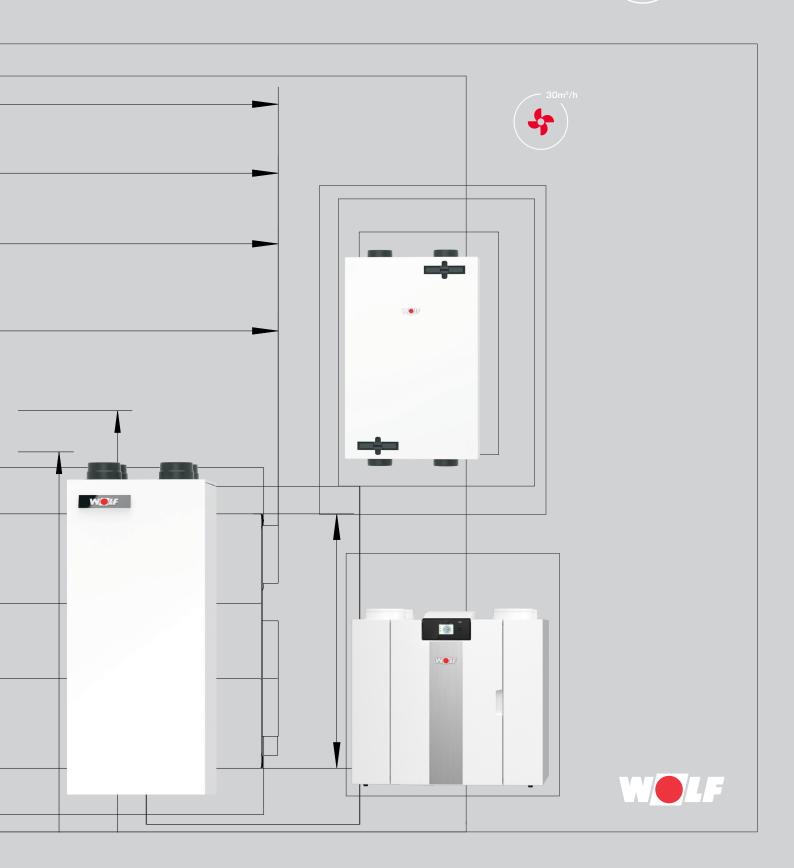
WOLF MECHANICAL VENTILATION



CWL-2 / CWL EXCELLENT / CWL-T EXCELLENT / CWL-F EXCELLENT / CWL-D / FWL PUSHPULL



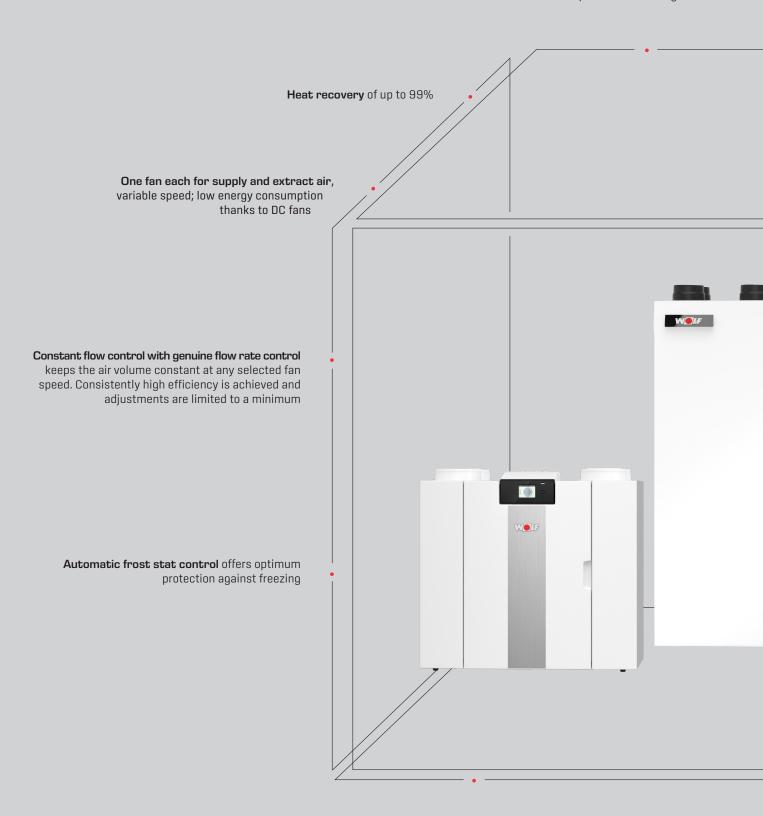
THE EXTENSIVE PRODUCT RANGE

||P

from system supplier WOLF offers the ideal solution for commercial and industrial buildings, new constructions and modernisation projects alike. The control program leaves no wish unfulfilled. All equipment is easy to operate, highly energy efficient and reliable. The products are easily and quickly installed and maintained.

NOLF MECHANICAL VENTILATION		04-05	
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TECHNICAL SPECIFICATIONS	CWL-2-225	07	
	CWL-2-325/400	08	
EXCELLENT	CWL-300/400	09	
EXCELLENT	CWL-T-300	10	
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Removable plastic cross and countercurrent plate heat exchanger



Unit fully wired, filter change indicator on the 4-step switch BM-2, Amazon Alexa

> ~04 (ノ

Clean, pollen-free supply air - ventilation with your windows closed, cutting out street noise (not only for allergy sufferers)

ADVANTAGES OF WOLF MECHANICAL VENTILATION

CWL-2 / CWL EXCELLENT

Standard connection options available for air quality sensor, humidity sensor, electrical preheating and reheating coil



Design software

- Design software 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, extensive supplementary information and a full ventilation concept in accordance with DIN 1946-6.
- Download from www.wolf.eu

Mechanical ventilation Unit versions

									, ,	
MECHANICAL VENTIL	ation	CWL-2-225	CWL-2-325	CWL-2-400	CWL-300 Excellent	CWL-400 Excellent	CWL-T-300 Excellent	CWL-F-150 Excellent	CWL-F-300 Excellent	CWL-D-70
Max. air flow rate	m³/h	225	325	400	300	400	300	150	300	70
Mounting type	Wall mounting	•	•	•	•	•	0	•	•	•
Ce	eiling mounting	0	0	0	0	0	0	•	•	0
	Floor erection	•	•	•	•	•	•	0	0	0
Operating panel on the ur	nit	•	•	•	•	•	0	0	0	•
Remote control	BM-2	•	•	•	•	•	•	•	•	0
	RM-2	•	•	•	•	•	•	•	•	0
I	RM-2 Wireless	•	•	•	•	•	•	•	•	0
	4-step switch	•	•	•	•	•	•	•	•	0
Bypass	integrated	•	•	•	•	•	•	•	•	•
Electr. preheater coil	integrated	•	•	•	•	•	•	•	0	•
	Accessories	0	0	0	0	0	0	0	•	0
Hydr. reheater coil	Accessories	0	0	0	0	0	•	0	0	0
Electr. reheater coil	Accessories	•	•	•	•	•	•	•	•	0
Enthalpy heat exchanger	Accessories	0	•	•	•	•	0	0	•	0
Air quality, moisture and CO ₂ sensor	Accessories	•	•	•	•	•	•	•	•	•
Passive house certificate		•	•	•	•	•	•	•	•	0
DIBt approval		applied for	applied for	applied for	•	٠	٠	•	•	applied for

GENERAL INFORMATION

Units with air handling rates of 50 - 400 m³/h.

Suitable for detached houses and apartment buildings as well as offices and apartments.

The CWL Excellent mechanical ventilation system with heat recovery extracts stale air from the kitchen, bathroom and toilet areas. This air is routed across a cross flow and countercurrent plate heat exchanger and is expelled to the outside.

