



Ventilation for professional kitchens



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# Ventilation for professional kitchens

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In professional kitchens, keeping the air clean is a challenge. Grease, odours and steam are constantly generated from cooking. We have effective ventilation and filtration solutions that facilitate heat recycling and reduce the risk of fire, which in turn creates a safe environment for staff and greater comfort for guests.



## Stylish kitchen hoods for all types of kitchens

We know that no two kitchens are the same. That's why we only work with stylishly designed kitchen hoods that can be equipped with a number of different functions, depending on the layout of the kitchen and the needs of the business. And we know that it takes careful planning and accurate calculations to achieve an optimal outcome. That's why we offer qualified project planning and equipment support for every installation.

# 5

### benefits of our kitchen hoods

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#### High flexibility

Units for exhaust air, supply air, control air and filtration in one and the same hood.

#### Easy cleaning

Recessed supply air terminals, integrated lighting and smooth surfaces make it easy to keep the hoods clean.

#### Smooth installation

The hoods are delivered in factory-assembled modules that are easy to put together and install.

#### Optimised functionality

We offer qualified assistance regarding choice of equipment, dimensioning, installation and settings.

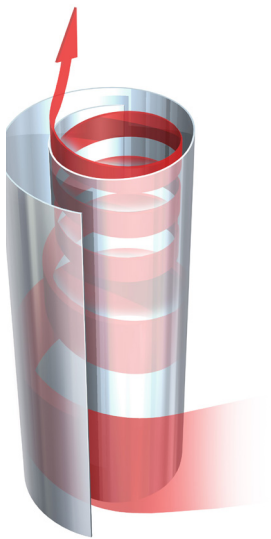
#### High level of purification

Effective grease filters and extended purification systems enables efficient heat recycling and reduce the risk of fire.

## Effective and safe grease separation

Cyklotec is a highly efficient cyclone filter specially developed for grease separation when using griddles, deep fryers and other types of equipment that generate high levels of grease. For particularly demanding environments and highly efficient heat recycling, the UV Safe filtration system is also available, where the cyclone filter is used in combination with UV light and ozone to clean the air of grease and eliminate odours.

Cyklotec and UV Safe can be used in all our kitchen hoods and are installed directly in the hood via a filter cassette. With reduced amounts of grease in the exhaust duct, the risk of fire is significantly reduced. Cyklotec can also be combined with the Ansulex fire extinguishing system to create point protection above kitchen appliances.



Our patented Cyklotec cyclone filter is specially developed for grease separation when using griddles, deep fryers and other types of equipment that generate high levels of grease.

## Integrated fresh air

All our kitchen hoods can be equipped with air terminals for fresh air, which are integrated into the sides of the hood. The fresh air is directed up towards the ceiling and mixes with the existing air, creating a temperate, draught-free climate.







# GastroFlow

Energy-saving professional kitchen hood for equipment that generates grease, such as griddles, deep fryers and ranges.

- › Factory-assembled hood in stainless steel sheet metal, with supply air and exhaust air
- › Control air along the sides of the hood effectively captures odours
- › Recessed supply air terminal on the front, with adjustable comfort nozzle at the bottom
- › Highly efficient cyclone filter for good fire safety and easy cleaning of exhaust air ducts
- › Easy installation with small modules and rail system
- › Accessories: Recessed LED lighting, protection class IP 65, Expanded purification with UV-C light, Fire extinguishing system

## Function

The hood lets fresh air into the kitchen via the supply air terminal.

Part of the air can be directed in the desired direction with the help of an adjustable comfort nozzle at the bottom of the air terminal.

Contaminated air is drawn up and retained in the hood with the help of the control air, which also prevents leakage of contaminated air.

Grease and particles are removed from the exhaust air with the help of efficient cyclone filters. The filtered air is then discharged via the exhaust air duct.

## Design

The hood can be manufactured with the desired number of sides and is delivered in prefabricated modules (module length 100 mm - 1100 mm).

- › Sides in stainless steel sheet metal
- › Cyklotec cyclone filter with damper and pressure tap
- › Recessed LED lighting, protection class IP 65
- › Integrated supply air terminals with damper, pressure tap,
- › inspection hatch and adjustable comfort nozzle
- › Built-in fan for control air



## Recessed lightning

The recessed lighting fixture is approved to protection class IP 65, which means that it is dust-tight and can be exposed to water. The lighting fixture is equipped with energy-saving LED. The colour temperature is 4000 K and the colour rendering value RA(CRI) is 90.

The lighting fixture is easy to install and connect, with only a single connection point. A 2 m extension cord is also included for further connection. The drive unit is equipped with support for DALI.

Amount of light lm	Length mm	Output W
2000	710	18
3000	1010	27

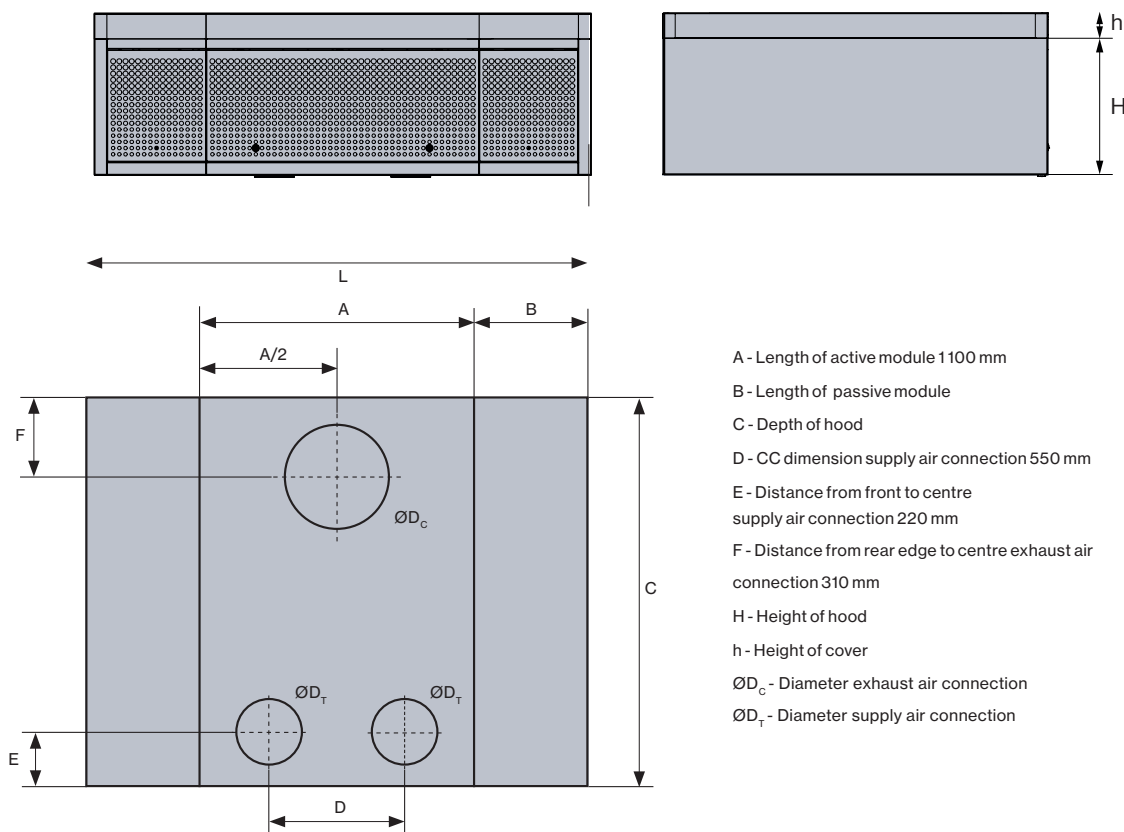


## Dimensions

Height:  $H = 550$  mm.

Length and depth is optional. The hood is delivered in modules, the largest of which is  $1100 \times 1800$  mm.

The connections for supply air and exhaust air have spigot connections with rubber ring seals. The height of the cover is adapted to the distance between the ceiling and the upper edge of the hood.



A - Length of active module 1100 mm

B - Length of passive module

C - Depth of hood

D - CC dimension supply air connection 550 mm

E - Distance from front to centre supply air connection 220 mm

F - Distance from rear edge to centre exhaust air connection 310 mm

H - Height of hood

h - Height of cover

$\varnothing D_C$  - Diameter exhaust air connection

$\varnothing D_T$  - Diameter supply air connection

## Exhaust air

The exhaust air flow determines how many filter cassettes are needed in the cyclone filter. For effective grease separation, a pressure drop of at least 20 Pa across the cyclone filter is recommended, which corresponds to the lower exhaust air flow rate in the table below. At the higher exhaust air flow rate, a pressure drop of 80-90 Pa is recommended.

Exhaust air l/s	Number of filter cassettes	$\varnothing D_C$ mm	$L_C$ mm
60 - 150	1	250	1100
120 - 250	2	250	1100
170 - 340	3	400	1100
215 - 430	4	400	1100
250 - 520	5	400	1100

## Supply air

Modules with a functional length of 1100 mm have integrated supply air terminals on the front. The front can be opened for inspection and fine-tuning of the air flow. The supply air flow per module is 100-350 l/s, distributed over two connections of 250 mm each.

## Control air

The control air flow rate is 5.5 l/s per metre along the entire hood. The control air is taken from the room air and is pressurised with the help of an integrated fan. The fan can be inspected via the hood's front hatch.

# Supply air hood AT

Professional kitchen hood for equipment that generates grease, such as griddles, deep fryers and ranges.

