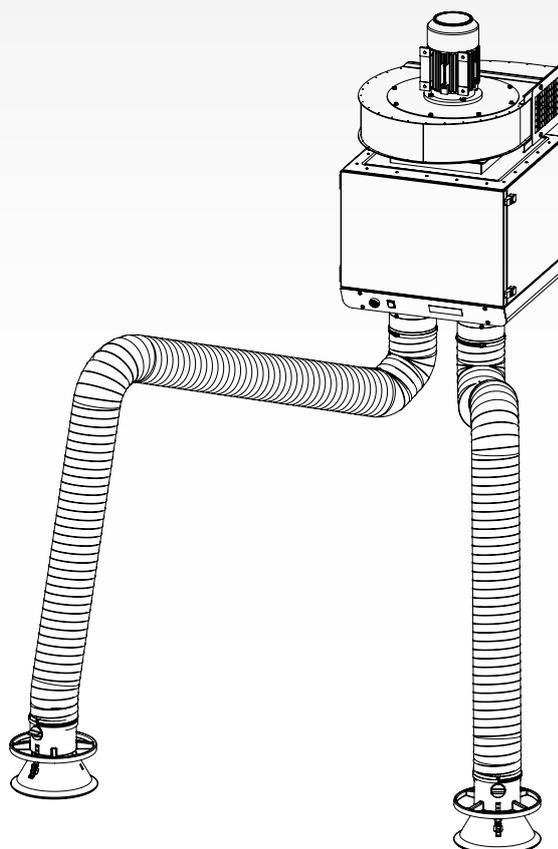


Stationary welding fume extractor with two flexible arms

**DUALGO | DUALGO<sup>PLUS</sup>**



EN

Installation and user manual

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## TABLE OF CONTENTS

PREFACE.....	5
1 INTRODUCTION.....	5
2 PRODUCT DESCRIPTION .....	6
3 SAFETY INSTRUCTIONS .....	6
4 INSTALLATION .....	8
5 USE .....	9
6 MAINTENANCE .....	10
7 TROUBLESHOOTING .....	11
8 SPARE PARTS .....	12
9 ELECTRICAL DIAGRAM .....	12
10 DISPOSAL.....	12
CE DECLARATION.....	12

### EN | ORIGINAL INSTRUCTION

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*To improve comprehension for people whose first language is not English, we have written parts of this manual in Simplified Technical English (STE). STE is a controlled language originally developed for aerospace industry maintenance manuals. It offers a carefully limited and standardized subset of English, along with specific writing rules.*

## 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, use, 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:

	<b>TIP</b> Suggestions and recommendations to simplify carrying out tasks and actions.
	<b>ATTENTION</b> A remark with additional information for the user. A remark brings possible problems to the user's attention.
	<b>CAUTION!</b> Procedures, if not carried out with the necessary caution, could damage the product, the workshop or the environment.
	<b>WARNING!</b> Procedures which, if not carried out with the necessary caution, may damage the product or cause serious personal injury.
	<b>CAUTION!</b> Denotes risk of electric shock.
	<b>WARNING!</b> Fire hazard! Important warning to prevent fire.
	<b>WARNING!</b> Explosion hazard! Important warning to prevent explosions.
	<b>Personal protective equipment (PPE)</b> Instruction to use respiratory protection when you do service, maintenance and repair jobs, as well as during functional testing. We recommend to use a half-face respirator according to EN 149:2001 + A1:2009, class FFP3 (Directive 89/686/EEC).
	<b>Personal protective equipment (PPE)</b> Instruction to use protective gloves when you do service, maintenance and repair jobs.

### 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. He will always be willing to help you. Make sure you have the following specifications at hand:

- product name
- serial number

You can find these data on the identification plate.

### Product indications

Unless specifically stated, the contents of this manual applies to the DualGo as well as the DualGo<sup>plus</sup>.

## 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 DualGo is a stationary filter unit with a fan and two extraction arms. It features a pre filter cassette and a HEPA filter cassette (both disposable).

#### 1.2.1 Intensity of use

The DualGo is suitable for occasional to regular welding activities<sup>1</sup>.

### 1.3 Options and accessories

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

- OL-250/FUA-4700 | Outlet transition from rectangular to round Ø 250 mm
- OL-315/FUA-4700 | Outlet transition from rectangular to round Ø 315 mm
- SAS-315 straight | Silencer (straight) Ø 315 mm
- SAS-315 elbow 90° | Silencer (elbow) Ø 315 mm

### 1.4 Technical specifications

	DualGo	DualGo <sup>plus</sup>	
<b>Physical dimensions and properties</b>			
Material (housing)	electro-zinc coated steel		
Weight (excl. arms)	125 kg (276 lbs)	126,5 kg (279 lbs)	
<b>Filters</b>			
Pre filter cassette:			
- material	polyester	polyester	
- filter surface	1 m <sup>2</sup> (10¾ ft <sup>2</sup> )	1 m <sup>2</sup> (10¾ ft <sup>2</sup> )	
- filter classification	ISO Coarse 70% according to ISO 16890	ISO Coarse 70% according to ISO 16890	
HEPA filter cassette:			
- material	glass fibre	glass fibre	
- filter surface	26 m <sup>2</sup> (280 ft <sup>2</sup> )	26 m <sup>2</sup> (280 ft <sup>2</sup> )	
- efficiency class	E12 according to EN 1822-1:2009	E12 according to EN 1822-1:2009	
Washable	no	no	
<b>Extraction arm</b>			
Type	hose tube arm (Economy Arm)	metal tube arm (KUA)	
Length	2, 3 or 4 m	2, 3 or 4 m	
Diameter	Ø 160 mm (6¼ in.)	Ø 160 mm (6¼ in.)	
Weight (per arm)	<b>Type</b> <b>Weight</b>	<b>Type</b> <b>Weight</b>	<b>Type</b> <b>Weight</b>
	EA-2/H 11 kg (24½ lbs)	KUA-160/2H 13,5 kg (30 lbs)	
	EA-3/H 13 kg (28½ lbs)	KUA-160/3H 17 kg (37½ lbs)	
	EA-4/H 15 kg (33 lbs)	KUA-160/4H 18 kg (40 lbs)	

1. approx. 1 coil of solid wire or 7,5 kg (16½ lbs) of electrodes per workplace per month

Fan	
Fan type	radial
Extraction capacity	max. 1700 m <sup>3</sup> /h (1000 CFM)
Fan speed	2800 rpm
Noise level	79 dB(A) according to ISO 3746
- with silencer SAS-315	70 dB(A) according to ISO 3746
Electrical data	
Power consumption	2,2 kW (3 HP)
Connection voltage	400V/3ph/50Hz
Switch box	24V
Motor design	IEC
Energy efficiency	IE3 / premium
Mains cord	not included
Plug	not included
Welding fume class	
W3	according to ISO 15012-1:2013

#### 1.4.1 Dimensions

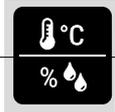
Refer to Fig. I on page 13.



#### 1.5 Working range

Refer to Fig. II on page 13.

#### 1.6 Ambient and process conditions



Process temperature:	
- min.	5°C (41°F)
- nom.	20°C (68°F)
- max.	70°C (158°F)
Max. relative humidity	90%
Suitable for outdoor use	no

Refer to the available product data sheets for detailed product specifications.

#### 1.7 Transport of the unit

You cannot hold the manufacturer liable for any transportation damage after delivery of the product.

- Handle the filter unit and the accompanying extraction arms with care.
- Completely dismantle the extraction arms before transport. Dismount the arms by executing the mounting procedure in reverse order. Subsequently the filter unit and the arms can be transported on a pallet in the original packing.
- To prevent damage, make sure that the filter unit and the arms cannot shift on the pallet.

