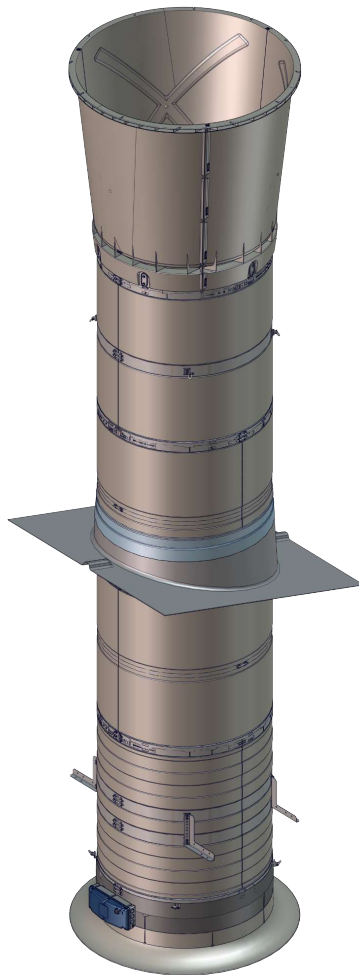


# DA 920 Chimney

## Technical Info





## **1 Product description**

The DA 920 was developed and designed to ensure optimum output at low power consumption and the fans and outlets have been optimized as a unit.

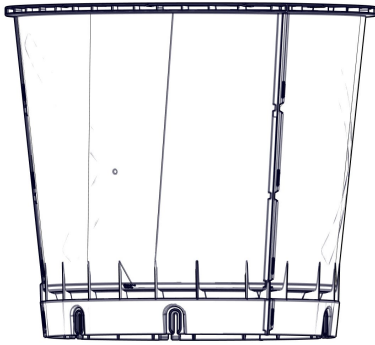
Large outlets are exposed to severe weather impacts and that is a great challenge. The DA 920 outlet should be mounted via a roofing sheet, ensuring stable, safe and tight installation. Alternatively, outlet flashing can be carried out using flex flashing or neoprene cloth.

A cone-mounting fitting has been developed to further improve the ability of the exhaust unit cone to resist strong wind impacts.

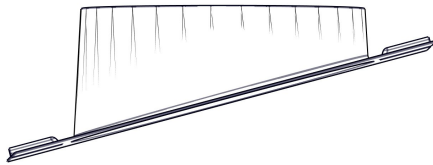
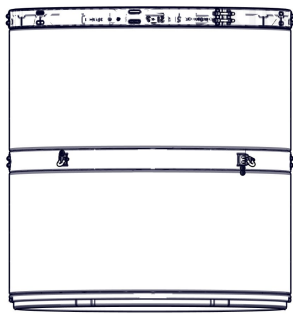
Insulated ducts are used for DA 920 to minimize the risk of condensation in the house.

## 2 Product survey

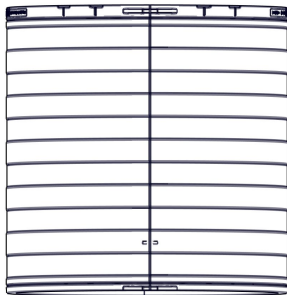
### 2.1 General drawing



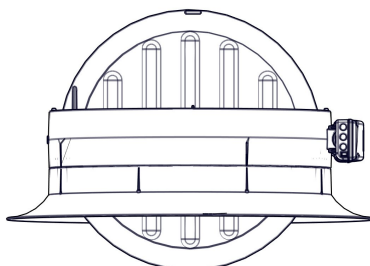
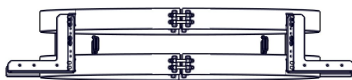
Above roof



