BRINK

Air for life

Technical Data Sheet

Flair 225 Enthalpy

English

Contents

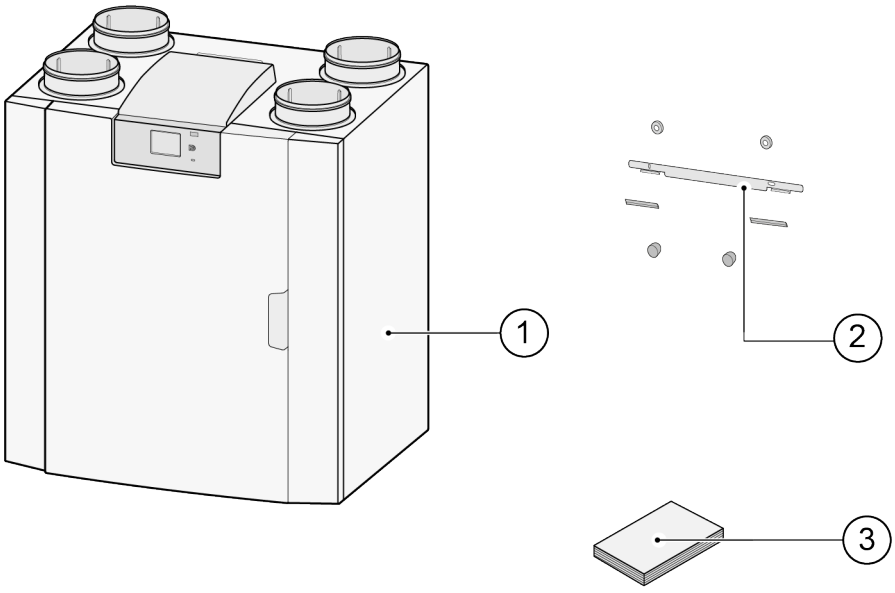
1 Scope of delivery

1.1 Delivery size

Before installation of the heat recovery appliance is started,check that it has been supplied in complete and undamaged condition.

The delivery size of the heat recovery appliance type Flair 225 Enthalpy consists of the following components:

1. Heat recovery appliance
2. Wall mounting bracket consisting of:
   - 1x mounting bracket
   - 2x protective caps
   - 2x rubber strip
   - 2x rubber rings
3. Documentation set consisting of:
   - 1x installation instructions
   - 1x occupant's instructions