- › Factory-assembled hood with supply air, control air and exhaust air
- › Elegant recessed supply air terminal with adjustable comfort nozzle
- › Highly efficient cyclone filter for increased fire safety and easier cleaning of exhaust air ducts
- › Sides in stainless steel sheet metal or laminated glass
- › Recessed LED lighting in protection class IP 65
- › Accessories: UV light purification and fire extinguishing system



## Function

Fresh air is supplied to the kitchen via the hood's supply air terminal. With the adjustable comfort nozzle located at the front of the air terminal, kitchen personnel can direct a small amount of air in the desired direction. Contaminated air is drawn up into the hood's efficient cyclone filter. The filtered air is then discharged via the exhaust air duct. The control air enhances the hood's efficiency and prevents contaminated air from leaking out from under the edge of the hood.

## Design

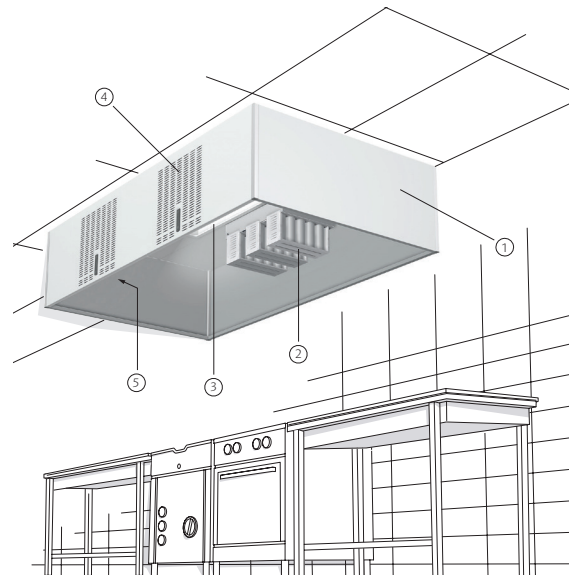
The hood is manufactured with the desired number of sides and is delivered factory-assembled.

1. Sides in stainless steel sheet metal or 3+3 mm laminated glass
2. Cyklotec cyclone filter with damper and pressure tap
3. Recessed LED lighting, protection class IP 65
4. Integrated supply air terminals with damper, pressure tap, inspection hatch and adjustable comfort nozzle
5. Control air

## Recessed lighting

The lighting fixture is completely recessed and approved to protection class IP 65, which means that it is dust-tight and can be exposed to water. The fixture is equipped with energy-saving LED lighting (2000, 4000 and 5000 lumens). The colour temperature is 4000 K and the colour rendering value RA(CRI) is 90.

The fixture is equipped with a 2 m extension cord with connector for easy further connection. Quick assembly with only one connection point. The fixture's length and wattage is 710 mm / 18 W, 1310 mm / 36 W and 1610 mm / 45 W. The drive unit is equipped with support for DALI.



The integrated supply air terminals can be positioned as desired on one or more sides of the hood

## Example description text

Supply air hood AT, manufactured by Acticon, with sides in laminated glass (or, alternatively, brushed stainless steel sheet metal).

Supply, control and exhaust air, and recessed LED lighting in protection class IP 65.

Supply air and exhaust air connections with damper and pressure tap.

Integrated supply air terminal with adjustable comfort nozzle.

Cyklotec cyclone filter with 100% separation of particles; 7 µm at recommended flow and 9 µm at half flow.

Cover from upper edge of hood to room ceiling.

## Specifications

AT	-	G	-	4	-	2200	x	1200	x	550	-	2 x 250	-	1x400+360	1/s	-	400	1/s			
		R = Stainless steel sheet metal		G = Laminated glass		Number of sides		Length i mm		Depth i mm		Height i mm		Supply air connections: number x diameter		Exhaust air connection: number x diameter		Supply air in l/s		Exhaust air in l/s	

## Dimensions

Height of hood  $H = 550$  mm or  $350$  mm.

The length and depth may be freely selected. If the length x depth is greater than  $3000 \times 1800$  mm, the hood is delivered in two or more modules. The connections for supply and exhaust air have spigot connections with rubber ring seals. The height of the cover is adapted to the distance between the upper edge of the hood and the room ceiling.

## Exhaust air

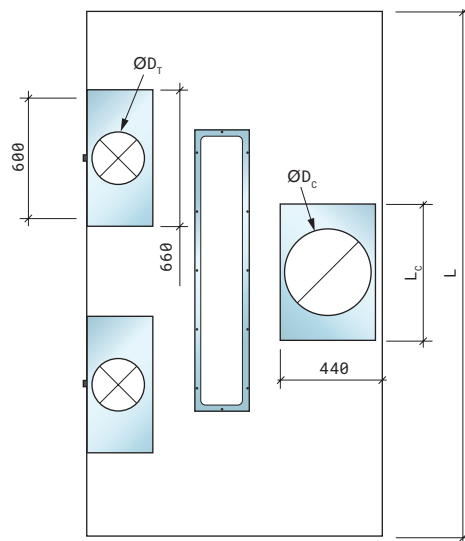
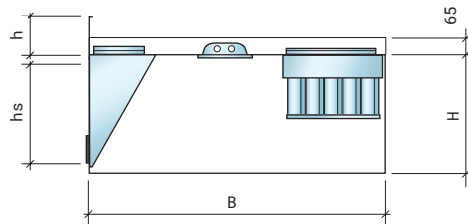
The number of filter cassettes in the Cyklotec cyclone filter is determined by the exhaust air flow. For effective separation, a pressure drop of at least  $20$  Pa across the Cyklotec filter is recommended, which corresponds to the lower exhaust air flow rate in the table below. At the higher air flow, the pressure drop is  $80$ - $90$  Pa.

Exhaust air l/s	Number of filter cassettes	$\varnothing D_c$ mm	$L_c$ mm
60 - 150	1	250	295
120 - 250	2	250	400
170 - 340	3	400	620
215 - 430	4	400	840
250 - 520	5	400	1060

## Supply air

The table shows how much air that can be supplied per supply air distribution unit. Each air terminal, within its flow range, is delivered set to a static pressure drop of  $20$  Pa.

Supply air l/s	Height of hood	Height of supply air distributor $h_s$	Connection $\varnothing D_r$ mm
50-110	350	260	200
50-110	550	260	200
90-195	550	460	250

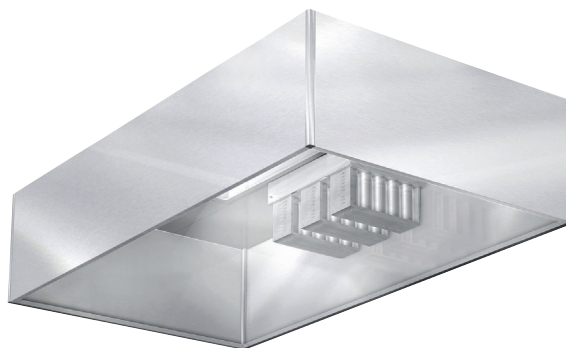


- $h$  = height of cover
- $H$  = height of hood
- $B$  = depth of hood
- $L$  = length of hood
- $h_s$  = height of supply air distributor
- $\varnothing D_r$  = diameter supply air connection
- $\varnothing D_c$  = diameter exhaust air connection
- $L_c$  = length of filter housing

# Control air hood AE

Professional kitchen hood for equipment that gives off grease. Particularly well suited for installation above combi ovens.

- › Factory-assembled hood with control air and exhaust air
- › Control air for enhanced odour capture capacity
- › Highly efficient cyclone filter for increased fire safety and easier cleaning of exhaust air ducts
- › Sides in stainless steel sheet metal
- › Recessed LED lighting in protection class IP 65
- › Accessories: UV light purification and fire extinguishing system



## Function

Contaminated air is drawn up into the hood and the control air, in combination with the exhaust air, forces the fumes and smoke towards the efficient cyclone filter. The filtered air is then discharged via the exhaust air duct.

## Design

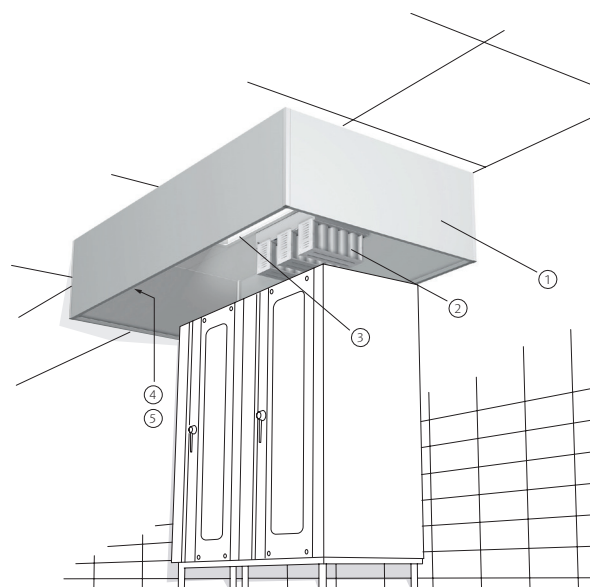
The hood is manufactured with the desired number of sides and is delivered factory-assembled.

1. Sides in brushed stainless steel sheet metal
2. Cyklotec cyclone filter with damper and pressure tap
3. Recessed LED lighting, protection class IP 65
4. Control air distributor with damper and pressure tap
5. Opening for supply of control air

## Recessed lighting

The lighting fixture is completely recessed and approved to protection class IP 65, which means that it is dust-tight and can be exposed to water. The fixture is equipped with energy-saving LED lighting (2000, 4000 and 5000 lumens). The colour temperature is 4000 K and the colour rendering value RA(CRI) is 90.

The fixture is equipped with a 2 m extension cord with connector for easy further connection. Quick assembly with only one connection point. The fixture's length and wattage is 710 mm / 18 W, 1310 mm / 36 W and 1610 mm / 45 W. The drive unit is equipped with support for DALI.



Recessed LED lighting in protection class IP 65 is included as standard in our hoods

## Example description text

Control air hood AE, manufactured by Acticon, with sides in brushed stainless steel sheet metal.

Control and exhaust air, and recessed LED lighting in protection class IP 65.

Control air and exhaust air connections with damper and pressure tap.