Lead-through



Attic/section



Inlet

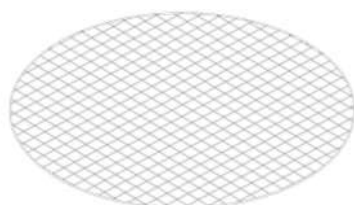
## 2.1.1 Above roof



- 434146 DA 920 outlet cone, gray, S-bracket A2**
- 434147 DA 920 outlet cone, gray brown, S-bracket**
- 434148 DA 920 outlet cone, black, S-bracket A2**

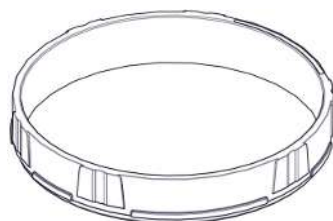
Outlet cone is reducing the problems with water penetration and pressure drop and increasing the output of the exhaust unit.

The outlet cone is delivered fully assembled.



### **433077 DA 920 net, duct**

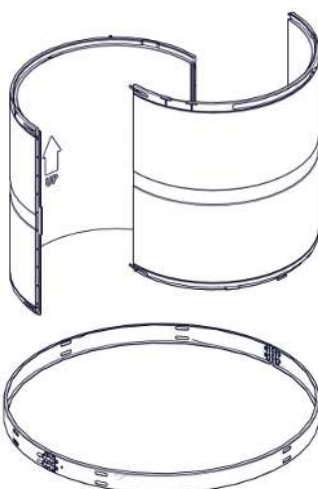
Protective mesh used in connection with wall exhaust units where extra securing is required on the pressure side of the fan.



### **434155 DA 920 duct end, black**

Always used at transition to outlet cones or duct end.

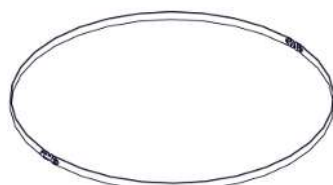
1 pcs. per DA 920 chimney.



- 434157 DA 920 duct 1000 mm, gray**
- 434160 DA 920 duct 1000 mm, black**
- 434158 DA 920 duct 1500 mm, gray**
- 434161 DA 920 duct 1500 mm, black**

The DA 920 ducts are available in two different lengths, 1000 and 1500 mm respectively.

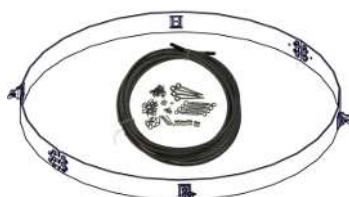
The duct is supplied with DA 920 duct connector and a mounting set for connection of ducts.



### **434162 DA 920 support ring, A2**

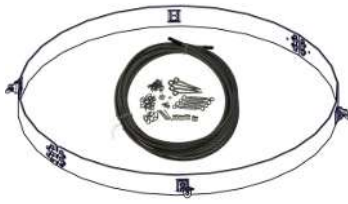
One support ring should be used for each DA 920 duct.

On ducts with storm protection kits (434163, 434164) or anchoring (434142, 434143) it is however possible to exclude support ring.



### **434163 DA 920 storm protection kit, short**

The storm protection kit, short, is used if the duct height over the roofing sheet is 2.5 - 5 m.



**434164 DA 920 storm protection kit, long**

The storm protection kit, long, is used if the duct height over the roofing sheet is 5 - 8 m.

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**2.1.2 Lead-through**



**530155 Joint sealer, Sikaflex 221, gray 300ml**  
**530156 Joint sealer, Sikaflex 221, black 300ml**

Used for sealing ducts.

1 per 20 DA 920.

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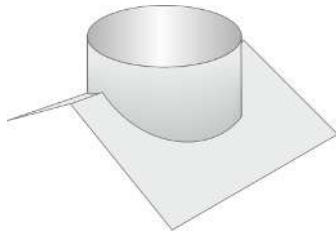


**434118 DA 920 sealing band, gray**  
**434119 DA 920 sealing band, black**

DA 920 sealing band (3250x156 mm) are always used as a transition between the DA 920 duct and DA 920 roofing sheet.

1 per DA 920 roofing sheet.