At the same time, fresh outdoor air is drawn into the system, cleaned by an air filter, heated by the cross and countercurrent heat exchanger and routed into rooms such as the living room, bedrooms and children's rooms.

CONNECTION OPTIONS

To cope with varied installation situations, WOLF offers the unit with 2 different connection options:

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

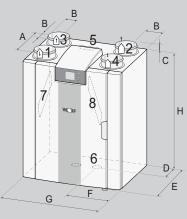
The access door for filter servicing opens either to the left or to the right.

The position of the connections for supply air, extract air, extract air and outdoor air is as illustrated below.



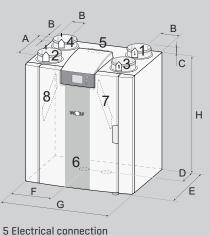
	CWL-2	225
Energy efficiency class		A
Max. air handling rate at 150 Pa	m³/h	225
Heat recovery max.	%	98
ErP heat recovery	%	92
Heat recovery efficiency according to $PHI^{1]}$	%	89
ErP specific power consumption (SPI)	W/m³/h	0.17
Specific power input (SPI) according to PHI ¹⁾	W/m³/h	0.25
Dimensions		
Duct connection diameter	mm	125
Height	mm	650
Width	mm	600
Depth	mm	455
Filter		ISO Coarse 60% (G4), ePM1 50% (F7) and active carbon outdoor air filter ePM2.5 50% (M6) - as accessories
Power factor	Cosφ	0.336 - 0.572
Power consumption	W	8 - 92
Power consumption (without preheating coil)	W	61.5 (at 225 m³/h and 100 Pa)
Weight	kg	29
IP rating	IP	30
Electrical connection		230 V / 50 Hz

¹⁾ PHI = Passivhaus Institut



Connection 4/0 L

1 Supply air (living room) 2 Exhaust air (to the outside) 3 Extract air (living room) 4 Outdoor air (from the outside) Connection 4/0 R



6 Drain connection

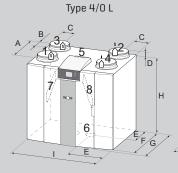
Туре	A	В	С	D	E	F	G	Н
CWL-2-225	323	93	42	210	458	198	600	650

- Bypass as standard
- Electric integrated preheating coil 1000 W as standard
- Including ball trap
- Also available with enthalpy heat exchanger for moisture recovery



		325 Enthalpy	400
	Α	Α	Α
m³/h	325	325	400
%	98	98	99
%	91	83	92
%	91	86	90
W/m³/h	0.15	0.14	0.16
W/m³/h	0.21	0.21	0.22
mm	160	160	180
mm	650	650	650
mm	710	710	710
mm	750	750	750
mm	560	560	560
Cosφ	0.34	- 0.54	0.27 - 0.56
W	6 - 145		8 - 178
W	42.2 87 (at 225 m³/h and 100 Pa) (at 300 m³/h Pa)		
kg	37	37	38.5
IP	30	30	30
	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
	% % W/m³/h W/m³/h W/m³/h mm mm mm mm mm wm W W W	m³/h 325 % 98 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 91 % 0.15 % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % %	m³/h 325 325 % 98 98 % 91 83 % 91 86 W/m³/h 0.15 0.14 W/m³/h 0.21 0.21 mm 160 160 mm 650 650 mm 710 710 mm 750 750 mm 560 560 M 560 560 M 6 - 145 42.2 (at 225 m³/h and 100 Pa) (at 225 m³/h and 100 Pa) kg 37 37 IP 30 30

 $^{\rm 1]}\,{\rm A}^{\scriptscriptstyle +}$ with at least two sensors



^{2]} PHI = Passivhaus Institute Type 4/0 R

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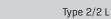
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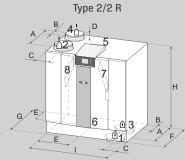
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1 Supply air (living room) 2 Exhaust air (to the outside)		3 Extract air (living room) 4 Outdoor air (from the outside)		5 Electrical connection 6 Drain connection			7 Extract air filter 8 Outdoor air filter		
Туре	А	В	С	D	E	F	G	Н	I
CWL-2-325	410	130	120	45	270	510	560	650	750
CWL-2-400	410	130	120	45	270	510	560	650	750

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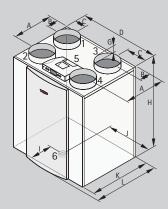
Mechanical ventilation CWL-300/400 Excellent Specifications

- Bypass as standard
- Electric integrated preheating coil 1000 W as standard

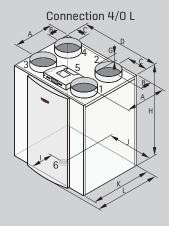


CWL	EXCELLENT	300	400
Energy efficiency class ^{1]}		A	Α
Max. air handling rate at 150 Pa	m³/h	300	400
Heat recovery max.	%	89	93
ErP heat recovery	%	86	85
PHI heat recovery ^{2]}	%	84	84
ErP specific power consumption (SPI)	W/m³/h	0.21	0.24
PHI specific power consumption (SPI) ²⁾	W/m³/h	0.26	0.29
Dimensions			
Duct connection diameter	mm	160	180
Height	mm	765	765
Width	mm	677	677
Depth	mm	564	564
Filter		ISO coarse 60% (G4) (ePM1 50% (F7) and active carbon) Outdoor air filter ePM2.5 50% (M6) as accessory	ISO coarse 60% (G4) (ePM1 50% (F7) and active carbon) Outdoor air filter ePM2.5 50% (M6) as accessory
Power factor	Cosợ	0.37 - 0.50	0.38 - 0.61
Power consumption	W	3 - 138	3 - 172
Power consumption (without preheating coil)	W	58 W (at 225 m³/h and 100 Pa)	84 W (at 300 m³/h and 100 Pa)
Weight	kg	38	38
IP rating	IP	30	30
Electrical connection		230 V / 50 Hz	230 V / 50 Hz

 $^{1]}$ A* with at least two sensors $^{2]}$ PHI = Passivhaus Institute Connection 4/0 R



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 Drain connection

Туре	А	В	С	D	G	Н	T	J	К	L
CWL-300/400 Excellent R	388	138	138	677	45	765	198	397	526	564
CWL-300/400 Excellent L	388	138	138	677	45	765	328	280	526	564

Mechanical ventilation CWL-T-300 Excellent Specifications

C	WL-T EXCELLENT	300
Energy efficiency class ¹⁾		A
Max. air handling rate at 150 Pa	m³/h	300
Heat recovery max.	%	93
ErP heat recovery	%	85
PHI heat recovery ^{2]}	%	84
ErP specific power consumption (SPI) W/m³/h	0.22
PHI specific power consumption (SPI] ^{2]} W/m ³ /h	0.28
Dimensions		
Duct connection diameter	mm	160
Height	mm	1287.5
Width	mm	475
Depth	mm	585
Filter		ISO coarse 60% (G4) (ePM1 50% (F7) and active carbon) outdoor filter ePM2,5 50% (M6) - as accessory
Power factor	Cos φ	0.32 - 0.43
Power consumption	W	10 - 164
Power consumption (without preheating coil)	W	86 (at 225 m³/h and 100 Pa)
Weight	kg	50
IP rating	IP	20
Electrical connection		230 V / 50 Hz
1)		