## 2 PRODUCT DESCRIPTION

### 2.1 Components

The product consists of the following main components and elements:

Fig. 2.1

- A Fan + motor
- B HEPA filter cassette
- C Pre filter cassette
- D Extraction arm (2) (shown: hose tube arm)
- E Switch box
- F Shut-off damper

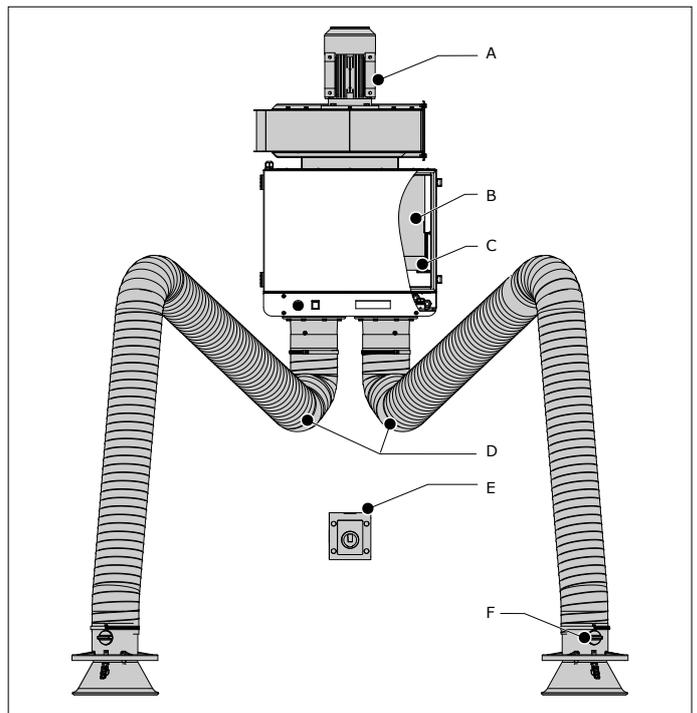


Fig. 2.1 Main components and elements

### 2.2 Operation



The DualGo works in accordance with the recirculation principle. Welding fume is extracted through the hood of the connected extraction arm by the built-in fan. The polluted air passes the pre filter cassette and is cleaned by the HEPA filter cassette. The cleaned air is returned in the workshop through the outlet of the fan.

#### 2.2.1 Indication of filter replacement

The DualGo has a service indicator that monitors the airflow. It gives an acoustic signal to replace the filter(s).

## 3 SAFETY INSTRUCTIONS

### 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. Observe all applicable 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.
- Do not change the order of the steps to perform.
- Keep the manual with the product.

## Users

- The use of this product is exclusively reserved to authorised, trained and qualified users. Temporary personnel and personnel in training can only use the product under supervision and responsibility of skilled engineers.
- 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.
- The product is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children must be supervised not to play with the product.

## Intended use<sup>2</sup>

The product has been designed exclusively for extracting and filtering gases and particles which are released during the most common welding processes. 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

Do not change the specifications given in this manual.

## Modifications

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

## Installation

- The installation of this product is exclusively reserved to authorised, trained and qualified engineers.
- The electric connection must be executed in accordance with the local codes and 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.
- Use sufficient climbing gear and safety guards when working on a higher level than 2 metres (local restrictions may apply).
- Do not 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 workspace is well illuminated.
- Stay alert and keep your attention to your work. Do not install the product when you are under the influence of drugs, alcohol or medicine.
- Air containing particles such as chromium, nickel, beryllium, cadmium, lead etc., should never be recycled. This air must always be brought outside the working area.

## Use



### WARNING!

Fire hazard! Do **not** use the product for:

- polishing applications in combination with grinding, welding or any other application that generate sparks (fibers from polishing or abrasive flap disks are highly flammable and pose a high risk of filter fires when exposed to sparks)
- arc-air gouging
- extracting and/or filtering flammable, glowing or burning particles or solids or liquids
- extracting and/or filtering of aggressive fumes (such as hydrochloric acid) or sharp particles
- extracting and/or filtering dust particles which are released when welding surfaces treated with primer
- sucking cigarettes, cigars, oiled tissues, and other burning particles, objects, and acids



### WARNING!

Explosion hazard! Do **not** use the product for explosion-hazardous applications, e.g.:

- aluminium laser cutting
- grinding aluminium and magnesium
- explosive environments or explosive substances/gases



### WARNING!

Do **not** use the product for:

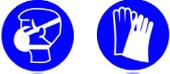
- extraction of hot gases (more than 70°C/158°F continuously)
- flame spraying
- oil mist
- heavy oil mist in welding fume
- extraction of cement, saw dust, wood dust etc.

- Inspect the product and check it for damage. Verify the functioning of the safety features.
- During use, always use Personal Protective Equipment (PPE) to avoid injury. This also applies for persons who enter the work area.
- 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.
- Make sure that the workshop, in the vicinity of the product, contains sufficient approved fire extinguishers (suitable for fire classes ABC).
- Do not leave any tools or other objects in or on the unit.
- The welding current return circuit between the workpiece and the welding machine has a low resistance. Thus avoid connection between the workpiece and the DualGo, so that there is no possibility of the welding current flowing back to the welding machine via the protective earth conductor of the DualGo.

## Service, maintenance and repairs

- Obey the maintenance intervals given in this manual. Overdue maintenance can lead to high costs for repair and revisions and can render the guarantee null and void.
- Always use Personal Protective Equipment (PPE) to avoid injury. This also applies for persons who enter the work area.
- Make sure the room is sufficiently ventilated.
- 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.
- Use sufficient climbing gear and safety guards when working on a higher level than 2 metres (local restrictions may apply).
- Clean the area afterwards.

2. "Intended use" as explained in EN-ISO 12100-1 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.

	<b>ATTENTION</b> Service, maintenance and repairs must be performed in accordance with directive TRGS 560 and TRGS 528 by authorised, qualified and trained persons (skilled) using appropriate work practices.
	<b>ATTENTION</b> Before you carry out service, maintenance and/or repair jobs: - fully disconnect the unit from the mains
	<b>Personal protective equipment (PPE)</b> Wear respiratory protection and protective gloves during service, maintenance and repairs.
	<b>WARNING</b> The industrial vacuum cleaner that you use during service and maintenance must meet dust class H according to EN 60335-2-69 or HEPA class (efficiency $\geq 99.97\%$ at $0.3 \mu\text{m}$ ).

## Control equipment

- switch box

### 4.3 Stationary filter unit

	<b>ATTENTION!</b> Before you install the unit, make sure that the wall is strong enough. Refer to paragraph 1.4 for the weight of the unit.
---	--

- Refer to Fig. III on page 13 for the recommended installation height and the hole pattern of the wall bracket.

To install the wall bracket, do the following.

Fig. 4.1

- The wall bracket is temporarily attached to the unit by a cable tie. Cut the cable tie.
- Install the wall bracket (B) to the wall. Use all 4 mounting points.
- Lift the unit and insert the hooks (A) in the slots of the wall bracket.
- Attach the unit to the wall bracket with the bolts, locknuts and washers (C).

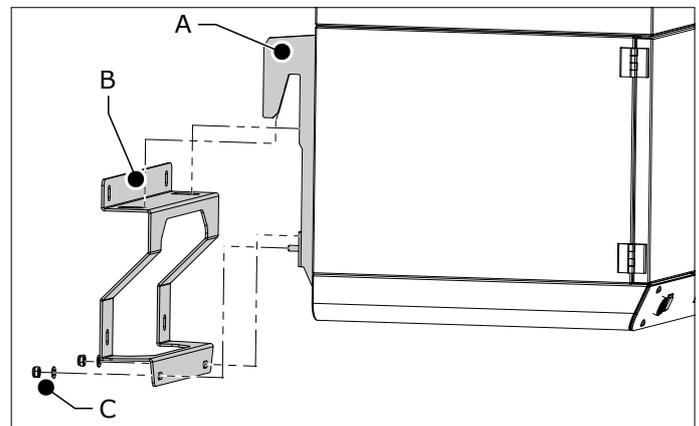


Fig. 4.1 Mounting of the wall bracket

### 4.4 Arm on stationary unit

To install the extraction arms, do the following.