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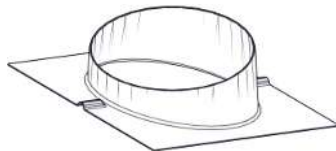
**434107 DA 920 roofing sheet ridge gray**

The roofing sheet is used for mounting on the ridge and is available in different versions in terms of roofing sheet types and pitches.

It is always to be used if the DA 920 is to be mounted on the ridge.

Remember to always order sealing bands (434118, 434119).

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**434106 DA 920 roofing sheet, gray**  
**434116 DA 920 roofing sheet, black**

The roof sheet is designed for side mounting and is available in different versions in terms of roof sheet types and pitches.

This solution is recommended when side mounting on roofs that do not use steel sheet, for example on asbestos roofs.

Remember to always order sealing bands (434118, 434119).

If using DA 920 roofing sheet with smooth sides there is also a need for using flex flashing for smooth side roofing sheets (433099, 433093).

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**433093 Flex flashing roofing sheet side flat, gray**  
**433099 Flex flashing roofing sheet side flat, black**

The flex flashing (1925x470) is always used for transition between the roofing sheet of the building and DA 920 smooth side roofing sheets.

Contains flex flashing, supports and construction adhesive.

1 per DA 920 smooth side roofing sheet.

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**433094 Flex flashing f. steel sheet roof, gray**  
**433096 Flex flashing f. steel sheet roof, black**

The flex flashing is always used for steel roofing sheets at the transition between the building's steel roof and side mounted DA 920.

Contains flex flashing, supports and construction adhesive.

1 per DA 920.



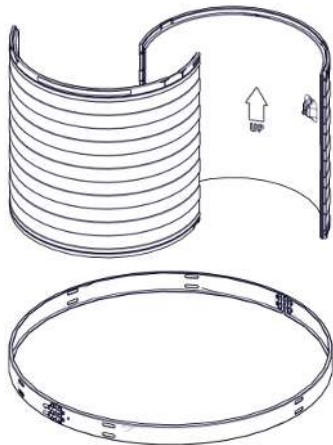
**433493 Roof cloth neoprene 1.9 x 1.7m**

An inexpensive alternative to the roofing sheet side or flex flashing. Neoprene cloths can be used at the transition between the building's roofing sheets and side mounted exhaust units/roof inlets.

Supplied with joint sealer and screws.

1 per exhaust unit/roof inlet.

### 2.1.3 Attic/section

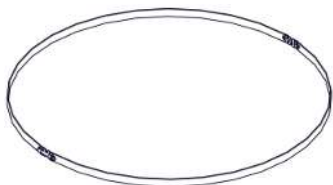


**434156 DA 920 duct for fan 1000 mm, gray**  
**434159 DA 920 duct for fan 1000 mm, black**  
**434167 DA 920 duct for fan 1500 mm, gray**  
**434168 DA 920 duct for fan 1500 mm, black**

DA 920 duct with shoe for suspension of fan unit.

The DA 920 ducts are available in two different lengths, 1000 and 1500 mm respectively.

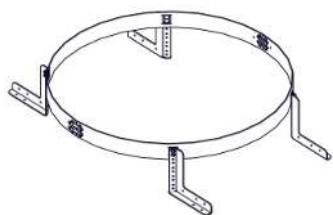
The duct is supplied with DA 920 duct connector and a mounting set for connection of ducts.



**434162 DA 920 support ring, A2**

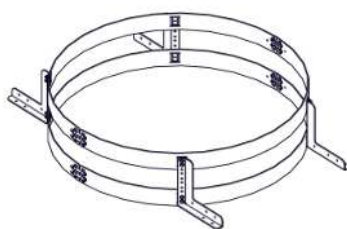
One support ring should be used for each DA 920 duct.

On ducts with storm protection kits (434163, 434164) or anchoring (434142, 434143) it is however possible to exclude support ring.