2 Technical specifications

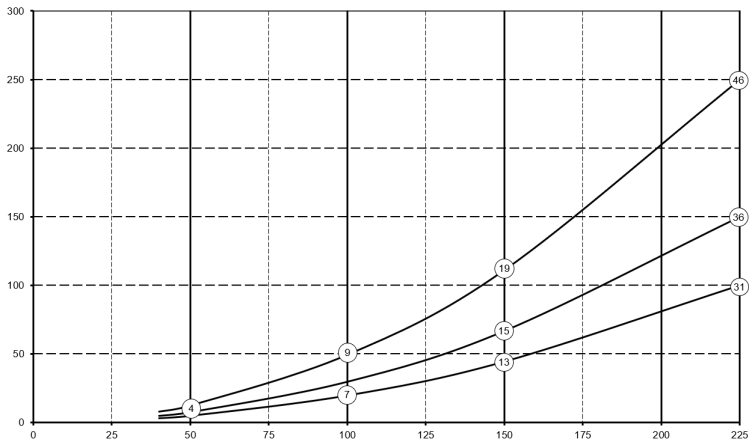
2.1 Technical information

Flair 225 Enthalpy										
Supply voltage [V/Hz]	230V/50Hz									
Dimensions (w x h x d) [mm]	600 x 650 x 455									
Duct diameter [mm]	ø125									
Weight [kg]	34									
Filter class	ISO Coarse 60% (ISO ePM1.0 50% for the air supply optional)									
Fan setting (factory setting)	0		1		2		3		max	
Factory setting [m³/h]	40		50		100		150		225	
Permissible resistance of duct system [Pa]	3	8	5	12	20	49	44	111	100	250
Rated power (excl. preheater) [W]	7.9	8.3	8	8.7	13.2	17.3	26.2	37.9	61.5	92.2
Rated current (excl. preheater) [A]	0.10	0.11	0.10	0.10	0.13	0.16	0.22	0.32	0.48	0.70
Max. rated current (incl. preheater on) [A]	3.8									
Rated power internal preheater [W]	750									
Cos φ	0.336	0.34	0.357	0.363	0.447	0.460	0.507	0.521	0.522	0.572
WiFi Frequency range (OFR)	2400 MHz - 2483,5 MHz									
WiFi Max. power (EIRP)	<20 dBm (100 mW)									
Permitted ambient conditions	Between +2°C and +40°C. RH <90% non condensing									
Storage and transport conditions	Between -20°C and +45°C. RH <90% non condensing									
Permitted air temperature through appliance	Between -20°C and +45°C with standard internal pre-heater * Add an external pre-heater when the outside temperature is below -20°C for longer periods of time.									

Sound power								
Ventilation capacity [m³/h]		50	100	100	150	150	225	225
Sound power level Lw(A)	Static pressure [Pa]	25	25	50	50	100	100	150
	Casing radiation [dB(A)]	28	31	33.5	38.5	40.5	45.5	47
	Duct “From dwelling’ [db(A)]	<30	<34.5	<36.5	44	43	47.5	48.5
	Duct ‘To dwelling’ [db(A)]	43.5	48.5	50.5	55	57.5	62.5	64.5

*) Duct noise including end correction
In practice the value may differ by 1dB(A) through measurement tolerances.

Resistance of duct system [Pa]



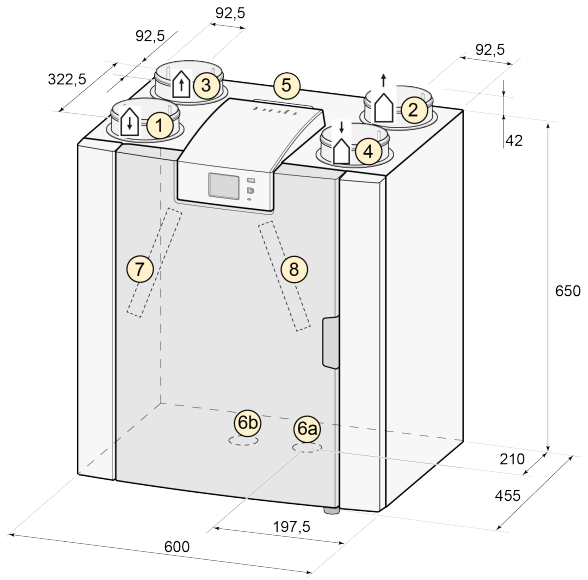
Flow rate [m³/h]

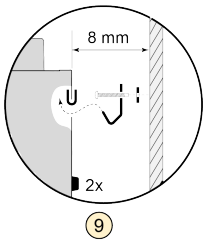
Note:
The stated value in the circle is the capacity (in Watt) per fan.

2.2 Connections and dimensions

The Flair appliance is available in a left-hand and right-hand version. With a left-hand version the "warm" connections (from dwelling 3 and to dwelling 1) are on the left-hand side of the appliance. With a right-hand version the "warm" connections (1 & 3) are on the right-hand side of the appliance.