^{1]} A⁺ with at least two sensors ^{2]} PHI = Passivhaus Institute

Installation options optionally to the right or the left

of the heat generator





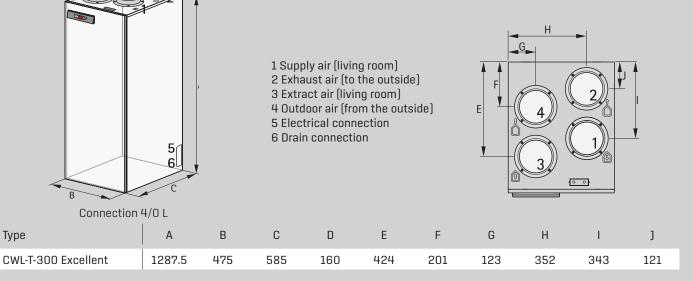




In conjunction with the BWL-1S split heat pump

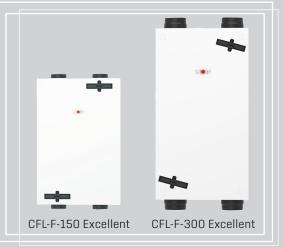
Connection 4/0 L • Removable plastic cross and countercurrent plate heat exchanger • Bypass as standard • Electric 1000 W preheating coil integrated in the appliance

- Filter ISO coarse 60% (G4), ePM1 50% (F7) as optional accessory
- Trap included
- Control via BM-2 programming unit
- The automatic frost stat control offers optimum protection against freezing
- Fully wired unit with filter change indicator on the programming unit or the 4-step switch
- Passive house certificate
- DIBt approval



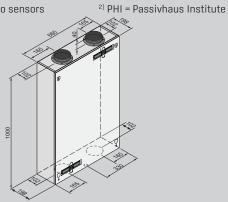
Mechanical ventilation Slimline unit CWL-F-150/300 Excellent Specifications

- Compact, slimline design for ceiling and wall mounting
- Bypass as standard
- Filter ISO coarse 60% (G4), ePM1 50% (F7) as optional accessory
- Standard on the CWL-F-150 Excellent: electrical integrated preheating coil 375W

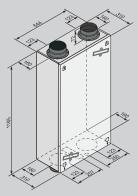


CWL-F EX	CELLENT	150	300
Energy efficiency class ^{1]}		A	A
Max. air handling rate at 150 Pa	m³/h	150	300
Heat recovery max.	%	94	92
ErP heat recovery	%	89	84
PHI heat recovery ^{2]}	%	84	85
ErP specific power consumption (SPI)	W/m³/h	0.27	0.24
PHI specific power consumption (SPI) ^{2]}	W/m³/h	0.35	0.31
Dimensions			
Duct connection diameter	mm	125	160
Height	mm	1000	1185
Width	mm	660	644
Depth	mm	198	310
Filter		ISO coarse 60% (G4) (ePM1 50% (F7) and active carbon) outdoor filter ePM2.5 50% (M6) as accessory	ISO coarse 60% (G4) (ePM1 50% (F7) and active carbon) Outdoor air filter ePM2.5 50% (M6) as accessory
Power factor	Cos q	0.34 - 0.49	0.39 - 0.53
Power consumption	W	11 - 72	9 - 162
Power consumption (without preheating coil)	W	52 (at 125 m³/h and 100 Pa)	79 (at 225 m³/h and 100 Pa)
Weight	kg	25	37
IP rating	IP	30	30
Electrical connection		230V / 50Hz	230V / 50Hz

 $^{\scriptscriptstyle 1]}\,A^{\scriptscriptstyle +}$ with at least two sensors



CWL-F-150 Excellent

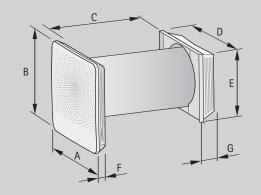


CWL-F-300 Excellent

- White internal panel
- Outdoor wall hood in white (RAL 9010) or stainless steel
- Clean, pollen-free supply air ventilation with your windows closed, cutting out street noise (not only for allergy sufferers)
- Removable plastic countercurrent plate heat exchanger
- Heat recovery min. 87%
- Bypass as standard
- Automatic frost stat control
- Low energy consumption thanks to DC fans
- Electric 175 W preheating coil integrated in the appliance
- ISO coarse 60% (G4) filter
 ePM1 50% (F7) as optional accessory for supply air
 Filter change indicator on the unit
- Unit fully wired
- DIBt approval applied for



	CWL-D	70
Energy efficiency class		A
Max. air handling rate	m³/h	70
Air handling rate at fan stage 1 / 2 / 3 / 4 / 5		15 / 25 / 40 / 55 / 70
Heat recovery max.	%	87
ErP heat recovery	%	79
ErP specific power consumption (SPI)	W/m³/h	0.2
Dimensions		
Unit diameter	mm	250
Core hole bore	mm	Ø 260 (with 3° slope towards the outside)
for wall thickness incl. accessories	mm	500 - 600
for wall thickness not incl. accessories	mm	300 - 500
Filter		2x ISO coarse 60% (G4) (extract air) & 1x ISO coarse 60% (G4) (supply air) (ePM1 50% (F7) as accessory)
Weight	kg	14
IP rating	IP	Indoor unit IP 20 / front cover IP X4
Electrical connection		230 V / 50 Hz



ACCESSORIES

Extension in white (RAL 9010) or stainless steelLength:200 mmLength:150 mmFor wall thicknesses 400 - 350 mmLength:100 mmFor wall thicknesses 450 - 400 mm

- Length: 50 mm For wall thicknesses 500 450 mm • Additional PCB (for connecting sensors)
- Internal CO₂ sensor and humidity sensor
- ON/OFF switch optional
- ISO coarse 60% (G4) and ePM1 50% (F7) filter sets

Туре	A	В	С	D	E	F	G
CWL-D-70	398	398	500 - 600	355	315	65	85

Mechanical ventilation

Control - Control accessories

CONTROL



RM-2 ROOM MODULE (EBUS) ROOM MODULE RM-2 (WIRELESS)

4 in 1: Automatic detection of the function based on the system components:

- Room temperature controller with 1-day / 7-day program
- Remote control for mechanical ventilation unit CWL Excellent / CWL 2 (simultaneous with room temperature control)
- Remote control of all heating or mixing circuits (with BM/BM-2 in the system)
- Remote control for up to 7 individual heating circuits with multiple RM-2 units (with BM/BM-2 in the system)
- Illuminated touchscreen
- Integrated room temperature sensor
- Connection via eBus interface
- Many functions: Holiday mode, fault messages, temperature displays, etc.
- Compatible with WOLF Smartset



BASE WIRELESS

 Radio receiver with eBus connection for wireless communication with RM-2 Wireless

Operating panel





MICROPROCESSOR CONTROL UNIT

WITH DISPLAY FOR ADJUSTING AND DISPLAYING THE INDIVIDUAL CONTROL FUNCTIONS

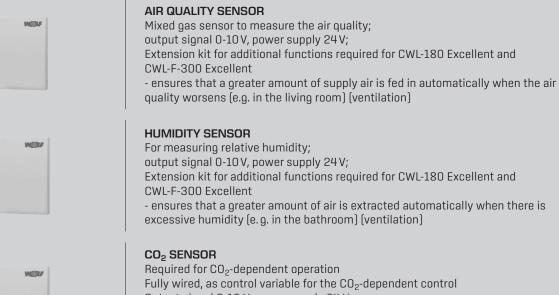
- · Set value adjustment of the supply and extract air flow rate
- Fans ON / OFF
- Programmable pressure compensation or pressure balancing i.e. if required, overpressure or underpressure can be deliberately created inside the accommodation via an adjustable value
- Filter alarm on the display (filter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

BM-2 PROGRAMMING UNIT

- Fixed time programs can be selected
- 3.5" colour display
- Simple user prompts via plain text display
- Operated by rotary selector with pushbutton function
- 4 function keys for frequently used functions
- microSD card slot for software update
- · Installation as a remote control in wall mounting base

