar to inner arm.



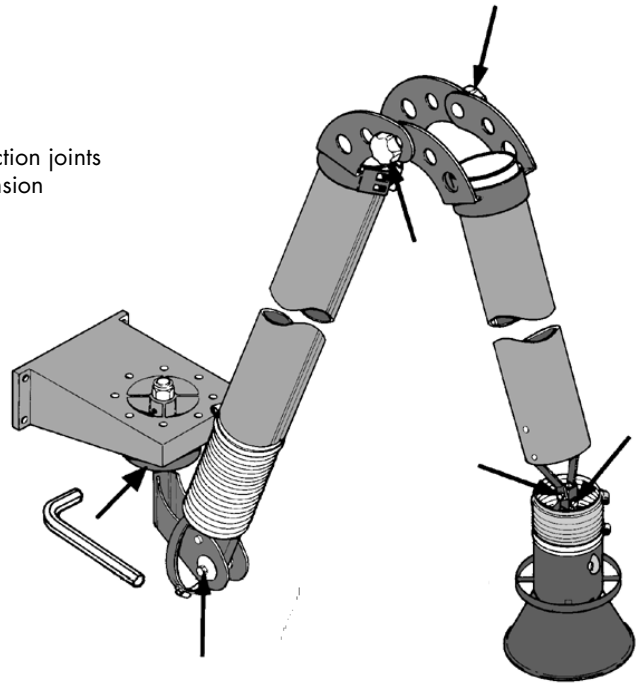
3. Mount arm to wall mounting bracket.
NOTE! THE WASHER!

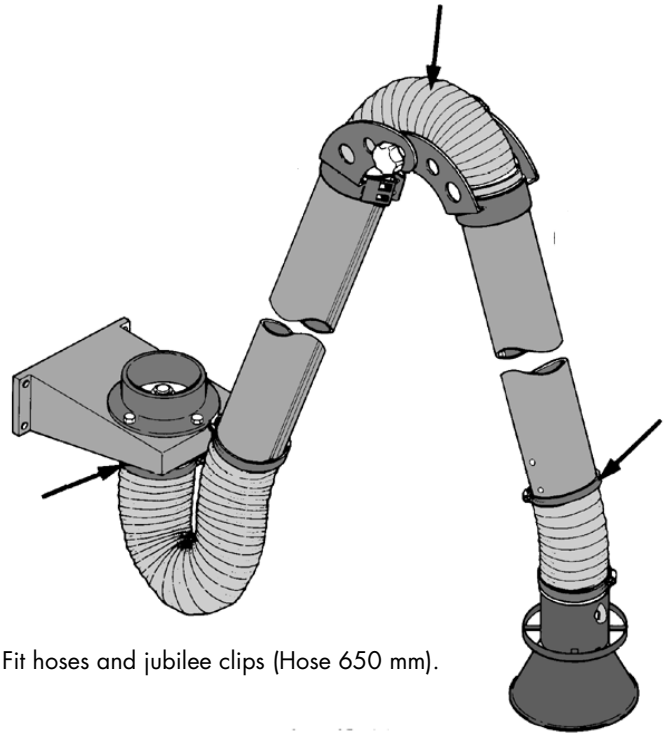


4. Fit hose, jubilee clips, hood collar and hood to outer arm (Hose 400 mm).

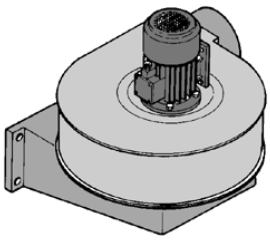


5. Adjust all friction joints to correct tension



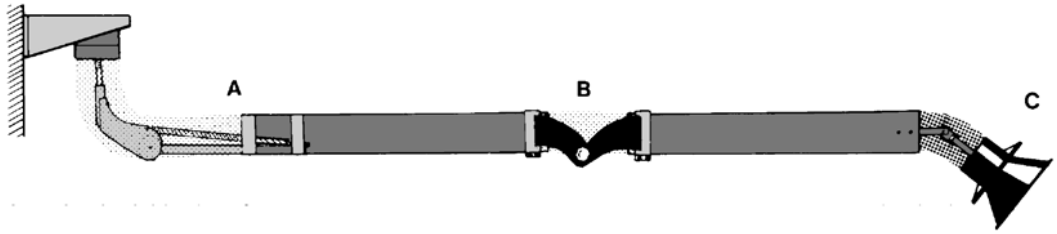


6. Fit hoses and jubilee clips (Hose 650 mm).



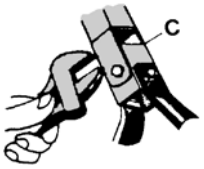
7. Fit either spigot or fan to mounting bracket.

MAINTENANCE INSTRUCTION



A. If the arm will not stay in the required position:

1. Loosen the hose at A.
2. Pull the extractor out to its full length and angle it horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.
3. If the arm is difficult to move sideways or moves on its own sideways, then adjustments must be made to the friction collar. This is done by either loosening or tightening the screw.Use an allen key.