Cyklotec cyclone filter with 100% separation of particles; 7 µm at recommended flow and 9 µm at half flow.

Cover from upper edge of hood to room ceiling.



## Specifications

AE	- 4	- 2200	x 1200	x 550	- 2 x 100	- 1x400+30	1/s	- 500	1/s
Number of sides		Length in mm	Depth in mm	Height in mm	Control air connections: number x diameter	Exhaust air connection: number x diameter	Control air in l/s		Exhaust air in l/s

## Dimensions

Height of hood  $H = 550$  mm or  $350$  mm.

The length and depth may be freely selected. If the length x depth is greater than  $3000 \times 1800$  mm, the hood is delivered in two or more modules. The connections for control and exhaust air have spigot connections with rubber ring seals. The width of the control air distributor is  $1000$  mm, and its connection is  $\varnothing 100$  mm.

## Exhaust air

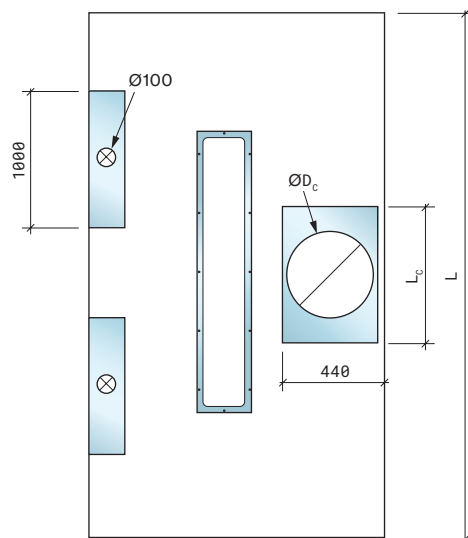
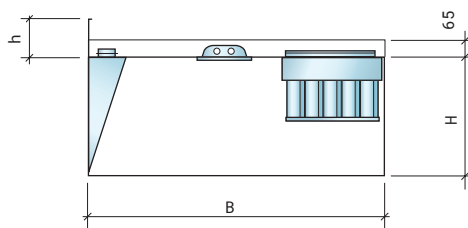
The number of filter cassettes in the Cyklotec cyclone filter is determined by the exhaust air flow. For effective separation, a pressure drop of at least  $20$  Pa across the Cyklotec filter is recommended, which corresponds to the lower exhaust air flow rate in the table below. At the higher air flow, the pressure drop is  $80$ - $90$  Pa.

Exhaust l/s	Number of filter cassettes	$\varnothing D_c$ mm	$L_c$ mm
60 - 150	1	250	295
120 - 250	2	250	400
170 - 340	3	400	620
215 - 430	4	400	840
250 - 520	5	400	1060

## Control air

Control air flow:  $7$  -  $15$  l/s per control air distributor.

Noise level is less than  $25$  dB(A) in the entire flow range.

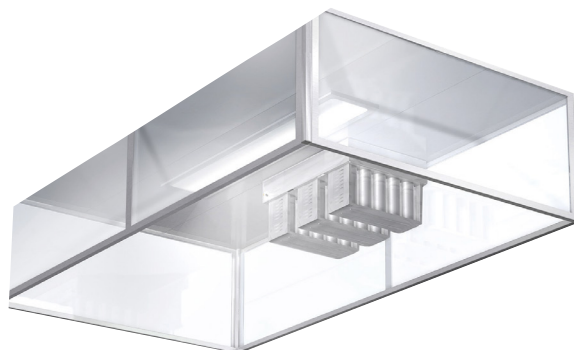


- $h$  = height of cover
- $H$  = height of hood
- $B$  = depth of hood
- $L$  = length of hood
- $\varnothing D_c$  = diameter exhaust air connection
- $L_c$  = length of filter housing

# Exhaust air hood AF

Professional kitchen hood for equipment that generates grease, such as griddles, deep fryers and ranges.

- › Factory-assembled hood with exhaust air
- › Highly efficient cyclone filter for increased fire safety and easier cleaning of exhaust air ducts
- › Sides in stainless steel sheet metal or laminated glass
- › Recessed LED lighting in protection class IP 65
- › Accessories: UV light purification and fire extinguishing system



## Function

Contaminated air is drawn up into the hood towards the efficient cyclone filters. The filtered air is then discharged via the exhaust air duct.

## Design

The hood is manufactured with the desired number of sides and is delivered factory-assembled.

1. Sides in stainless steel sheet metal or 3+3 mm laminated glass
2. Cyklotec cyclone filter with damper and pressure tap
3. Recessed LED lighting in protection class IP 65

## Recessed lighting

The lighting fixture is completely recessed and is approved to protection class IP 65, which means that it is dust-tight and can be exposed to water. The fixture is equipped with energy-saving LED lighting (2000, 4000 and 5000 lumens). The colour temperature is 4000 K and the colour rendering value RA(CRI) is 90.

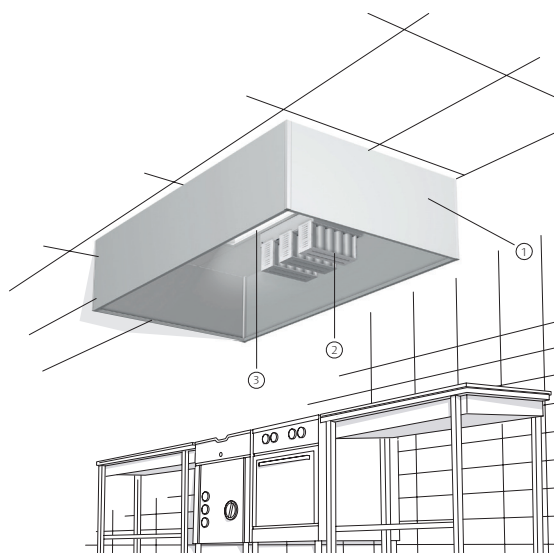
The fixture is equipped with a 2 m extension cord with connector for easy further connection. Quick assembly with only one connection point. The fixture's length and wattage is 710 mm / 20 W, 1310 mm / 44 W and 1610 mm / 55 W. The drive unit is equipped with support for DALI.

## Example description text

Exhaust air hood AF, manufactured by Acticon, with sides in brushed stainless steel sheet metal (or, alternatively, laminated glass).

Exhaust air and recessed LED lighting in protection class IP 65. Exhaust air connections with damper and pressure tap.

Cyklotec cyclone filter with 100% separation of particles; 7 µm at recommended flow and 9 µm at half flow. Cover from upper edge of hood to room ceiling.



The efficient cyclone filter works equally well when the fan is operating at full or half speed

## Specifications

AF - R - 4 - 2200 x 1200 x 550 - 1 x 400 - 400 l/s  
 R = Stainless steel sheet metal  
 G = Laminated glass  
 Number of sides  
 Length in mm  
 Depth in mm  
 Height in mm  
 Exhaust air connections :  
 number x diameter  
 Exhaust air in l/s

## Dimensions

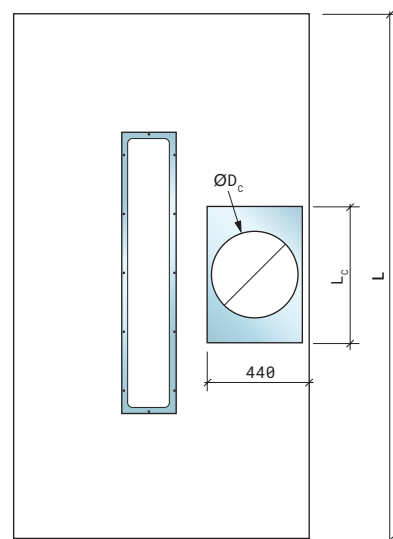
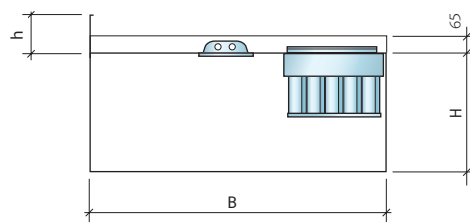
Height of hood H = 550 mm or 350 mm.

The length and depth may be freely selected. If the length x depth is greater than 3000 x 1800 mm, the hood is delivered in two or more modules. The connections for control and exhaust air have spigot connections with rubber ring seals. The width of the control air distributor is 1000 mm, and its connection is Ø100 mm.

## Exhaust air

The number of filter cassettes in the Cyklotec cyclone filter is determined by the exhaust air flow. For effective separation, a pressure drop of at least 20 Pa across the Cyklotec filter is recommended, which corresponds to the lower exhaust air flow rate in the table below. At the higher air flow, the pressure drop is 80-90 Pa.

Exhaust air l/s	Number of filter cassettes	ØD <sub>c</sub> mm	L <sub>c</sub> mm
60 - 150	1	250	295
120 - 250	2	250	400
170 - 340	3	400	620
215 - 430	4	400	840
250 - 520	5	400	1060



h = height of cover  
 H = height of hood  
 B = depth of hood  
 L = length of hood  
 ØD<sub>c</sub> = diameter exhaust air connection  
 L<sub>c</sub> = length of filter housing

# Exhaust air hood Evac-F

Professional kitchen hood for equipment that generates grease, such as griddles, deep fryers and ranges.

- › Parts delivered separately for assembly at the workplace
- › Wire mesh filter or efficient Cyklotec cyclone filter
- › Recessed LED lighting in protection class IP 65
- › Accessories: UV light purification and fire extinguishing system

## Function

The hood draws up contaminated air, filters it and then discharges the filtered air via the exhaust air duct.

Evac-F can also be delivered without filter for installation above e.g. a dishwasher.



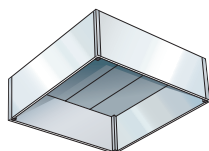
## Design

The hood is made of brushed stainless steel sheet metal or laminated glass (3+3 mm).