MECHANICAL VENTILATION CWL-2 / CWL Excellent Control accessories

CONTROL ACCESSORIES



Fully wired, as control variable for the CO₂-dependent control Output signal 0-10 V, power supply 24 V Extension kit for additional functions required for CWL-180 Excellent and CWL-F-300 Excellent - ensures that a greater amount of supply air is fed in automatically when the CO₂ content is excessive

EBUS CO2 SENSOR, FLUSH MOUNTED

for measuring the CO₂ content, output signal O-10 V, power supply 24 V

WOLF LINK HOME LAN/WLAN INTERFACE MODULE

Consisting of: Interface module WOLF LINK HOME, assembly/operating instructions, connection cable, network cable

- Integrated LAN and WLAN interface for integrating WOLF heating systems into a network or
- Connection of WOLF heating appliances to the WOLF Wibutler Smarthome System

Available for CWL-2 Excellent **Note:** Only used in conjunction with BM-2

WOLF LINK PRO – OUTDOOR INTERFACE MODULE

Consisting of:

Interface module WOLF LINK PRO, installation and operating instructions, eBus cable, power supply unit, network cable

- LAN and WLAN interface module for wall mounting or mobile use
- Connection of WOLF heating appliances to the WOLF Smartset portal / app
- Mobile application for setting heating system parameters
- Power supply via power supply unit or USB

Note: Only used in conjunction with BM-2





Mechanical ventilation CWL-2 / CWL Excellent Control accessories

















KNX - OUTDOOR INTERFACE KIT

Consisting of: ISM8e interface module, KNX-IP-BAOS module, installation/operating instructions, network cable

For integrating WOLF ventilation units into a KNX network

Note: Only used in conjunction with BM-2

MOD-BUS - OUTDOOR INTERFACE KIT

Interface kit for integrating WOLF ventilation units into a Modbus network

EXTENSION KIT FOR ADDITIONAL FUNCTIONS

With connection options for air quality sensor, humidity sensor and reheating coil

Available for CWL-180 Excellent CWL-F-300 Excellent

MODULAR DISTRIBUTOR RJ12

Consisting of: Cable and splitter

RH DUCT SENSOR

For measuring relative humidity;

CWL SERVICE TOOL

For easier programming Free software can be found on our homepage

4-STEP SWITCH WITH FILTER CHANGE INDICATOR

Position 1:	Ventilation for moisture protection e.g. during absence (holiday)
Position 2:	Reduced ventilation
Position 3:	Nominal ventilation rate, corresponds to standard operation when the occupants are present
Position 4:	Intensive ventilation, e.g. during a party, when there are visitors (high oxygen consumption)

4-STAGE REMOTE CONTROL

with filter change indicator consisting of receiver and transmitter

MECHANICAL VENTILATION CWL-2 / CWL Excellent Control accessories





Mechanical ventilation CWL-2 / CWL Excellent Accessories











ADDITIONAL PCB when using a humidity sensor, CO2 sensor and air quality sensor;

NC/NO contact O-10V input, 24V output

Note: Housing for additional PCB item no. 2747551 required

HOUSING FOR ADDITIONAL PCB

Additional PCB CWL-2, WOLF Link Home

ELECTRICAL PREHEATING COIL OR REHEATING COIL

• **CONTROL OF A REHEATING COIL** (1000 W) - the reheating coil heats the supply air to an adjustable value

ENTHALPY HEAT EXCHANGER FOR MOISTURE RECOVERY

Hygiene: AATCC certificate (VDI 6022) Heat recovery according to EN 308: 78% Moisture recovery 59%

Available for CWL-2-325/400 CWL-300/400 Excellent CWL-F-300 Excellent

CONDENSATE REMOVAL PUMP WITH POTENTIAL-FREE ALARM OUTPUT, FULLY WIRED

Consisting of: Condensate pump with potential-free alarm output, PVC hose 10 mm (6 m long), non-return valve, condensate inlet adaptor

SUMMER CASSETTE

Alternative to in-line heat exchangers without heat recovery

Available for CWL-180-Excellent

TRAP

Effective height 90 mm Available for CWL-300/400 Excellent

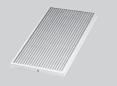
Mechanical ventilation CWL-2 / CWL Excellent Accessories













CWL-T EXCELLENT



BALL TRAP

INSTALLATION BASE

With front panel as an alternative Available for CWL-2 Excellent

UNIAIR PURE

Electrostatic air filter including filter ePM2.5 99% Installation in the supply air

Available for CWL-2-225 CWL-2-325/400 CWL-300/400 Excellent CWL-F/T 300 Excellent CWL-F-150 Excellent

FILTER SERVICE SET ISO COARSE 60% (G4)

Outdoor air or extract air filter, 2 x ISO coarse 60% (G4)

FILTER SERVICE SET EPM1 50% (F7)

Outdoor air filter, 2 x ePM1 50% (F7)

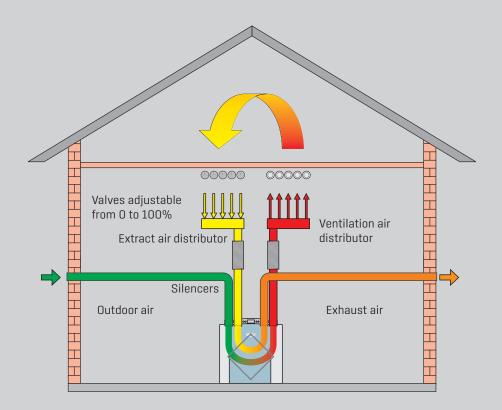
COMBI SERVICE SET, ACTIVATED CHARCOAL FILTER

Outdoor air filter, antiallergenic 2 x ePM2.5 50% (M6)

Available for CWL-2-225 CWL-2-325/400 CWL-300/400 Excellent CWL-F/T 300 Excellent CWL-F-150 Excellent

HYDRAULIC REHEATING COIL 3000 W

Including flow valve with thermostatic head and remote sensor for installation in the supply air insulated duct in addition to automatic vent and corrugated stainless steel pipes



AIR ROUTING

From the distributor to the valves with UniAir air distribution system - round DN 63, DN 75, DN 90.



AIR ROUTING

From the distributor to the valves with UniAir air distribution system - flat 50x100 or 50x140.



AIR ROUTING

For outdoor air and extract air to the supply air and extract air distributor with UniAir ISO duct system DN125, DN160, DN180, DN200.



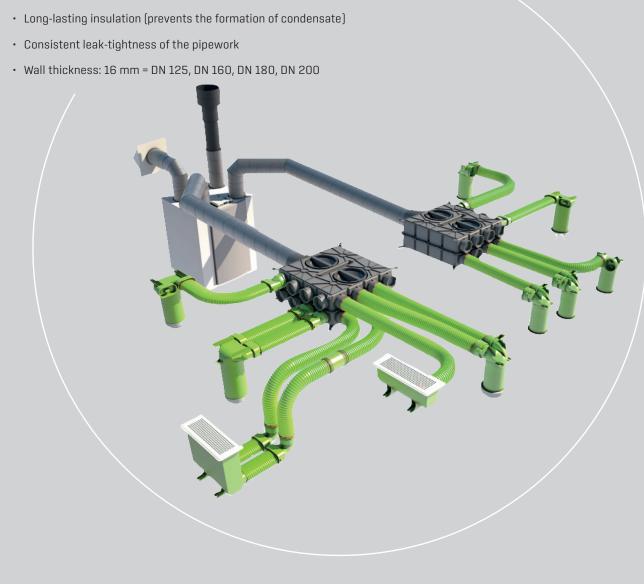
TECHNICAL PROPERTIES OF UNIAIR ISO DUCT SYSTEM

- Material density 50 kg/m³, anti-static
- Heat transfer coefficient 0.041 W/(m²K)
- Temperature range -40 °C to +60 °C
- Fire safety class B1 to DIN 4102-1 tested by the MPA Dortmund Institut

