

# DA 60-920

## Equal Pressure Unit

### Technical Info





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## 1 Product description

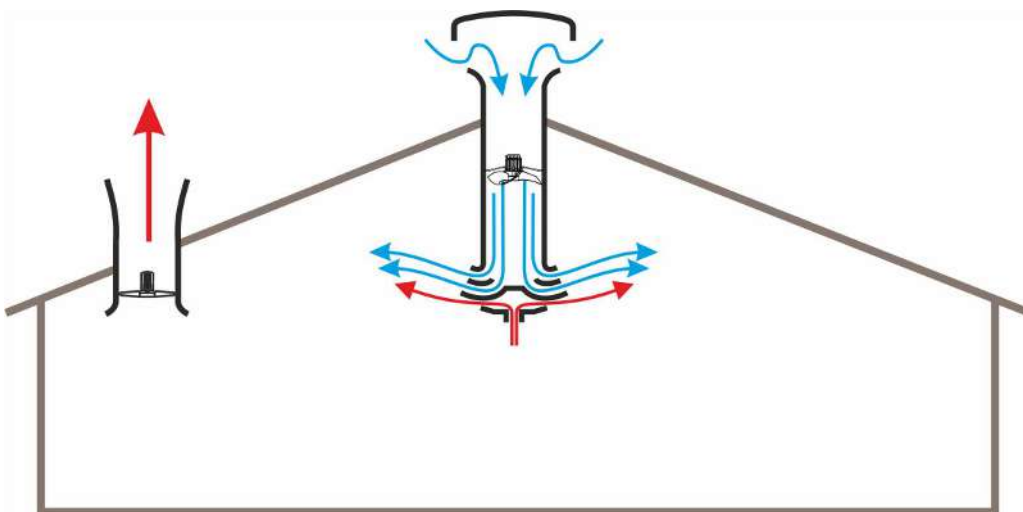
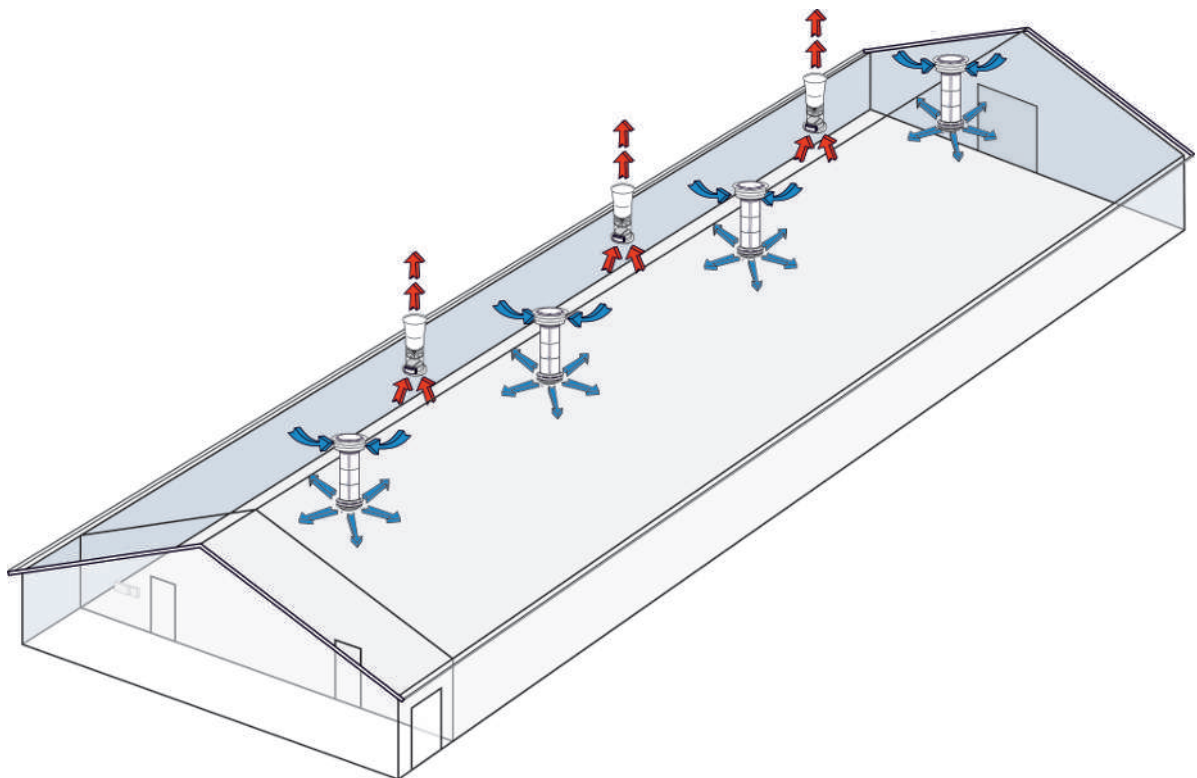
The DA 60-920 equal pressure unit is an air inlet for equal pressure that combines high output with low air velocity in the animal zone.