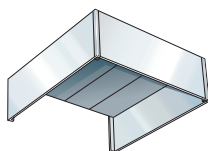
The hood's dimensions are fully customisable based on your needs and preferences, and the parts are delivered unassembled for cost-effective transport and easy assembly at the workplace.

## Accessories

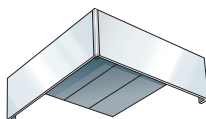
- › FHV and FHC filter housing with wire mesh filter, damper and pressure tap
- › Cyklotec cyclone filter for highly efficient grease separation
- › UV Safe grease and odour reduction with UV light and ozone
- › Ansulex fire extinguishing system for professional kitchens



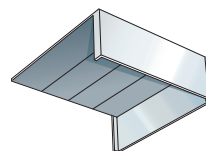
4-sided



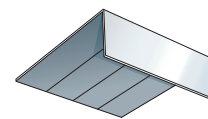
3-sided



2-sided left - 2V



2-sided right - 2H



1-sided, screen

Examples of available basic models of Evac-F.  
All models are available with or without a top.

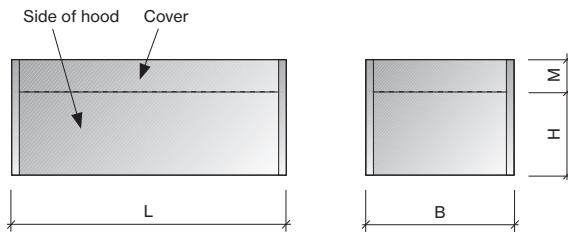


## Specifications

F	-	R	-	E	-	2H	-	2000	x	1000	x	500	-	250
R = Stainless steel sheet metal				G = Laminated glass										
Top in anodised aluminium														
Number of sides						Length in mm				Depth in mm				
										Height of side of hood H in mm				
										Height of cover M in mm				

## Dimensions

Height, length and depth may be freely selected.



## Cassette roof for easy assembly

The hood can be equipped with a sealed top or a distribution roof with air gaps. The sealed top consists of grooved cassettes for easy assembly. The cassettes can easily be removed for inspection and cleaning of ducts. The distribution roof has spacers that prevent the cassettes from being pressed together. If the hood is equipped with both a distribution roof and a sealed upper roof to create a suction chamber, the sealed upper roof is made of commercial-grade aluminium sheeting.

## External lighting

The external lighting fixture is approved to protection class IP 65, which means that it is dust-tight and can be exposed to water. The fixture is equipped with energy-saving LED lighting with DALI control (14, 28 and 49 W). The colour temperature of the fluorescent tube is 3000 K, warm-white. The length of the fixture is approximately 700 mm (14 W), 1300 mm (28 W) or 1600 mm (49 W).

## Example description text

Exhaust air hood Evac-F, manufactured by Acticon, with four sides in stainless steel sheet metal. Sealed sub-top in anodised aluminium. The hood is equipped with LED lighting in protection class IP 65 and FHC filter housing with wire mesh filter.

# Supply air hood Evac-T

Professional kitchen hood for equipment that generates grease, such as griddles, deep fryers and ranges.

- › Kitchen hood with supply air, control air and exhaust air
- › Parts delivered separately for assembly at the workplace
- › Elegant recessed supply air terminal with adjustable comfort nozzle
- › Wire mesh filter or efficient Cyklotec cyclone filter
- › Recessed LED lighting in protection class IP 65
- › Accessories: UV light purification and fire extinguishing system



## Function

The hood lets fresh air into the kitchen via the supply air terminal. Part of the air can be directed in the desired direction with the help of an adjustable comfort nozzle at the front of the air terminal. Contaminated air is drawn up and retained in the control air, which also prevents leakage of contaminated air.

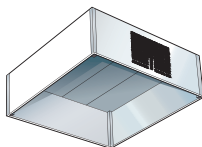
Evac-T is delivered in separate parts for assembly at the workplace. The “flat pack” delivery method facilitates safe and cost-effective transport and easy handling at the workplace.

## Design

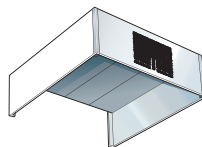
The hood is made of brushed stainless steel sheet metal or layer-glued laminated glass (3+3 mm). The standard height is 350 or 550 mm excluding the cover. Other dimensions may be freely selected. The sides of the hood are delivered in finished sections up to 3 metres in length, for easy installation. The hood is supplied with a sealed cassette top in anodised aluminium or stainless steel sheet metal.

## Accessories

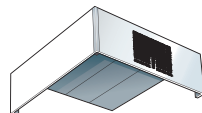
- › FHV and FHC filter housing with wire mesh filter, damper and pressure tap
- › Cyklotec cyclone filter: Highly efficient grease separation
- › UV Safe: Grease and odour reduction with UV light and ozone



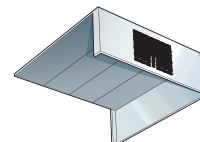
4-sided



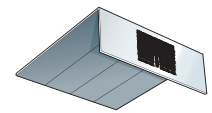
3-sided



2-sided left - 2V



2-sided right - 2H



1-sided, screen

Examples of available basic models of Evac-T.  
Supply air terminals can be placed on the desired number of sides.

## Specifications

T	-	R	-	E	-	3	-	2100	x	1200	x	550	-	200	-	2x250	+	300	l/s	-	400	l/s
R = Stainless steel sheet metal		G = Laminated glass		Top in anodised aluminium		Number of sides		Length in mm		Depth in mm		Height of side of hood H in mm		Height of cover M in mm		Supply air connection s: number x diameter		Supply air in l/s		Exhaust air in l/s		

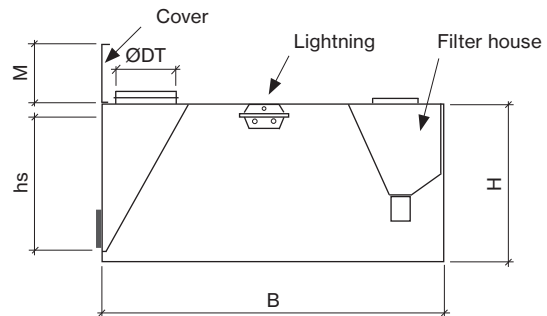
## Dimensions

Height of hood H = 550 or 350 mm.

Length and depth: optional

Height of cover M = optional

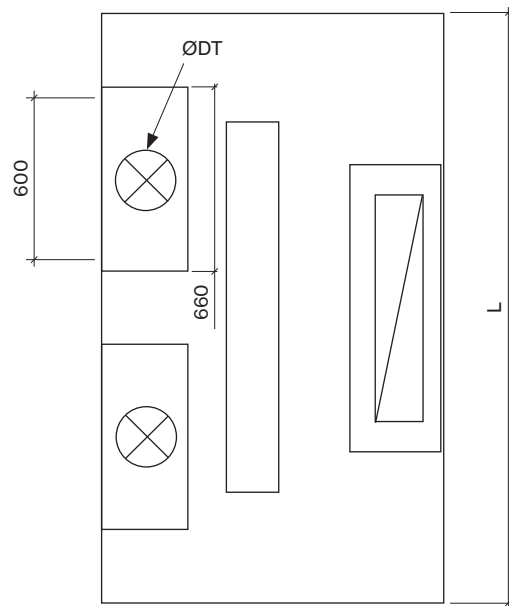
The supply air connections have spigot connections with rubber ring seals.



## Recommended air flows

Exhaust air: see filter under the heading ACCESSORIES

Supply air: The table shows how much air that can be supplied per supply air distribution unit. Each air terminal, within its flow range, is delivered set to a static pressure drop of 20 Pa.



## External lighting

The external lighting fixture is approved to protection class IP 65, which means that it is dust-tight and can be exposed to water.

The fixture is equipped with energy-saving LED lighting with DALI control (14, 28 and 49 W). The colour temperature of the fluorescent tube is 3000 K, warm-white. The length of the fixture is approximately 700 mm (14 W), 1300 mm (28 W) or 1600 mm (49 W).

## Example description text

Supply air hood Evac-T, manufactured by Acticon, with three sides in stainless steel sheet metal. Top in anodised aluminium. The hood is equipped with LED lighting in protection class IP 65 and integrated supply air terminals. FHV filter housing with wire mesh filter.

- M = height of cover
- H = height of hood
- B = depth of hood
- L = length of hood
- hs = height of supply air distributor
- ØD<sub>T</sub> = diameter supply air connection

# Condensation hood with supply air AKT

Professional kitchen hood for equipment that gives off steam and heat, such as boiling pots and dishwashers.

- › Factory-assembled hood with supply and exhaust air
- › Elegant recessed supply air terminal
- › Efficient and removable condensation separator
- › Sloping inner ceiling to prevent condensation from dripping
- › Sides in stainless steel sheet metal
- › LED lighting with DALI control



## Function

Fresh air is supplied to the kitchen via the hood's supply air terminal. With the adjustable comfort nozzle located at the front of the air terminal, kitchen personnel can direct a small amount of air in the desired direction. Steam and excess heat are sucked up into the hood, where the condensed water is separated. The dehumidified exhaust air is discharged via the exhaust air duct. The sloping ceiling prevents condensation from dripping from the hood.

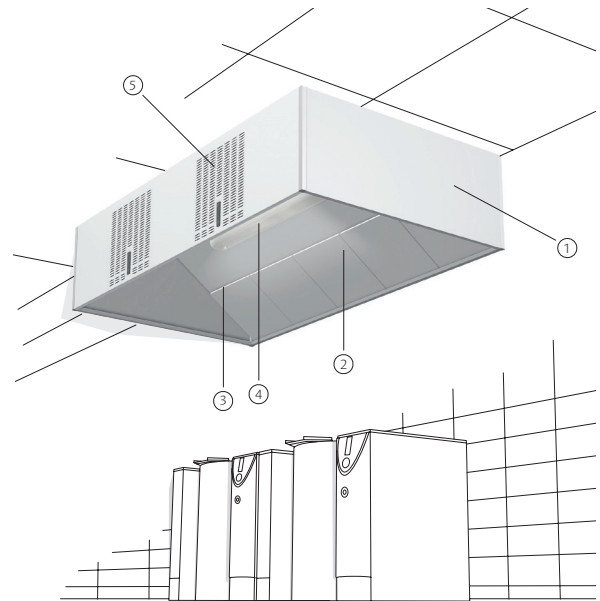
## Design

The hood is delivered factory-assembled with four sides.