UniAir ISO duct system CWL replaces the traditional folded spiral-seam tube with insulation by a ready insulated round pipeline DN 125, DN 160 and DN 180 made from vapour-proof EPE foam with reduced system costs. Perfectly matching pipe elements combined with insulated roof outlets for superior system benefits:

- Quick installation (savings in labour costs up to 70% compared with folded spiral-seam tube)
- Easy cleaning thanks to optimally smooth internal surface without edge
- · Connection of profiles by means of twist-proof locking ring
- Good sound insulation thanks to the relatively soft material
- Visually perfect and flawless function even after many years in use

- Insulated roof outlet
- A special knife is offered for installation purposes
- Complies with DIN 1946-6



Mechanical ventilation CWL-2 / CWL Excellent UniAir ISO duct system





UNIAIR ISO DUCT CWL

Length 2000 mm DN 125 DN 160 DN 180 DN 200

UNIAIR ISO DUCT CWL BENDS 90° AND 45° DN 125 DN 160 DN 180 DN 200



UNIAIR ISO TUBE CWL T-PIECE DN 125 DN 160



UNIAIR ISO DUCT CWL Y-PIECE 45° DN 180











DN 200/180

UNIAIR ISO DUCT CWL REDUCER

LOCKING RING FOR UNIAIR ISO DUCT For joining pipes and profiles with anti-twist protection.

DN 125 DN 160 DN 180 DN 200

DN 160/125 DN 180/125 DN 180/160

FIXING BRACKET FOR UNIAIR ISO DUCT

DN 125 DN 160 DN 180 DN 200

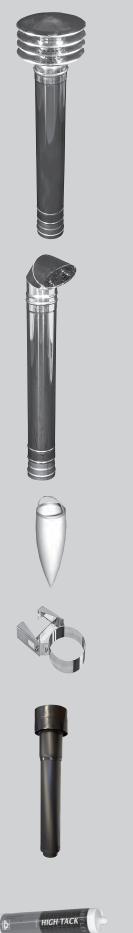
SPECIAL KNIFE

For cutting UniAir ISO ducts to length. The special teeth facilitate a quick and clean cut.

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REDUCER For use with UniAir pure. DN 250 - DN 125 DN 250 - DN 160 DN 250 - DN 180

Mechanical ventilation CWL-2 / CWL Excellent UniAir ISO duct system



EXTERNAL AIR TOWER WITH LOUVRE HOOD (SET) DN160

EXTERNAL AIR TOWER WITH 90° BEND (SET) DN160

REPLACEMENT FILTER FOR OUTDOOR AIR TOWER DN160

WALL SPACER FOR OUTDOOR AIR TOWER DN160

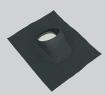
CWL ROOF OUTLET WITH THERMAL INSULATION Length 1159 mm Colour black or red DN 125 and DN 160 Colour black DN 180



UBBIFLEX HIGH TACK – GLUE For fixing the CWL universal roof tile on tiles or roof

Mechanical ventilation CWL-2 / CWL Excellent UniAir ISO duct system





SEALING COLLAR For CWL roof outlet

CWL UNIVERSAL ROOF TILE 25° TO 45° Colour black or red DN 125 - DN 180

CWL WALL MOUNTED HOOD WITH GRILLE



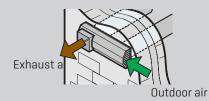
DN 125 - DN 180

Colour black or white

DN125 DN160 DN180

CWL FLAT ROOF OUTLET 0°





DOUBLE GRILLE

For outdoor air <u>and</u> extract air Colour white or stainless steel

DN 125 for CWL-F-150 Excellent and CWL-180 Excellent DN 160 for CWL-F-300 Excellent and CWL-300 Excellent

UNIAIR-DESIGN DOUBLE GRILLE

For outdoor <u>and</u> extract air

DN 125 stainless steel DN 160 stainless steel DN 180 stainless steel DN 125 anthracite grey RAL 7016 DN 160 anthracite grey RAL 7016 DN 180 anthracite grey RAL 7016 DN 125 white RAL 9010 DN 160 white RAL 9010 DN 180 white RAL 9010



Mechanical ventilation CWL-2 / CWL EXCELLENT SILENCER















SILENCER

For supply air <u>or</u> extract air Length 500 mm or 1000 mm

DN 125, 50 mm thermal insulation DN 160, 50 mm thermal insulation DN 180, 50 mm thermal insulation DN 200, 50 mm thermal insulation

SILENCER, FLEXIBLE

For supply air <u>or</u> extract air Length 1000 mm

DN125, 50 mm thermal insulation DN160, 50 mm thermal insulation DN180, 50 mm thermal insulation

UNIAIR SILENCER For direct mounting on the ventilation unit DN 160, DN 180, length 650 mm Available for CWL-2-325/400

SILENCERS

Metal, for supply air <u>and</u> extract air Length 482 mm DN 125 Available for CWL-F-150 Excellent

SILENCERS Metal, for supply air <u>and</u> extract air Length 600 mm DN 160 Available for CWL-F-300 Excellent

SILENCER AND FLOW RATE CONTROLLER For DN 125 connector

SILENCER AND FLOW RATE CONTROLLER For floor grille connector

Mechanical ventilation CWL-2 / CWL EXCELLENT **GENERAL INFORMATION / UNIAIR DUCT SYSTEMS**

- ROUND



UNIAIR AIR DISTRIBUTION SYSTEM - FLAT



UNIAIR AIR DISTRIBUTION SYSTEM Pipe systems specially designed for ventilation equipment, for flexible routing across ceilings, in false ceilings, in screeded floors and in walls.

Twin layer construction (smooth interior, corrugated exterior) ensures:

Good acoustic insulation thanks to low flow resistance; high rigidity but still extremely flexible, low weight. The UniAir flat duct system is also (optionally) odourless and antimicrobial thanks to an environment-friendly material (PE) and hygienically safe new material. Minimal dust deposits thanks to (optional) antistatic equipment also characterize both the UniAir air distribution system round and the UniAir air distribution system - flat. Hygienic surface thanks to an easy-to-clean special internal skin. Tested without measurable contaminant concentration in the air. Shorter installation times thanks to easy working without special tools; no waste thanks to endless routing via click joints; direct routing on unfinished concrete, screed or in false ceilings; watertight and airtight to EN 1610 thanks to the use of seal rings at joints. With the UniAir air distribution system - round, three diameters are available (DN63, DN75, DN90), the UniAir air distribution system - flat is available in the sizes 50 x 100 mm and 50 x 140 mm

RATING

Optimum operation can be achieved when the flow rate inside the UniAir air distribution system is limited to approx. 3.0 m/s (low resistance).

The air volumes can be preset when the maximum duct length (15 m in a detached house) and the pressure drop data are known. This reduces the adjustment time considerably.

The flow rate is as follows, relative to the recommendation of approx. 3.0 m/s:

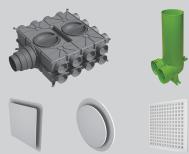
UniAir air distribution system - round Max. air volume per round duct:

DN63 up to 23m³/h DN75 up to 35m³/h DN90 up to $50m^3/h$

UniAir air distribution system - flat Max. air volumes per flat duct:

50 x 100 mm up to 30 m³/h $50 \times 140 \text{ mm}$ up to $55 \text{ m}^3/\text{h}$

ROUTING INFORMATION



Various air distributors are available for supply and extract air distribution in the building depending on the application. Supply and extract air vents are integrated into the hose system via the connectors.