B. If the outer arm will not stay in the required position:

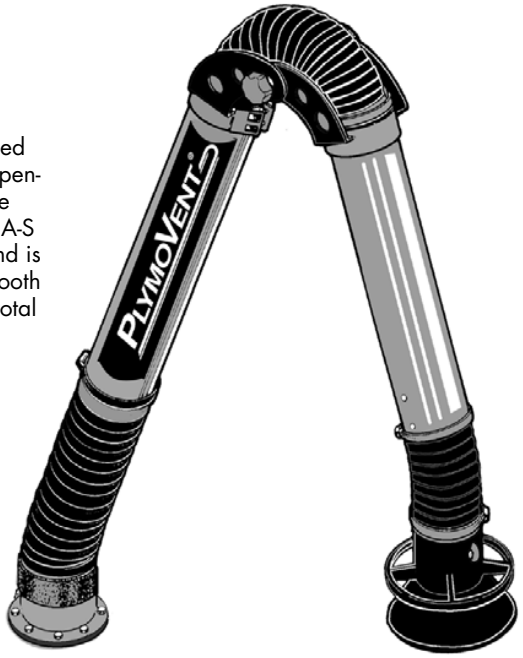
1. Angle the outer arm horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.

C. If the hood will not stay in the required position:

1. Loosen the hose at C.
2. Adjust the friction (see picture) until the hood will stay in the exact position.

	TECHNICAL DESCRIPTION	
Ball-bearing jointed extraction arm - Standing (KUA-S)		

KUA - Standing

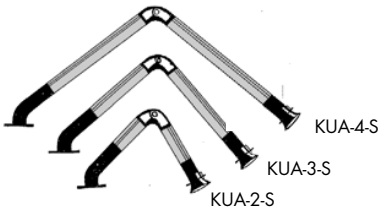


The PlymoVent ball-bearing jointed extraction arm – KUA-S – is a flexible and efficient extractor for dust, welding fumes, soldering fumes, oilmist, fumes from solvents etc. Ideal for many problem areas. The outer and inner arm are coupled by an externally mounted elbow joint for which we have a patent application pending. This external joint is adjusted by hand without the need for any tools. The lower spring-assisted joint supported in a double ball-bearing mount, gives KUA-S a smooth, flexible movement. The KUA-S reaches above its mounting height and is manoeuvrable through 360°. Both outer and inner arms are made of light, smooth aluminium tubing. This not only makes the arm rugged but also minimises the total weight and noise level, even at high extraction rates.

Delivery
The arm is delivered complete with mounting flange.

Advantages
- Easy to move thanks to the ball-bearing mountings and spring assistance.
- Inner and outer arms made from aluminium tubing give increased mechanical strength.
- External, middle joint simplifies adjustments.
- Easy-to-reach ring handle ensures simple positioning of the hood.
- Standard stanchion for ceiling, floor and wall mounting makes installation easy.
- Reaches up to 6 m with stanchions PA-110 or PA-220.
- Rugged construction.

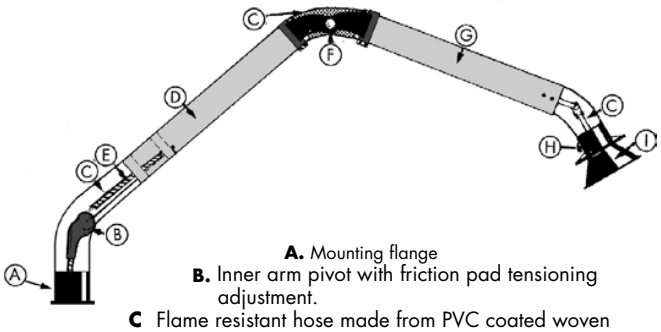
Technical data



Standing model.
Flange mounted.
2 m, 3 m and 4 m reach.
Flange included.

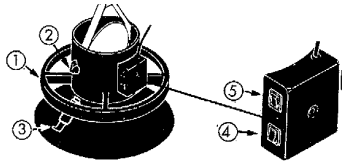
Prod. no.	Max. working radius m	Hose diameter mm	Recommended airflow m³/h
KUA-2-S	2,0	160	800 – 1200
KUA-3-S	3,0	160	800 – 1200
KUA-4-S	4,0	160	800 – 1200

Components and operation

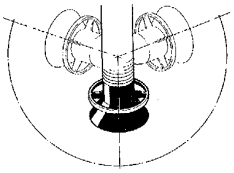


A. Mounting flange
B. Inner arm pivot with friction pad tensioning adjustment.
C Flame resistant hose made from PVC coated woven polyamide with internal steel spiral.
D Aluminium inner arm.
E Tensioned support spring.
F Externally adjustable elbow joint (patent application pending).
G Aluminium outer arm.
H Universal joint with hood collar and shut-off damper.
I Hood, constructed from sheet steel, includes safety mesh and quick-fit coupling. Hood opening Ø300 mm. 360° ring handle Ø300mm.

Maneuvering
1. Ring handle for positioning of the hood. Can be reached from all sides.
2. Damper control knob.
3. Quick-fit catch for simple exchange of extension hose and hood.
4. Switch for light cartridge (see accessories HL-20/24).
5. Switch for manual start/stop of fan or damper (see accessories SA-24, ES-90 or ASE-12).