	<b>TIP</b> Do a balance check of the arm before you fasten the hoses. Refer to paragraph 6.3.
---	--

Fig. 4.2

- Remove the locknut M20 (A) from the hinge rod (E).
- In case of a hose tube arm: put the hose tube over the internal rods of the arm.
- Move the hose clamp (F) and the arm swivel ring (incl. rubber collar) (D) over the hinge rod (E).
- Put the washer M20 (C) on the arm swivel ring (D).
- Put the hinge rod (E) in the rotating flange (B).
- Put the hose (G) over the arm swivel ring (D).
- Use the rubber collar to make the connection airtight.
- Attach the hose (G) to the swivel ring (D) with the hose clamp (F).
- Put the locknut M20 (A) on the hinge rod (E) and tighten it.
- Install the assembly to the filter unit with the 8 bolts M6x25 + washers M6.
- Repeat this procedure for the other extraction arm.

## 4 INSTALLATION

### 4.1 Tools and requirements

You need the following tools and requirements to install the unit:

- basic tools
- fork-lift truck



#### 4.1.1 To be sourced locally

- wall mounting hardware<sup>3</sup>
- mains cord 4G1.5 (4x1,5 mm<sup>2</sup>)
- cable gland M20 (2)
- option: plug<sup>4</sup>



### 4.2 Unpacking

Make sure that the product is complete. The package contains:



#### Filter unit

- stationary filter unit, incl. wall bracket
- bolt M10x30 (2) + locknut M10 (2) + washer (4)
- washer M6 (16)
- bolt M6x25 (16)

#### Extraction arm (2)

##### In case of DualGo: hose tube arm (2)

- extraction arm (pre-assembled; excl. hose tube)
- hose tube
- hose clamp (2)
- rotating flange
- arm swivel ring, incl. rubber collar
- extraction hood
- hood collar with safety mesh
- washer M20
- hexagon bolt M6x25 (4)

##### In case of DualGo<sup>plus</sup>: metal tube arm (2)

- extraction arm (pre-assembled)
- rotating flange
- arm swivel ring, incl. rubber collar
- extraction hood
- hood collar with safety mesh
- washer M20
- hexagon bolt M6x25 (4)

3. The type of hardware depends on the wall type

4. Alternative: direct connection to the mains + additional main switch

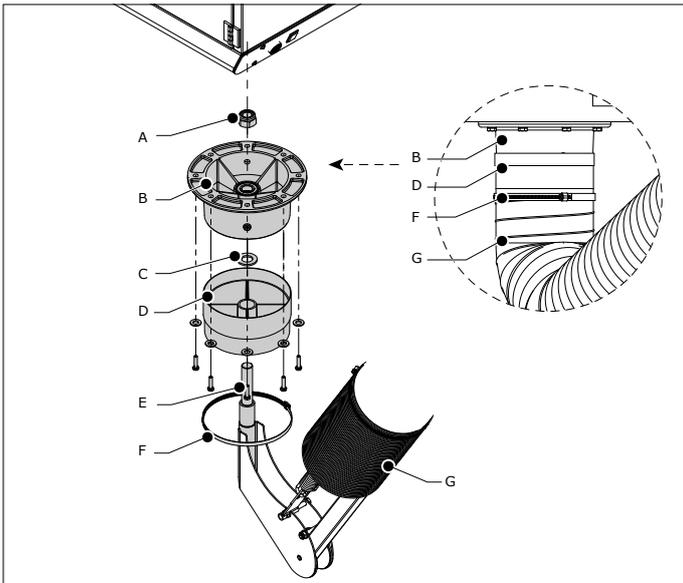


Fig. 4.2 Arm on stationary unit

#### 4.5 Mounting of the hood

To install the extraction hoods, do the following.

*Hose tube arm (Economy Arm): refer to Fig. 4.3*

*Metal tube arm (KUA): refer to Fig. 4.4*

- Loosen the mounting material that is attached to the hood hinge.
- Install the extraction hood (G) with the bolt (F), 2 washers (E), 2 spring washers (D) and a locknut (C).
- Install the hood collar (H) to the hood (G). Fasten it with the clip.
- Install the hose tube (A) to the hood.
- Fasten the hose tube with a hose clamp (B).

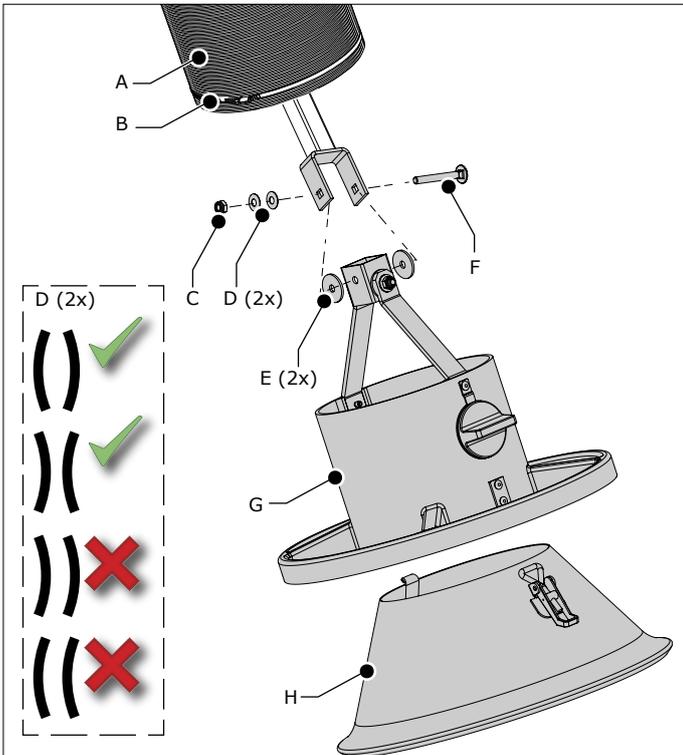


Fig. 4.3 Hood mounting (hose tube arm)

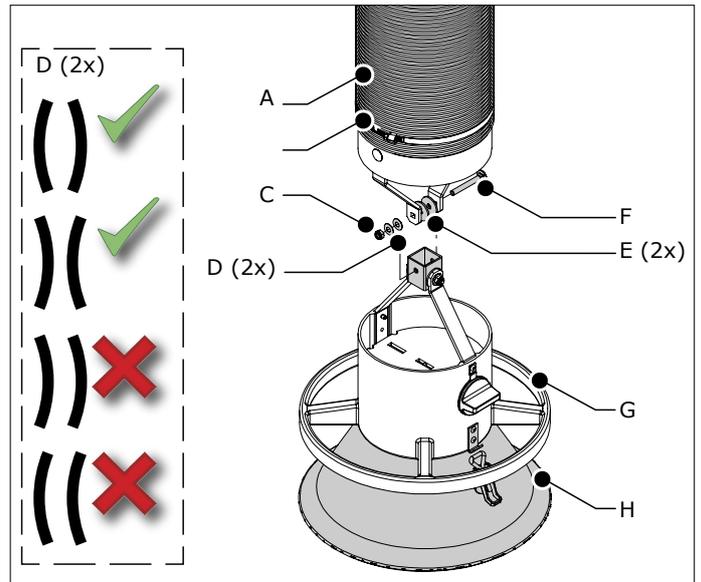


Fig. 4.4 Hood mounting (metal tube arm)

#### 4.6 Switch box

- Install the switch box at an appropriate position.
- Connect the switch box to the filter unit and to the mains in accordance with the separately supplied electrical diagram.