DA 60-920 supplies up to 20,000 m<sup>3</sup>/hour and the output is adjusted steplessly by the fan and the parallel motion system. The system ensures that the equal pressure unit is opened uniformly all the way around, providing a uniform air distribution throughout the entire livestock house.

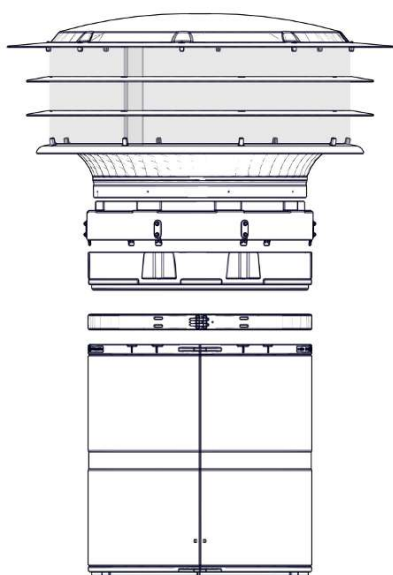
The DA 60-920 is equipped with a recirculation fan that ensures the required air jet range, even though the amount of inbound air is reduced.

The system can be set to the air jet range required for the current time of year. In this way it is always possible to create a combination of negative pressure and opening that provides the desired relation between output and air speed.

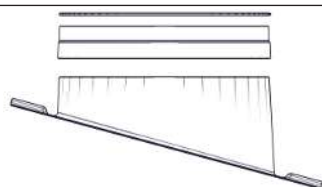
The DA 60-920 equal pressure unit is cast in polyurethane with good insulation properties, and the metal parts are made from stainless steel A2.



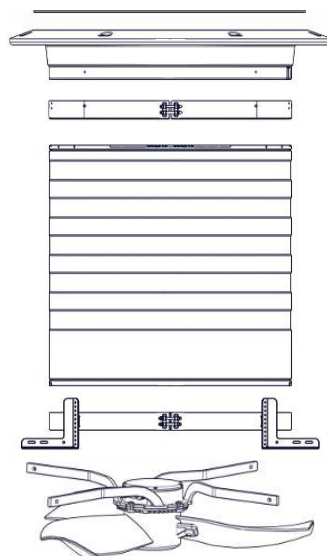
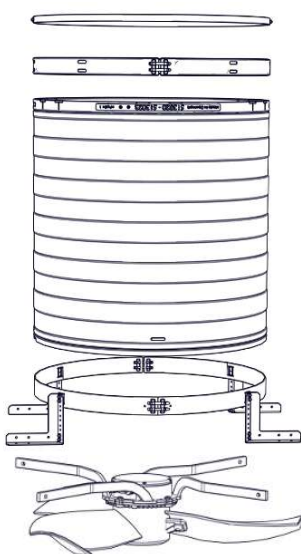
## 2 Product survey



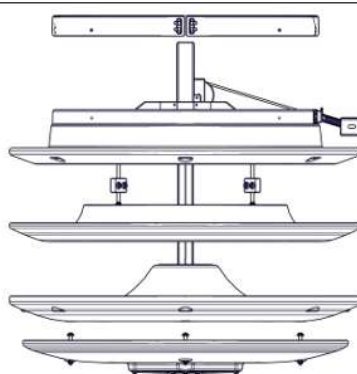
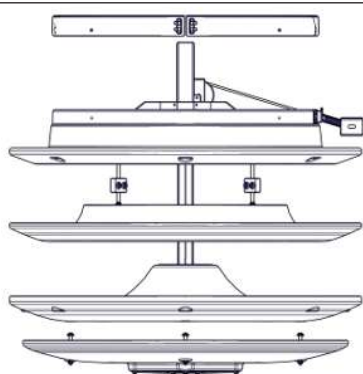
Above roof