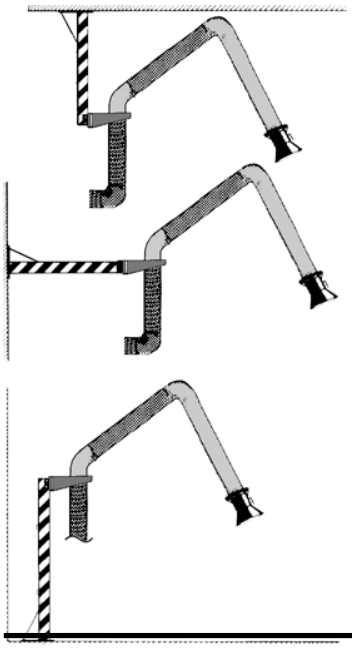


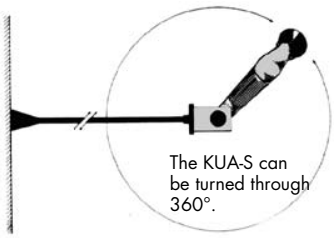
Hood operation
The black, enamelled ano-dised metal hood can be angled 110° forwards, backwards and to the sides. Large, 360°, ring handle, Ø300 mm.

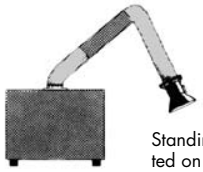


Mounting examples

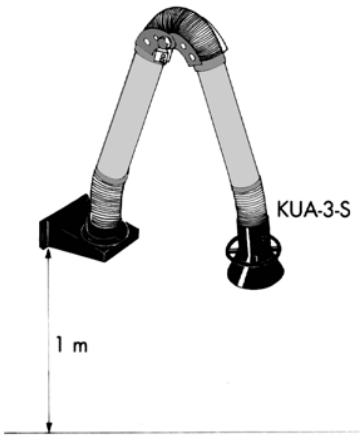
KUA-S with stanchion PA-110 or PA-220







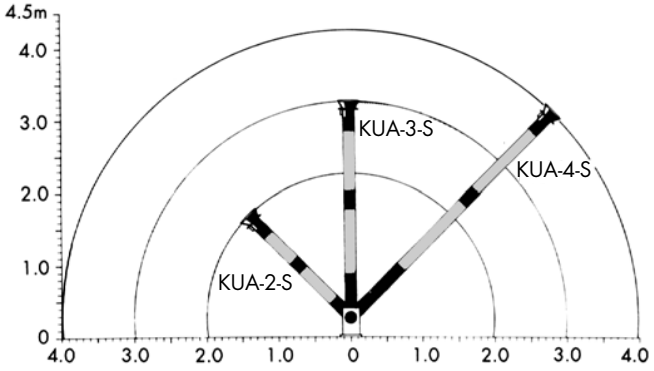
Standing version mounted on a filter.



The standing version KUA-S can easily be mounted at a lower level without affecting the arm's reach. If KUA-S is to be wall mounted, the mounting bracket KUA-X-03 must be ordered separately.

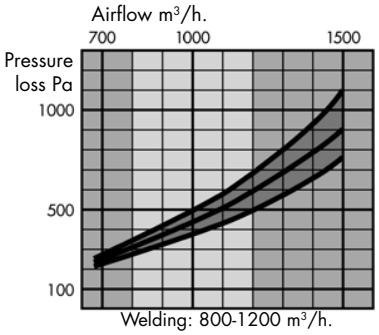
Working radius for KUA -2 -3 -4 -S

Maximum reach with KUA -2 -3 -4 -S



Pressure loss

The pressure loss diagram below shows the average pressure loss through the KUA-S. The presure loss can vary within the shaded area.

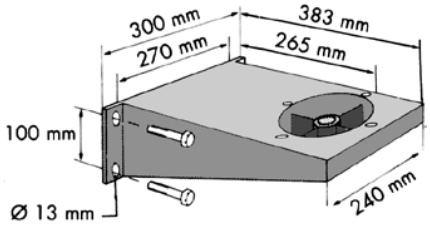


Welding: 800-1200 m³/h.

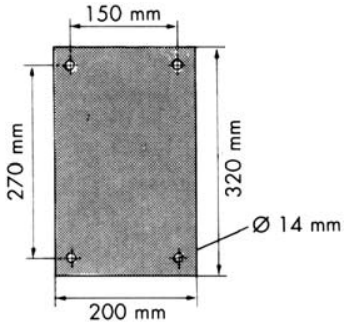
The following aspects affect the pressure loss in the KUA-S arm:

1. The length of the arm: 2, 3 or 4m.
2. The air volume.
3. The bends in the arm.

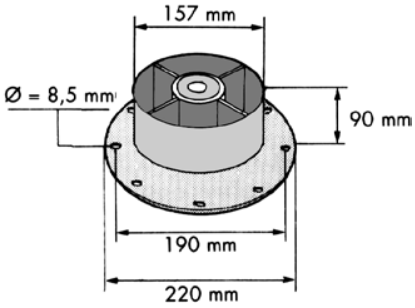
Wall mounting bracket for KUA-S



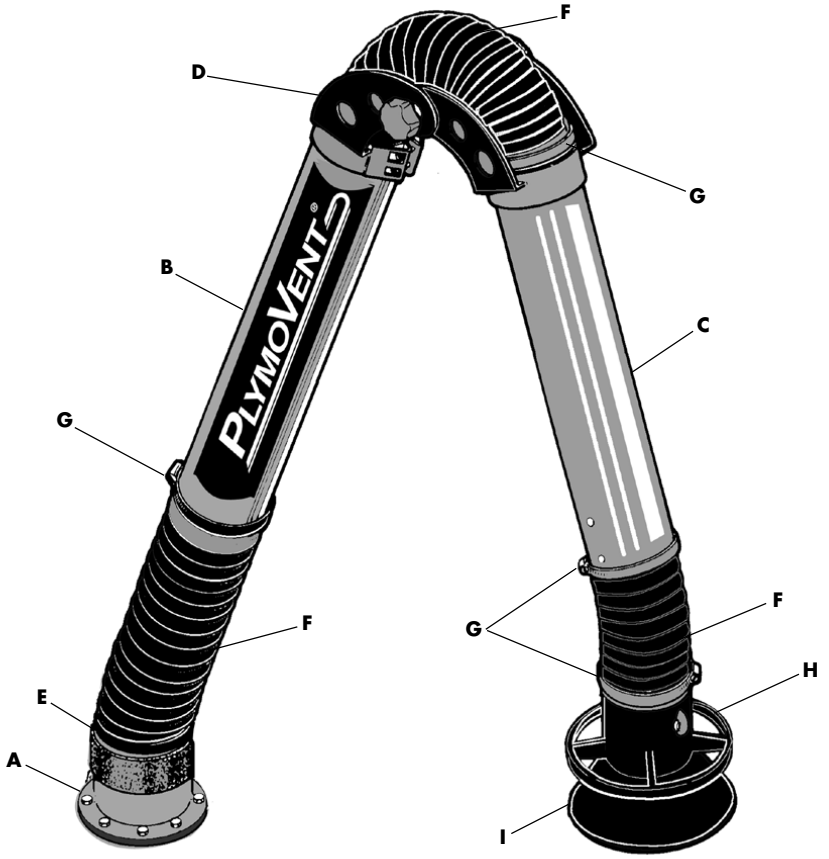
Mounting plate PA-110, 220



Mounting flange for KUA-S

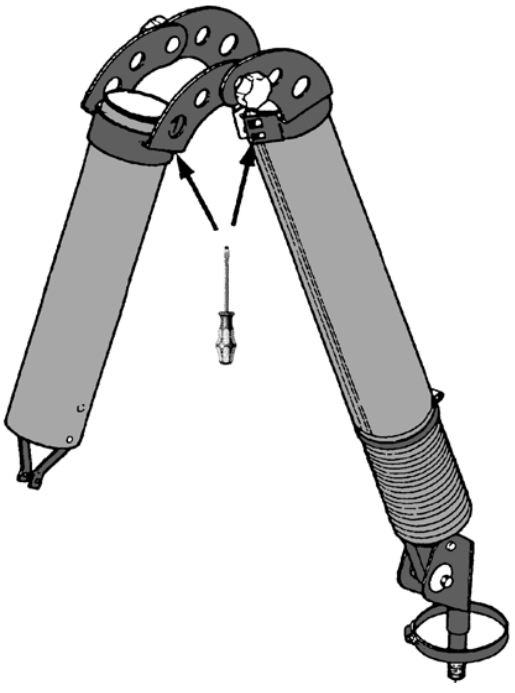


	MOUNTING INSTRUCTION	
KUA-2-S, -3-S, -4-S		

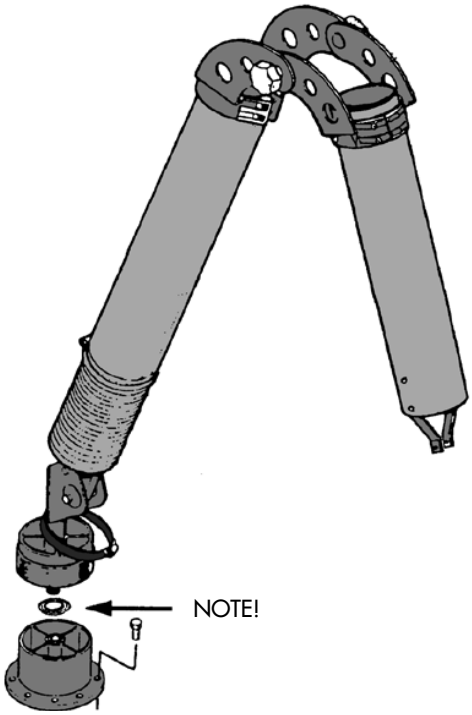


Pos no	DESCRIPTION
A	Mounting flange
B	Inner arm
C	Outer arm
D	Hinged joint
E	Rubber collar
F	Hose
G	Jubilee clip
H	Hood collar
I	Hood