1. Sides in brushed stainless steel sheet metal
2. Condensation separator in stainless steel sheet metal
3. Pressure tap exhaust air
4. LED lighting, protection class IP 65
5. Integrated supply air terminal with damper, pressure tap, inspection hatch and adjustable comfort nozzle. The air terminals are placed on the long sides of the hood.

## External lighting

The external lighting fixture is approved to protection class IP 65, which means that it is dust-tight and can be exposed to water. Supplied with LED lighting with colour temperature 4000 K and DALI control.



The condensation separators are easy to remove and clean

## Example description text

Condensation hood AKT, manufactured by Acticon, with sides in brushed stainless steel sheet metal. Supply air and exhaust air, and LED lighting with DALI control.

Supply air and exhaust air connections with damper and pressure tap.

Integrated supply air terminal with adjustable comfort nozzle.

Removable condensation separator. Cover from upper edge of hood to room ceiling.



## Specifications

AKT - 2200 x 1200 x 550 - 2 x 250 - 2 x 315 + 350 l/s - 390 l/s
Length in mm
Depth in mm
Height in mm
Supply air connections: number x diameter
Exhaust air connections: number x diameters
Supply air in l/s
Exhaust air in l/s

## Dimensions

Height of hood  $H = 550$  mm or  $350$  mm.

Depth  $B =$  maximum  $1700$  mm when the height of the hood is  $550$  mm and maximum  $1300$  mm when the height is  $350$  mm.

The length of the hood may be freely selected. When the length is greater than  $3000$  mm, the hood is delivered in two or more modules.

The connections for supply and exhaust air have spigot connections with rubber ring seals.

## Exhaust air

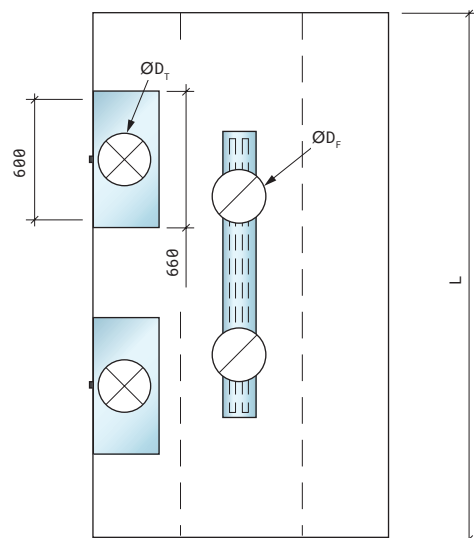
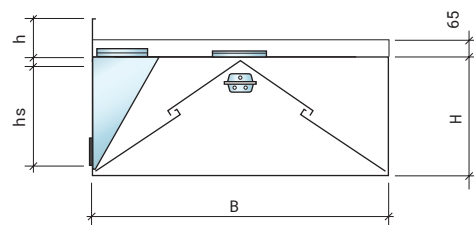
The condensation separator is dimensioned for a pressure drop of  $10$ - $70$  Pa. The table shows suitable diameters  $\varnothing D_F$  for the exhaust air connection at different exhaust air flows.

Exhaust Air l/s	Exhaust air connection $\varnothing D_F$
0-100	200
100-150	250
150-250	315
250-420	400

## Supply air

The table shows how much air that can be supplied per supply air distribution unit. Each air terminal, within its flow range, is delivered set to a static pressure drop of  $20$  Pa.

Supply air l/s	Height of hood	Height of distributor $h_s$	Connection $\varnothing D_T$ mm
50-110	350	260	200
50-110	550	260	200
90-195	550	460	250



- $h$  = height of cover
- $H$  = height of hood
- $B$  = depth of hood
- $L$  = length of hood
- $h_s$  = height of supply air distributor
- $\varnothing D_T$  = diameter supply air connection
- $\varnothing D_F$  = diameter exhaust air connection

# Condensation hood AK

Kitchen hood for equipment that gives off steam and heat, such as boiling pots and dishwashers.

- › Factory-assembled hood with exhaust air
- › Efficient and removable condensation separator
- › Sloping inner ceiling to prevent condensation from dripping
- › Sides in stainless steel sheet metal
- › LED lighting with DALI control



## Function

Steam and excess heat are sucked up into the hood, where the condensed water is separated. The dehumidified exhaust air is discharged via the exhaust air duct. The sloping ceiling prevents condensation from dripping from the hood.

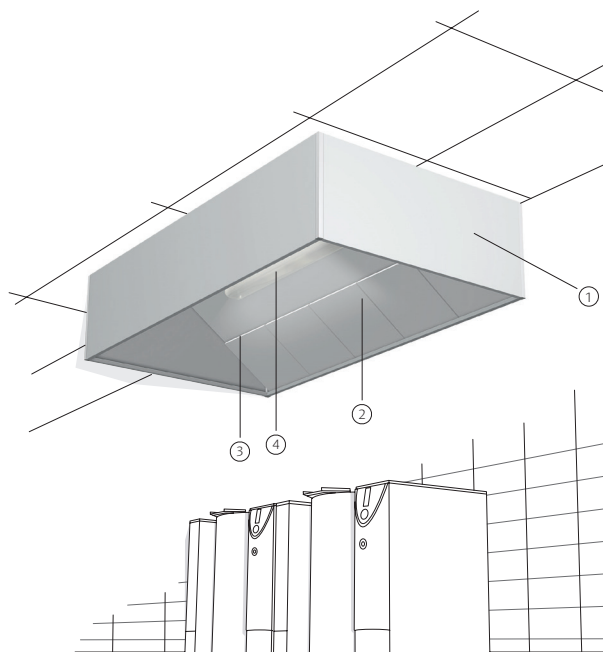
## Design

The hood is delivered factory-assembled with four sides.

1. Sides in brushed stainless steel sheet metal
2. Condensation separator in stainless steel sheet metal
3. Pressure tap exhaust air
4. LED lighting, protection class IP 65

## External lighting

The external lighting fixture is approved to protection class IP 65, which means that it is dust-tight and can be exposed to water. Supplied with LED lighting with colour temperature 4000 K and DALI control.



The lighting fixture complies with IP 65, which means that it can be exposed to water

## Example description text

Condensation hood AK, manufactured by Acticon, with sides in brushed stainless steel sheet metal.

Exhaust air and LED lighting with DALI control.

Exhaust air connections with damper and pressure tap.

Removable condensation separator. Cover from upper edge of hood to room ceiling.

# Specifications

AK –  $\frac{2600}{\text{Length in mm}}$  x  $\frac{1200}{\text{Depth in mm}}$  x  $\frac{550}{\text{Height in mm}}$  –  $\frac{2 \times 315}{\text{Exhaust air connections: number x diameter}}$  –  $\frac{450}{\text{Exhaust air in l/s}}$

## Dimensions

Height of hood  $H = 550$  mm or  $350$  mm.

Depth  $B =$  maximum  $1700$  mm when the height of the hood is  $550$  mm and maximum  $1300$  mm when the height is  $350$  mm.

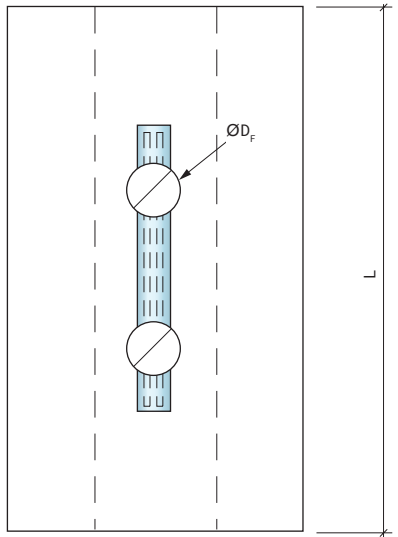
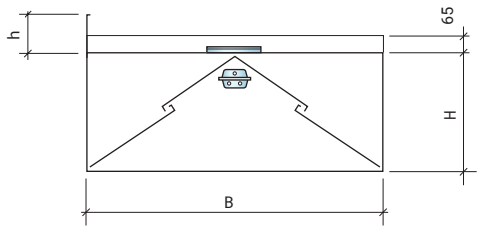
The length of the hood may be freely selected. When the length is greater than  $3000$  mm, the hood is delivered in two or more modules.

The connections for supply and exhaust air have spigot connections with rubber ring seals.

## Exhaust air

The condensation separator is dimensioned for a pressure drop of  $10-70$  Pa. The table shows suitable diameters  $\varnothing D_F$  for the exhaust air connection at different exhaust air flows.

Exhaust air l/s	Exhaust air connection $\varnothing D_F$
0-100	200
100-150	250
150-250	315
250-420	400



- $h$  = height of cover
- $H$  = height of hood
- $B$  = depth of hood
- $L$  = length of hood
- $\varnothing D_F$  = diameter exhaust air connection

# Dishwashing hood ADT with supply air

Professional kitchen hood for dishwashing areas.