Lead-through

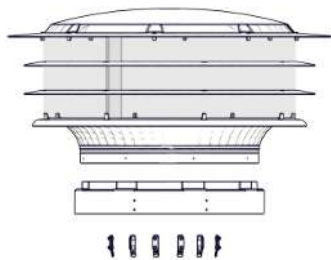


Attic/section



Inlet

## 2.1 Above roof



**433479 DA 60-920 roof cap complete, gray**  
**433579 DA 60-920 roof cap complete, black**

Is used for air inlet above the roof.

A rain screen is mounted on the net for protection from rain. The top of the bell mouth is designed so that water running down along the net is always led out to the roof.

The bell mouth and roof cap are made from weather resistant fiber glass. The net is hot-dip galvanized with a net of 10x25 mm and a height of 350 mm.

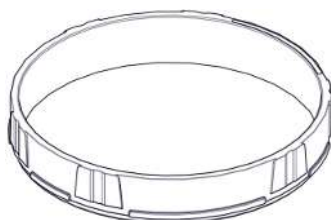
DA 60-920 is supplied unassembled.



**433489 DA 60-920 rain screen for roof cap, gray**  
**433589 DA 60-920 rain screen for roof cap, black**

As standard DA 60 is supplied with 2 rain screens on the roof cap.

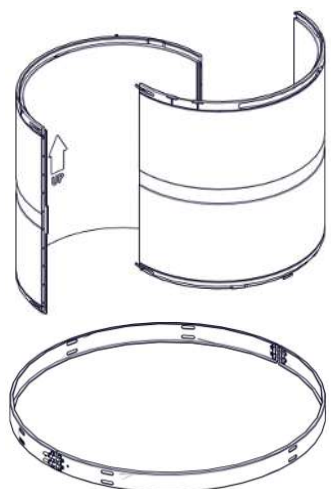
Extra rain screens can be purchased in cases where further reduction of ingress of rainwater and snow is required.



**434155 DA 920 duct end, black**

Used at transition to roof cap, bell mouth or duct end.

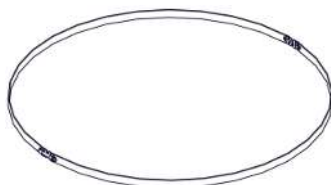
Use 1 for each DA 60-920 roof inlet.



**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 anchoring (434142) the support ring can be omitted.

## 2.2 Lead-through



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

Used for sealing ducts.

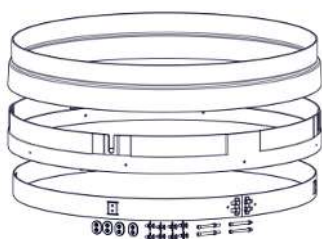
1 per 20 DA 920.



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

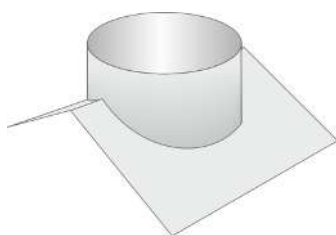
DA 920 sealing band (3250x156 mm) are always used as a transition between the DA 920 duct and DA 920 roofing sheet.

1 per DA 920 roofing sheet.



**433534 DA 920 suspension system roofing sheet**

DA 920 suspension system roofing sheet is used in connection with DA 60-920 equal pressure, so the equal pressure unit can be mounted on the roofing sheet.

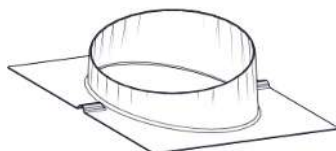


**434107 DA 920 roofing sheet ridge gray**

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).



**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).



**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.



**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.



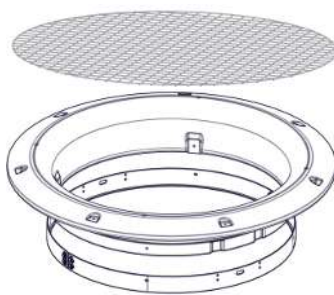
**433493 Roof cloth neoprene 1.9 x 1.7m**

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.

