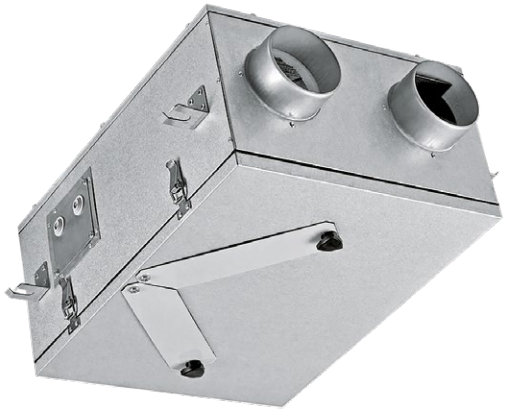
KOMFORT ULTRA D 80

Single room heat recovery air handling units



Features

- Air handling units for efficient supply and exhaust ventilation in flats, houses, cottages and other buildings.
- Heat recovery minimises ventilation heat losses.
- Controllable air exchange for creating the best suitable indoor microclimate.
- Compatible with round ∅ 125 mm air ducts.

Air flow:
up to 70 m³/h
19 l/s

Heat recovery efficiency:
up to 76 %

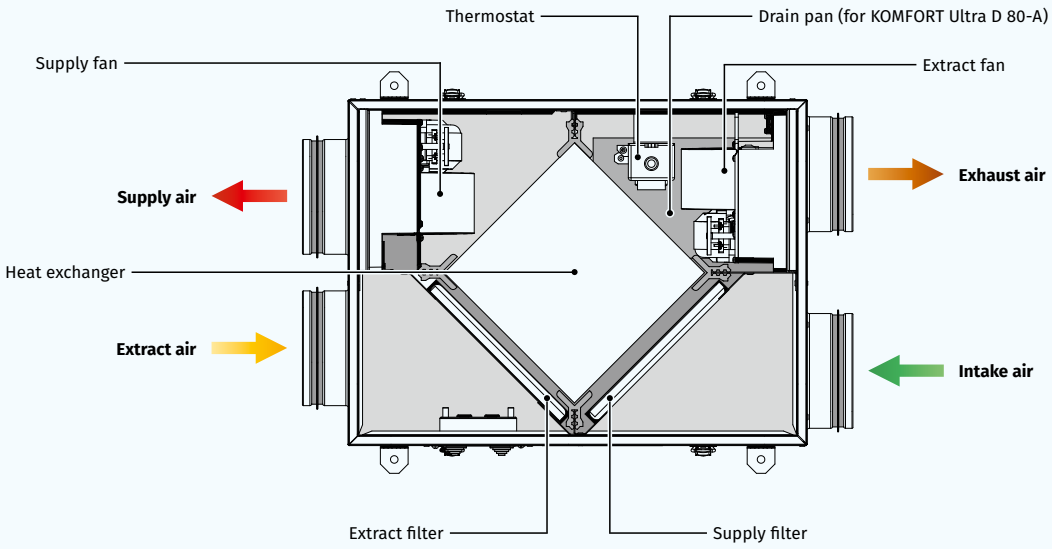
ErP 2018

Design

- The compact casing is made of double-skinned aluzinc panels, internally filled with 15 mm PE foam film layer for heat and sound insulation.
- The casing has mounting angles for easy installation.
- The spigots for connection to the air ducts are located at the side of the unit and are rubber sealed for airtight connection to the air ducts.
- The supply and exhaust spigots are equipped with backdraft dampers.
- The hinged side panel of the casing ensures easy access to the internals for cleaning and other maintenance operations.

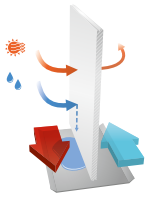
Fans

- Asynchronous motors are used for air supply and exhaust.
- Centrifugal impeller with forward curved blades ensures high pressure and low noise level.
- Integrated overheating protection
- Dynamically balanced impellers.
- Equipped with ball bearings for longer service life.



Heat recovery

- The **KOMFORT Ultra D 80** unit is equipped with a plate cross-flow polystyrene heat exchanger for heat recovery. The unit condensate is collected and drained to the drain pan under the heat exchanger.



- The **KOMFORT Ultra D 80-E** unit is equipped with an enthalpy plate cross-flow heat exchanger for energy (heat and humidity) recovery. Due to humidity recovery condensate is not generated in the enthalpy heat exchanger.



FREEZE PROTECTION

- The integrated electronic frost protection system in **KOMFORT Ultra D 80** is used to prevent the heat exchanger freezing in cold seasons. In case of heat exchanger freezing danger communicated by the temperature sensor the supply fan is stopped to let warm extract air warm up the heat exchanger. After that the the supply fan is turned on and the unit reverts to the normal operation mode.

Control and automation

- The unit has three speeds. Air flow control by the external speed switch **CDP-3/5**.

