



UF600

Air curtain with floor outlet for large industrial doorways

UF600 creates a very effective air barrier when air at high speed is pushed out through a narrow channel situated in the floor inside the door opening. An air barrier directed upwards from the floor gives the best possible protection against cold air flowing into the premises.

UF600 consists of a pillar with inlet hood, silencers and fans, as well as a floor channel with its slot at floor level. The pillar is placed outside (or inside) the door on either side of the opening. The floor channel is cast in the floor.

- Short payoff period.
- Model for doors with rail traffic is available for special order.
- Very large doors require several pillars and separated floor channels. The pillars can be positioned on each or the same side of the opening.
- Made of galvanised, hot zinc-plated steel.



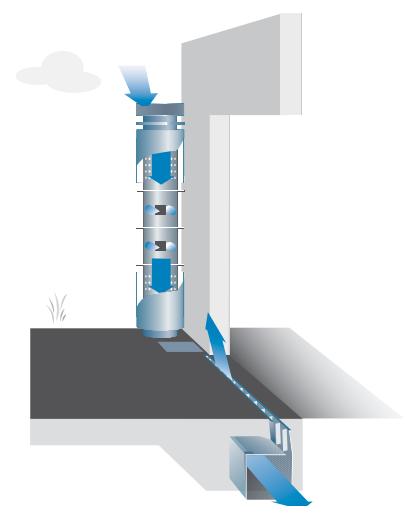
UF600 with motor silencer

✿ Ambient, no heat - UF600 (IP54)

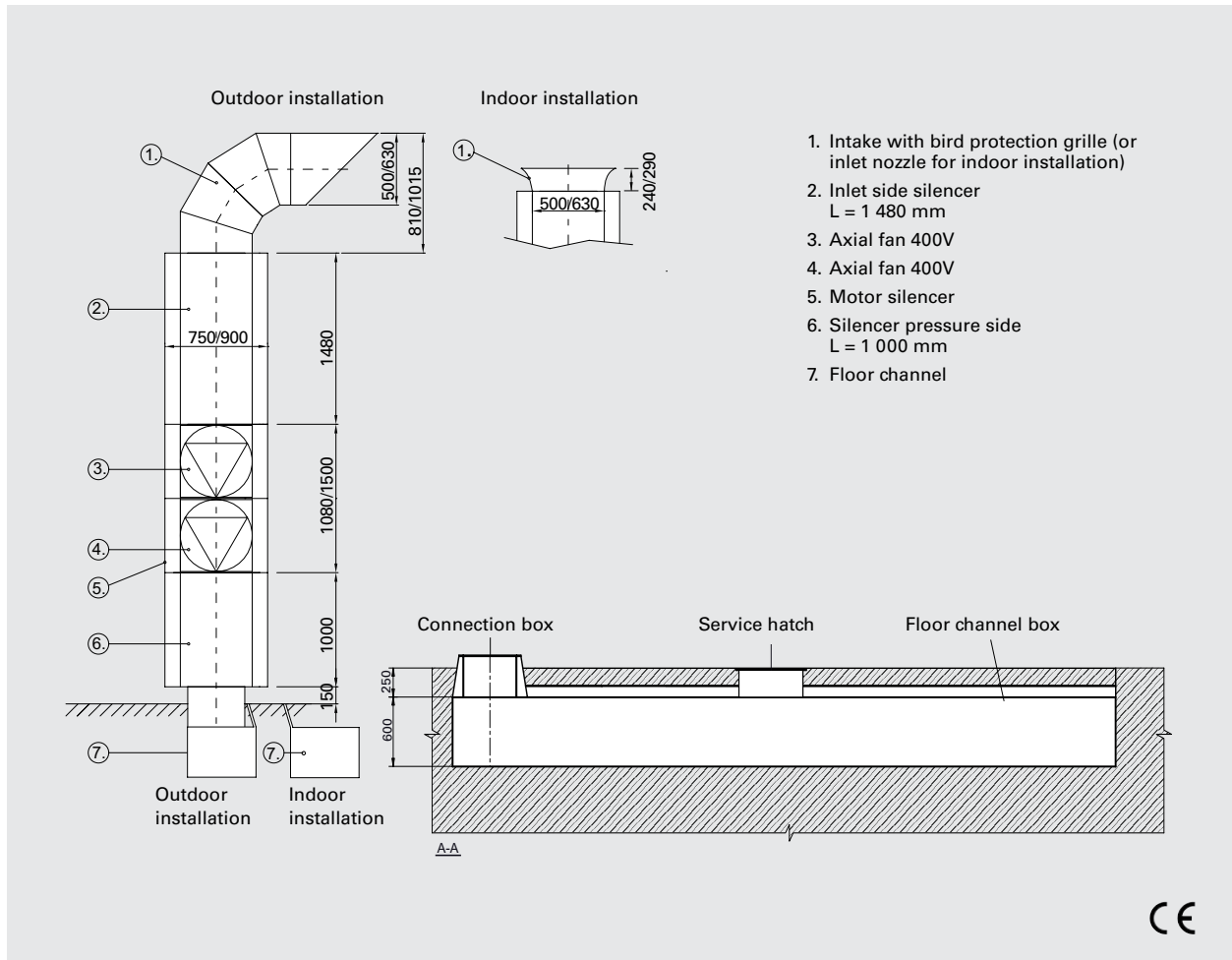
Type for indoor installation	Type for outdoor installation	Output [kW]	Air velocity*1 [m/s]	Voltage*2 [V]	Amperage*2 [A]	Dimensions floor channel [mm]	Diameter fans [mm]	Diameter silencer [mm]
UF601 Indoor	UF601 Outdoor	2x4	30	400V3~	2x7,1	600x600	500	750
UF602 Indoor	UF602 Outdoor	2x7,5	35	400V3~	2x13,7	750x750	630	900
UF603 Indoor	UF603 Outdoor	2x11	38	400V3~	2x22	750x750	630	900
UF604 Indoor	UF604 Outdoor	2x15	38	400V3~	2x28,5	750x750	630	900
UF605 Indoor	UF605 Outdoor	2x18,5	40	400V3~	2x33,7	750x750	630	900