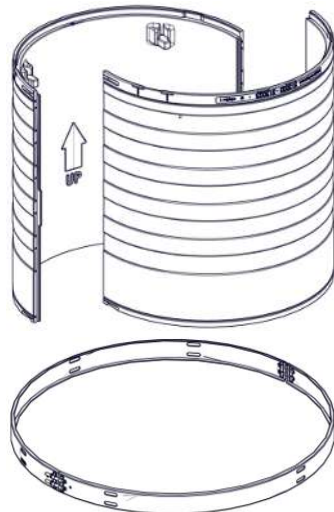
## 2.3 Attic/section



**433532 DA 920 bell mouth w/clamp black**

Used for attic air intakes.

The bell mouth comes with a net and collar band including flange.

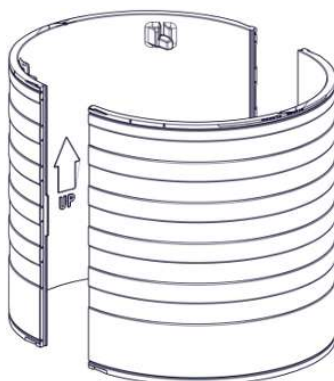


**433527 DA 920 duct f. fan/roof 1000 mm, gray**  
**433528 DA 920 duct f. fan/roof 1000 mm, black**

DA 920 duct with shoe for suspension of fan unit.

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

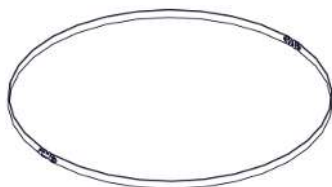
Is used when mounting DA 60-920 equal pressure with roof cap.



**433529 DA DA 920 duct f. fan/attic 975 mm, gray**  
**433530 DA DA 920 duct f. fan/attic 975 mm, black**

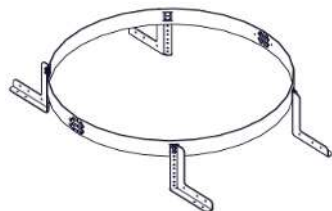
DA 920 duct with shoe for suspension of fan unit.

Is used when mounting DA 60-920 equal pressure in the attic space.

**434162 DA 920 support ring, A2**

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

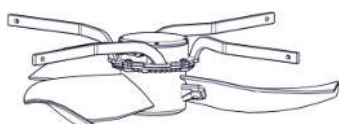
On ducts with anchoring (434142) the support ring can be omitted.

**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.

**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.

**409161 ECT 920-1E equal pressure fan FF 230V 50/60Hz**

3 fan blades, 230 V fan with aluminum fan blades which fit a duct with an inside duct dimension of 920 mm. It is equipped with an EC motor (internal fan speed controller).

It is used as stepless or ON/OFF fan.

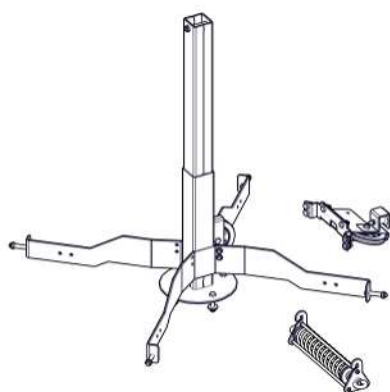
High output and good pressure stability.

## 2.4 Inlet

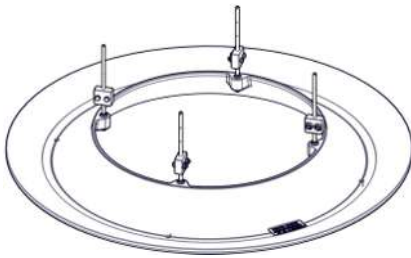
**433520 DA 60-920 outlet funnel Free Flow, black**

The outlet funnel and the bottom plate are made from polyurethane with a material thickness of 30mm to counteract condensation.

Always remember to order DA 60-920 exhaust, Free Flow, accessories (433519).

**433533 DA 60-920 outlet, accessories**

Pulling system and wire is delivered unassembled.