Mounting instruction

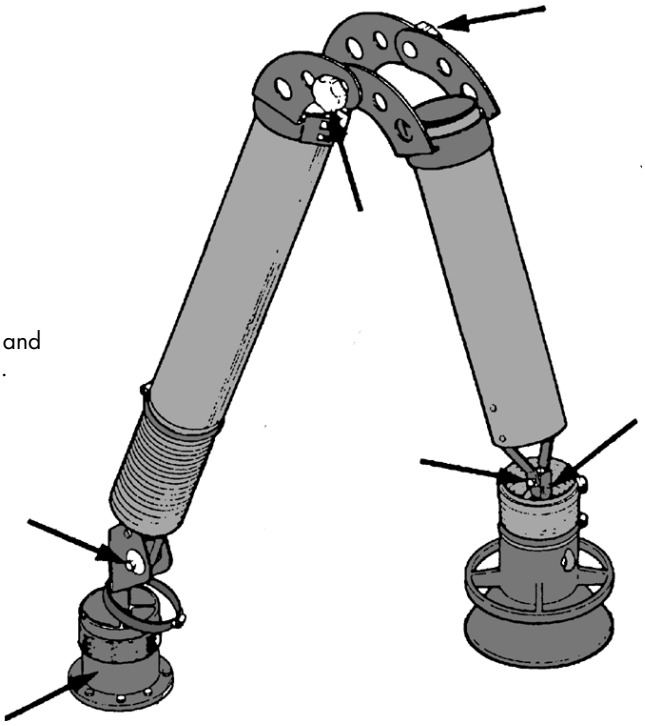


1. Attach inner arm to outer arm by means of hinged joint.

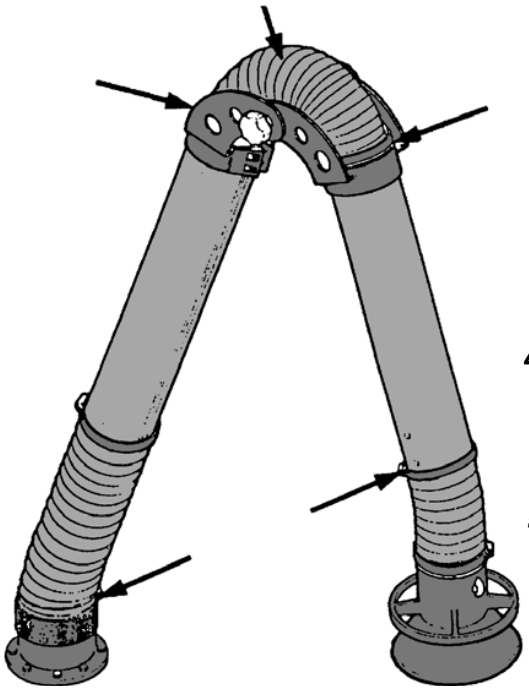


2. Mount the flange on the filter and the rubber collar on the inner arm. Then mount the arm on the filter.

NOTE! THE WASHER!

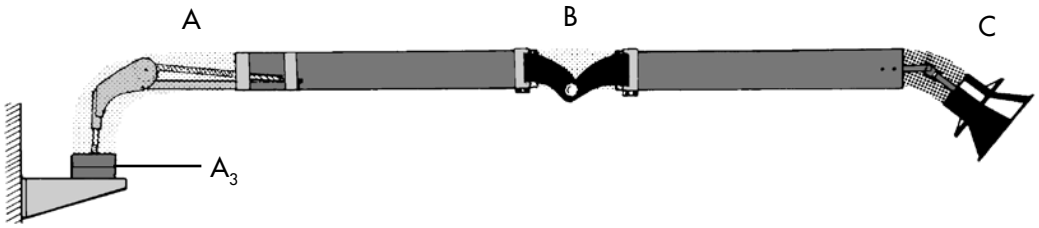


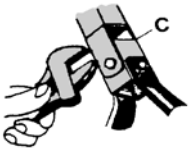
3. Fit hose, jubilee clips, hood collar and hood to outer arm (Hose 400 mm).



4.Adjust all friction joints to correct tension

5. Fit hoses and jubilee clips (Hose 650 mm).





A. If the arm will not stay in the required position:

1. Loosen the hose at A.
2. Pull the extractor out to its full length and angle it horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.
3. If the arm is difficult to move sideways or moves on its own sideways, then adjustments must be made to the friction collar. This is done by either loosening or tightening the screw.Use an allen key.

B. If the outer arm will not stay in the required position:

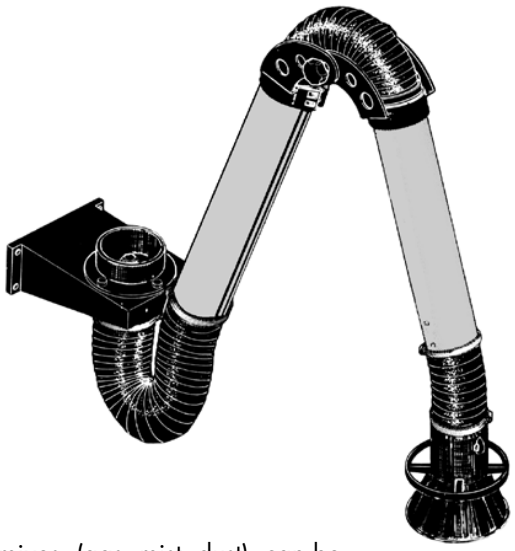
1. Angle the outer arm horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.