The supply and extract air lines, air distributors and connectors for the supply and extract air vents are mainly routed and installed on the unfinished floor. These components may also be routed and installed in intermediate ceilings. The supply and extract air vents can be installed in the ceiling, floor and in the wall area.







UNIAIR AIR DISTRIBUTOR DN 125 - 180 BASIC (GALVANISED) DN 125 - 180 PREMIUM, SILENT-WHITE (TRAFFIC WHITE RAL 9016) WITH SOUND INSULATION

For supply or extract air 10 nozzles DN 75 with 5 sealing caps.

The panel can be mounted either at the top or at the front.

An adapter is required for the connection to the air distributor for the UniAir air distribution systems - flat and round DN 63, DN 90, 50 x 100 and 50 x 140.

A further 8 connections (4 connections per side) can be used as an option

Note:

UniAir connection pieces are required if the 8 other connections are used. In addition, the UniAir air distributor can be extended with an additional 10 connections, a UniAir air distributor adapter plate is required for this!

UNIAIR CONNECTORS

DN 75, 4 pce Antistatic and with antimicrobial effect.

UNIAIR AIR DISTRIBUTOR ADAPTER PLATE

For extension of the UniAir air distributor. Galvanised or traffic white RAL 9016

AIR DISTRIBUTOR DN 125-180

Plastic, for feed <u>or</u> extract air Antistatic and with antimicrobial effect

8 connectors DN 75 with 4 pipe caps

An adapter is required for the connection to the air distributor for the UniAir air distribution systems - flat and round DN 63, DN 90, 50 x 100 and 50 x 140. For 50x140, max. 6 connections possible.

Note: Click and seal ring DN 75 required!

AIR DISTRIBUTOR DN125-180

Plastic,for supply <u>or</u> extract air Antistatic and with antimicrobial effect

16 connectors DN 75 with 8 pipe caps

An adapter is required for the connection to the air distributor for the UniAir air distribution systems - flat and round DN 63, DN 90, 50 x 100 and 50 x 140. For 50x140, max. 12 connections possible.

Note: Click and seal ring DN 75 required!

Mechanical ventilation CWL-2 / CWL Excellent Air distributor













AIR DISTRIBUTOR DN125-180

Plastic,for supply <u>or</u> extract air Antistatic and with antimicrobial effect

24 connectors DN 75 with 12 pipe caps

An adapter is required for the connection to the air distributor for the UniAir air distribution systems - flat and round DN 63, DN 90, 50 x 100 and 50 x 140. For 50x140, max. 18 connections possible.

Note: Click and seal ring DN 75 required!

MINI AIR DISTRIBUTOR 6-75

Plastic, for supply <u>or</u> extract air Antistatic and with antimicrobial effect.

An adapter is required for the connection to the air distributor for the UniAir air distribution systems - flat and round DN 63, DN 90, 50 x 100 and 50 x 140.

Note: Click and seal ring DN 75 required!

MINI AIR DISTRIBUTOR 8-75

Plastic, for supply <u>or</u> extract air Antistatic and with antimicrobial effect.

An adapter is required for the connection to the air distributor for the UniAir air distribution systems - flat and round DN 63, DN 90, 50 x 100 and 50 x 140.

Note: Click and seal ring DN 75 required!

MINI AIR DISTRIBUTOR 12-75

Plastic, for supply <u>or</u> extract air Antistatic and with antimicrobial effect.

An adapter is required for the connection to the air distributor for the UniAir air distribution systems - flat and round DN 63, DN 90, 50×100 and 50×140 .

Note: Click and seal ring DN 75 required!

MINI AIR DISTRIBUTOR 16-75

Plastic, for supply <u>or</u> extract air Antistatic and with antimicrobial effect.

An adapter is required for the connection to the air distributor for the UniAir air distribution systems - flat and round DN63, DN 90, 50 x 100 and 50 x 140.

Note: Click and seal ring DN 75 required!

VOLUMETRIC FLOW CONTROLLER V·EASY

For adjusting the volume flows on the air distributor DN125 - 180, Mini air distributor and UniAir air distributor

Mechanical ventilation CWL-2 / CWL Excellent Air distributor







RESTRICTOR DN 75

For DN 125-180 air distributor, Mini air distributor and UniAir air distributor Plastic, antistatic and with antimicrobial effect 10 pieces

ADAPTER DN63, DN90

For DN 125-180 air distributor, Mini air distributor and UniAir air distributor Plastic, antistatic and with antimicrobial effect

Note: Click and seal ring DN 63 required!

ADAPTER FOR FLAT DUCT 50X100

For connection to air distributor DN 125-180, Mini air distributor and UniAir air distributor Plastic, antistatic and with antimicrobial effect

Note: Seal ring 50x100 required!



ADAPTER FOR FLAT DUCT 50X140

For connection to air distributor DN125-180, Mini air distributor and UniAir air distributor Plastic, antistatic and with antimicrobial effect

Note: Seal ring 50x140 required!

Mechanical ventilation CWL-2 / CWL Excellent UniAir air distribution system - round

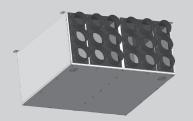












UNIAIR AIR DISTRIBUTION HOSE

With a smooth inner skin, antistatic and with antimicrobial effect	DN 63, 50 m roll DN 75, 50 m roll
	DN 90, 50 m roll
With smooth internal surface	DN 63, 50 m roll DN 75, 50 m roll

CLICK CONNECTOR FOR UNIAIR AIR DISTRIBUTION HOSE

Antistatic and with antimicrobial effect DN 63 DN 75 DN 90 Note: Click and seal ring required.

BEND 90°

DN 63 DN 75 DN 90 Antistatic and with antimicrobial effect Note: Click and seal ring required.

PIPE CUTTER FOR UNIAIR AIR DISTRIBUTION SYSTEM - ROUND

DN 75

COLLAR RINGS

For MULTI air distributors DN 125, 2 pce DN 160, 2 pce Antistatic and with antimicrobial effect

MULTI AIR DISTRIBUTORS

Metal, for supply air <u>and</u> extract air, incl. silencer Sound attenuating material, closed cell as per DIN 1946-6 Length 482 mm

DN 125: 2x10 connectors each DN 75 or DN 63, each with 5 pipe caps

Available for CWL-F-150 Excellent

MULTI AIR DISTRIBUTORS

Metal, for supply air <u>and</u> extract air, Sound attenuating material, closed cell as per DIN 1946-6

DN 160: 2x9 connectors each DN 75 or 63, each with 5 pipe caps

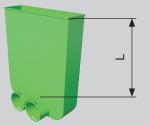
Available for CWL-F-300 Excellent



Mechanical ventilation CWL-2 / CWL Excellent UniAir air distribution system - round









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CONNECTOR FOR VALVE DN 125

A pipe cap and two pipe connectors incl. cover connector for vent DN125, antistatic and antibacterial DN 63, L = 325 mm DN 75, L = 325 mm DN 90, L = 325 mm

Note: Click and seal ring required!

CONNECTOR FOR VALVE DN 125

A pipe cap and two pipe connectors incl. cover connector for vent DN125, antistatic and antibacterial DN75, L = 325 mm

Note: Click and seal ring required!

FLOOR GRILLE CONNECTOR

One pipe cap and two pipe connectors are antistatic and with antimicrobial effect DN 75, L = 300 mm

Note: Click and seal ring required. Use DN 63 for DN 63 adaptor!