**433521 DA 60-920 intermediate plate, black**

Is supplied complete with control levers for 150mm opening.

Approx 50% of the air is led out onto the intermediate plate which reduces the air velocity out of the air supply unit and thus also the velocity at the floor.

The intermediate plate is supplied unassembled.

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**433522 DA 60-920 recirculation fan, black**

Current consumption 0.62 A.

If there are large temperature differences, poor Coanda-effect by the ceiling, or if free air direction is used, a recirculation fan may lessen the effect of inappropriate down draft.

Complete with recirculation fan, capacitor and connection box.

The recirculation fan is delivered unassembled.

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**433523 DA 60-920 clamp with collar**

To be used for transition to DA 920 ducts.

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### 3 Technical data

#### 3.1 DA 60-920 equal pressure

<b>Electric recirculation fan</b>		
Rated voltage	V AC	230 +/- 10%
Operating voltage	V AC	175 – 280
Frequency	Hz	50 / 60
Max. power consumption At 230 V AC supply	A	0.62
Max. input power (P1)	W	120
Revolutions per minute	RPM	1440
Air output	m <sup>3</sup> /h	2200
<b>Mechanical</b>		
Material		PUR/fibreglass
Band		Stainless steel A2
Color		RAL 7035/RAL 9005/black
Hole diameter	mm	920
Tensile length	mm	420
<b>Tensile force</b>		
Outlet	kg	10.5
Outlet and intermediate plate	kg	14.5
Outlet and recirculation fan	kg	20.5
Outlet, intermediate plate and recirculation fan	kg	24.5
<b>DA 60-920 output</b>		
		<b>DA 60-920 without intermediate plate</b>
Air output at -0 Pa	m <sup>3</sup> /h	21600
Air output at -10 Pa	m <sup>3</sup> /h	22600
Air output at -20 Pa	m <sup>3</sup> /h	23600
Air output at -30 Pa	m <sup>3</sup> /h	24300
Air output at -40 Pa	m <sup>3</sup> /h	25200
Testing body		SKOV A/S
<b>Environment</b>		
Temperature, operation	°C	+ 40 to + 40
Start temperature	°C	+ 40 to + 50
Storage temperature	°C	+ 40 to + 65
Ambient humidity, operation	% RH	10 - 95
Protection class	IP	Fan: IP 54

### 3.2 ECT 920-1E equal pressure fan

		409161 ECT 920-1E
<b>Electrical</b>		
Rated voltage	V AC	230V ±10%
Operating voltage	V AC	200 - 277
Frequency	Hz	50
Max. power consumption At 230 V AC supply		5.0
Max. input power (P1)	W	960
Regulation ability	V	0-10
Motor protection thermal cutout (PTO)		Integrated
<b>Mechanical</b>		
Cable length	m	2.0
Min. duct diameter	mm	920
The diameter of the fan blade	mm	905
Number of fan blades	pcs.	3
<b>Fan output</b>		
Revolutions (rated current) per minute	RPM	950
Power consumption at -10 Pa	W	860
Specific output at -10 Pa	m <sup>3</sup> /kWh	26800
Specific energy at -10 Pa	Watt/1000 m <sup>3</sup> /h	37
Testing body		SKOV A/S
<b>Environment</b>		
Temperature, operation	°C	55
Start temperature	°C	-35 to +55
Storage temperature	°C	-40 to +80
Ambient humidity, operation	% RH	85
Protection class	IP	IP 55
Fan noise, outside (2 m, 45 degrees)	dB (A)	68
<b>Shipment</b>		
Dimension HxWxD	mm	910x910x192
Dimensions when packed HxWxD	mm	940x940x325
Weight	g	16000
Shipping weight	g	22300

