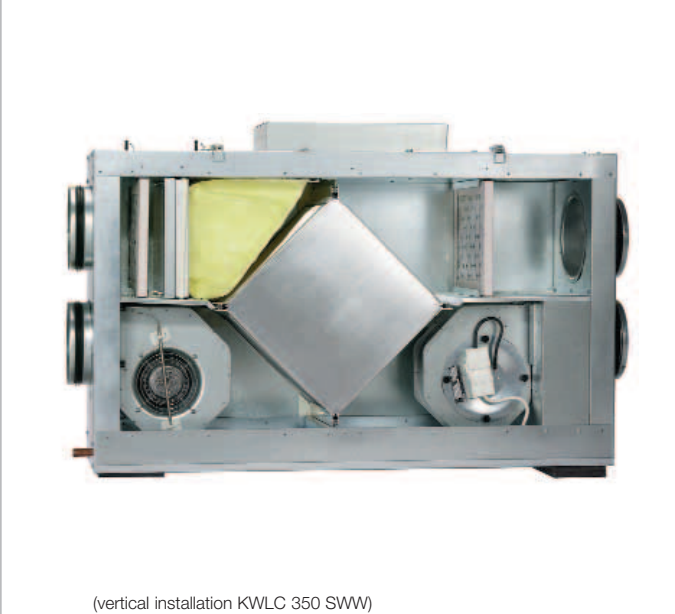
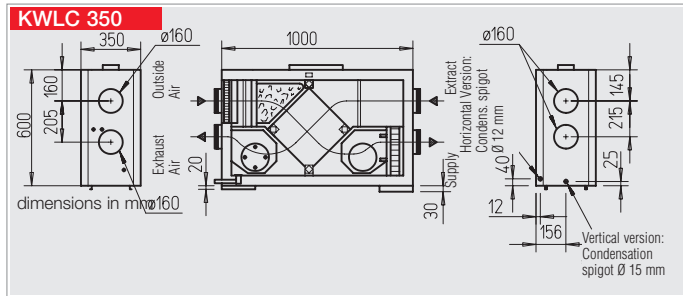


KWLC 350



(vertical installation KWLC 350 SWW)



Units for universal installation for ventilation with heat recovery. KWLC 350 for vertical or horizontal installation.

Suitable as central unit for controlled ventilation of residential buildings and low-energy houses. Also suitable as central or de-central solution for commercial and industrial applications for room sizes up to 240 m².

TÜV approved performance. Certified by DIBt (Deutsches Institut für Bautechnik) Z-51.3-129 (KWLC 350 types).

Special characteristic

- Highly efficient heat exchanger with efficiency of more than 90%.
- Easy installation. Both side panels are removable without tools. Unit can be positioned to give right or left hand installation.
- Easy servicing. Free access to all parts. Perfect for cleaning, filter change and service.
- Easy listening. Double skinned casing for excellent heat and noise insulation.

Specification

Casing

- Made from galvanised steel. Double skinned with 50 mm thick heat and noise insulating mineral wool.
- Side panels are easily removable without tools by opening the clamps. This allows free access to all parts. Perfect for cleaning, filter change and service.
- Anti vibration feet supplied with a drop towards condensation spigot, for vertical units.

Heat exchanger

With a large surface the exchanger provides an exceptionally high efficiency. Made from aluminium to ensure a durable high quality. Easy to remove for cleaning.

Air flow

Two silent and energy saving centrifugal fans arrange move the supply air and extract air. They are maintenance free and easy to clean.

Air filter

- Supplied as standard: Clean intake air by two filters. The supply air is filtered by a pre-filter EU3 and a pollen filter EU5 before entering the heat recovery section. The extract filter (EU3) cleans the air before the heat exchanger. A finer pollen filter class EU7 is available (accessory).
- All filters can be easily removed for cleaning and exchange.

Frost protection/pre-heating

An electric pre heater prevents the heat exchanger from icing up.

Speed control – KWLC 350..

