

INSTALLATION AND OPERATING MANUAL

Freon heat exchanger 334

Freon heat exchanger 444

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1. General information

The freon heat exchanger is used to extend the WANAS COMBO heat recovery unit with the function of cooling and reheating the supply air. For the unit to operate correctly, it must be connected to the outdoor unit of the air-conditioning system and the AHU Kit control module. The cooler is mounted on the supply air duct behind the heat recovery unit and is controlled directly from the WANAS air handling unit.

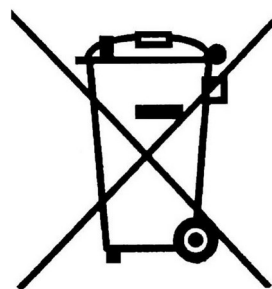
R32 WANAS 334:

- Maximum heating capacity of the heat exchanger: 3.0 kW
- Maximum cooling capacity of the heat exchanger: 3.0 kW

R32 WANAS 444:

- Maximum heating capacity of the heat exchanger: 5.0 kW
- Maximum cooling capacity of the heat exchanger: 5.6 kW

If you intend to dispose of this product, do not throw it away with ordinary household waste. In accordance with Directive 2012/19/EU (WEEE) in force in the European Union, electrical and electronic equipment must undergo a separate disposal process. The aim of the directive is to prevent the negative environmental impact of electronic waste through its collection, reuse, recycling and recovery. The appliance is marked with the crossed-out wheelie bin symbol, which serves as a reminder of the obligation to collect end-of-life equipment separately. For further information on collection points and how to dispose of electronic waste, please contact your local council or a waste management company.

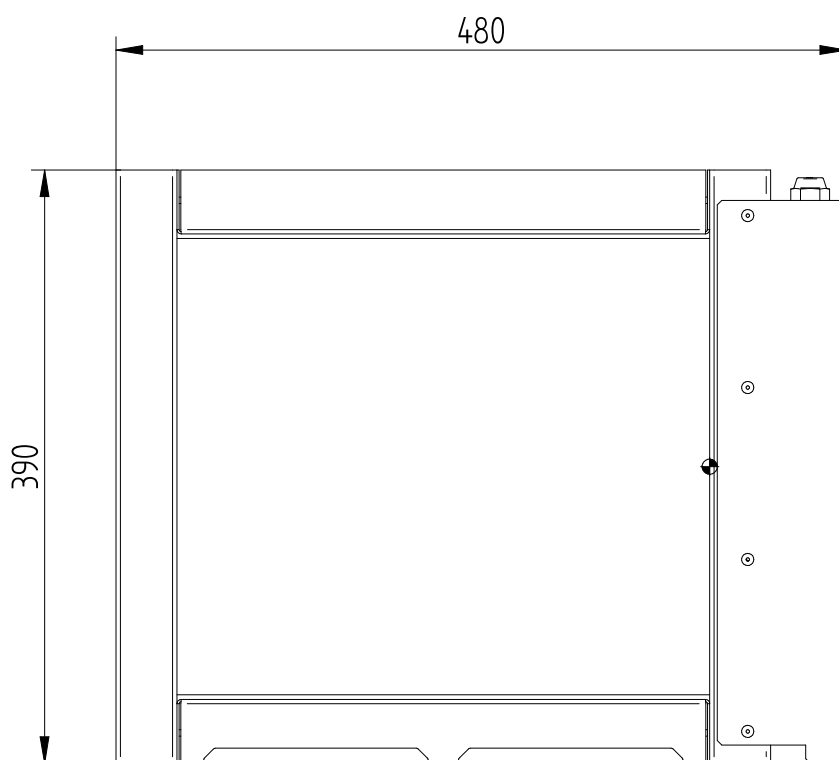
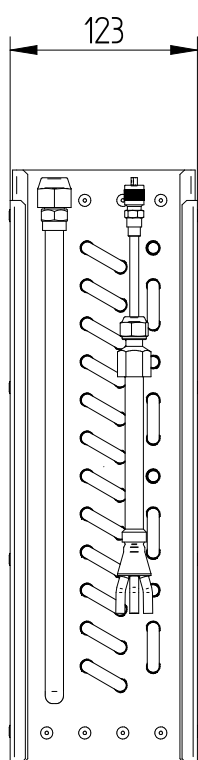
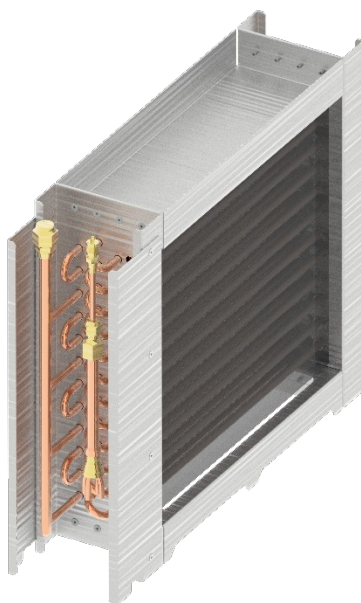


