Performance curves KWL 220 D

Frequency*		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Extract air	dB(A)	57	48	53	53	45	39	27	20
L_{WA}	Supply air	dB(A)	72	59	65	68	65	58	50	36
L_{PA} at 1 m	Radiation	dB(A)	41	22	35	39	31	23	18	12

Δp_{fa} PA

① 10%
② 20%
③ 30%
④ 40%
⑤ 50%
⑥ 60%
⑦ 70%
⑧ 80%
⑨ 90%
⑩ 100%
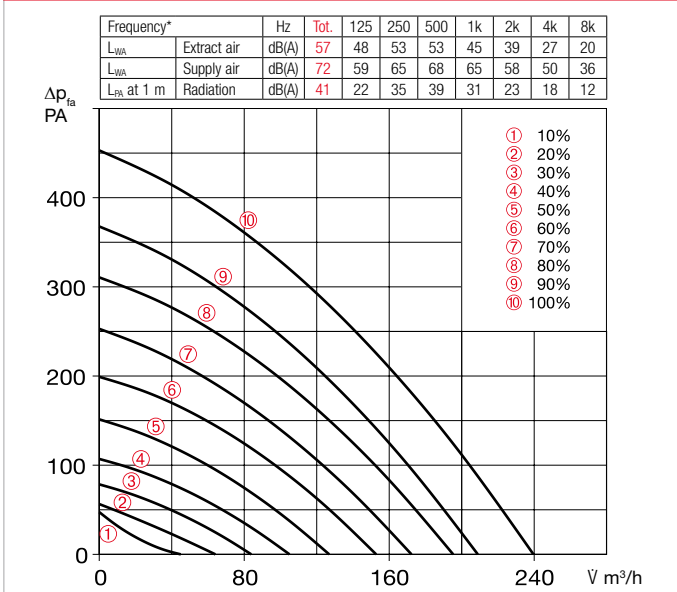
*Sound information relate to Vref. according to ERP data sheet.

Slide switch control element
KWL BE ECO   Ref. no. 20246
Three-step slide switch including operation indicator, for flush-mounted installation. Function see left.
Dim. mm (W x H x D) 80 x 80 x 37
Casing for surface installation
KWL APG   Ref. no. 04270
Dim. mm (W x H x D) 83 x 83 x 41

Touch control element
KWL BE Touch bl
(black)   Ref. no. 20244
KWL BE Touch wh
(white)   Ref. no. 20245
With graphic display, for flush-mounted installation. Function see left. Connection of up to 6 pcs. possible (additional power supply unit may be required). Can be integrated in common switch ranges with the dimensions mm (W x H x D) 55 x 55 x 35, Dim. with frame mm (W x H x D) 88 x 88 x 35
Casing for surface installation
KWL APG Touch bl   No. 40178
KWL APG Touch wh   No. 40177
Dim mm (W x H x D) 85 x 85 x 25

Control line cable
KWL-SL eC 5m   Ref. no. 40179
KWL-SL eC 10m   Ref. no. 40180

Control line cables in 5 or 10 meters, suitable for KWL-BE ECO / Touch as well as room sensor.

Technical data	KWL 220 D R/L	For ceiling installation			
Right-hand version	**KWL 220 D R**	Ref. no. 40057			
Left-hand version	**KWL 220 D L**	Ref. no. 40058			
Flow rate at level [1] [2]	⑩	⑧	⑥	④	②
Supply air/extract air V̇ m³/h	240	195	153	105	64
Power consumption fans 2xW [1]	47	30	18	10	6
Voltage/Frequency	1~, 230 V, 50 Hz				
Rated current A – ventilation	0.8				
– preheating	4.4				
– max. total	0.8 (5.2 incl. preheater, accessories)				
Electric preheater kW	1.0 kW (accessories)				
Summer bypass	automatic (adjustable), with heat exchanger cover				
Wiring diagram no.	1433				
Temperature operating range	− 20 °C to + 40 °C				
Installation temperature	+ 5 °C to + 40 °C (90 % rel. humidity, non-condensing)				
Weight approx. kg	47				

[1] At 0 Pa, performance levels adjustable. [2] Volume reduction by approx. 10 % when using pollen filter.
[3] AK = Activated carbon filter

KNX/EIB module
KWL-KNX Connect   No. 20253
For integrating the ventilation unit in a KNX system. For switch cabinet installation (1 space unit required).

Room sensors
KWL-CO2 eC   Ref. no. 20248
KWL-FTF eC   Ref. no. 20249
KWL-VOC eC   Ref. no. 20247
For measuring the CO_2, mixed gas (VOC) concentration or relative room air humidity. Please note the maximum number of sensors, additional power supply unit may be required.
Dim. mm (W x H x D) 98 x 98 x 33

Electric preheater
KWL-EVH 220 D   No. 09636
Electrical preheater for simple, plug-in unit installation. For preheating the intake air at very low outdoor temperatures (heat exchanger anti-icing protection). Mandatory for passive houses. Output: 1000 W.

Extension module
KWL-EM eC   Ref. no. 40155
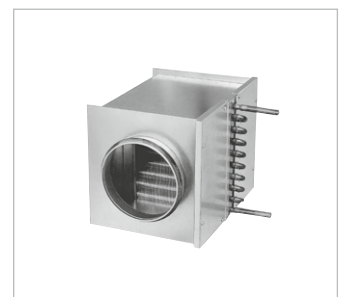For controlling external post-heating elements.
Dim. mm (W x H x D) 210 x 210 x 100

Motion detector
BWM   Ref. no. 08323
Motion detector for detecting the presence of persons in the room. Surface-mounted wall installation (cable entry at top or bottom) or installation in flush-mounted box Ø 55 mm (cable entry at back).

Electric post-heating element
For additional supply air heating.
EHR-R 1.2/125   Ref. no. 09433
Rectangular duct temp. sensor
KWL-LTK eC (1 pc. req.) No. 40156

Warm water post-heating element
For additional supply air heating.
WHR 125   Ref. no. 09480
Rectangular duct temp. sensor
KWL-LTK eC (2 pc. req.) No. 40156
Hydraulic unit
WHSH HE 24 V (0-10 V) No. 08318
Alternative:
Air temperature control
WHST 300 T38   Ref. no. 08817

■ Replacement air filters
– 2 pcs. ISO Coarse 75 % (G4)
ELF-KWL 220 D/4/4   No. 09638
– 1 pc. ISO ePM$_1$ 50 % (F7)
ELF-KWL 220 D/7   No. 09639
– 1 pc. ISO ePM$_{2.5}$ 60 % (AK)[3]
ELF-KWL 220 AK   No. 03050

■ Circular duct connector
Connector with seal for unit connection to circular duct system with Ø 125 mm.
RVBD 125 K   No. 03414

A+   required for efficiency class A+

■ Other accessories   Page
KWL peripherals   150 ff.
– Ground heat exchanger   174 ff.
– Insulated duct system   164 f.
– Air distribution systems   166 ff.
– Control lines, etc.   170 f.
Heating element, control   486 ff.
ventilation grilles, ducts,
roof outlets   561 ff.
extract air elements, design
ventilation valves   574 ff.