- The three-speed controller is supplied in the package. One of five speeds can be selected as medium speed (as per required capacity, see performance curve).
- The controller includes two push switches with the following functions:
 - Control of the ventilation power: “min., medium, max.”
 - On/off switch of the electric heater. The settings are displayed with 6 LEDs: 3 ventilation steps, heater/exchanger “auto/off” and heater/exchanger “active”, “failure” (red).
- The controller comes with 12 mtrs. of cable and can be installed surface or flush mounted.
- Combined with the differential pressure switch, the condition of the filter is displayed with the red LED (accessory).
Type DDS Ref. No. 0445
- The controller can be combined with a seven day clock timer WSU for automatic operation (accessory).

Type KWL-WSU No. 0856

Heater battery

Supply air can be warmed up with a heater battery:

- Electric heater battery (types ..EH) to be controlled by built-in adjustable thermostat.
- Hot water heater battery (types ..WW) controlled by built-in adjustable thermostat with control strategy for motorised valve (by others).

Summer operation

To supply cool outside air in warmer periods the KWLC 350 unit is equipped with a summer kit (for self assembly) as standard. Simple exchange for heat exchanger.

Electrical connection

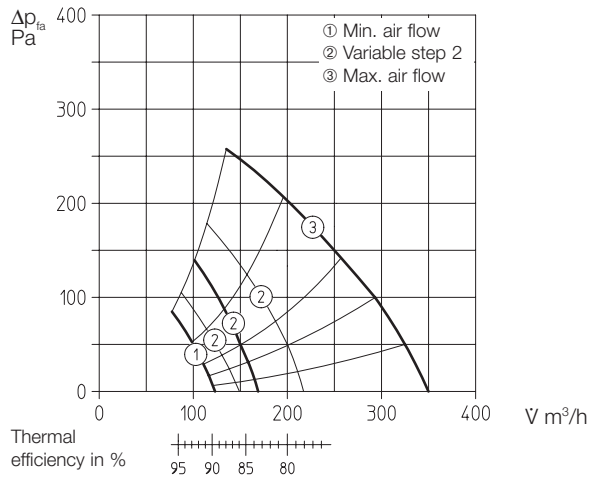
Large terminal box with easy access on the upper side of the casing.

Condensation connection

Condensation spigot at the bottom of a front side. To be connected to the drainpipe on site.

KWLC 350

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Extract Air		dB(A)	50	41	45	43	42	38	31
L _{WA} Supply Air		dB(A)	64	49	55	53	54	61	52
L _{PA} Case breakout		dB(A)	47	36	41	43	41	38	24



■ **Accessories**

Clock timer (for KWLC 350..)

Digital clock timer with LCD and factory-set time. Programmable for all days of the week.



Type KWL-WSU Ref. No. 0856
dim. mm W 85 x H 85 x D 52

Technical data

	KWLC 350			With hot water heater battery (LPHW)		
	With electric heater battery					
	Type	Ref. No..		Type	Ref. No.	
For vertical installation	KWLC 350 SEH	0076		KWLC 350 SWW	0174	
For horizontal installation						
Air flow volume on step*	③	②	①	③	②	①
Supply/Extract air flow V m³/h approx.	350	170	120	350	170	120
Sound levels in dB(A)*						
Supply L _{WA} (sound power level)	64	58	49	64	58	49
Exhaust L _{WA} (sound power level)	50	44	35	50	44	35
Case breakout L _{PA} at 1 m	47	41	32	47	41	32
Power fan 2 x W*	120	60	25	120	60	25
Voltage/Frequency	230 ~, 50 Hz			230 ~, 50 Hz		
Nominal power max. Amps	- fan: 1.1			1.1		
	- pre heater/heater battery: 4.2/4.3			4.2/-		
	- total max.: 9.6			5.3		
Thermal efficiency	see performance curve			see performance curve		
Heat power/heater battery kW	1 (electric)			1 ¹⁾		
Electric pre heater kW	0.975			0.975		
Electric Supply	NYM-J 3 x 1,5 mm ²			NYM-J 3 x 1,5 mm ²		
Wiring Diagramm No.	832			832		
- Principle Connection	—			—		
Temperature operation range	-20 °C to + 40 °C			-20 °C to + 40 °C		
Connection of PWW heater battery	—			ø 12 mm		
Weight in kg	50			50		

* Figures relate to the three performances with the thick lines, achieved either through a stepped controller or the time clock WSU
1) At supply air temperature (before heater) 0 °C and water temperature of 60 °C.