**434142 DA 920 anchorage for duct, A2**

Used for lead-through in ceilings, that is, where the ceiling does not go all the way up to the ridge and where the duct height over the roofing sheet is from 0 to 2.5 m.



**434143 DA 920 double anchorage for duct, A2**

Used for lead-through in ceilings, that is, where the ceiling does not go all the way up to the ridge and where the duct height over the roofing sheet is from 2.5 to 8 m.

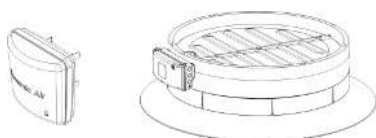
Is also used for wall exhaust units.



**434165 DA 920 fitting for wire suspension**

In livestock houses without an attic, that is where the ceiling ends in the ridge (ceiling = roof), this kit should be used for suspension of duct/fan in the roof construction.

**2.1.4 Inlet**



**434115 DA DA 920 bell mouth/chimney stepless DynAir, gray**

Complete inlet unit with Dynamic Air sensor (0-300 Pa), bell mouth, swivel shutter, and a DA 74CV stepless winch motor.

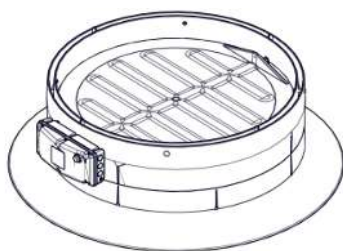
Used for stepless DA 920 chimneys with Dynamic Air. The Dynamic Air sensor is supplied as a kit for mounting on DA 920.

To be used together with:

- DOL 634 LPV/CT/CE/Basic, DOL 63X LPV/CT.
- DOL 53X LPV/CT version 5.1 or later.
- DOL 234F 7.3 or later.

Please note if a contactor kit is required, cf. item number 280060.

Remember to always order the DA 920 connector for shutter unit (434149).



**434104 DA 920 bell mouth stepless, gray**

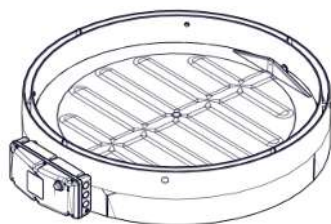
**434105 DA 920 bell mouth on/off, gray**

Complete bell mouth unit; swivel shutter module with bell mouth and stepless or ON/OFF winch motor.

Please note if a contactor is required, cf. item number 280060.

Remember to always order the DA 920 connector for shutter unit (434149).

If the inlets and swivel shutter are separated 3 DA 920 connectors should be ordered for the swivel shutter module (434149).



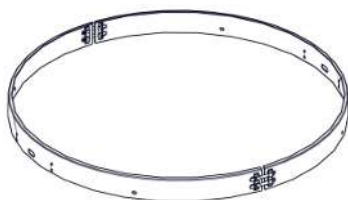
**433083 DA 920 swivel shutter module on/off**

**433084 DA 920 swivel shutter module, stepless**

Complete swivel shutter module excl. bell mouth and with stepless or ON/OFF winch motor.

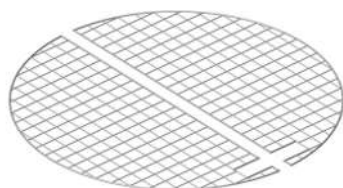
Please note if a contactor is required, cf. item number 280060.

Remember to always order 2 DA 920 connector for shutter unit (434149).



**434149 DA 920 connector for shutter unit**

Used for transitions between ducts, swivel shutter module, and inlet.



**433076 DA 920 net, swivel shutter**

Protective mesh that should be placed on the suction side of the fan and is used where the position of the fan is low, e.g. less than 2.70m above floor.

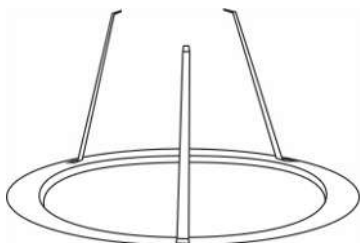


### 280060 Contactor tripolar 400V, 230V 50/60 Hz

The contactor kit is necessary when an ON/OFF fan unit is used together with DA 74.