CLICK RING

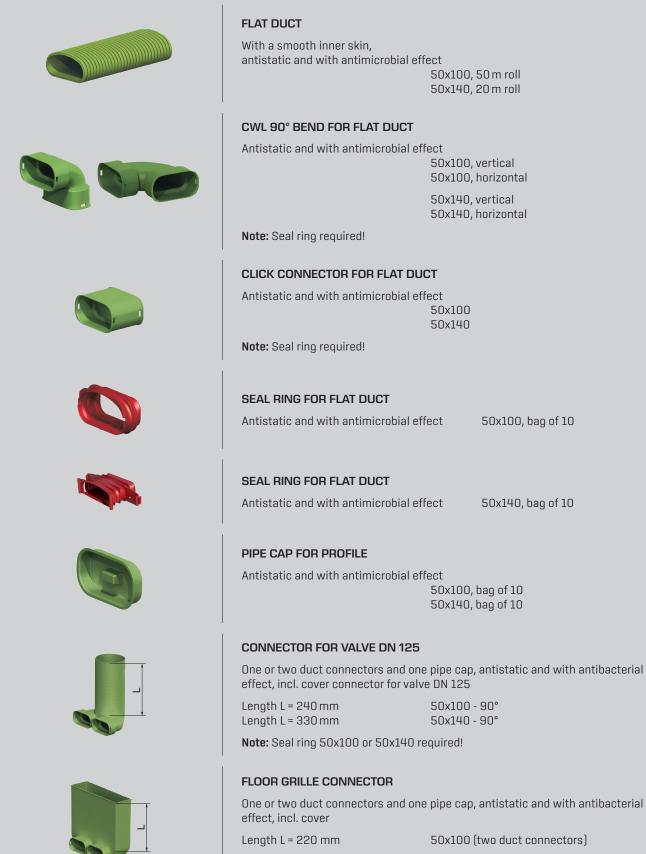
Antistatic and with antimicrobial effect

DN 63, (bag of 10) DN 75, (bag of 10) DN 90, (bag of 10)

SEAL RING

DN 63, bag of 10 DN 75, bag of 10 DN 90, bag of 10

Mechanical ventilation CWL-2 / CWL Excellent UniAir air distribution system - flat



Note: Seal ring 50x100 required!

Mechanical ventilation CWL-2 / CWL Excellent UniAir air distribution system - flat











FLOOR GRILLE CONNECTOR

One duct connector and one pipe cap, antistatic and antibacterial, incl. cover

Length L = 240 mm

50x140 (one duct connector)

Note: Seal ring 50x140 required!

FLOOR GRILLE, METAL

White or stainless steel

AIR DISTRIBUTOR

Metal, for supply <u>und</u> extract air incl. silencer for direct installation on the CWL-F-150 Excellent. Sound attenuating material, closed cell as per DIN 1946-6

DN125: 2x6 connectors each, 50x100 with 3 pipe caps

AIR DISTRIBUTOR

Metal, for supply air <u>and</u> extract air incl. silencer for direct installation onto the CWL-F-300-Excellent. Sound attenuating material, closed cell as per DIN 1946-6

DN160: 2x9 connectors each, 50x100 with 5 pipe caps

RESTRICTOR FOR FLAT DUCT

Antistatic and with antimicrobial effect Available for CWL-F-150 Excellent 50x100, bag of 10

Mechanical ventilation CWL-2 / CWL Excellent flexible UniAir air distribution system - round





90° ADAPTOR FROM DN 75 ROUND TO FLAT DUCT 50X100

Antistatic and with antimicrobial effect **Note:** Click and seal ring required.

ANGLE ADAPTOR 2X ROUND DN 75 TO 1X FLAT DUCT 50X140

Antistatic and with antimicrobial effect Note: Click and seal ring required.

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UNIVERSAL CLIP FOR FLAT DUCT 50X100, 50X140 AND ROUND TUBE Ø 63 MM AND Ø 75 MM 10 pce

Mechanical ventilation CWL-2 / CWL EXCELLENT SUPPLY/EXTRACT AIR VENTS



UNIAIR 125R

Round design valve for supply and extract air



UNIAIR 125Q Design valve square for supply and extract air

FILTER BAG 5 pce Available for CWL extract air vents



KITCHEN EXTRACT AIR VENT WITH FILTER ISO COARSE 45% (G3)

Mechanical ventilation FWL PushPull 45 (RC) Decentralised ventilation unit with heat recovery, single unit

- Decentralised single-room ventilation unit for balanced supply and extract air operation
- FWL-PushPull 45 wired version, inner cover with electric flap with manual flap latch
- FWL-PushPull 45 RC wireless version, inner cover with electric flap
- Use only for supply air rooms with an outer wall
- with heat recovery consisting of two fans, two ceramic heat exchangers, inner cover and two filters
- required accessories: Shell sleeve, outer cover or soffit element and controller FWL-PushPull RLS or RLS-K or for wireless version FWL PushPull RC
- optional accessories: Wall block, sensors and power unit (with more than 6 fans)
- operation in pairs recommended, at least two devices required for FWL PushPull 45 RC
- The FWL-RLS and RLS-K controllers can be supplemented with an internal humidity sensor
- Other external sensors CO2, VOC, relative humidity
- FWL PushPull 45 and FWL PushPull 30 can be combined using the FWL PushPull RLS-K controller (max. 6 fans)
- Operating programs: Continuous ventilation with heat recovery, cross ventilation or sensor-guided automatic operation. Additional functions possible via accessories
- Wireless and wired versions can be connected using the FWL PushPull RLS 45 K controller and the EnOcean extension module
- The RC versions can be combined with any number of devices
- The FWL-ABLV extract air fan as per DIN 18017-3 is available for internal extract air rooms without an outer wall



TYPE FWL		45	45RC
Energy efficiency class	$A+ \rightarrow F$	A+	A+
Max. air flow rate	m³/h	42	42
Electr. Power consumption	W	3.5	3.5
IP rating	IP	00	00
Filter (outside/inside)		ISO COARSE 55% (G3)	/ ISO COARSE 30% (G2)
Required wall breakthrough	mm	162 to 182mm	162 to 182mm
Heat recovery level (DIN EN 13141-8)	%	84.3	84.3
SPI (DIN EN 13141-8)	Wh/m ³	0.11	0.12
Voltage	V	12	230
Dimensions			
Duct connection diameter	DN	160	160
Wall thickness max.	mm	490	490
Height	mm	246	246
Width	mm	246	246
Depth	mm	282	282
Weight	kg	3.1	3.2

Decentralised single-room ventilation unit for balanced supply and extract air operation

- FWL-PushPull 30 wired version, inner cover with electric flap
- FWL-PushPull 30 RC wireless version, inner cover with electric flap
- Only use in extract air spaces with an outer wall
- with heat recovery consisting of two fans, two ceramic heat exchangers, inner cover and two filters
- required accessories: Shell sleeve, outer cover and controller RLS-K or for wireless version FWL PushPull RC
- optional accessories: Wall block, sensors and power unit (with more than 6 fans)
- The FWL-RLS and RLS-K controllers can be supplemented with an internal humidity sensor
- Other external sensors CO2, VOC, relative humidity
- Operating programs: Continuous ventilation with heat recovery, cross ventilation or sensor-guided automatic operation. Additional functions possible via accessories
- FWL PushPull 45 and FWL PushPull 30 can be combined using the FWL PushPull RLS-K controller (max. 6 fans)
- Example of combination options:

2x FWL PushPull 45 + 2x FWL PushPull 30 + 1x controller FWL PushPull 45 RLS K 4x FWL PushPull 45 + 1x FWL PushPull 30 + 1x controller FWL PushPull 45 RLS K

- Wireless and wired versions can be connected using the FWL PushPull RLS 45 K controller and the EnOcean extension module
- The RC versions can be combined with any number of devices
- The FWL-ABLV extract air fan as per DIN 18017-3 is available for internal extract air rooms without an outer wall