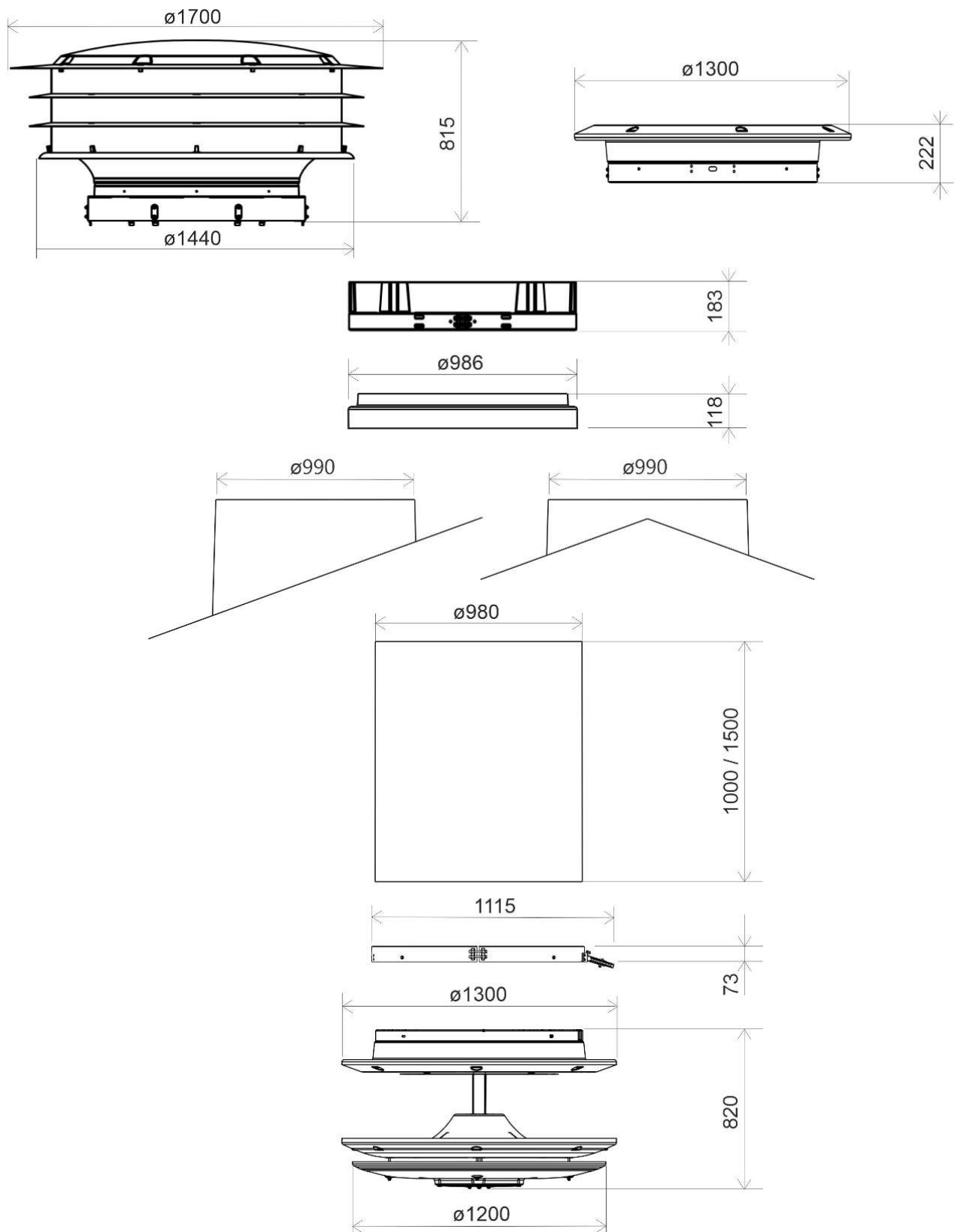
### 3.2.1 Erp/Ecodesign ECT 920-1E

Fan type		ECT 920-1E
Ecodesign		EU 327/2011 Lot 11
Efficiency classification	N	57.8
Efficiency ( $\eta$ )	%	-
Measurements set-up		A
Efficiency category		Static
VSD required		No
Year of production		2014
Name of manufacturer		ZIEHL-ABEGG
Item number		409161
Motor power input	kW	0.94
Flow rate	m <sup>3</sup> /s	4.27
Optimum pressure	Pa	126
Total pressure	Pa	-
Revolutions per minute	RPM	950
Pressure conditions		1
Recycling/Disposal		The product is designed to be recycled and customers will be able to deliver their used products to their local collection points/ recycling centers in accordance with local instructions
Environmental impact		-
Components used for determining the energy efficiency of the fan.		-

### 3.3 Dimensioned sketch

#### 3.3.1 DA 60-920 equal pressure

Dimensions in mm.





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