Product data sheet

117290EN-04
2024-12

EcoNordic WH4

ART.NO. 800501

Flexit EcoNordic WH4 is an indoor climate central with integrated functions for balanced ventilation, tap water production and heating for homes.
The unit provides a healthy indoor climate, plenty of hot tapwater and heating in a very energy efficient way. If little domestic heating is required, the energy is taken directly from the tank without starting the heat pump.
The unit is built up from 4 modules to simplify handling and installation.

Product description

- Environmental friendly/natural refrigerant CO_2.
- Very high efficiency through heat recovery in both ventilation module and heat pump.
- Rotary heat exchanger for optimal operation in Nordic climate.
- Compressor operation with good efficiency down to -25°C.
- Energy efficient hotwater production to 65°C through compressor only.
- All components placed indoor, no need for out-door unit.
- Low installed power.
- All-in-one. Balanced ventilation, hot water and water-borne heating for homes.
- Offers the opportunity for considerable redistribution (TEK17).
- If little domestic heating is required, the energy is taken directly from the tank without starting the heat pump.

Automatic control

All functions of the indoor climate central are controlled through the app Flexit GO.

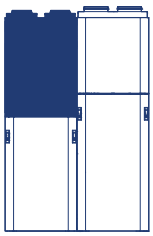
	GTIN	Model
800501	7023678005019	EcoNordic WH4 E4200

		400 V 3N~	230 V 3~
PERFORMANCE	Tap water profile (EN 16147)	XL	XL
	COP, tap water (EN 16147)	3.21	3.21
	Outgoing compressor capacity	up to 4 kW	up to 4 kW
	Sound output (EN12102-2)	52 dB(A)	52 dB(A)
	IP class	IP21	IP21
	Maximum air flow	370 m³/h @ 100 Pa	370 m³/h @ 100 Pa
		103 l/s @ 100 Pa	103 l/s @ 100 Pa
	SFP range (1,5)	110 - 319 m³/h @ 100 Pa	110 - 319 m³/h @ 100 Pa
		31 - 88 l/s @ 100 Pa	31 - 88 l/s @ 100 Pa
	Temperature efficiency	> 90 %	> 90 %
	SCOP (EN 14825)	3,22	3,22
POWER	Rated voltage	400 V 3N~	230 V 3~
	Instantaneous water heater output	3 kW (1 kW)	3 kW (1 kW)
	Fuse size	3x16 A (3x10 A)	3x25 A (3x16 A)
	Rated current, total	14.3 A (10.0 A)	22.3 A (14.8 A)
	Rated power, total	6.4 kW (4.4 kW)	6.4 kW (4.4 kW)
VENTILATION	Fan type	B-wheel	B-wheel
	Fan motor control	0 - 10 V	0 - 10 V
	Automatic control standard	Flexit GO	Flexit GO
	Filter type (supply air/extract air)	ePM1 55 % (F7)	ePM1 55 % (F7)
	Duct connection	Dia. 160 mm	Dia. 160 mm
HOT WATER	Tank volume	197 litres	197 litres
	Nominal operating pressure	0.45/4.5 MPa/bar	0.45/4.5 MPa/bar
	Max operating pressure	0.7/7 MPa/bar	0.7/7 MPa/bar
	Temperature, hot water	5–65°C (Legionella: 75 °C)	5–65°C (Legionella: 75 °C)
HEAT PUMP	Coolant medium	CO_2 (0.5 kg)	CO_2 (0.5 kg)
	GWP	1	1
	Duct connection	Dia. 200 mm	Dia. 200 mm
	Max operating pressure	14/140 MPa/bar	14/140 MPa/bar
	Outdoor air temperature	Min. -25 °C	Min. -25 °C
	Inverter control	Yes	Yes
DIMENSIONS	Height	1,900 mm	1,900 mm
	Width	1,198 mm	1,198 mm
	Depth	650 mm	650 mm
WEIGHT	Total	238 kg	238 kg
	Tank module	71 kg 65 kg (weight without door)	71 kg 65 kg (weight without door)
	Ventilation module	84 kg 76 kg (weight without door)	84 kg 76 kg (weight without door)
	Heat pump	71 kg 65 kg (weight without door)	71 kg 65 kg (weight without door)
	Ventilation chassis	12 kg	12 kg
INSTALLATION	Position	Technical room/cupboard	Technical room/cupboard
	Room temperature	Min. 3 °C	Min. 3 °C