C. If the hood will not stay in the required position:

1. Loosen the hose at C.
2. Adjust the friction (see picture) until the hood will stay in the exact position.

	TECHNICAL DESCRIPTION	
Ball-bearing jointed extraction arm KUA-ATEX		

KUA-ATEX



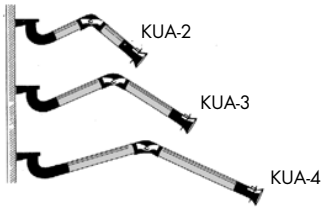
The PlymoVent ball-bearing jointed extraction arm – KUA – is a flexible and efficient extractor for dust, welding fumes, soldering fumes, oilmist, fumes from solvents etc. Ideal for many problem areas. The outer and inner arm are coupled by an externally mounted elbow joint for which we have a patent application pending. This external joint is adjusted by hand without the need for any tools. The lower spring-assisted joint supported in a double ball-bearing mount, gives KUA a smooth, flexible movement. The KUA reaches above its mounting height and is manoeuvrable through 360°. Both outer and inner arms are made of light, smooth aluminium tubing. This not only makes the arm rugged but also minimises the total weight and noise level, even at high extraction rates.

Area of use
This product is intended to use in environments where explosive air mixes, (gas, mist, dust), can be present.

The product may only be used where the rotation is limited to <360 degrees.

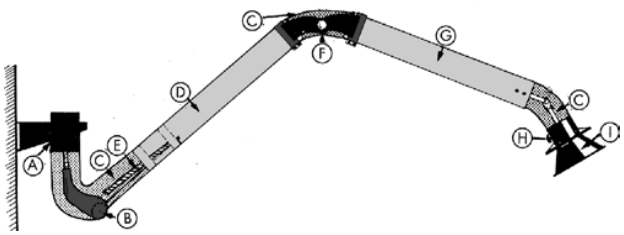
WARNING!
The product may not be used to evacuate dusts with *MIE-value <5mj.
*MIE = Minimum Ignition Energy

Technical data



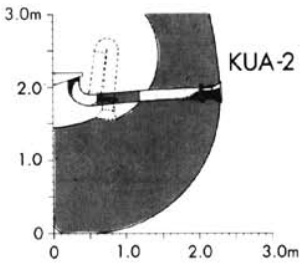
Lenght:		Weight:	Air flow:
KUA-2-ATEX	2m	20 kg	800-1200 m3/h
KUA-3-ATEX	3m	23,5 kg	800-1200 m3/h
KUA-4-ATEX	4m	25 kg	800-1200 m3/h
Diameter tubes/hoses	160mm		
Equipment group	II		
Equipment category	2		
Zon, gas/solvent	1		
Zone, dust	21		
Usage temperature	Max. 90degrees C		

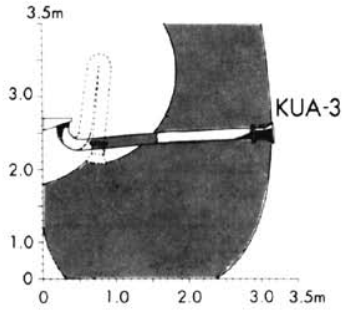
Components and operation

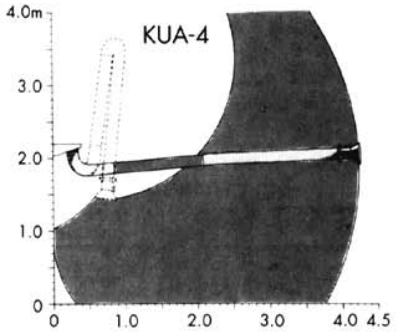


A Ball-bearing mounting bracket complete with Ø160 mm inlet spigot.
B Inner arm pivot with friction pad tensioning adjustment.
C Antistatic polyurethane hose.
D Aluminium inner arm.
E Tensioned support spring.
F Externally adjustable elbow joint (patent application pending).
G Aluminium outer arm.
H Universal joint with hood collar and shut-off damper.
I Hood, constructed from sheet steel, includes safety mesh and quick-fit coupling. Hood opening Ø300 mm. 360° ring handle Ø300mm.

Working radius for KUA-2-3-4

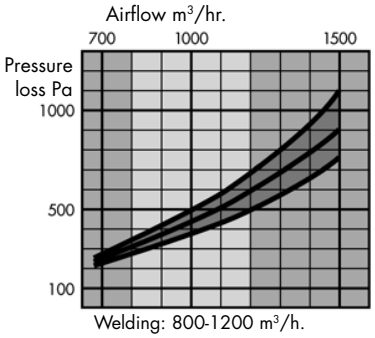






Pressure loss

The pressure loss diagram below shows the average pressure loss through the KUA. The presure loss can vary within the shaded area.