The manufacturer declares that the product complies with the 'Low Voltage Directive 2014/35/EU (LVD)', concerning the safety of electrical equipment operating within a specified voltage range. The product meets the essential requirements of the directive and has been marked with the 'CE' mark following a conformity assessment procedure.



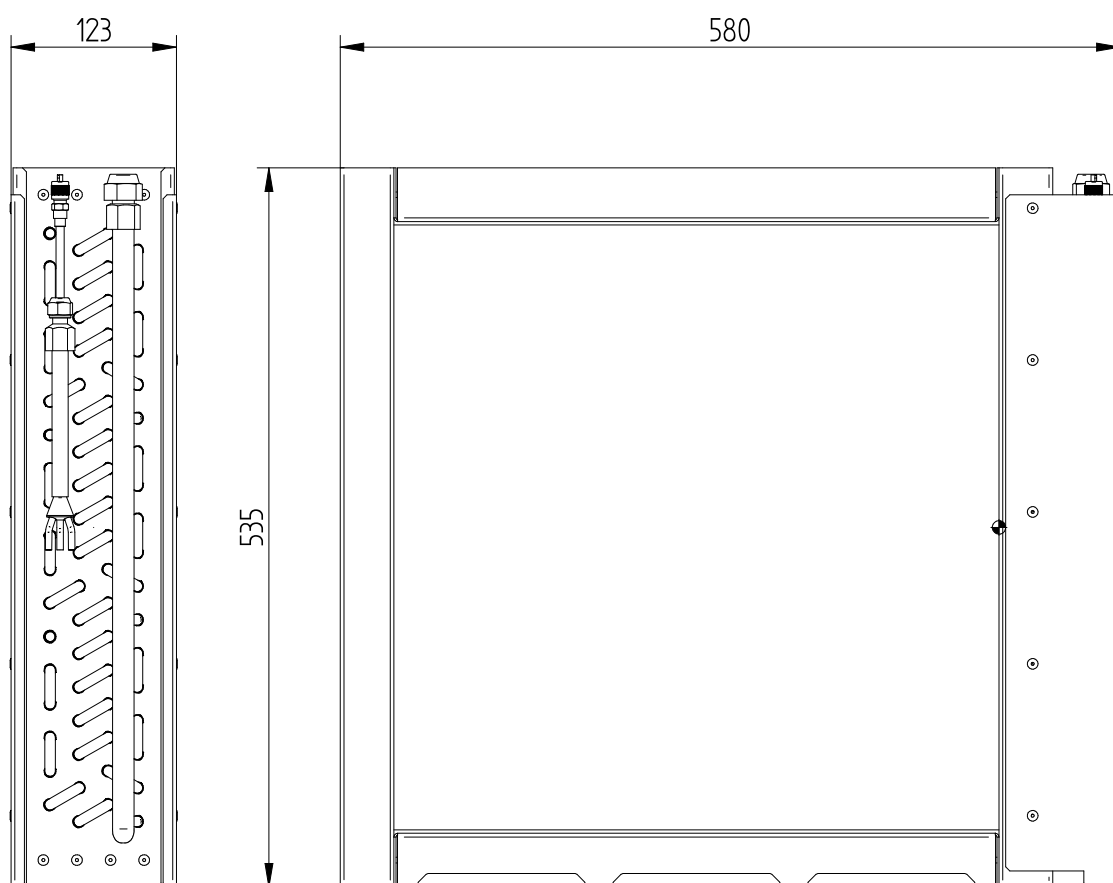
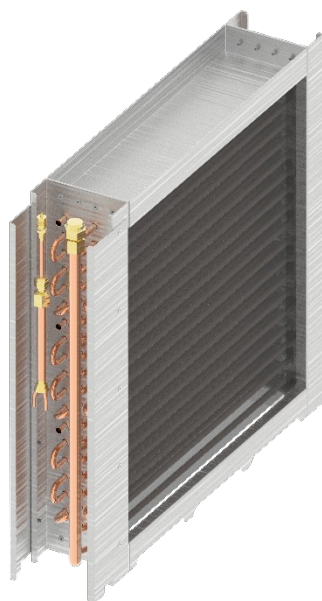
1. Device dimensions

R32 WANAS 334



NOTE: The actual appearance and colour of the device may differ from the illustration shown.