TYPE FWL		30	30 RC
Energy efficiency class	$A^+\!\rightarrow\! F$	A	A
Max. air flow rate	m³/h	26	26
Electr. Power consumption	W	5.3	5.3
IP rating	IP	X4	X4
Filter (outside/inside)		ISO COARSE 55% (G3)	/ ISO COARSE 55% (G3)
Required wall breakthrough	mm	162 to 182mm	162 to 182mm
Heat recovery level (DIN EN 13141-8)	%	73.3	73.3
SPI (DIN EN 13141-8)	Wh/m ³	0.19	0.18
Voltage	V	12	230
Dimensions			
Duct connection diameter	DN	160	160
Wall thickness max.	mm	490	490
Height	mm	275	275
Width	mm	275	275
Depth	mm	410	410
Weight	kg	4.7	4.5



Mechanical ventilation FWL PushPull Accessories























FWL-PUSHPULL-45 AK Outside cover, plastic

FWL-PUSHPULL-45 AE Outside cover, stainless steel

FWL-PUSHPULL-45 AS Outside cover, aluminium, black (anthracite)

FWL-PUSHPULL-45 AW Outside cover, aluminium, white

FWL-PUSHPULL-30 AK Outside cover, plastic

FWL-PUSHPULL-30 AS Outside cover, aluminium, black (anthracite)

FWL-PUSHPULL-30 AW Outside cover, aluminium, white

FWL-PUSHPULL-30 AE Outside cover, stainless steel

FWL-PUSHPULL RBH Wall sleeve [500mm]

FWL-PUSHPULL MB Wall block

FWL-PUSHPULL SDE Noise insulation element

FWL-PUSHPULL- ARE Compensation frame [stainless steel] for outer cover FWL-PushPull-30 and 45. For the outdoor covers (except FWL-PushPull-30 AK), we also need the ARE-BB or ARW-BB mounting plate.

The compensation frame is required if the minimum wall thickness is not reached.

Mechanical ventilation FWL PushPull Accessories













FWL-PUSHPULL- ARW

Compensation frame (white) for outer cover FWL-PushPull-30 and 45.

For the outdoor covers (except FWL-PushPull-30 AK), we also need the ARE-BB or ARW-BB mounting plate.

The compensation frame is required if the minimum wall thickness is not reached.

FWL-PUSHPULL- ARE BB Mounting plate for compensation frame (stainless steel)

FWL-PUSHPULL- ARW BB Mounting plate for compensation frame (white)

FWL-PUSHPULL-30 FG3 2 pce Replacement filter G3

FWL-PUSHPULL-45 FG3 2 pce Replacement filter G3 (outside)

FWL-PUSHPULL-45 AS 2 pce Replacement filter G2 (inside)

Mechanical ventilation FWL PushPull Extract air fan























FWL-ABLV Extract air fan for window-less bathrooms as per DIN18017-3

FWL-ABLV AG Surface-mounted casing without fire protection

FWL-ABLV UG Flush-mounted casing

FWL-ABLV IB Internal panel

FWL-ABLV IB RH Internal panel with humidity sensor

FWL-ABLV F Replacement filter G2 [with filter indicator]

FWL-ABLV F - G2 Replacement filter G2 [filter indicator in the cover]

FWL-ABLV MSUG Installation set for flush-mounted casing

FWL-ABLV UPM Flush mount mounting bracket for flush mount housing ABLV UG

FWL-ABLV AS
Suction connector for ABLV UG flush-mounted housing

FWL-ABLV ZR Second room connection for FWL-ABLV UG

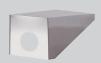
FWL-ABLV ZR G2 5 pce Replacement filter G2 for FWL - ABLV ZR

Mechanical ventilation FWL PushPull ROOF HOOD



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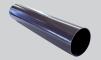














FWL-PUSHPULL-45 DFK 45 DFK 46-55° Roof hood [roof incline 46 - 55°]

FWL-PUSHPULL-45 DH 36-45° Roof hood [roof incline 36 - 45°]

FWL-PUSHPULL-45 DH 31 - 35° Roof hood (roof incline 31 - 35°)

FWL-PUSHPULL-45 DH 25 - 30° Roof hood [roof incline 25 - 30°]

FWL-PUSHPULL-45 DER 26 - 55° Roof flashing frame [roof incline 26 - 55°]

FWL-PUSHPULL-45 DER 25 - 35° Roof flashing frame [roof incline 25 - 35°]

FWL-PUSHPULL-45 DFHL Roof opening duct, long [2240 mm]

FWL-PUSHPULL-45 DFHK Roof opening duct, short [1180 mm]

FWL-PUSHPULL-45 DFK Roof opening duct

Mechanical ventilation FWL PushPull Soffit component





FWL- PUSHPULL - 45 LEW PP 45 LEW soffit element angle

FWL- PUSHPULL - 45 LE VERL PP 45 LEV soffit element extension

FWL- PUSHPULL - 45 LE ES - AD PP 45 LE soffit element stainless steel outer cover

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FWL-PUSHPULL-RLS Room air control

FWL-PUSHPULL-RLS - K Comfort room air control

FWL-PUSHPULL- RLS - RC RC wireless switch

FWL-PUSHPULL- RLS - LT Power unit [extension for more than 6 fans]

FWL-PUSHPULL-RLS - LTRC RC extension module EnOcean

FWL-PUSHPULL-CO2 SENSOR EXT. Outdoor CO2 sensor

FWL-PUSHPULL VOC SENSOR EXT. Outdoor VOC sensor

FWL-PUSHPULL RH SENSOR EXT. Outdoor humidity sensor

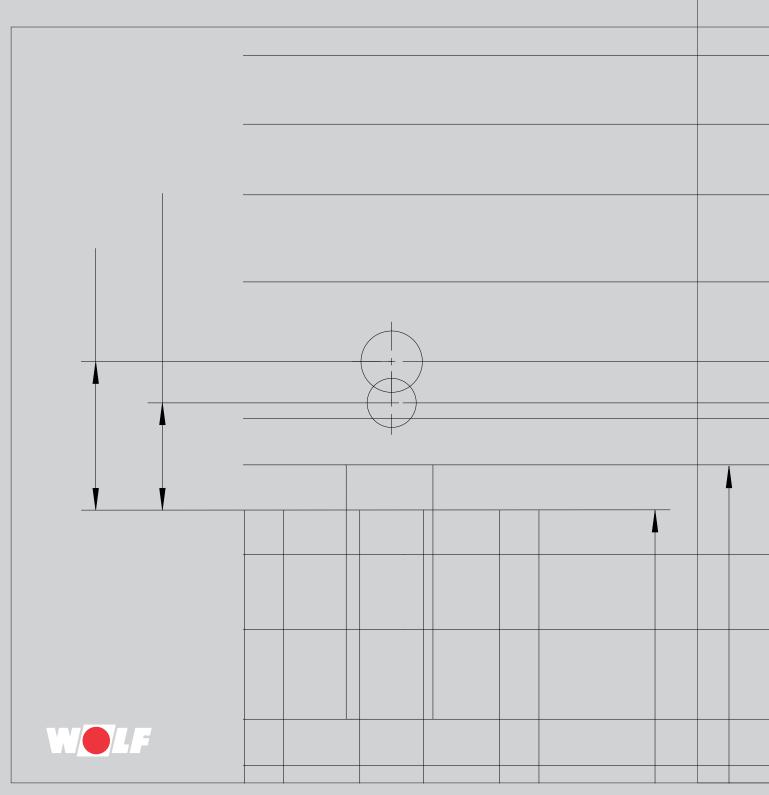
FWL-PUSHPULL RH SENSOR INT. Internal humidity sensor Mechanical ventilation FWL PushPull Sensors

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Dealer address

WOLF GMBH/POSTFACH 1380/D-84048 MAINBURG/TEL. +49.0.875174-0/FAX +49.0.875174-1600/www.WOLF.eu



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