- › Factory-assembled hood with supply air, control air and exhaust air
- › Elegant recessed supply air terminal and removable exhaust air grille
- › Control air for enhanced efficiency in areas with high loads of heat and steam
- › Sides in stainless steel sheet metal or laminated glass
- › Recessed LED lighting in protection class IP 65



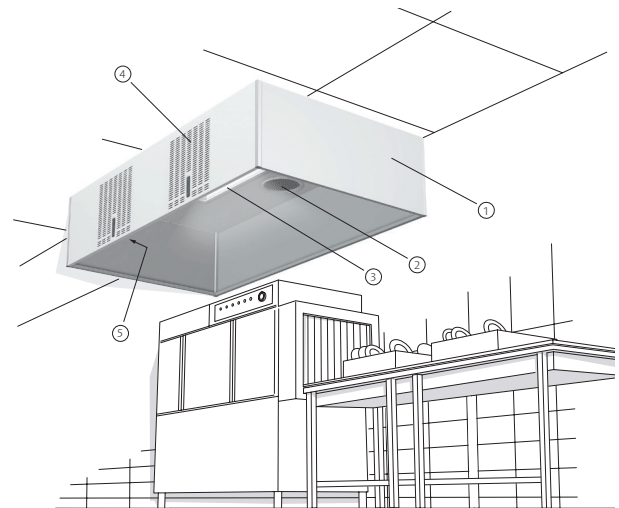
## Functions

Fresh air is supplied to the kitchen via the hood's supply air terminal. With the adjustable comfort nozzle located at the front of the air terminal, kitchen personnel can direct a small amount of air in the desired direction. Heat and moisture are sucked up towards the exhaust air grille in the hood's ceiling and then out into the exhaust air duct.

## Design

The hood is manufactured with the desired number of sides and is delivered factory-assembled.

1. Sides in stainless steel sheet metal or 3+3 mm laminated glass
2. Exhaust air grille in size Ø200-400 mm
3. Recessed LED lighting, protection class IP 65
4. Integrated supply air terminals with damper, pressure tap, inspection hatch and adjustable comfort nozzle
5. Control air



The air terminals are discreetly integrated into the sides of the hood. The technology is concealed behind the front

## Recessed lighting

The lighting fixture is completely recessed and approved to protection class IP 65, which means that it is dust-tight and can be exposed to water. The fixture is equipped with energy-saving LED lighting (2000, 4000 and 5000 lumens). The colour temperature is 4000 K and the colour rendering value RA(CRI) is 90.

The fixture is equipped with a 2 m extension cord with connector for easy further connection. Quick assembly with only one connection point. The fixture's length and wattage is 710 mm / 18 W, 1310 mm / 36 W and 1610 mm / 45 W. The drive unit is equipped with support for DALI.

## Example description text

Dishwashing hood ADT, manufactured by Acticon, with sides in laminated glass (or, alternatively, brushed stainless steel sheet metal). Supply, control and exhaust air, and recessed LED lighting in protection class IP 65.

Supply air connections with damper and pressure tap.

Integrated supply air terminal with adjustable comfort nozzle.

Sleeve coupling with removable grille for exhaust air.

Cover from upper edge of hood to room ceiling.

## Specifications

ADT-G-4-2700x1100x550-2x250-1x400+320	1/s-350	1/s
R = Stainless steel sheet metal		
G = Laminated glass		
Number of sides		
Length in mm		
Depth in mm		
Height in mm		
Supply air connections: number x diameter		
Exhaust air connection: number x diameter		
Supply air in l/s		
Exhaust air in l/s		

## Dimensions

Height of hood  $H = 550$  mm or  $350$  mm.

The length and depth may be freely selected. If the length x depth is greater than  $3000 \times 1800$  mm, the hood is delivered in two or more modules. The connection for supply and exhaust air

has a spigot connection with a rubber ring seal.

## Exhaust air

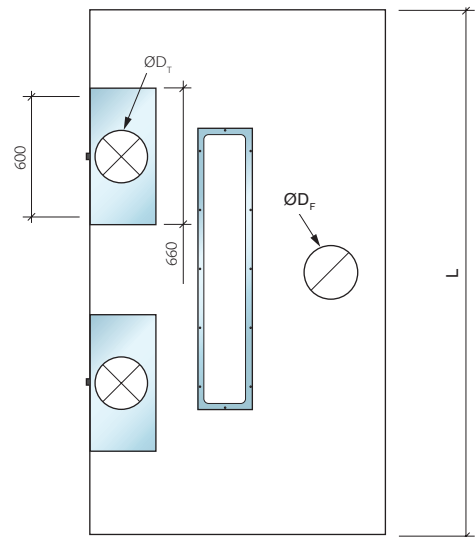
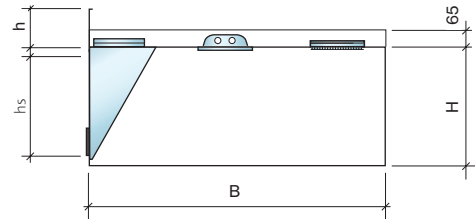
The table shows suitable diameters  $\varnothing D_F$  for the exhaust air connection at different exhaust air flows.

Exhaust air l/s	Exhaust air connection $\varnothing D_F$
0-100	200
100-150	250
150-250	315
250-420	400

## Supply air

The table shows how much air that can be supplied per supply air distribution unit. Each air terminal, within its flow range, is delivered set to a static pressure drop of 20 Pa.

Supply air l/s	Height of hood	Height of distributor $h_s$	Connection $\varnothing D_T$ mm
50-110	350	260	200
50-110	550	260	200
90-195	550	460	250



$h$	= height of cover
$H$	= height of hood
$B$	= depth of hood
$L$	= length of hood
$h_s$	= height of supply air distributor
$\varnothing D_T$	= diameter supply air connection
$\varnothing D_F$	= diameter exhaust air connection



# Dishwashing hood AD

Kitchen hood designed for dishwashing areas.

- › Factory-assembled hood with exhaust air
- › Removable exhaust air grille
- › Sides in stainless steel sheet metal or laminated glass
- › Recessed LED lighting in protection class IP 65



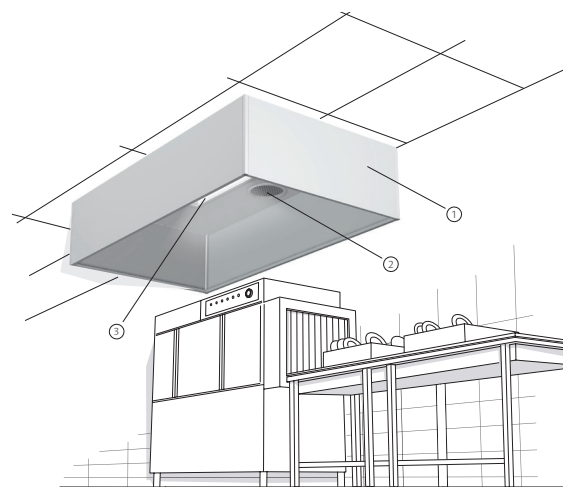
## Function

Hot and humid air is sucked up into the hood and is discharged via the exhaust air grille and exhaust air duct.

## Design

The hood is manufactured with the desired number of sides and is delivered factory-assembled.

1. Sides in stainless steel sheet metal or 3+3 mm laminated glass
2. Exhaust air grille in size Ø200-400 mm
3. Recessed LED lighting, protection class IP 65



Dishwashing hoods are usually delivered with two or three sides.

## Recessed lighting

The lighting fixture is completely recessed and is approved to protection class IP 65, which means that it is dust-tight and can be exposed to water. The fixture is equipped with energy-saving LED lighting (2000, 4000 and 5000 lumens). The colour temperature is 4000 K and the colour rendering value RA(CRI) is 90.

The fixture is equipped with a 2 m extension cord with connector for easy further connection. Quick assembly with only one connection point. The fixture's length and wattage is 710 mm / 18 W, 1310 mm / 36 W and 1610 mm / 45 W. The drive unit is equipped with support for DALI.

## Example description text

Dishwashing hood AD, manufactured by Acticon, with sides in brushed stainless steel sheet metal (or, alternatively, laminated glass).

Exhaust air and recessed LED lighting in protection class IP 65. Sleeve coupling with removable grille for exhaust air.

Cover from upper edge of hood to room ceiling.

### Specifications

AD	-	R	-	4	-	2800	x	1200	x	550	-	1	x	315	-	230	l/s
		R = Stainless steel sheet metal G = Laminated glass		Number of sides		Length in mm		Depth in mm		Height in mm		Exhaust air connection: number x diameter		Exhaust l/s			

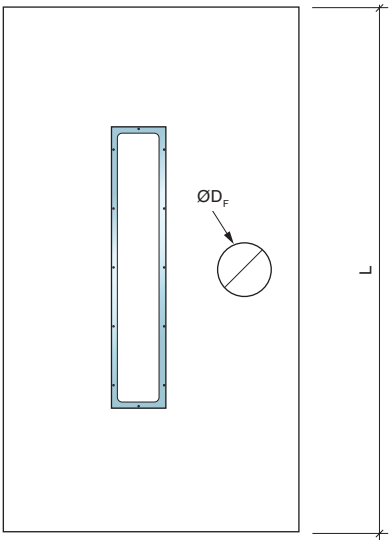
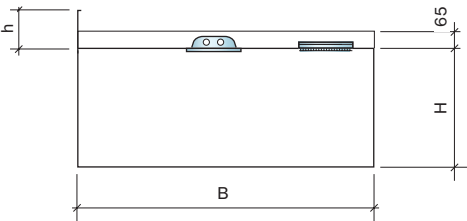
### Dimensions

Height of hood  $H = 550$  mm or  $350$  mm.  
The length and depth may be freely selected. If the length x depth is greater than  $3000 \times 1800$  mm, the hood is delivered in two or more modules. The exhaust air connection has a spigot connection with a rubber ring seal.

### Exhaust air

The table shows suitable diameters  $\varnothing D_F$  for the exhaust air connection at different exhaust air flows.

Exhaust air l/s	Exhaust air connection $\varnothing D_F$
0-100	200
100-150	250
150-250	315
250-420	400



- $h$  = height of cover
- $H$  = height of hood
- $B$  = depth of hood
- $L$  = length of hood
- $\varnothing D_F$  = diameter exhaust air connection

# Cyklotec cyclone filter

Effective grease filter for professional kitchens.