Left-hand version

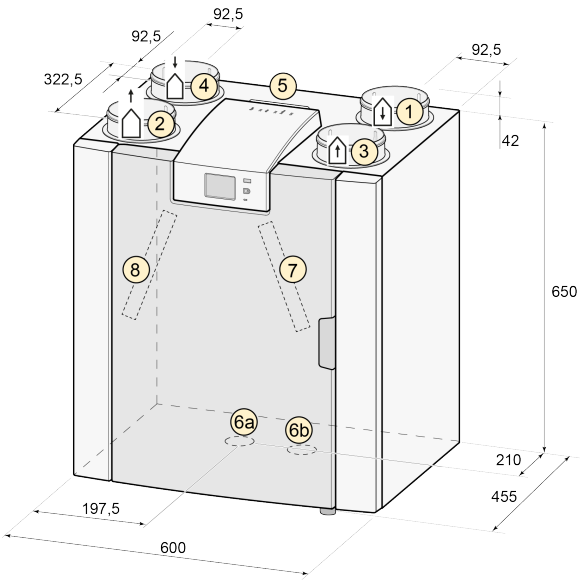


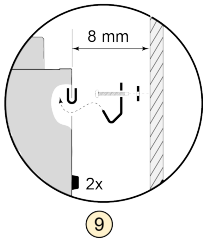


All dimensions in millimeters. Diameter of all collars is 125 mm

1	Supply air
2	Exhaust air
3	Extract air
4	Outdoor air
5	Electrical connections
6a	Sealing cap
6b	Sealing cap
7	Extract air filter
8	Supply air filter
9	Mounting bracket

Right-hand version





All dimensions in millimeters. Diameter of all collars is 125 mm

1	Supply air	
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3	Extract	
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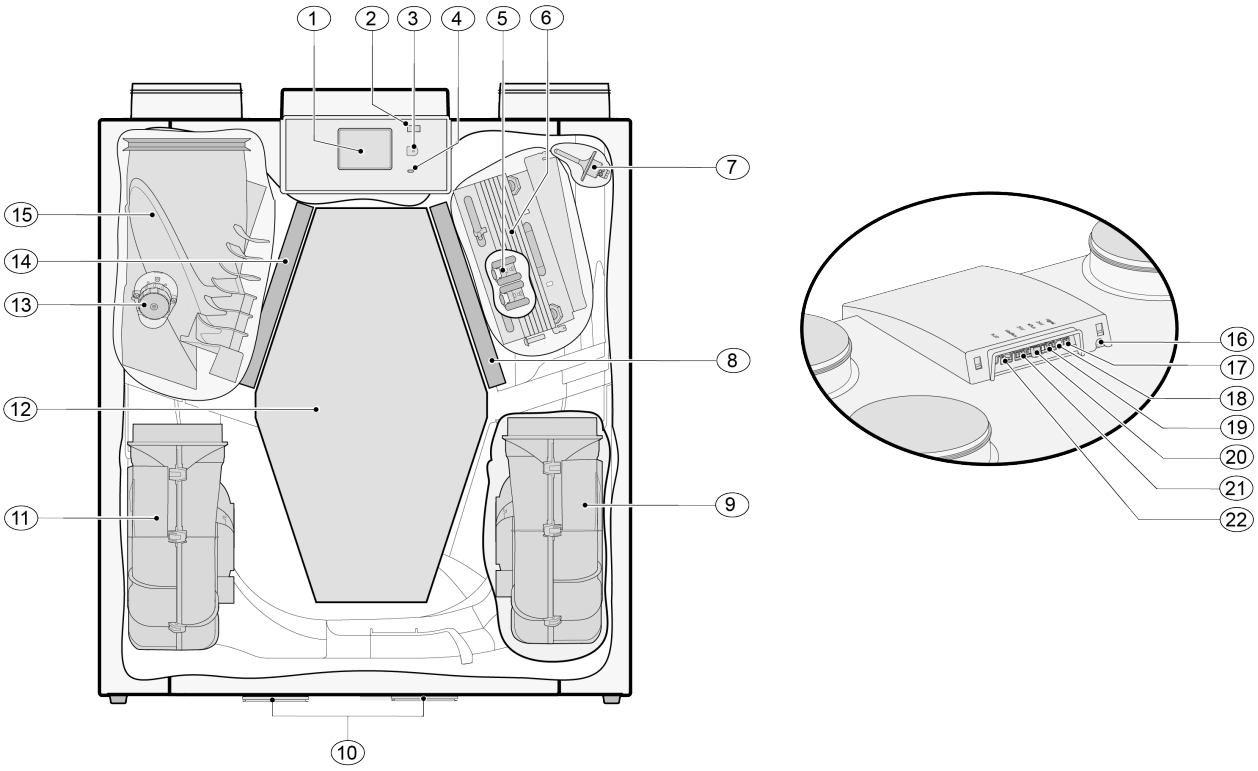
5	Electrical connections	
6a	Sealing cap	
6b	Sealing cap	
7	Extract air filter	
8	Supply air filter	
9	Mounting bracket	