R32 WANAS 444



NOTE: The actual appearance and colour of the unit may differ from the illustration shown.

2. freon heat exchanger specifications

1.1. 334 refrigerant heat exchanger specifications

COOLING FUNCTION – R32

Air flow	Temperature before the heat exchanger	Humidity before the heat exchanger	Temperature after the heat exchanger	Humidity after the heat exchanger	Cooling capacity	Energy consumption
[m ³ /h]	°C	%	°C	%	[kW]	[W]
100	24.5	51.7	2.9	100	0.7	204
150	24.3	50.3	5.6	100	0.9	202
200	24	50.3	7.6	100	1.1	196
250	24.1	49.6	9.2	99.1	1.3	196
300	24.6	50.8	10	99.8	1.5	196
350	24.4	51.9	11.8	89.7	1.5	194
400	29.5	54.6	11	95.2	2.5	880
450	29.7	54	12.9	98.4	2.5	732
605	29.6	0	14.7	93.6	3.0	716

HEATING FUNCTION – R32

Air flow	Temperature before the heat exchanger	Humidity before the heat exchanger	Temperature after the heat exchanger	Humidity after the heat exchanger	Heating capacity	Energy consumption
[m ³ /h]	°C	%	°C	%	[kW]	[W]
100	24.5	51.7	2.9	100	0.7	204
150	24.3	50.3	5.6	100	0.9	202
200	24	50.3	7.6	100	1.1	196
250	24.1	49.6	9.2	99.1	1.3	196
300	24.6	50.8	10	99.8	1.5	196
350	24.4	51.9	11.8	89.7	1.5	194
400	29.5	54.6	11	95.2	2.5	880
450	29.7	54	12.9	98.4	2.5	732
605	29.6	0	14.7	93.6	3.0	716

Tests carried out on a test rig:

WANAS 555 H XF, WANAS MINII R32 heating and cooling unit with a freon heat exchanger, Midea X2-12N8D1-O outdoor unit and AHU Kit KA8140

1.2. GO 444 refrigerant heat exchanger specifications

COOLING FUNCTION – R32

Air flow	Temperature before the heat exchanger	Humidity before the heat exchanger	Temperature after the heat exchanger	Humidity after the heat exchanger	Cooling capacity	Energy consumption
[m ³ /h]	°C	%	°C	%	[kW]	[W]
450	25.7	25	11	45	2.2	426
630	26.8	28	10.7	47	3.4	655
710	27	28	9.7	47	4.1	710
880	26.3	28	11	44.2	4.5	708
980	26.3	28	11.9	42.4	4.7	715
1,140	26.3	28	12.7	40.8	5.2	720
1,240	26.3	28	13.3	39.6	5.4	732
1,360	26.3	28	14	38.3	5.6	735

HEATING FUNCTION – R32

Air flow	Temperature before the heat exchanger	Humidity before the heat exchanger	Temperature after the heat exchanger	Humidity after the heat exchanger	Heating capacity	Energy consumption
[m ³ /h]	°C	%	°C	%	[kW]	[W]
360	12.6	35.7	37.8	15.7	3.0	2,100
480	14.6	43	38	13.6	3.8	1,790
680	15	40	34	14	4.3	1,540
825	15	40	32.8	15	4.9	1,440
970	15.5	40	30.6	16	4.9	1,340
1190	15	40	28	17	5.2	1,230
1,350	15	40	26	19	5.0	1160

- Tests carried out on a model set-up:

Wanas 1300H, WANAS MAXI R32 heater-cooler with a freon heat exchanger, Midea X3BP-18N8D0-O outdoor unit and AHU Kit KA8142.

2. Warranty and Service

2.1. Service

All faults must be reported to WANAS with a detailed description of the problem using [the 'Service Request' form](#) available at www.wanas.pl under the 'Contact' tab. Claims made during the warranty period will be assessed within 14 days and resolved within 30 days of the date of submission.

2.2. Warranty

- The manufacturer provides a 24-month warranty covering the correct operation of the device.
- The warranty period is calculated from the date of purchase of the device by the user.
- The warranty is granted and valid upon presentation of the device's proof of purchase.
- The warranty does not cover faults arising from incorrect use, maintenance or installation of the device.
- The cost of an unjustified service call shall be borne by the customer making the claim.
- The company provides servicing throughout Poland.

Contact the service department	
Tel:	+48 535 958 222
Service request	Click here