- › Separates all particles larger than 7  $\mu\text{m}$
- › Filters effectively, even at variable flow rates
- › Constant pressure drop always yields the correct exhaust air flow
- › No moving parts or electrical motors
- › Reduced risk of fire and simplified cleaning of duct system

## Description

The Cyklotec cyclone filter consists of a filter housing with damper, pressure tap and a number of filter cassettes. Each cassette contains ten cyclones (spiral-shaped cylinders).

Cyklotec achieves a uniquely high level of grease separation, even at variable air flow rates. The efficient filtration process minimises the risk of fire and reduces maintenance of duct systems. The filter's design prevents clogging and thus always guarantees the correct exhaust air flow.

Since each filter cassette functions within a broad flow rate range, the kitchen's filtration requirements are normally met with just a few cassettes. The cassettes can easily be removed and cleaned in a dishwasher.

## Function

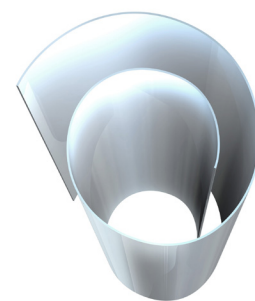
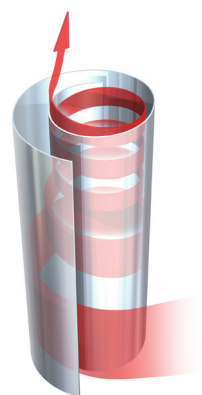
The exhaust air rate in the cyclone determines how effectively the separation of particles occurs. Higher rates make for more effective separation but also a larger pressure drop.

In the range of 20-90 Pa, the cyclone filter works effectively with low noise levels. Cyklotec separates all particles larger than 7  $\mu\text{m}$  at the recommended flow rate and 9  $\mu\text{m}$  at half flow.

Cyklotec can therefore be used with a retained level of particle separation in kitchens where fans are used at both full and half speed.

## Proposal for description text

Cyklotec cyclone filter with 100% separation of particles; 7  $\mu\text{m}$  at recommended flow and 9  $\mu\text{m}$  at half flow.



1. Air containing grease flows into the cyclone
2. When the air circulates at a great speed in the cyclone, the grease and particles are hurled against the walls of the cyclone due to the centrifugal forces exerted
3. Grease and grime drip down the walls to the filter's collection vessel
4. The filtered air flows out of the cyclone filter and is transported into the exhaust air duct

The Cyklotec's filter cylinder has a unique spiral design that creates an accelerated air speed. The aerodynamic design provides much higher air speeds, even at low air flow rates. This is the secret behind Cyklotec's superior performance.

## Design

Filter housing in brushed stainless steel sheet metal.  
Sleeve coupling connection with damper. Pressure tap.  
Filter cassette in stainless steel sheet metal.  
Filter cassettes can be replaced with a piece of blank sheet metal.

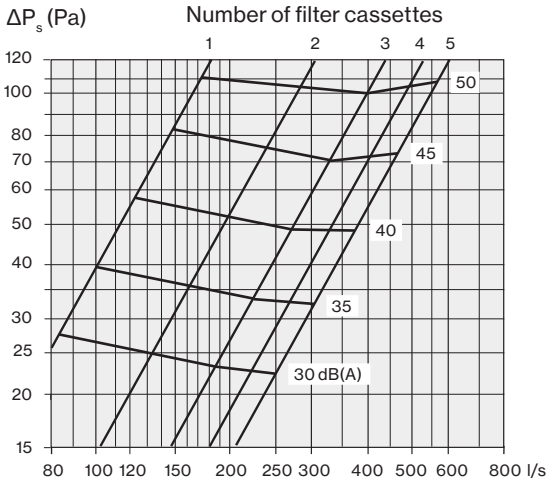
## Exhaust air

The number of filter cassettes in the Cyklotec cyclone filter is determined by the exhaust air flow. For effective separation, a pressure drop of at least 20 Pa across the Cyklotec filter is recommended, which corresponds to the lower exhaust air flow rate in the table below. At the higher air flow, the pressure drop is 80-90 Pa.

Exhaust air l/s	Number of filter cassettes	$\varnothing D_c$ mm	$L_c$ mm
60 - 150	1	250	295
120 - 250	2	315	400
170 - 340	3	400	620
215 - 430	4	400	840
250 - 520	5	400	1060

## Air flow - Pressure drop - Noise level

Reported dB(A) values apply at 10 m<sup>2</sup> Sabine, which corresponds to a room attenuation of 4 dB.

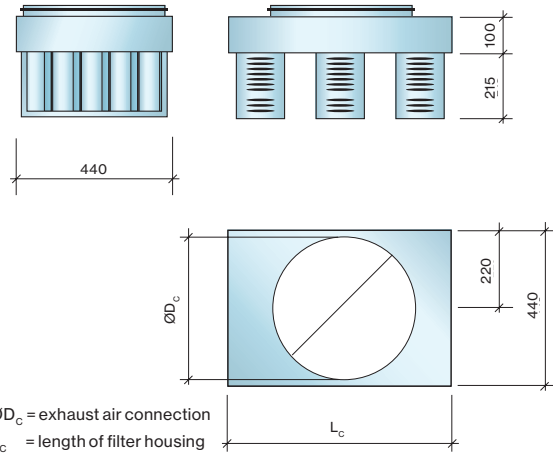


## Sound power level

The sound power level  $L_w$  (dB) divided into octave bands, is obtained by adding the following correction  $K_w$  to the noise level in question.

Tabell  $K_w$  - exhaust air

UV Safe	Frequency, Hz							
	63	125	250	500	1K	2K	4K	8K
	7	6	5	4	-4	-9	-15	-29

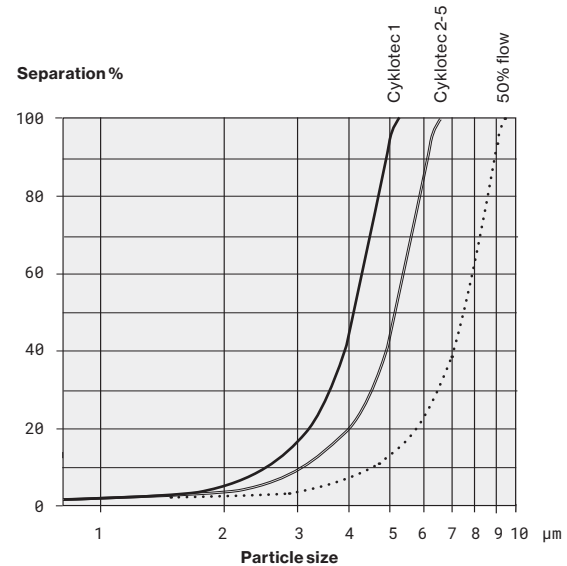


## Particle collection efficiency

The efficiency of the filter has been measured by a certified test institute according to standard VDI 2052.

The diagram shows the filter's particle collection efficiency at the recommended level (80 Pa) and half flow (20 Pa).

It can be noted that, even at half flow, all particles > 9  $\mu$ m are separated.



## Sound attenuation

Reported sound attenuation  $\Delta L$  (dB) relates to the total sound reduction between the duct and room including end reflection.

Tabell  $\Delta L$  (dB) - exhaust air

Number of filter cassettes	Frequency, Hz							
	63	125	250	500	1K	2K	4K	8K
1	20	15	9	5	3	3	2	2
2	17	12	7	3	3	3	2	3
3	15	10	6	3	2	2	1	2
4	14	9	5	2	2	1	0	1
5	13	8	4	2	1	1	1	0

# UV Safe™

Filtration system with UV light and ozone.  
Eliminates grease and reduces odours.

- › Used in situations with very high purification demands on a professional kitchen's exhaust air, e.g. to facilitate heat recycling
- › Reduces kitchen odours that can disturb the surroundings
- › Air-cooled electronics and LED display to ensure optimal functionality
- › Extremely easy installation and maintenance
- › The system complies with the most stringent safety requirements



## How UV Safe works

UV Safe is a complete system for grease and odour reduction in professional kitchens. The exhaust air is filtered in three stages.

1. First, most of the grease particles are separated in the Cyklotec cyclone filter.
2. Additional filtration and temperature reduction then takes place in a wire mesh filter.
3. Finally, the remaining grease and odours are exposed to UV light in the filter housing's reaction chamber. This process also continues in the exhaust air duct.

UV light breaks down the grease's protein chains into smaller components. Ozone then converts the decomposed grease molecules into carbon dioxide, water and a small amount of dust. These residual products are then transported out with the exhaust air. Any excess ozone becomes oxygen.

For the best possible decomposition of grease and odours, the exhaust air needs to be in contact with and react with the ozone for at least two seconds. The duct's length should therefore be dimensioned so that it takes at least two seconds for the air to flow from the filter and out into the open air.

## Fire safety with clean ducts

The efficient 3-stage filtration process minimises the need to clean the exhaust air duct. Since no flammable grease reaches and sticks to the inside of the exhaust duct, the risk of fire spreading via the duct system is also minimised.

## Greater reliability with air-cooled electronics

All electronics, such as ballasts that control the UV lights, are sensitive to high temperatures. At ambient temperatures of around 50 degrees Celsius, the useful life and reliability of electronics already start decreasing dramatically. This can result in not enough current being supplied to the UV lights, in which case the lights do not emit enough power or may even go out completely.

In our design, the ballasts are air-cooled, which ensures full power of the UV lights even at temperatures around or above 90 degrees Celsius in the exhaust air. It is also important to protect the electronics from grease and ozone. We have therefore designed the air cooling process so that all ozone and air containing grease is effectively prevented from coming into contact with the ballasts, EMC filter, holders and cables.