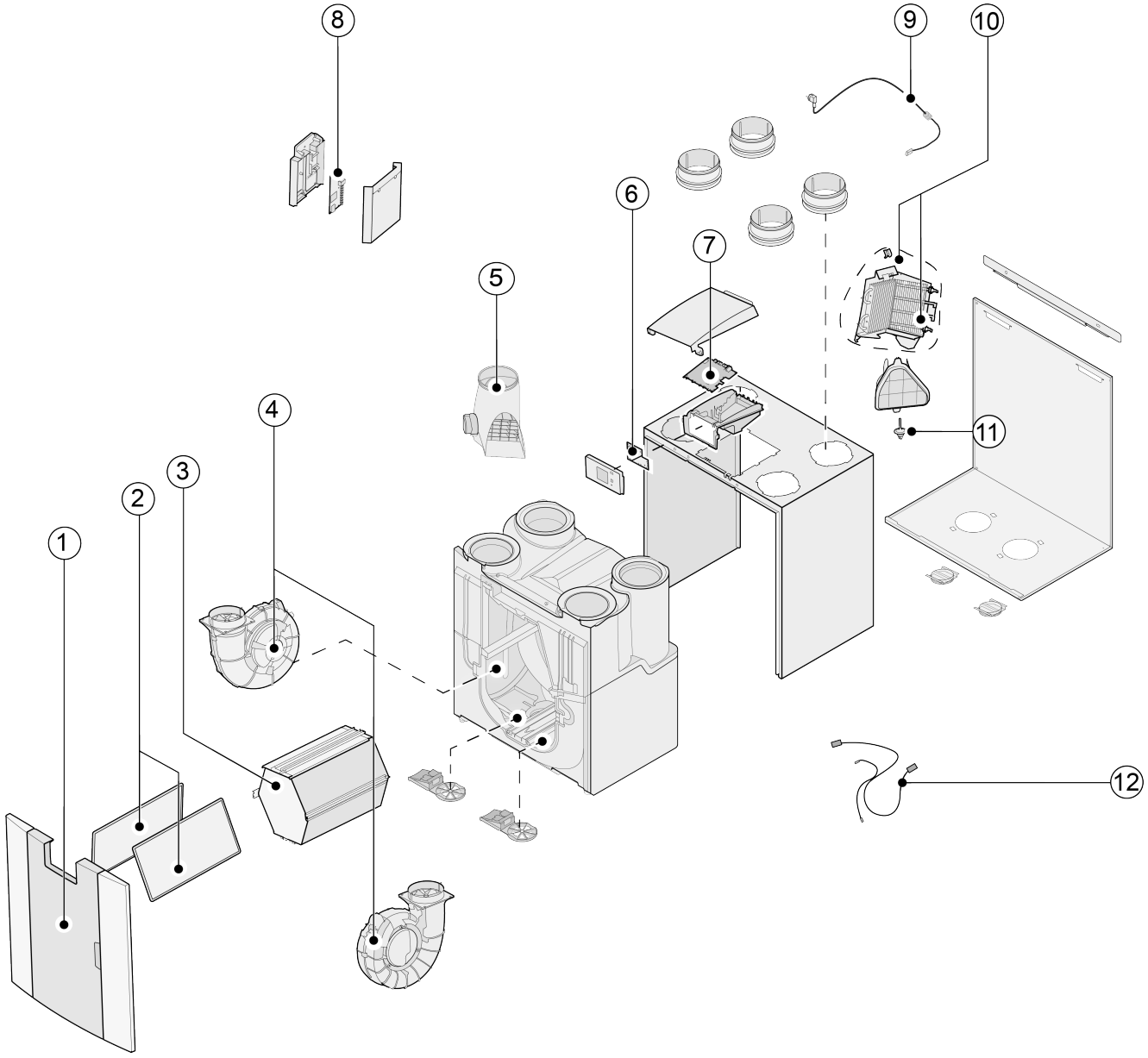
2.3 Appliance parts



The appliance shown above is a left-hand version: in the case of a right-hand version, the connector of the preheater and the bypass valve are installed in mirror image!				
1	Touchscreen		12	Enthalpy heat exchanger
2	USB connector (X13)		13	Motor bypass valve
3	Service connector		14	Exhaust air filter
4	LED indicator		15	Bypass valve
5	Maximum protection preheater		16	Power cable 230 volt
6	Preheater		17	Relay output (X19))
7	Temperature sensor		18	24 volt connector (X18)
8	Supply filter		19	eBus connector (X17)
9	Exhaust fan		20	24 volt connector (X16)
10	Sealing cap		21	Modbus/ Internalbus connector (X15)
11	Supply ventilator		22	Multiple position switch connector (X14)

3 Service parts

3.1 Exploded view



Danger

The power cable is fitted with a circuit board connector. When replacing it, always order a replacement mains cable from Brink.

To prevent dangerous situations, a damaged mains connection can only be replaced by a qualified expert.

3.2 Service articles

No.	Article description	Article code
1	Front panel complete	532799
2	Filters (2 items) ISO Coarse 60%	532811
3	Heat exchanger Enthalpy	532748
4	Fan (1 item)	532803
5	Bypass valve with motor complete	532797
6	Display pcb UBP-2	532752
7	Appliances manufactured **before 01-01-2023** : Basic pcb UWA2-B + display	532750