Mounting

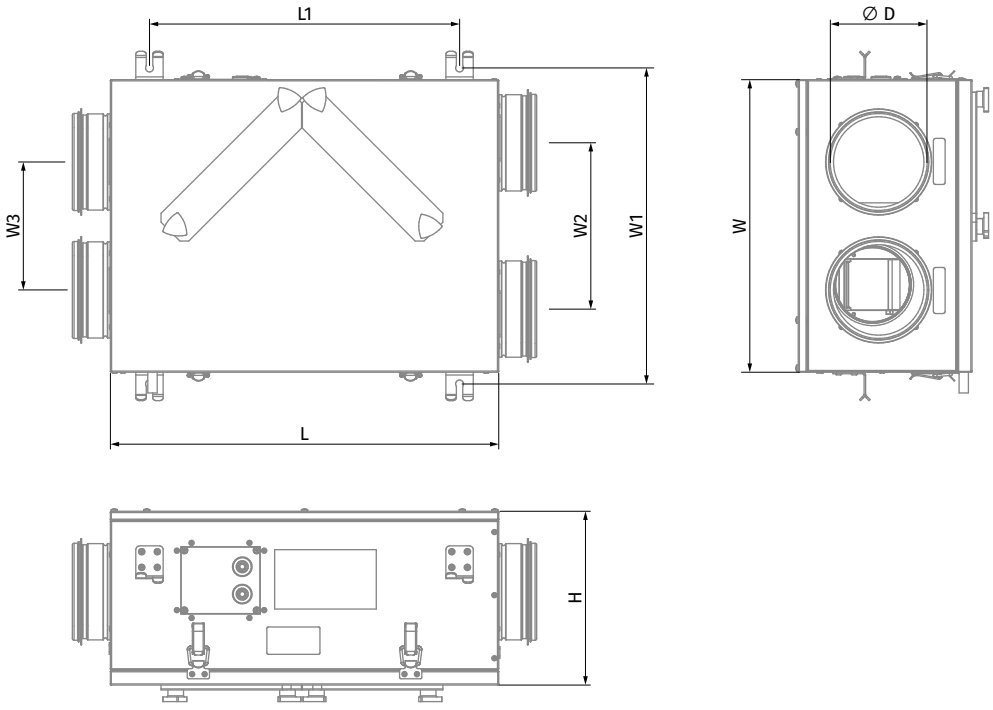
- Indoor installation in horizontal position.
- Mounting in a false ceiling is possible due to compact casing size.

Designation key

Series	Unit type	Mounting type	Rated air flow [m³/h]	Service side
KOMFORT	**Ultra:** compact unit	**D:** suspended mounting	**80**	**L:** left **R:** right

Dimensions [mm]

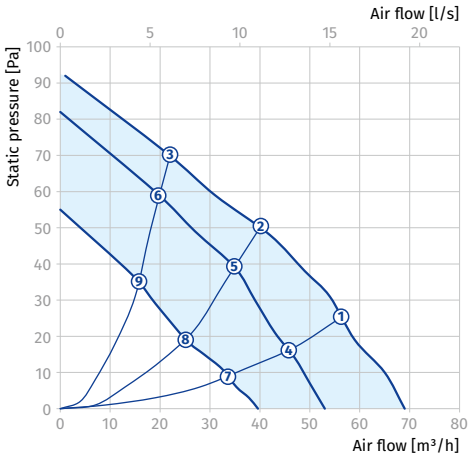
Model	∅ D	H	L	L1	W	W1	W2	W3
KOMFORT Ultra D 80	125	222	497	397	374	404	213	164



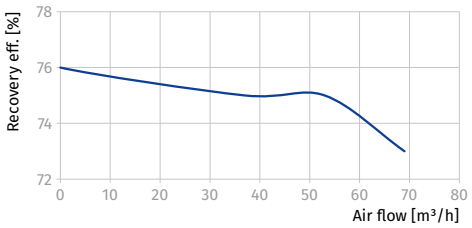
Technical data

Parameters	KOMFORT Ultra D 80 L/R			KOMFORT Ultra D 80-E L/R		
Speed	I	II	III	I	II	III
Voltage [V / 50-60 Hz]		1 ~ 230			1 ~ 230	
Max. unit power [W]	22	32	56	22	32	56
Max. unit current [A]	0,15	0,2	0,34	0,15	0,2	0,34
Maximum air flow [m³/h (l/s)]	40 (11)	55 (15)	70 (19)	40 (11)	55 (15)	70 (19)
Sound pressure level at 3 m distance [dBA]	13	15	19	13	15	19
Transported air temperature [°C]		−15...+40			−15...+40	
Casing material		Aluzinc			Aluzinc	
Insulation		15 mm polyethylene foam			15 mm polyethylene foam	
Extract filter		G4 / Coarse > 60%			G4 / Coarse > 60%	
Supply filters		G4 / Coarse > 60%			G4 / Coarse > 60%	
Connected air duct diameter [mm]		125			125	
Weight [kg]		10			10	
Heat recovery efficiency [%]*		72–76			57–62	
Humidity recovery efficiency [%]		–			30–37	
Heat exchanger type		Cross-flow			Cross-flow	
Heat exchanger material		Polysterene			Enthalpy membrane	

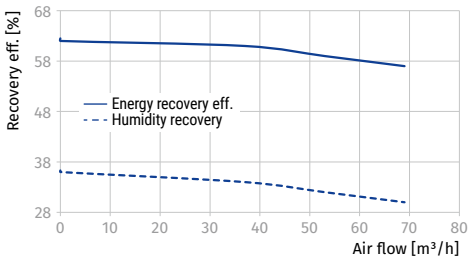
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Point 1											
L_{WA} to environment [dBA]	**40**	25	33	32	27	26	21	19	23	**19**	**29**
Point 4											
L_{WA} to environment [dBA]	**36**	21	29	28	22	19	18	18	23	**15**	**25**



KOMFORT Ultra D 80



KOMFORT Ultra D 80-E



Accessories

		KOMFORT Ultra D 80
G4 panel filter		FP 205x198x8 G4
Silencer		SD 125
Backdraft air damper		VRV 125
Air damper		VK 125
Clamp		K 125