### 5 USE



#### WARNING!

Fire hazard! Do **not** use the product for polishing applications in combination with grinding, welding or any other application that generate sparks.  
**Refer to chapter 3 / Safety instructions / Use.**

#### 5.1 Control panel

The DualGo has a separate switch box to put the unit on and off. Controls and indicators:

Fig. 5.1

- A Buzzer (service indicator)
- B Indicator light
- C Switch box with rotary switch 0-1

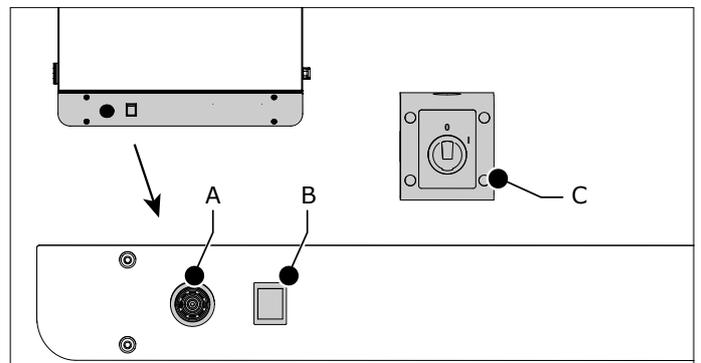


Fig. 5.1 Controls and indicators

#### 5.2 Use

- Position the hood of the connected extraction arm at max. 480 mm (19 in.) from the source of pollution. Refer to Fig. IV on page 13 for the correct position.
- Make sure that the shut-off damper (ref. Fig. 2.1F) is open.

- Put the unit on (ref. Fig. 5.1C).
- Start welding.
- When the welding position changes, move the hood to the correct position in relation to the weld.

	<b>WARNING</b> To keep the welding fume away from the breathing zone of the welder, make sure that all fume is extracted through the hood.

- Put the unit off approx. 20 seconds after you have finished welding.

When the airflow is too low during use, the buzzer (ref. Fig. 5.1A) emits an acoustic alarm. Refer to chapter 7 to find the possible cause and the solution.

	<b>ATTENTION</b> If you do not replace the pre filter and/or the HEPA filter cassette in time, the airflow (extraction capacity) further drops.

## 6 MAINTENANCE

### 6.1 Periodic maintenance

The product has been designed to function without problems for a long time with a minimum of maintenance. In order to guarantee this some simple, regular maintenance and cleaning activities are required which are described in this chapter. If you observe the necessary caution and carry out the maintenance at regular intervals, any problems occurring will be detected and corrected before they lead to a total breakdown.

	<b>WARNING</b> Overdue maintenance can cause fire.

The indicated maintenance intervals can vary depending on the specific working and ambient conditions. Therefore we recommend to thoroughly inspect the complete product once every year beside the indicated periodic maintenance. For this purpose contact your supplier.

Component	Action	Frequency: every X months	
		X=6	X=12
<b>Filter unit</b>			
Housing	Clean the outside with a non-aggressive detergent		X
	Clean the inside with an industrial vacuum cleaner and remove dust from the filter compartment		X
	Check sealing material of the door. Replace if necessary		X
Extraction fan	Check for encrusted particles. Clean if necessary		X
Mains cord	Check for damage. Repair or replace if necessary	X *)	
<b>Extraction arm</b>			
Tubes	Clean the outside with a non-aggressive detergent	X	
	Clean the inside thoroughly	X	
Flexible hoses	Check for cracks or damages. Replace if necessary	X	
Hood	Check the movement of the hood. If necessary, adjust the friction; refer to paragraph 6.3	X	

Component	Action	Frequency: every X months	
		X=6	X=12
Arm movement	Check horizontal, vertical and diagonal arm movement. If necessary, adjust the friction; refer to paragraph 6.3	X	
*) Before every use			

### 6.2 Filter replacement

The buzzer emits an acoustic signal when the airflow is too low.

	Make sure that:
	- the shut-off damper is open - the extraction arm is not fully folded

When the buzzer still continues, you must replace the filter cassette(s).

As the pre filter is smaller and becomes more quickly saturated than the HEPA filter, you can replace the pre filter cassette several times before you finally need to replace the HEPA filter cassette.

		<b>Personal protective equipment (PPE)</b> Wear respiratory protection and protective gloves when you replace the filter cassettes.
	<b>WARNING</b> Do <b>not</b> replace the filter cassettes while the fan is running.	
	<b>WARNING</b> Do <b>not</b> shake out or (vacuum) clean the used filter cassettes to avoid the release of particles.	

#### 6.2.1 Pre filter cassette

To replace the pre filter cassette, do the following.

Fig. 6.1

- De-energize the unit.
- Open the door (A).
- Remove the pre filter cassette (B).
- Dispose of the used filter cassette in accordance with state or local regulations.
- Put a new pre filter cassette in the unit. Make sure that the arrow on the frame points upwards<sup>5</sup>.
- Close and lock the door.

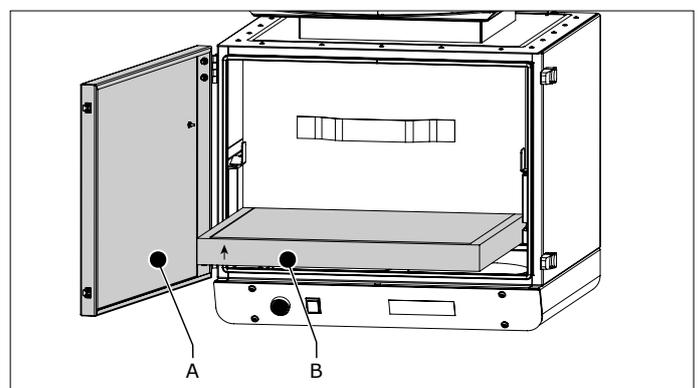


Fig. 6.1 Replacement of the pre filter cassette

5. The arrow indicates the airflow direction

 When the buzzer continues to beep after you have replaced the pre filter cassette, it is time to replace the HEPA filter cassette.

### 6.2.2 HEPA filter cassette

To replace the HEPA filter cassette, do the following.

Fig. 6.2

- De-energize the unit.
- Open the front door (A).
- Remove the pre filter cassette.
- Loosen the wingnuts (C) and put the clips (B) in the upright position. Make sure that the handle of the wingnut is in a vertical position.
- Gently pull and remove the HEPA filter cassette (D).
- Dispose of the used HEPA filter cassette in accordance with state or local regulations.

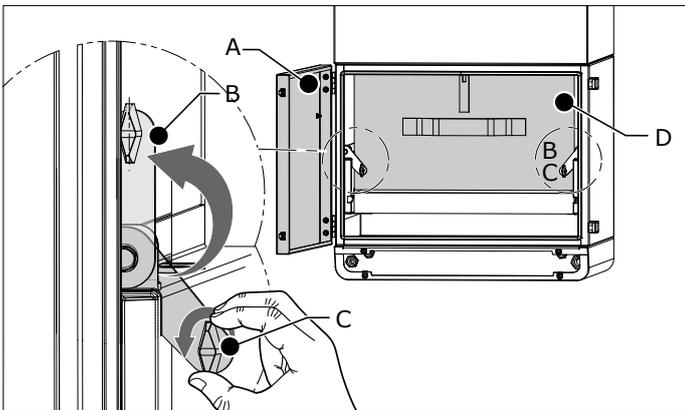


Fig. 6.2 Removal of the HEPA filter cassette

Fig. 6.3

- Put a new HEPA filter cassette in the unit. The side pins exactly fit in the slits (A) inside the housing.
- Lock the HEPA filter cassette with the clips (B). Make sure to push the clips in the slits (angle 45°).
- Tighten the wingnuts.
- Put the pre filter cassette back in the housing. Make sure that the arrow on the frame points upwards<sup>6</sup>.
- Close and lock the door.