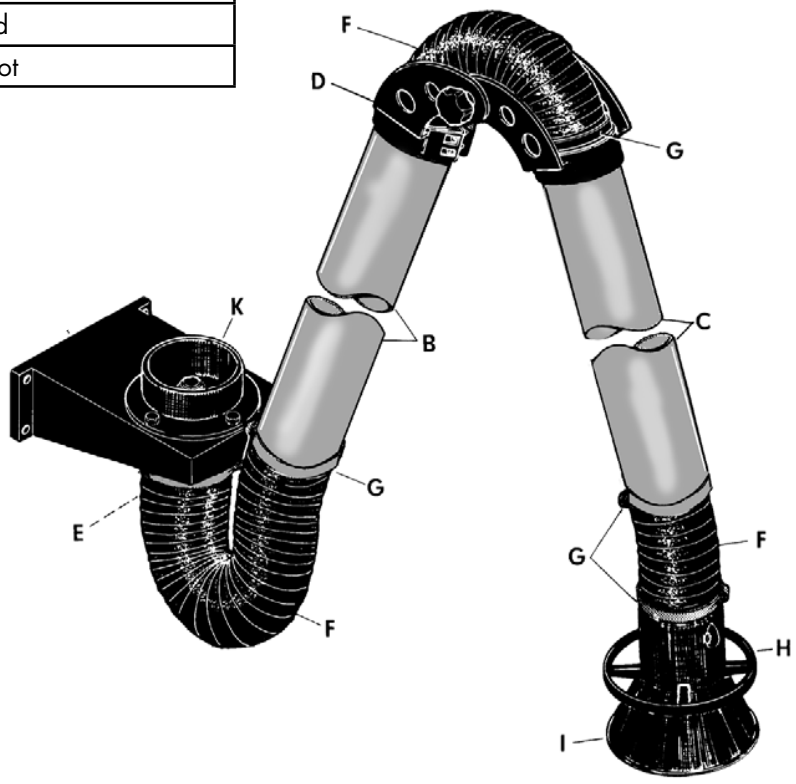


The following aspects affect the pressure loss in the KUA arm:

1. The length of the arm: 2, 3 or 4m.
2. The air volume.
3. The bends in the arm.

MOUNTING INSTRUCTION

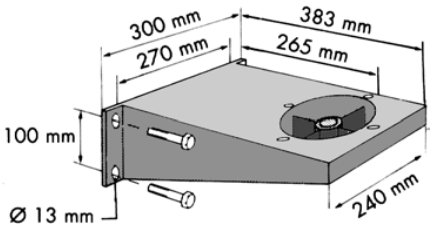
pos no	**Description**	pos no	**Benämning**
A	Mounting bracket	F	Hose
B	Inner arm	G	Jubilee clip
C	Outer arm	H	Hood collar
D	Hinged joint	I	Hood
E	Rubber collar	K	Spigot



MOUNTING INSTRUCTION

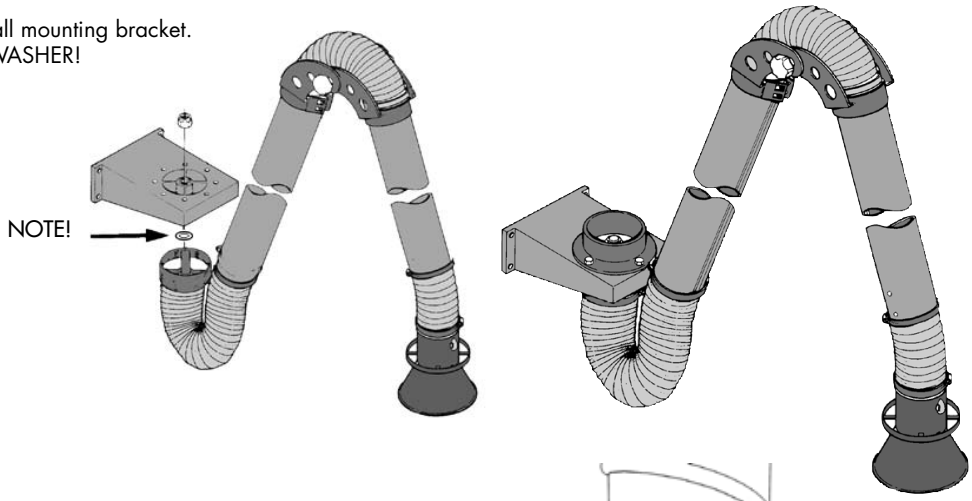
1. Bolt mounting bracket to wall.

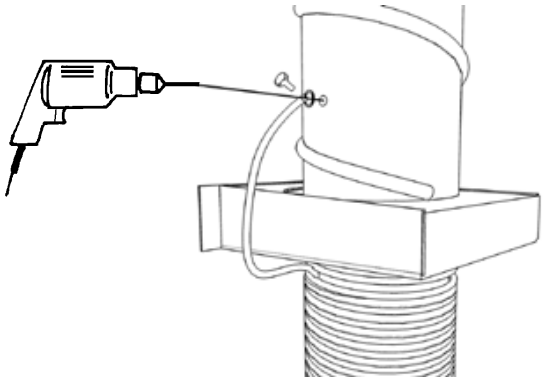
Recommended mounting height 2.2-3 m from floor.