	Appliances manufactured **after 01-01-2023** : Basic pcb UWA2-B	532966
8	Plus pcb UWA2-E (only applicable with Plus version)	532751
9	Mains plug and cable 230 V	532756
10	Internal preheater incl. maximum security	532798
11	Temperature sensor NTC 10K	531775
12	Cable set	532767

3.3 Ordering service parts

When ordering parts, in addition to the article code number (see exploded view), please state the heat recovery appliance type, the serial number, the year of production and the name of the part:

Note

Appliance type, serial number and year of production are stated on the identification plate behind the plastic front panel on the appliance.

Example	
Appliance type	Flair 225 Enthalpy (Plus)
Serial number	428000241101
Year of production	2024
Part	Fan
Article code	532803
Quantity	1

4 Conformity declaration

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Manufacturer:	**Brink Climate Systems B.V.**
Address:	**P.O. box 11** **NL-7950 AA, Staphorst, The Netherlands**
Product:	**Flair 225 Enthalpy** **Flair 225 Enthalpy Plus**

The product described above complies with the following directives:

- 2014/35/EU (OJEU L 96/357; 29-03-2014)
- 2014/30/EU (OJEU L 96/79; 29-03-2014)
- 2009/125/EU (OJEU L 285/10; 31-10-2009)
- 2017/1369/EU (OJEU L 198/1; 28-07-2017)
- RoHS 2011/65/EU (OJEU L 174/88; 01-07-2011)

The product described above has been tested according to the following standards:

- EN IEC 55014-1: 2021
- EN IEC 55014-2: 2021
- EN IEC 61000-3-2: 2019 + A1:2021
- EN 61000-3-3: 2013 + A1:2019 + A2:2021
- EN 60335-1: 2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019 + A15:2021
- EN 60335-2-40: 2003 + A11:2004 + A12:2005 +AC:2006 + A1:2006 + A2:2009 + AC:2010 + A13:2012
- EN 62233: 2008 + AC:2008

Staphorst, 24-01-2024

A. Hans
Director

5 ERP values

Technical information sheet Flair 225 Enthalpy in accordance with Ecodesign (ErP), no. 1254/2014 (Annex IV)					
Manufacturer:		**Brink Climate Systems B.V.**			
Model:		**Flair 225 Enthalpy**			
Climate zone	**Type of control**	**SEC Value in kWh/m²/a**	**SEC Class**	**Annual electricity consumption (AEC) in kWh**	**Annual heating saved (AHS) in kWh**
Average	manual	-35,77	A	321	4311
	clock control	-36,74	A	294	4341
	1x sensor (RV/CO_2/VOC)	-38,57	A	244	4400
	2 or more sensors (RV/CO_2/VOC)	-41,81	A	161	4517
Cold	manual	-71,63	A+	858	8434
	clock control	-72,88	A+	831	8491
	1x sensor (RV/CO_2/VOC)	-75,27	A+	781	8607
	2 or more sensors (RV/CO_2/VOC)	-79,64	A+	698	8837
Hot	manual	-12,60	E	276	1949
	clock control	-13,41	E	249	1963
	1x sensor (RV/CO_2/VOC)	-14,92	E	199	1989
	2 or more sensors (RV/CO_2/VOC)	-17,52	E	116	2043
Type of ventilation unit:		Balanced residential ventilation appliance with heat recovery			
Fan:		EC - fan with infinitely variable control			
Type of heat exchanger:		Recuperative plastic cross-counterflow heat exchanger			
Thermal efficiency		82 %			
Maximum flow rate:		225 m³/h			
Maximum rated power:		118 W			
Sound power level Lwa:		39 dB(A)			
Reference flow rate:		158 m³/h			
Reference pressure:		50 Pa			
Specific Power Input (SEL):		0.22 Wh/m³			
Control factor:		1.0 in combination with multiple position switch			
		0.95 in combination with clock control			
		0.85 in combination with 1 sensor			
		0.65 in combination with 2 or more sensors			
Leakage*	Internal	2,00 %			
	External	3,00 %			
Position dirty filter indication:		On the display of the appliance / on the multiple position switch (LED) / on the Brink Air Control. **Attention!** For optimal energy efficiency and a proper operation, a regular filter inspection, cleaning or replacement is necessary.			
Internet address for Assembly instructions:		https://www.brinkclimatesystems.nl/support/downloads			
Bypass:		Yes, 100% Bypass			

* Measurements executed by Brink Climate Systems B.V. according to the standard EN 13141-7

Classification from 1 January 2016	
SEC class ("Average climate zone")	SEC in kWh/m²/a
A+ (Most efficient)	SEC < -42
A	-42 ≤ SEC < -34
B	-34 ≤ SEC < -26
C	-26 ≤ SEC < -23
D	-23 ≤ SEC < -20
G (Least efficient)	-20 ≤ SEC < -10

6 Recycling and disposal

Do not dispose of as household waste!

In accordance with the Waste Disposal Act, the following components must be disposed of or recycled in an environmentally compatible manner by means of appropriate collection points:

- Old appliance
- Wearing parts
- Defective components
- Electrical or electronic waste
- Environmentally hazardous liquids and oils

Environmentally compatible means separated by material groups to ensure the greatest possible recyclability of the basic materials with the minimum environmental impact.

1. Dispose of packaging made of cardboard, recyclable plastics and synthetic filler materials in an environmentally compatible manner through appropriate recycling systems or a recycling center.
2. Please observe the applicable national and local regulations.

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