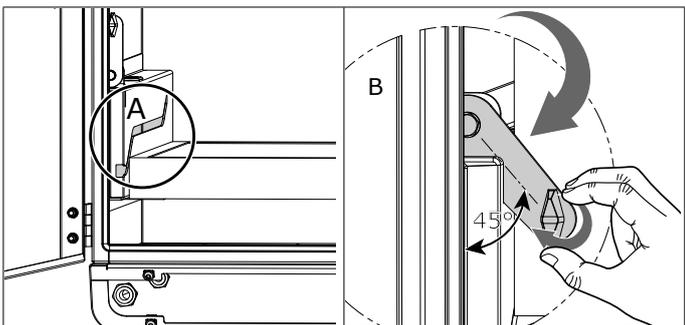


Fig. 6.3 Slits + clips (left + right)

### 6.3 Arm adjustment

If the extraction arm, or a part of it, does not stay in the desired position, you must adjust the friction.

#### 6.3.1 Hose tube arm (Economy Arm)

- Determine which joint needs more or less friction.

- Loosen the hose tube to get access to the hinges.
- Pull the arm in a horizontal position.
- Adjust the friction; refer to Fig. V on page 14 for the adjustment points.

#### 6.3.2 Metal tube arm (KUA)

- Determine which joint needs more or less friction.
- Loosen the hose at that position to get access to the hinge.
- Pull the arm in a horizontal position.
- Adjust the friction; refer to Fig. V on page 14 for the adjustment points.

## 7 TROUBLESHOOTING

If the unit 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

Obey the safety regulations that are written in chapter 3 when you carry out the activities below.

Symptom	Problem	Possible cause	Solution
The fan does not start	The unit does not function	No mains voltage	Connect the mains voltage
		The mains cord is defective	Repair or replace the mains cord
		Loose contacts	Repair the contacts
		Motor defective	Repair or replace the motor
The green LED is on but the fan does not run	The unit does not function	Relay is defective	Replace the relay
		Thermal relay is defective	Replace the thermal relay
		Motor defective	Repair or replace the motor
The fan makes a humming sound, but does not run	Extraction capacity insufficient or no extraction at all	Motor uses 2 phases instead of 3	Repair the phase connection
Poor extraction capacity	The unit does not function properly	The shut-off damper in the hood of the extraction arm is (partly) closed	(Fully) open the shut-off damper
		Inverted direction of rotation of the motor	Change the direction of rotation
		Clogged filters & loose connection of pressure sensor	Repair the connection of the pressure tubes
		Clogged filters & defective pressure sensor	Replace the pressure sensor & the pre filter cassette
			Replace the HEPA filter cassette as well
The buzzer emits an acoustic signal	Poor extraction capacity	The pre filter is clogged	Replace the pre filter cassette
		The HEPA filter is clogged	Replace the HEPA filter cassette

6. The arrow indicates the airflow direction. An incorrectly placed pre filter cassette affects the filter lifetime.

Symptom	Problem	Possible cause	Solution
The extraction arm does not stay in the desired position	Escape of fume; no proper extraction	Friction setting is not correct	Adjust the friction; refer to Fig. V on page 14 for the adjustment points
You cannot get the arm in the desired position			

## CE DECLARATION

### CE declaration of conformity for machinery



We, Plymovent Manufacturing B.V., Koraalstraat 9, 1812 RK Alkmaar, Netherlands, herewith declare, on our own responsibility, that the products:

- DualGo
- DualGo<sup>plus</sup>

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

- Machine Directive 2006/42 EC
- EMC 2014/30 EU
- LVD 2014/35 EU
- ErP Directive 2009/125 EC
- W3 compliant (EN-ISO 15012-1:2013)

Signature:

Name: M.S.J. Ligthart  
 Position: Product Manager  
 Date of issue: 1st April 2021

## 8 SPARE PARTS

### 8.1 Filter unit



The following spare parts are available for the filter unit;

- refer to exploded view Fig. VI on page 15

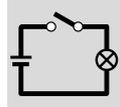
### 8.2 Extraction arm

The following spare parts are available for the extraction arms;

- hose tube arm (Economy Arm): refer to exploded view Fig. VII on page 16
- metal tube arm (KUA): refer to exploded view Fig. VIII on page 18

## 9 ELECTRICAL DIAGRAM

Refer to the separately supplied electrical diagram.



## 10 DISPOSAL

Dismantling and disposal of the unit must be done by qualified persons.



	<p><b>Personal protective equipment (PPE)</b>          Wear respiratory protection and protective gloves when you dismantle and dispose of the unit.</p>
--	--

### 10.1 Dismantling

To safely dismantle the unit, obey the safety instructions that follow.

Before dismantling of the unit:

- disconnect it from the mains
- clean the outside

During dismantling of the unit:

- make sure that the area is sufficiently ventilated, e.g. by a mobile ventilation unit

After dismantling of the unit:

- clean the dismantling area

### 10.2 Disposal

Dispose of the pollutants and dust, together with the used filters, in a professional manner in accordance with federal, state or local regulations.