*) Depends on the design of the floor channel.

Principle



Dimensions



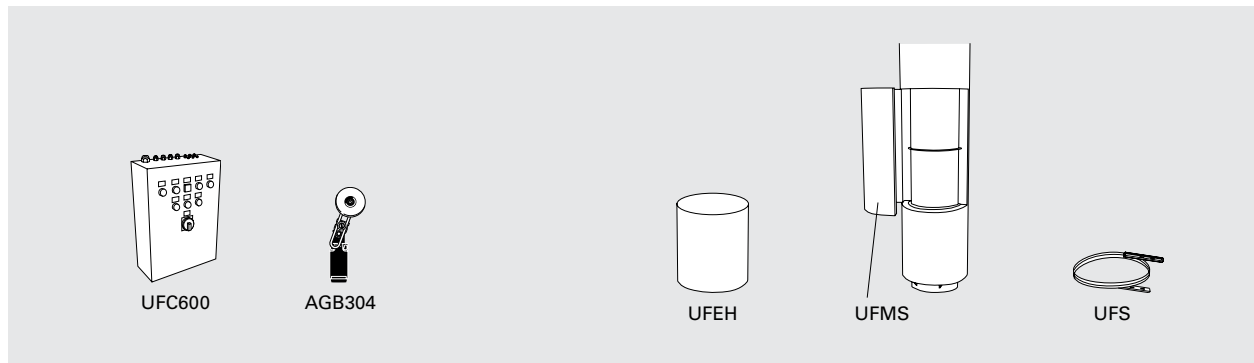
Dimensioning

		Door width [m]						
		3 m	4 m	5 m	6 m	7 m	8 m	10 m
Door height [m]	3 m	UF601	UF601	UF601	UF601			
	4 m		UF602	UF602	UF602			
	5 m			UF603	UF603	UF604	UF605	
	6 m				UF604		UF605	UF605

Other door sizes on request. For larger openings, two pillars are required. Please contact Frico.

