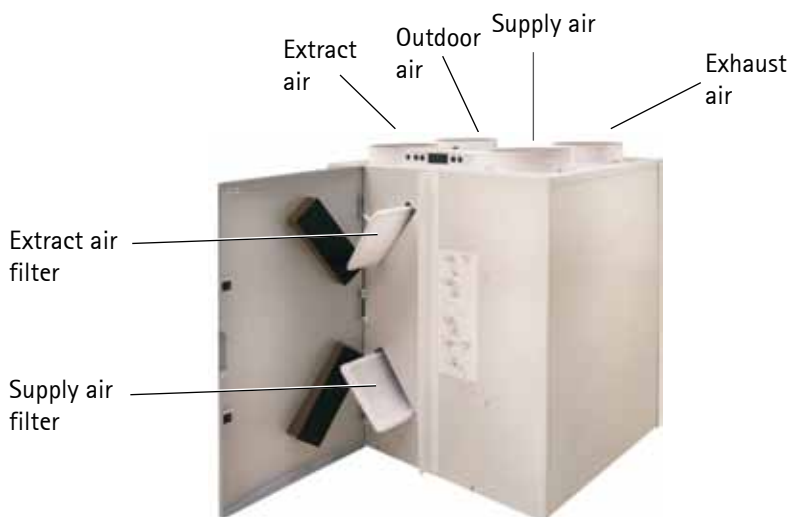


CWL-180/300/400 Excellent

Function

Three unit size with an air flow rate of max. 180, 300 or 400 m³/h. Suitable for detached houses and apartment buildings as well as offices. The Comfort domestic ventilation system CWL Excellent with heat recovery extracts stale air from the kitchen, bathroom and toilet areas. This air is routed across a cross countercurrent plate-type heat exchanger and is expelled to the outside. At the same time, fresh outside air is drawn into the system, cleaned by an air filter, heated by the cross countercurrent heat exchanger and routed into the appropriate rooms, such as the living room, bedrooms and children's rooms.



Benefits of the Wolf Comfort domestic ventilation system

- Clean, pollen-free fresh air - airing with your windows closed, excluding street noise (not only for those suffering from allergies).
- Removable cross countercurrent plate-type heat exchanger made from plastic; up to 95 % heat recovery from extracted stale air.
- Bypass as standard on CWL-300 and CWL-400
- One fan each for ventilation and extract air, both variable speed; low energy consumption through DC fans.
- Constant flow fans keep the air flow rate constant at the selected fan speed. This achieves a consistently high efficiency; and adjustments are limited to a minimum.
- The automatic frost stat control offers optimum protection against frost damage.
- Fully wired; filter change requirement indicated at the switch.
- Wolf has already received the passive house certification for CWL-400 and applied for CWL-300
- Wolf has already received the DIBt - type approval for CWL-400 and applied for CWL-300
- Electric pre-heater bank as standard for CWL-300 and CWL-400
- Optional connections as standard available for air quality sensor, humidity sensor and booster heater bank.

New design software

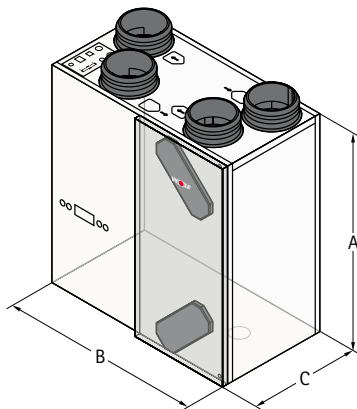


- New design software developed exclusively by Wolf, based on DIN 1946-6.
- The exceptional level of user friendliness enables competent, reliable air volume calculation in next to no time.
- In addition, the software provides a complete list of materials, a matching quotation, numerous supplementary information, and a full ventilation concept in accordance with DIN 1946-6.
- Download from www.wolf-systemprofi.de

CWL-180 Excellent

Technical data

Technical data



Domestic ventilation system	CWL-180 Excellent
Fan capacity at 150 Pa	max. 180 m ³ /h
Heat recovery rate max.	95 %
Dimensions:	Height A
	Width B
	Depth C
Connections on the air side	Ø 125 mm
Filter grade	G4
Power factor cos φ	0,56 - 0,67
Power consumption	16 - 132 W
Power consumption at 150 Pa	86 W at 150 m ³ /h
Weight	25 kg
Protection	IP 30
Electricity supply	230 V / 50 Hz

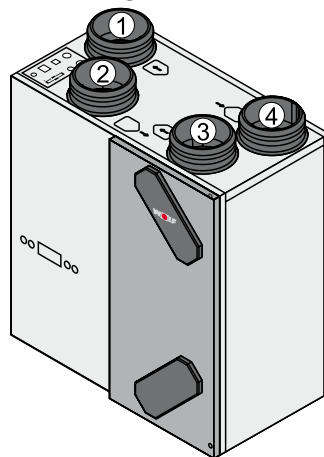
Optional connections

To do justice to the varied installation situations, Wolf offers these devices with two different connection options:

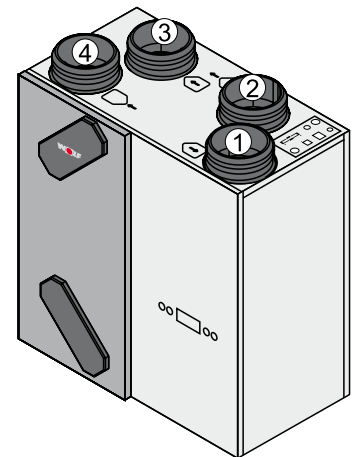
- Right version 4/0
- Left version 4/0

The inspection door for filter service is arranged either on the left or on the right. The connections for ventilation air, expelled air, extract air and outside air are as shown in the diagrams.

Right version 4/0

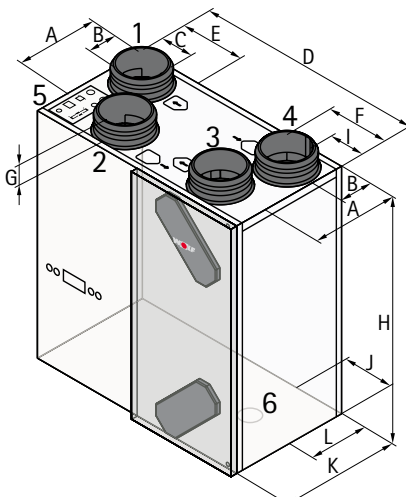


Left version 4/0



- 1 Supply air (living room)
- 2 Exhaust air (to the outside)
- 3 Extract air (living room)
- 4 Outdoor air (from the outside)
- 5 Electrical connection
- 6 Condensate connection

Dimensions

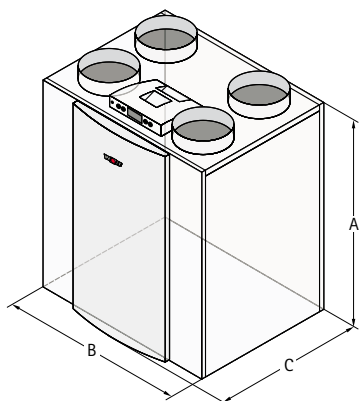


Type	A	B	C	D	E	F	G	H	I	J	K	L
CWL-180 Excellent R	213	77	79	560	168	125	45	600	75	248	290	145

CWL-300/400 Excellent

Technical data

Technical data



Comfort domestic ventilation system	CWL-300 Excellent	CWL-400 Excellent
Fan capacity at 150 Pa	max. 300 m ³ /h	max. 400 m ³ /h
Max. heat recovery rate	95 %	95 %
Height A	765 mm	765 mm
Width B	677 mm	677 mm
Depth C	564 mm	564 mm
Connections on the air side	Ø 150 mm	Ø 180 mm
Filter grade	G4 (F7 as accessory)	G4 (F7 as accessory)
Power factor cos φ	0,37 - 0,51	0,40 - 0,61
Power consumption	3 - 138 W	9,5 - 172 W
Power consumption	66 W (at 225 m ³ /h / 150 Pa)	98 W (at 300 m ³ /h / 150 Pa)
Weight	38 kg	38 kg
Protection	IP 30	IP30
Electricity supply	230 V / 50 Hz	230 V / 50 Hz

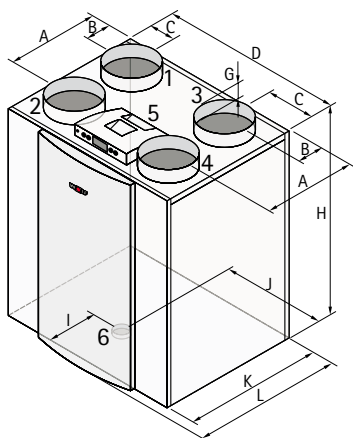
Optional connections

To do justice to the varied installation situations, Wolf offers this device with different connection options:

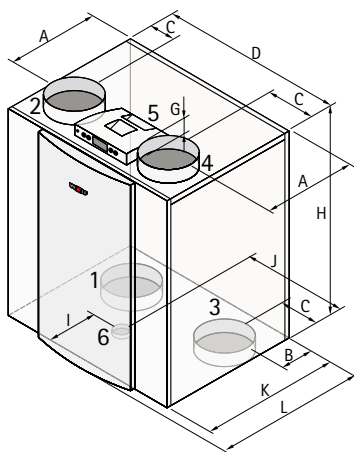
- all connections on top (type 4/0)
- exhaust air and outdoor air at the top, supply air and extract air at the bottom (type 2/2)
- exhaust air, extract air and outdoor air at the top, supply air at the bottom (type 3/1)

The inspection door for filter service can be opened either to the left or to the right. If the inspection door has to be opened to the right, the connections for supply air, exhaust air, extract air and outdoor air are as shown in the diagrams. In case of the inspection door having to be opened to the left, the connections are turned 180°.