Fig. I Dimensions

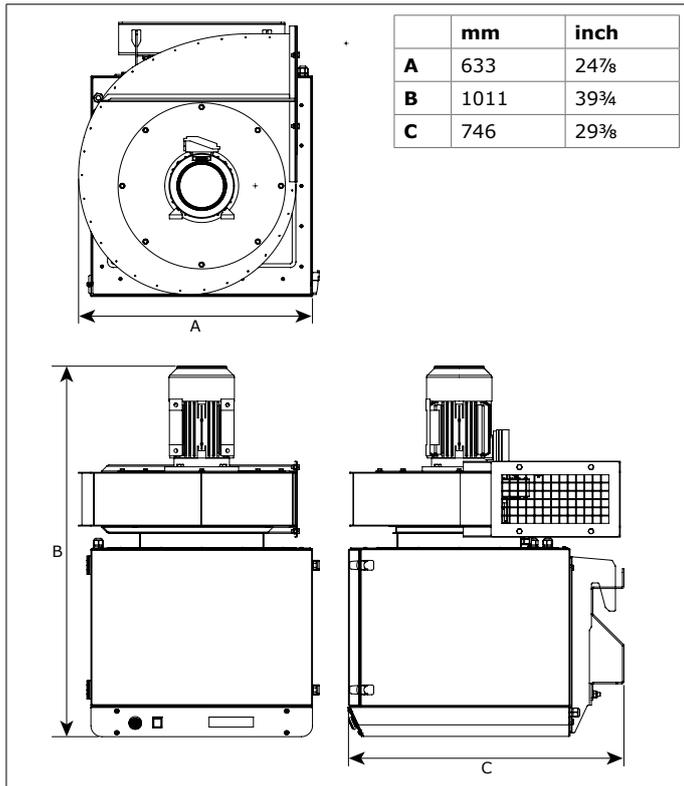


Fig. III Recommended installation height (E) + hole pattern

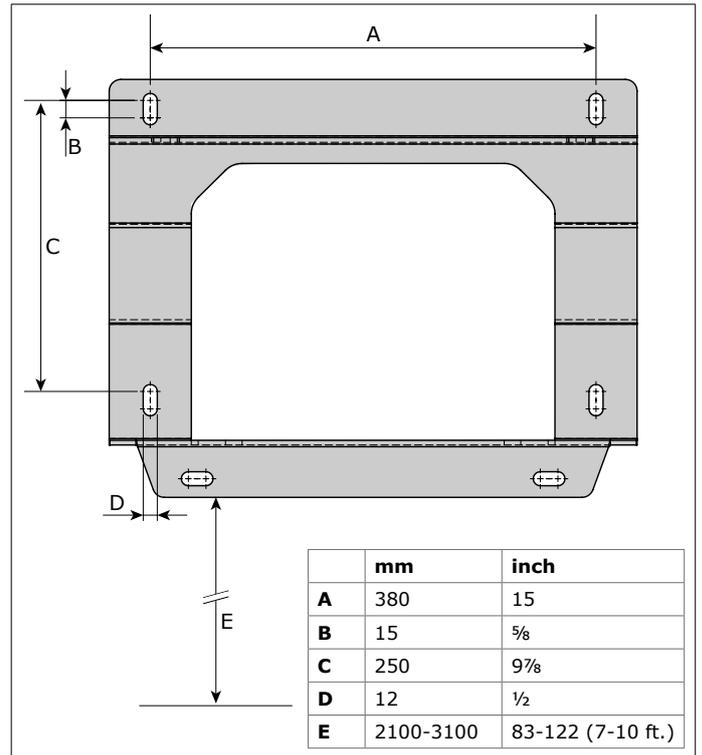


Fig. II Working range

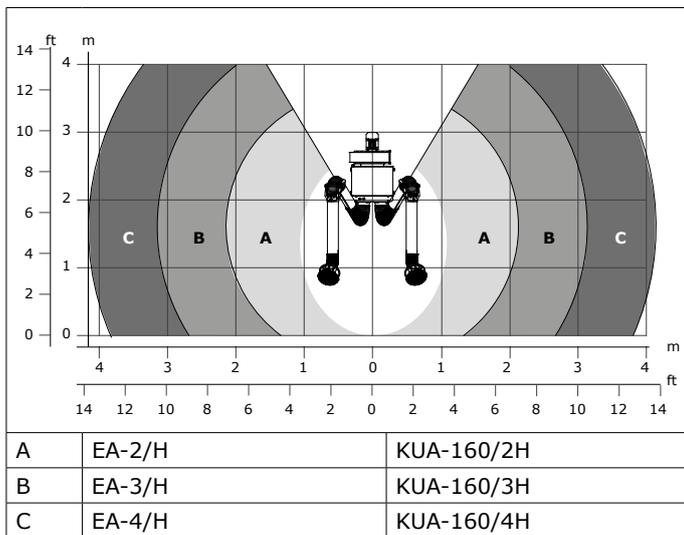


Fig. IV Positioning of the extraction arm