Contactor AC3 12 A - 5.7 kW (400 V).

In other words, 1 contactor must be ordered for each DA 74 when the fan runs ON/OFF.



### 433086 DA 920 drip tray ø1700 mm gray

Drip tray for suspension under exhaust unit in order to avoid possible water penetration and successive dripping into the livestock house.



### 434018 Dynamic Air - kit for bell mouth/chimney

Dynamic Air sensor (0- 300 Pa) for measuring and regulation of air output for stepless chimneys. This item number is to be used only for retrofitting on existing chimneys.

Supplied with screw kit.

See specifications and limitations for item number 434016/434216 bell mouth/chimney stepless DynAir.

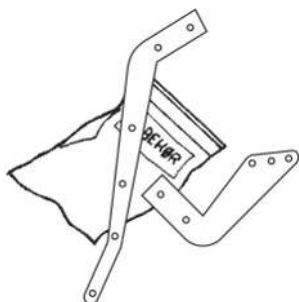


### 434035 Dynamic Air - kit for bell mouth/duct

Dynamic Air sensor (0- 100 Pa) for measuring and regulation of air output for stepless take-offs in central duct. This item number is to be used only for retrofitting on existing take-off.

Supplied with screw kit.

See specifications and limitations for item number 434034 bell mouth/duct stepless DynAir.



### 434088 Arm for swivel shutter in bell mouth

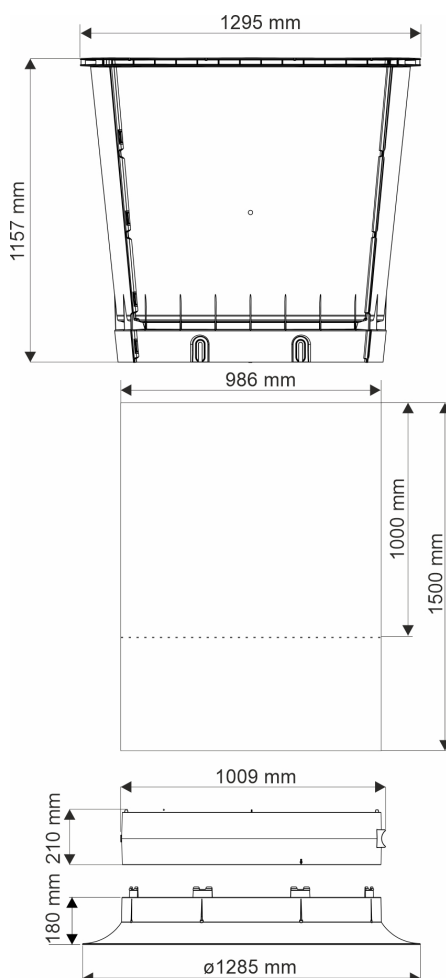
Includes a short and a long arm for the swivel shutter, suspension plate and various mounting screws.

### 3 Technical data

<b>Mechanical</b>		
Material		PUR/PP/PS
Band		Stainless steel
Color		Gray (RAL 7035), black (RAL 9005)
Structure height over roof	m	Max. 8
<b>Environment</b>		
Temperature, operation	°C (°F)	-40 to +40 (-40 to +104)
Storage temperature	°C (°F)	-40 to +65 (-40 to +149) – and protected against direct sunlight.
Ambient humidity, operation	% RH	0-95 % RH
<b>Shipment</b>		
Bell mouth, dimensions HxWxD	mm	390x1285x1285
Duct with fan suspension, dimensions HxWxD	mm	1000x986x986
Duct 1000 mm, dimensions HxWxD	mm	1000x986x986
Outlet cone, dimensions HxWxD	mm	1157x1295x1295

#### 3.1 Dimensioned sketch

Dimensions in mm.





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