UF600

Controls and accessories



UFC, control box
 Y/D-start with time delay between the motors.
 Possibility to use with door switch or position limit switch or external on/off. Integrated motor protection for each fan. Alarm and running indication.

AGB304, position limit switch
 Starts the air curtain when the door is opened and stops it when the door is closed. Alternating contact 4 A, 230 V~. IP67.

UFEH, pillar extension
 For indoor mounting the air intake should be above the door opening, therefore an extension of the pillar is sometimes necessary. This is placed between the inlet hood and the upper silencer.

UFMS, motor silencer
 Additional motor silencer which gives a lower sound level and a uniform tower.

UFS, securing strip
 The securing strip is mounted round the upper silencer and fixed to the outside wall to avoid the risk of tipping.

Type	Description	HxWxD [mm]
UFC601	Control box UF601	600x600x210
UFC602	Control box UF602	600x600x210
UFC603	Control box UF603	600x600x210
UFC604	Control box UF604	600x600x210
UFC605	Control box UF605	800x600x210
AGB304	Position limit switch, IP67	
UFEH505	Pillar extension, Ø500 mm, for UF601	L: 500
UFEH510	Pillar extension, Ø500 mm, for UF601	L: 1000
UFEH515	Pillar extension, Ø500 mm, for UF601	L: 1500
UFEH520	Pillar extension, Ø500 mm, for UF601	L: 2000
UFEH605	Pillar extension, Ø630 mm, for UF602-605	L: 500
UFEH610	Pillar extension, Ø630 mm, for UF602-605	L: 1000
UFEH615	Pillar extension, Ø630 mm, for UF602-605	L: 1500
UFEH620	Pillar extension, Ø630 mm, for UF602-605	L: 2000
UFMS750	Motor silencer Ø750 mm, for UF601	
UFMS900	Motor silencer Ø900 mm, for UF602-605	
UFS750	Securing strip Ø750 mm, for UF601	
UFS900	Securing strip Ø900 mm, for UF602-605	

For mounting, connection, wiring diagrams and other technical information, please see the manual.

Performance

The energy efficiency can be estimated to approximately 75 %. This means that heat losses can be reduced to 25 % of what they would be if the door was unprotected.

The diagrams show how the temperature varies over time inside the open door and at different distances into the room, 4 and 20 metres, and at different heights above the floor.

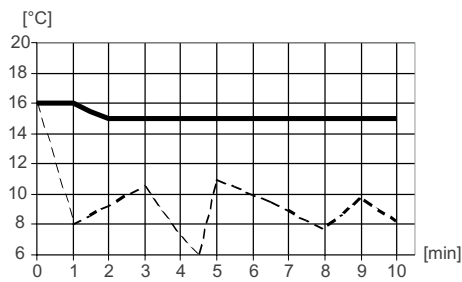
Conditions:

Door	4 x 4 m
Premises	2000 m ²
Outdoor temperature	0 °C
Vacuum	4 Pa

With UF600
 Unprotected door

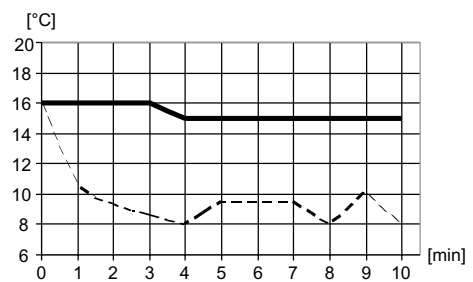
4 m inside the premises

10 cm above the floor

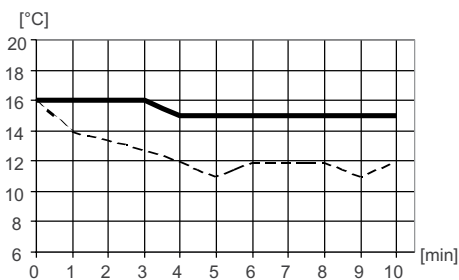


20 m inside the premises

10 cm above the floor



150 cm above the floor



150 cm above the floor