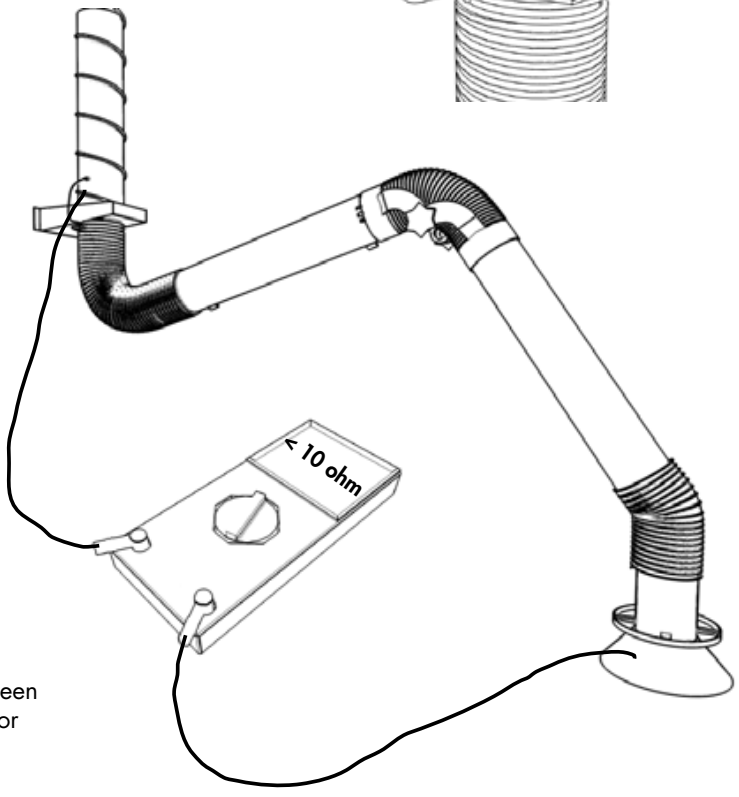


Mount arm to wall mounting bracket.
NOTE! THE WASHER!

NOTE!



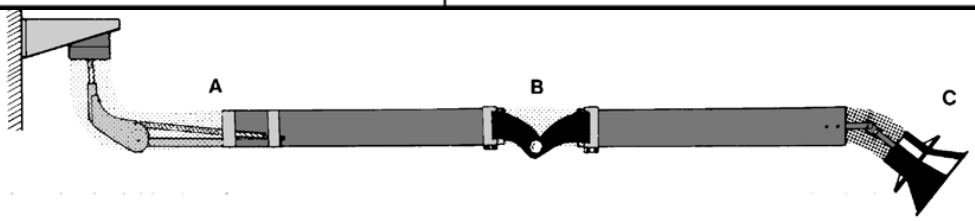




Check ground connection between hood and duct with instrument or buzzer

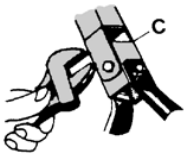
MAINTENANCE INSTRUCTION

Ball-bearing jointed extraction arm
KUA-ATEX



A. If the arm will not stay in the required position:

1. Loosen the hose at A.
2. Pull the extractor out to its full length and angle it horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.
3. If the arm is difficult to move sideways or moves on its own sideways, then adjustments must be made to the friction collar. This is done by either loosening or tightening the screw.Use an allen key.



B. If the outer arm will not stay in the required position:

1. Angle the outer arm horizontally. Loosen the friction brake until the arm drops towards the floor. Tighten until it no longer drops.

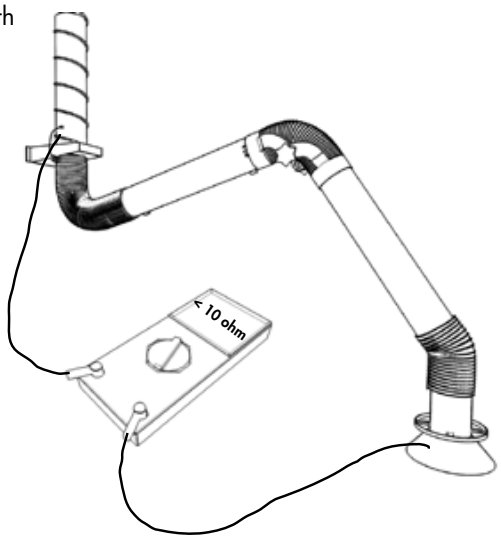
C. If the hood will not stay in the required position:

1. Loosen the hose at C.

2. Adjust the friction (see picture) until the hood will stay in the exact position.

D. Check

1. Check on a regular basis ground connection between hood and duct with instrument or buzzer
2. When replacing hoses the ground connection must be checked.



Declaration of conformity

We, PlymoVent AB, hereby declare under sole responsibility that the product KUA-ATEX conforms to the following standards: EN 292-1, EN 292-2, EN 50014 and EN 13463-1 according to the directive, 98/37/EG and ATEX 94/9/EC. The product is classified to category 2, group IIB and can be used in zone 1 (gas, solvent) and 21 (dust).

This declaration will cease to be valid if any modifications are made to the product without our express approval.

PlymoVent AB
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921 28 LYCKSELE

Lennart Wallberg
R&D Manager

KUA/EN/5/8