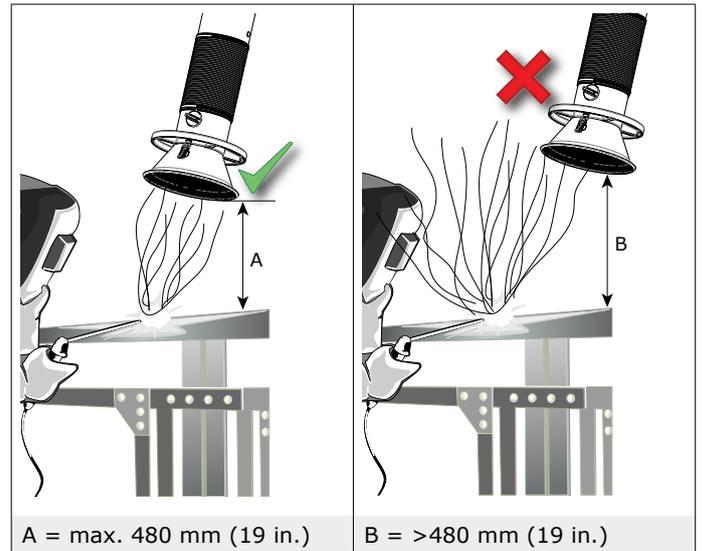


Fig. V Adjustment of the extraction arm | Adjustment points

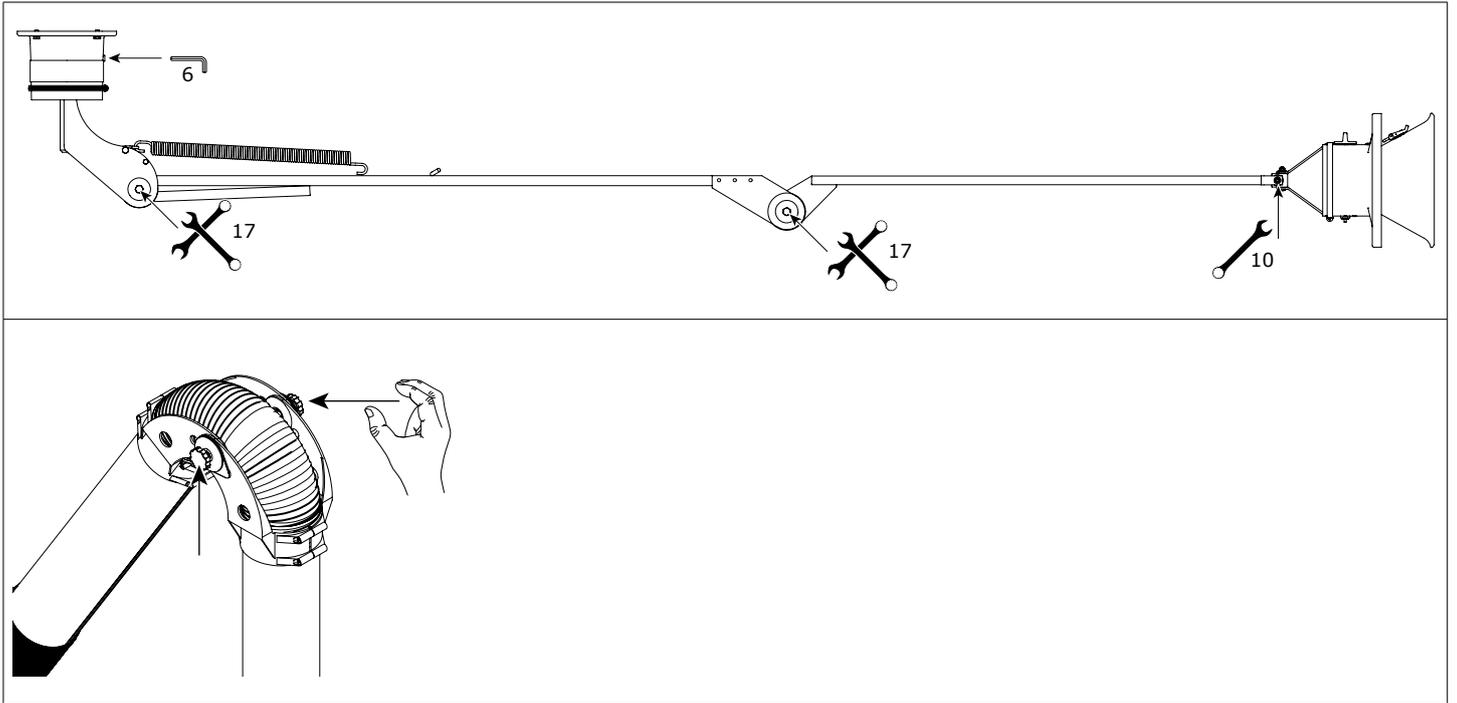
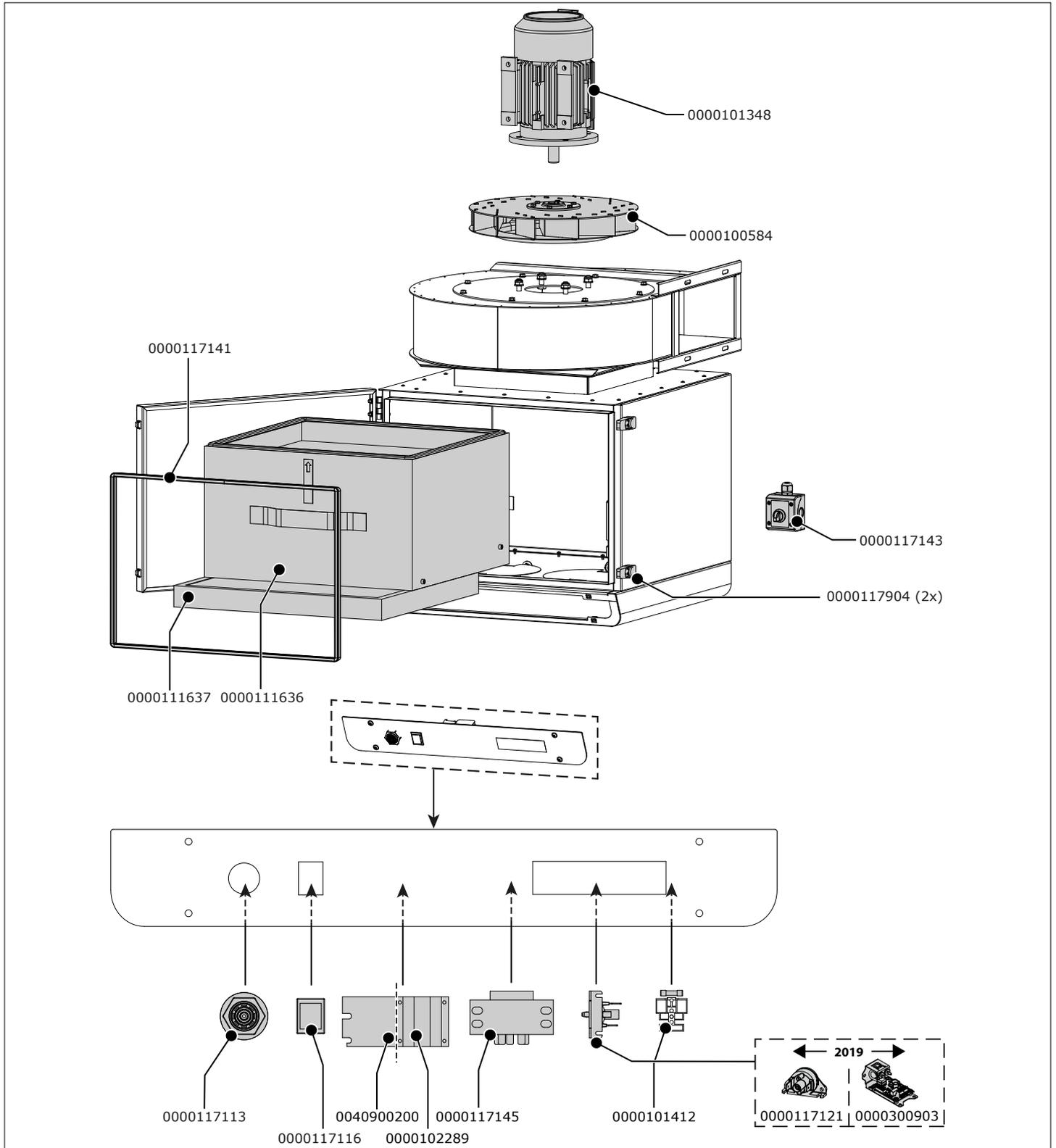


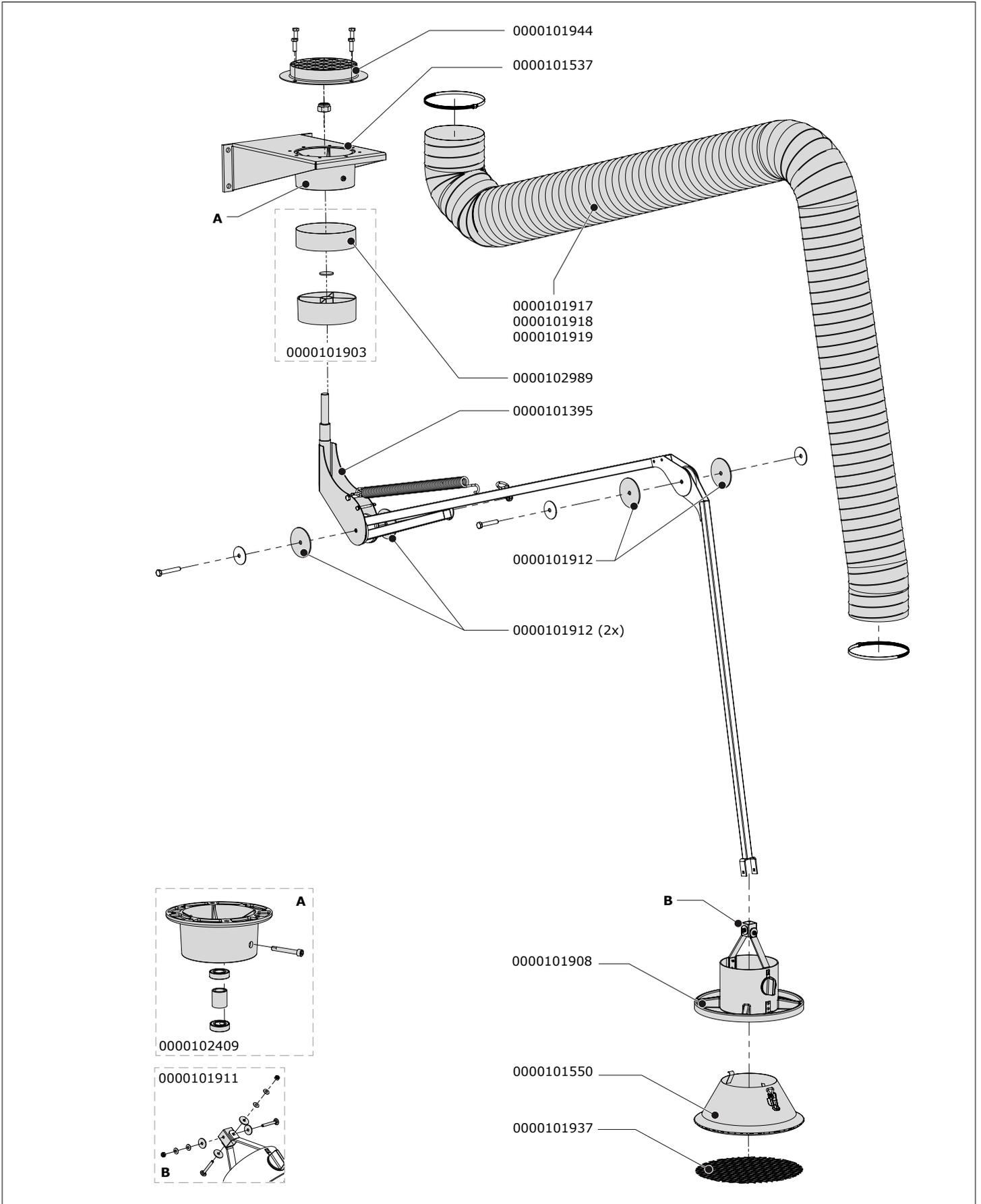
Fig. VI Exploded view DualGo | DualGo<sup>plus</sup>



