

ICTUS W450

Technical data



Mechanical Ventilation with Heat Recovery
(MVHR)

ICTUS W450

The ICTUS W450 is an advanced ventilation solution designed to meet the stringent requirements of modern ventilation systems. This unit combines high performance with efficiency and durability, making it an ideal choice for both single houses and apartment complexes. The ease of installation through the unique hang-and-go system combined with competitive pricing ensures increased profitability on site.

Key features:



Airflows: **471 m³/h** @100Pa, **463 m³/h** @150Pa, **450 m³/h** @200Pa



Heat recovery efficiency **88% - 85%** (EN308)



EC motors – **low energy** consumption



Whisper quiet



Filters **G4** – option **F7**



Summer bypass for **free cooling** – full automatic



Communication via **Wifi - Modbus**



Wall mounting or stand-alone



Wireless 4-stage switch with LED communication.



left/right software interchangeability



Constantflow



Technical data (ERP – ECODESIGN)

Type	AirSmart ICTUS W450
Description	Ventilatiegroep
Type	Heat recovery unit – double flow
Conformity EPB	D
Model	W450
Fan type	DC
Utility power	220-230 VAC
Max. power (A)	1.35
Frequency	50 Hz
Max. airflow at 100 Pa pressure	471 m ³ /h
Max. airflow at 150 Pa pressure	463 m ³ /h
Max. airflow at 200 Pa pressure	450 m ³ /h
Control possibilities (optional)	4 stage RF / 3 stage wired Via APP (Android & IOS) Demand control CO ₂ , RH, motion, ...
Type of fan control	automatic, constant flow

Technical data	
Type of control	Central Measured locally with CO ₂ , VOC , RH (as an option)
Filter type outside/inside	G4 (optional F7) /G4
Notificiation for filter cleaning or renewal	Filter notification via LED indication on the unit, via APP or on RF control Filters need to be cleaned every 3 months and replaced once a year.
Casing material	EPP (expanded poly propylene)
Bypass	100% open/closed
Bypass control	Automated, based on the outside temperature
Heat exchanger	Counterflow plastic plate
Mounting	Mounting brackets with vibration dampers
Connector extraction (mm)	2 x diam. 180
Connector pulsion (mm)	2 x diam. 180
Max. electrical power (W)	210W
Dimensions (HxWxD)	715x725x550
Weight	18kg

Accoustic performance dB(A) m ³				
Airflow m ³ /h	350 m ³ /h	400 m ³ /h	450 m ³ /h	500 m ³ /h
External pressure Pa	100 Pa	150 Pa	150 Pa	/
Sound pressure EPP case	62,3	69,6	73,2	/
Sound pressure extraction duct	61,3	70,2	74,8	/
Sound pressure pulsion duct	70,1	79,5	83,9	/

Energy efficiency				
Airflow m ³ /h	346 m ³ /h	406 m ³ /h	452 m ³ /h	/
Thermal efficiency in % - EN 308	88%	86%	85%	/
Total power at 150 Pa external 2 fans + control in W	138W	175W	219W	/
Autonomous control	yes			
Bypass	100% open			

Measurements	
Height	715 mm
Width	725 mm
Depth	550 mm
Diameter duct connection	180 mm

Performance curve ICTUS W450