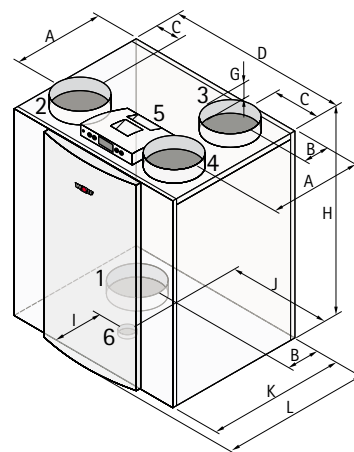
Connection 4/0 R



Connection 2/2 R



Connection 3/1 R



- 1 Supply air (living room) 3 Extract air (living room) 5 Electrical connection
 2 Exhaust air (to the outside) 4 Outdoor air (from the outside) 6 Condensate connection

Dimensions

Type	A	B	C	D	G	H	I	J	K	L
CWL-400 Excellent	388	138	138	677	45	765	198	397	526	564

CWL-180/300/400 Excellent Control unit-accessories

Controller

User interface



Microprocessor control unit with display for adjusting and displaying the individual control functions:

- Set value adjustment of the ventilation and extract air flow rate
- Fans ON / OFF
- Programmable pressure compensation or pressure balancing – i.e. generally over- or underpressure can be created deliberately via an adjustable value, if required, inside the accommodation
- Filter alarm on the display (filter service)
- Frost protection
- Displaying the selected values

Exclusively at CWL-300 and CWL-400

- Control of a pre-heater bank (1000 W). The pre-heater bank is designed to maintain a ventilation air temperature above 0 °C.
- In summer, the control of a bypass damper enables the direct supply of fresh outdoor air into the accommodation for night time cooling without heat recovery.
- The bypass damper opens if the room temperature exceeds 22 °C (adjustable) and if the outside air temperature is higher than 10 °C (adjustable) and at the same time lower than the room temperature.

Accessories

The following accessories can be connected directly to the unit:

- Smoke detector – this shuts down the fans in dangerous situations
- Humidity sensor – ensures automatically the extraction of a larger amount of air in case of excessive relative humidity (e.g. in the bathroom) (extraction)
- Air quality sensor – ensures that a larger amount of supply air is provided automatically in case of excessive CO₂ content (e.g. in the living room) (ventilation)
- Control of a booster heater bank (1000 W) – the booster heater bank heats the ventilation air to an adjustable value

Four-stage switch



Four-stage switch with LED

This illuminates when the filters need cleaning.

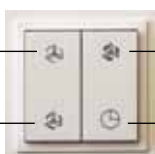
Position 1: Minimum ventilation, e.g. during absence (holiday)

Position 2: Reduced ventilation

Position 3: Basic ventilation corresponding to standard operation if the occupants are present

Position 4: Intensive ventilation, e.g. during a party, when there are visitors (high oxygen consumption)

Remote control



Stage 1 — Stage 3

Stage 2 — Stage 3 - time

Wireless remote control with transmitter and receiver

Press at the top left

Fans turn at stage 1 (minimum ventilation)

Press at the bottom left

Fans turn at stage 2 (basic ventilation)

Press at the top right

Fans turn at stage 3 (intensive ventilation)

Press briefly at bottom right (< 1 s)

Fans turn at stage 3 for 15 min.; then the fans revert to stage 1

Press longer at bottom right

Fans turn at stage 3 for 30 min.; then the fans revert to stage 1

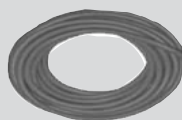
CWL-180/300/400 Excellent CWL-F-300 Excellent

accessories



BML Excellent ventilation programming modul with eBus interface

- Graphical Display
- Fixed time programs can be selected
- 4 ventilation stages can be set
- Frost protection
- Setting the parameters at the remote control



Extension kit for additional functions

With connection options for air quality sensor, humidity sensor and booster heater bank



Air quality sensor

Mixed gas sensor to measure the air quality; output signal 0 - 10 V, power supply 24 V, extension kit for additional functions required



Humidity sensor

RH sensor to measure the relative humidity; output signal 0 - 10 V, power supply 24 V, extension kit for additional functions required



CO₂-sensor

required for CO₂-led operation, plug-in, as a reference value for the CO₂-based control



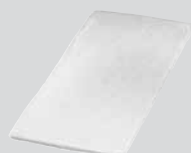
Electric pre-heater bank

1000 W



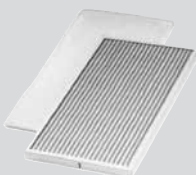
Electric booster heater bank

1000 W



Service set filter G4

2 pieces



Service set filter

1x grade G4 and 1x grade F7