Article no.	Description
0000100584	Fan wheel FUA-4700 (IEC)
0000101348	Motor 2,2 kW; 230-400V/3ph/50Hz (IEC)
0000101412	Fuse 0.4A 5x20 mm UL
0000102289	Relay MC2A
000011636	HEPA filter cassette 26 m <sup>2</sup>
000011637	Pre filter cassette 1 m <sup>2</sup>
0000117113	Buzzer 24V
0000117116	Service indicator (green / 24VAC)

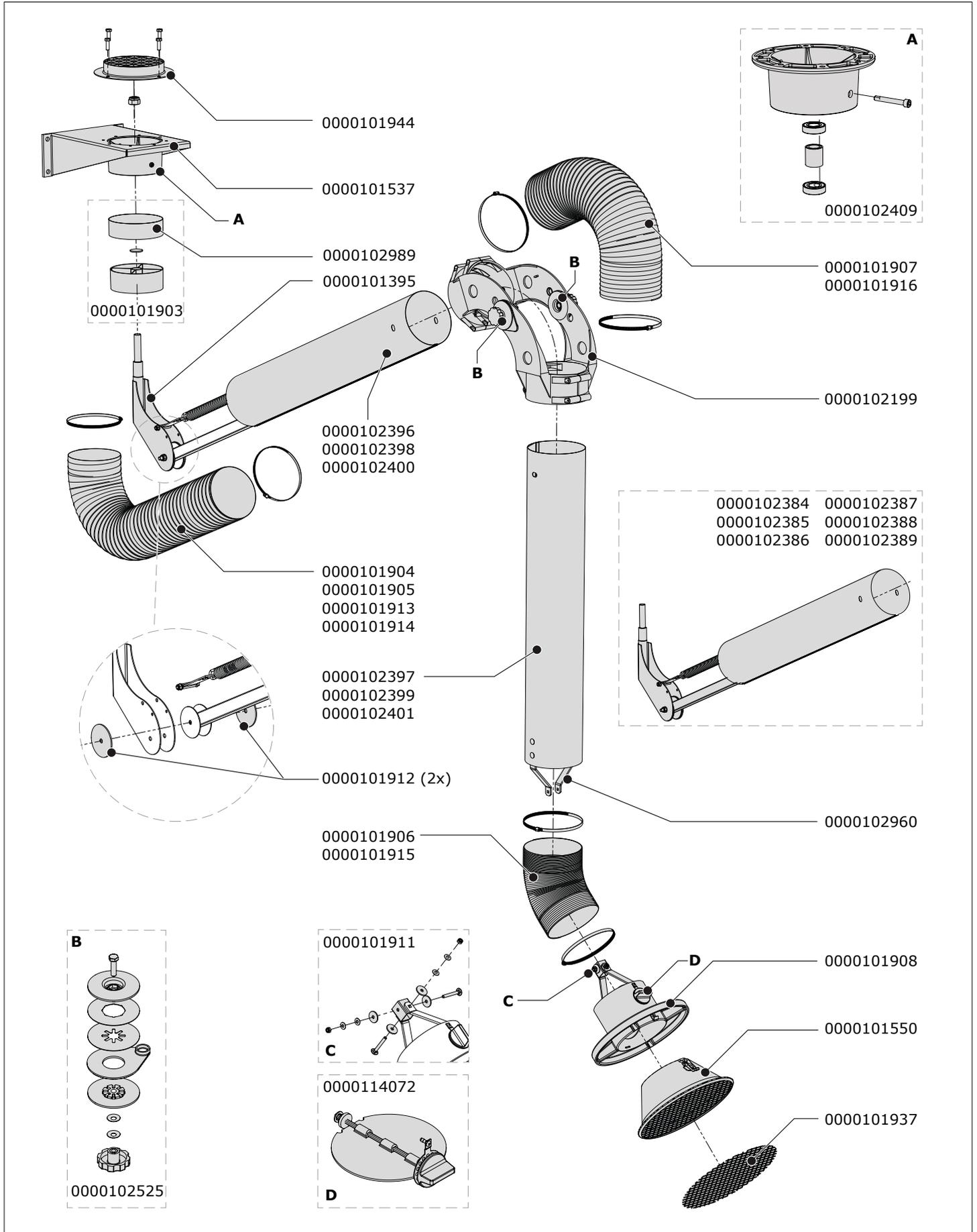
Article no.	Description
0000117121	Pressure switch (CE)
0000117141	Sealing L=1,9 m for door GoLine
0000117143	Switch box 24V for DualGo
0000117145	Transformer 24V 15VA 0-400-480V
0000117904	Draw latch GoLine (set of 2)
0000300903	Digital pressure switch 24 VAC
0040900200	Thermal relay 4-6,3 A

Fig. VII Exploded view hose tube arm (Economy Arm)



Article no.	Description
<b>General</b>	
0000101395	Swivel bracket
0000101537	Wall bracket, complete
0000101550	Hood with safety mesh
0000101903	Arm swivel ring, incl. rubber collar and washer
0000101908	Hood collar, incl. handle, damper and hood hinge
0000101911	Hood hinge, incl. mounting material
0000101912	Friction plate 83x10x3 mm (set of 2)
0000101937	Safety mesh Ø 300 mm
0000101944	Connection flange with grid
0000102409	Rotating flange (ball bearing)
0000102989	Rubber collar Ø 160 mm
<b>Economy Arm 2/H</b>	
0000101917	Hose L=2500 mm/Ø 163 mm, incl. 2 hose clamps
<b>Economy Arm 3/H</b>	
0000101919	Hose L=3500 mm/Ø 163 mm, incl. 2 hose clamps
<b>Economy Arm 4/H</b>	
0000101918	Hose L=4500 mm/Ø 163 mm, incl. 2 hose clamps

Fig. VIII Exploded view metal tube arm (KUA-160/H)



Article no.	Description
<b>General</b>	
0000101395	Swivel bracket for KUA-160/H and EA/H
0000101537	Wall bracket, complete
0000101550	Hood with safety mesh
0000101903	Arm swivel ring KUA-160, incl. rubber collar and washer
0000101906	Hose L=400 mm/Ø 163 mm, incl. 2 hose clamps
0000101907	Hose L=650 mm/Ø 163 mm, incl. 2 hose clamps
0000101908	Hood collar, incl. handle, damper and hood hinge
0000101911	Hood hinge, incl. mounting material
0000101912	Friction plate 83x10x3 mm (set of 2)
0000101937	Safety mesh Ø 300 mm
0000101944	Connection flange with grid
0000102199	Elbow joint KUA-160
0000102409	Rotating flange (ball bearing)
0000102525	Mounting kit for middle hinge KUA-160
0000102960	Brackets outer tube KUA (2 pcs)
0000102989	Rubber collar Ø 160 mm
0000114072	Plastic balancing damper Ø 160 mm
<b>KUA-160/2H</b>	
0000101904	Hose L=850 mm/Ø 163 mm, incl. 2 hose clamps
0000102384	Inner frame KUA-160/2H, complete
0000102396	Inner tube KUA-160/2
0000102397	Outer tube KUA-160/2
<b>KUA-160/3H</b>	
0000101905	Hose L=1000 mm/Ø 163 mm, incl. 2 hose clamps
0000102385	Inner frame KUA-160/3H, complete
0000102398	Inner tube KUA-160/3
0000102399	Outer tube KUA-160/3
<b>KUA-160/4H</b>	
0000101905	Hose L=1000 mm/Ø 163 mm, incl. 2 hose clamps
0000102386	Inner frame KUA-160/4H, complete
0000102400	Inner tube KUA-160/4
0000102401	Outer tube KUA-160/4