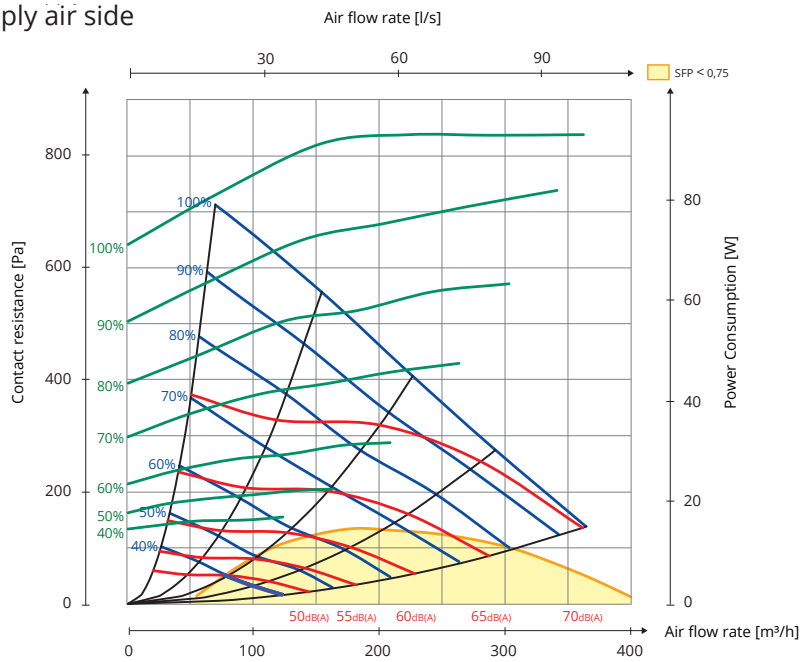
Energy class: A+

(average climatic conditions)

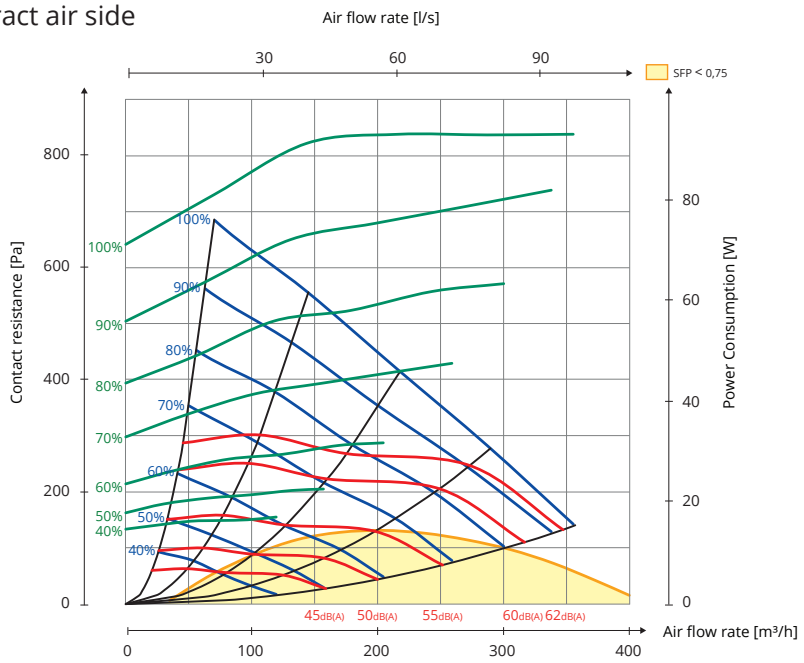
Capacity Diagram



Supply air side



Extract air side



Hz	63 Lw(dB)	125 Lw(dB)	250 Lw(dB)	500 Lw(dB)	1000 Lw(dB)	2000 Lw(dB)	4000 Lw(dB)	8000 Lw(dB)	LwA (dBA)
Supply air	7	7	3	-2	-14	-12	-18	-29	
Extract air	13	10	1	-2	-17	-20	-30	-32	
Radiated	-11	-8	-12	0	0	0	-36	-34	-15