## Reduced odours

Odours are almost always produced when food is prepared. These substances are often in gas form and cannot be captured by conventional filters. The odours therefore escape into the open air together with the exhaust air from the kitchen.

With UV Safe, these odours can be reduced to a minimum. The ozone oxidises with the odour-producing molecules, leaving only water, oxygen and carbon dioxide. Eliminating unpleasant odours with ozone is a well-tested and proven method. This technique is common in areas such as the fish, food and process industries.

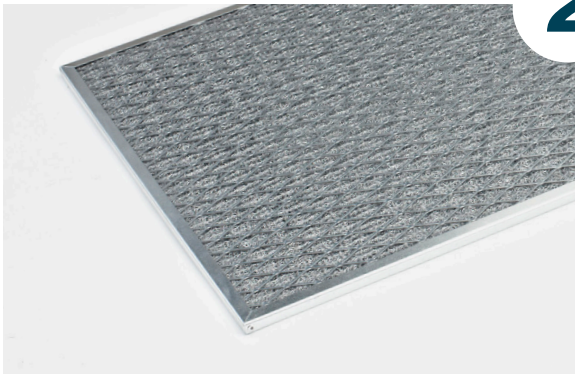


## The exhaust air is filtered in three stages



1

**1.** In the cyclone filter, separation takes place with centrifugal force. Grease condenses against the wall of the cyclone and runs down into the collection vessel



2

**2.** When the air passes through the wire mesh filter, the temperature drops and an even air flow is created. This is important in order to optimise the benefits of the UV light



3

**3.** UV light and ozone are produced by the fluorescent lamp in the filter housing's reaction chamber. When the air flow comes into contact with the UV light and ozone, the remaining grease and odours are broken down

# UV Safe™

## Utilising the heat in the exhaust air

Air containing grease from professional kitchens is not especially suitable for heat recycling, despite the large amount of energy it contains. The hot exhaust air that is filtered with UV Safe is free from grease and is therefore very suitable for heat exchange. Any potential transfer of odours can be avoided by using heat-exchanging batteries with separate supply and exhaust air connections.

When a rotary heat exchanger is used, the system can be supplemented with activated carbon filters from Acticon to avoid any potential transfer of odours.

## Activated carbon filters

Our activated carbon filters absorb gaseous contaminants. In order to achieve optimal filtration, it is important that the contaminated air is in contact with the activated carbon for as long as possible. A contact time of 0.25 seconds is sufficient in most cases. Over time, the activated carbon becomes saturated and the filtration capacity declines. The useful life of the filter is dependent on the amount of activated carbon and contaminants. The normal useful life varies from six months to two years.

## Control panel

UV Safe is controlled via the control panel. All necessary information can be found on the panel. At the bottom of the panel you can see how many hours are left until the UV tubes need to be replaced and when it is time for cleaning. A single keystroke takes you to the maintenance and service menu.

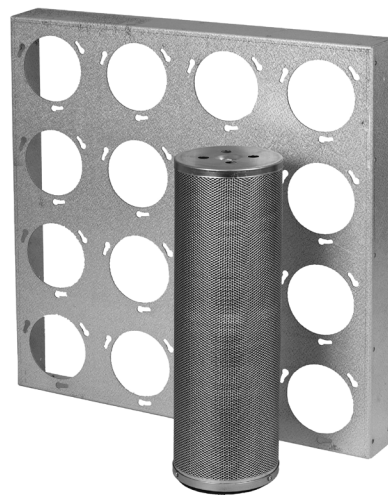
## Operational life 12,000 hours

The UV tubes have an operational life of 12,000 hours. The system counts down the time of operation. The control panel shows how many operating hours are left until the UV tubes need to be replaced. If any of the UV tubes go out, the light of the corresponding LED on the filter housing cover will also go out.

## Easy cleaning for safe operation

When cleaning, open the filter housing cover so that the filter and the cyclone filter can be taken out for cleaning in a dishwasher. When the cover is opened, the UV light tubes are also easily accessible for wiping, which should always be done in conjunction with the filter cleaning. This design ensures that all important components requiring regular cleaning are fully visible and easily accessible. Nothing can be "forgotten". The system also uses an audio signal to remind you when it's time for cleaning. UV Safe is a user-friendly system, with a design that ensures efficient and safe operation.

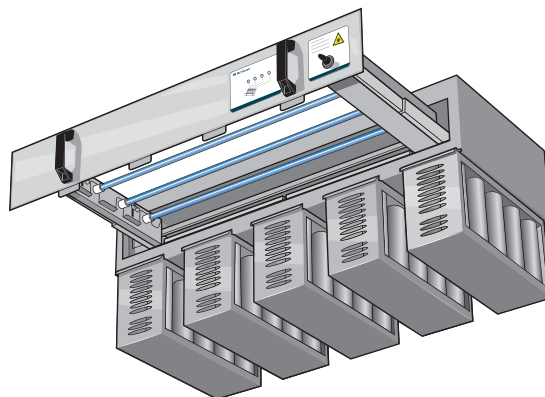
Both the power unit and the control panel are designed for protection class IP 54.



The image shows an activated carbon filter cartridge and a mounting frame designed for 16 filter cartridges. The filter cartridges are filled with 2.5 kg of activated carbon. The cartridges are easily mounted in the frame with a bayonet mount.



The control panel is activated by pressing the screen. The light-emitting diode (LED) at the bottom left glows green during operation.

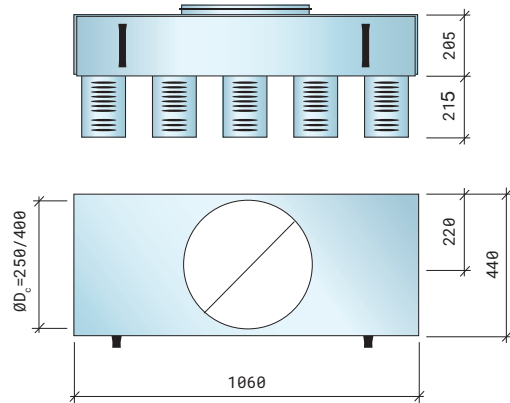


When the wire mesh filter and cyclone filter are taken out for cleaning, the cover is opened, making the UV tubes easily accessible for cleaning.

### Exhaust air

The number of filter cassettes in UV Safe is determined by the exhaust air flow according to the table below.

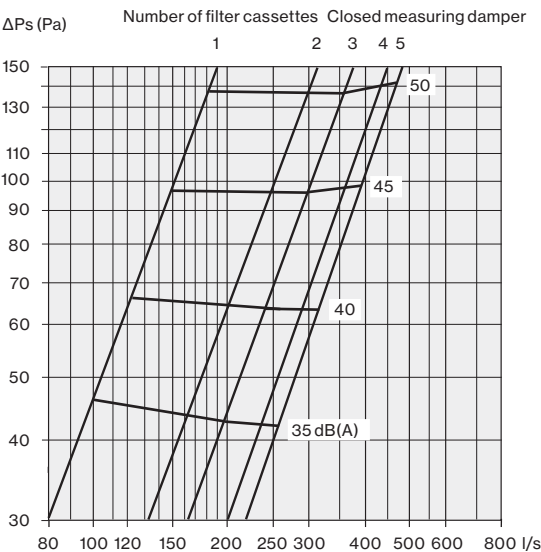
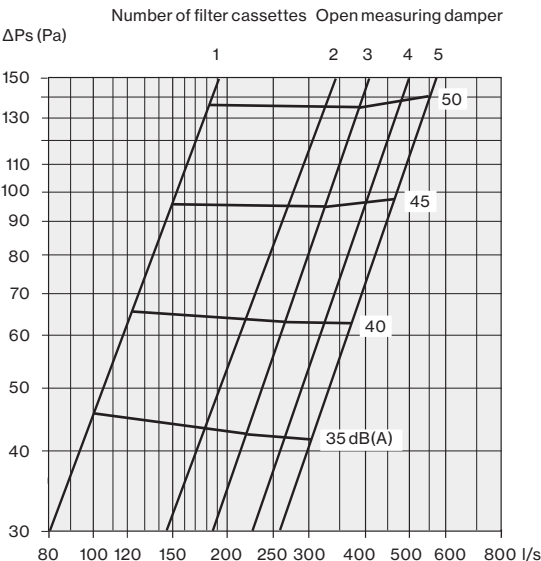
Exhaust air l/s	Number of filter cassettes	ØD <sub>c</sub> mm
60 - 150	1	250
120 - 250	2	250
170 - 340	3	400
215 - 430	4	400
250 - 520	5	400



ØDC = diameter exhaust air connection

### Air flow - Pressure drop - Noise level

Reported dB(A) values are for 10 m<sup>2</sup> Sabine, which corresponds to a room attenuation of 4 dB.



### Sound power level

The sound power level  $L_w$  (dB) divided into octave bands, is obtained by adding the following correction  $K_w$  to the noise level in question.

Tabell  $K_w$  - exhaust air.

UV Safe	Frequency, Hz							
	63	125	250	500	1K	2K	4K	8K
	7	6	5	4	-4	-9	-15	-29

### Sound attenuation

Reported sound attenuation  $\Delta L$  (dB) relates to the total sound reduction between the duct and room including end reflection.

Tabell  $\Delta L$  (dB) - exhaust air

Number of filter cassettes	Frequency, Hz							
	63	125	250	500	1K	2K	4K	8K
1	20	15	9	5	3	3	2	2
2	17	12	7	3	3	3	2	3
3	15	10	6	3	2	2	1	2
4	14	9	5	2	2	1	0	1
5	13	8	4	2	1	1	1	0









You should feel safe and comfortable where you live and where you work. That's why we always put the climate first.

We know that fresh air benefits everyone. And we know how to use it in the best possible way. With energy-smart ventilation and filtration solutions, we create a good indoor climate and a good atmosphere in all types of buildings. A good climate for people to live and work in. A climate that lasts - year after year.