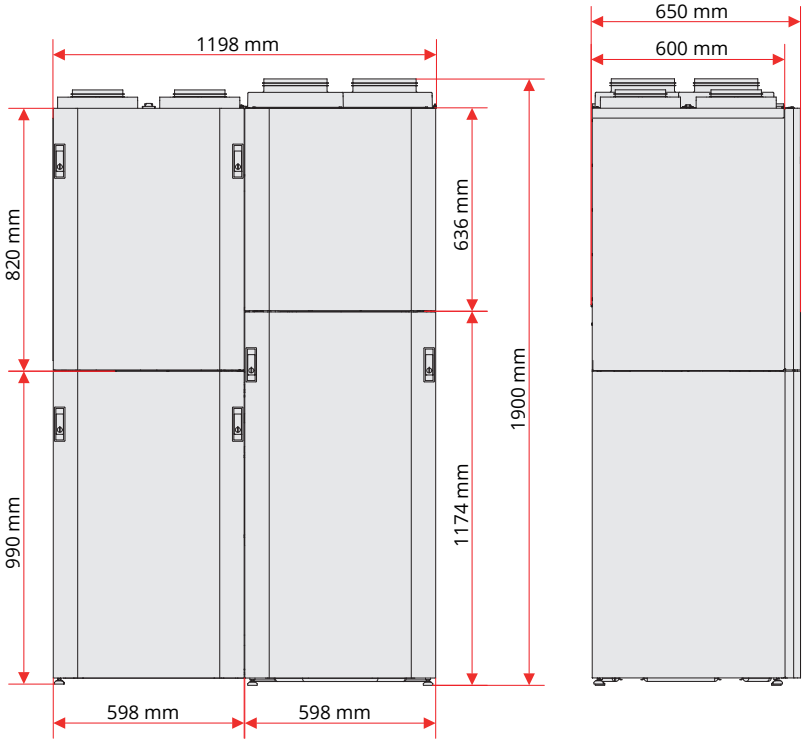
Explanation of diagram:
Sound data is specified as sound power level LwA in the capacity diagrams. (This is sound to duct.)

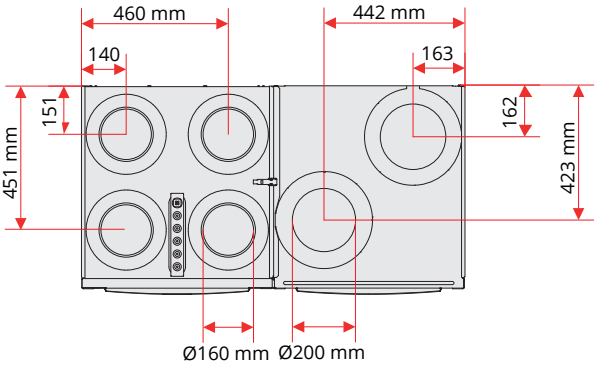
These values can be corrected by means of the table for the different octave bands in order to look at Lw (without adaptation to A band).

The correction table for the various octaves is stated in Lw, which means that the Lw values are after conversion of each octave for supply air and extract air.

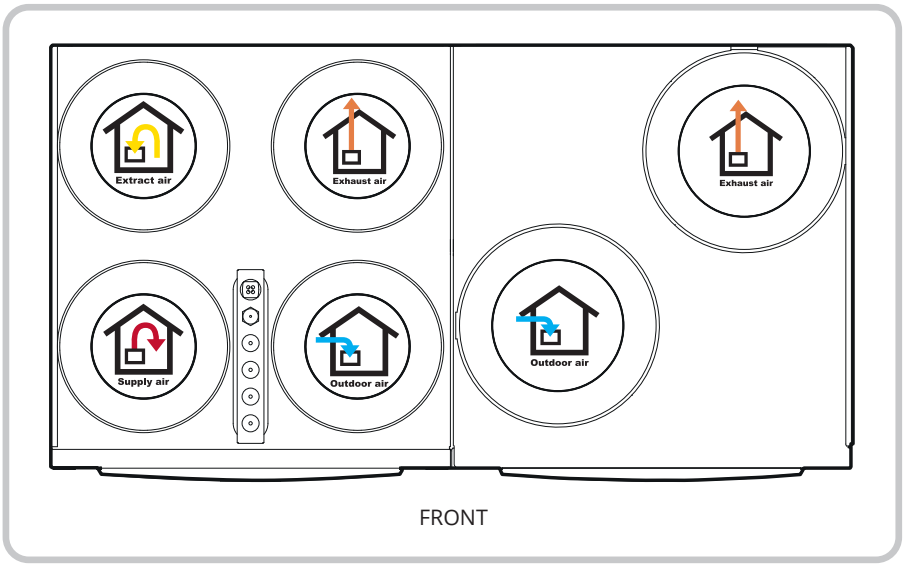
Radiated sound from the unit must be calculated from the supply air diagram.

Dimensioned drawings





Nipple location



For more information on topics including installation, wiring diagrams and accessories, see www.flexit.com