



Air for life

Installation regulations

Flair 400 Enthalpy

English



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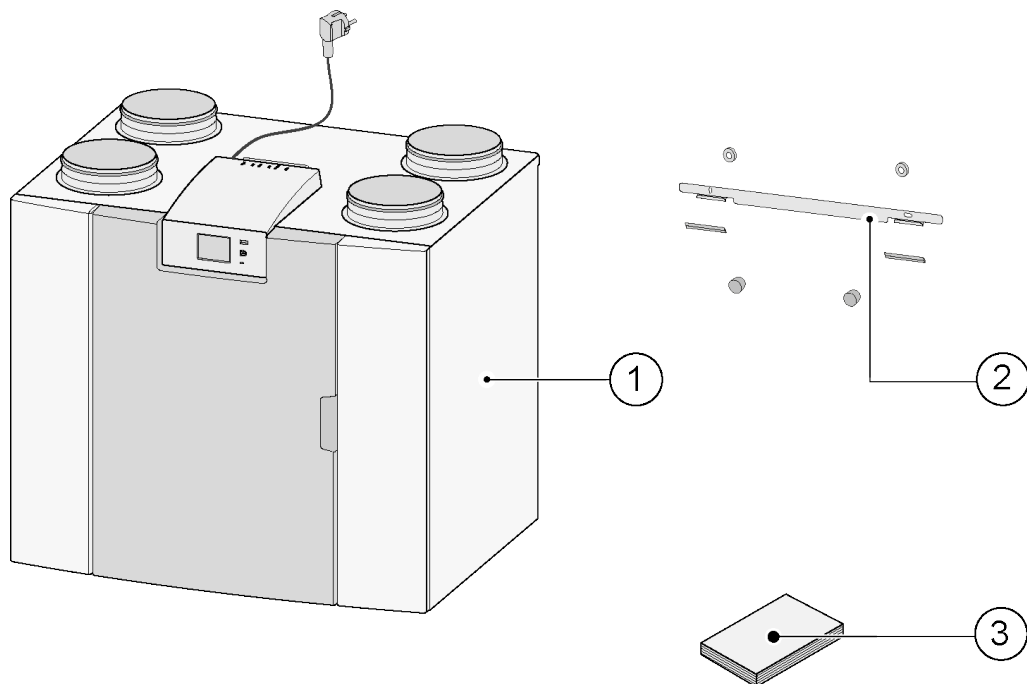
1 Delivery

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 400 Enthalpy consists of the following components:

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



2 Version

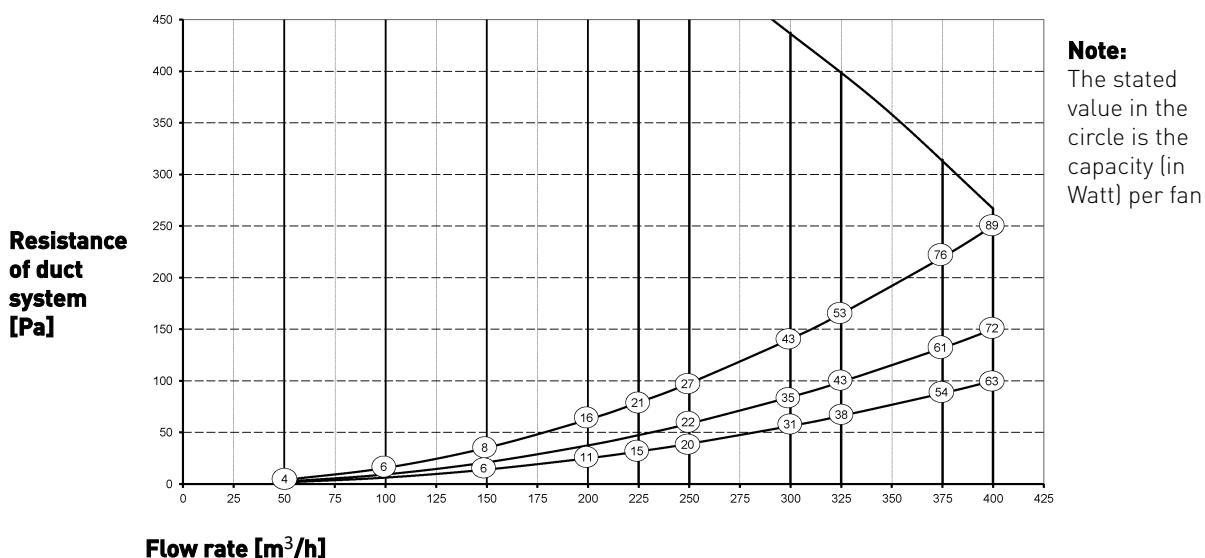
2.1 Technical information Flair 400 Enthalpy Plus

Flair 400 Enthalpy (Plus)										
Supply voltage [V/Hz]	230V/50Hz									
Dimensions (w x h x d) [mm]	750 x 650 x 560									
Duct diameter [mm]ø	ø180									
Weight [kg]	38.5									
Filter class	ISO Coarse 60% (ISO ePM1.0 for the air supply optional)									
Fan setting (factory setting)	0	1		2		3		max		
Factory setting [m³/h]	50	100		200		300		400		
Permissible resistance of duct system [Pa]	2	4	6	16	25	63	56	141	100	250
Rated power (excl. preheater) [W]	7.6	7.8	10.3	11.5	23.0	31.4	62.5	87.0	126.6	177.9
Rated current (excl. preheater) [A]	0.12	0.12	0.15	0.16	0.25	0.33	0.58	0.77	1.01	1.38
Max. rated current (incl. preheater switched on) [A]	6									
Rated power preheater [W]	1000									
Cos φ	0.270	0.272	0.300	0.310	0.369	0.410	0.470	0.493	0.545	0.560
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									

Sound power					
Ventilation capacity [m³/h]		150	250	350	400
Sound power level Lw(A)	Static pressure [Pa]	25	50	100	100
	Casing radiation [dB(A)]	37	43,5	52	55
	Duct “From dwelling” [db(A)]	43,5	46,5	51	61
	Duct ‘To dwelling’ [db(A)]	50	58	69,5	71

*) Duct noise including end correction

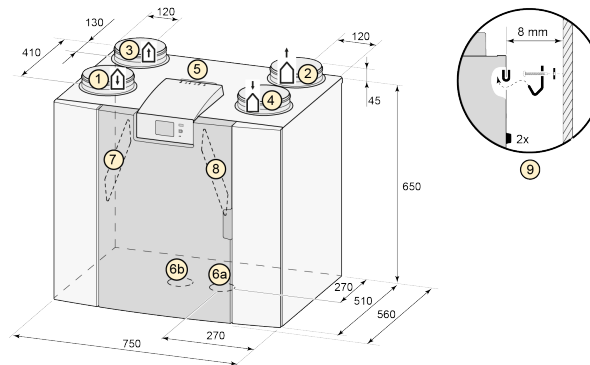
In practice the value may differ by 1dB(A) through measurement tolerances.



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; the sealing cap is then fitted in the right-hand opening at the bottom of the appliance. With a right-hand version the “warm” connections (1 & 3) are on the right-hand side of the appliance.

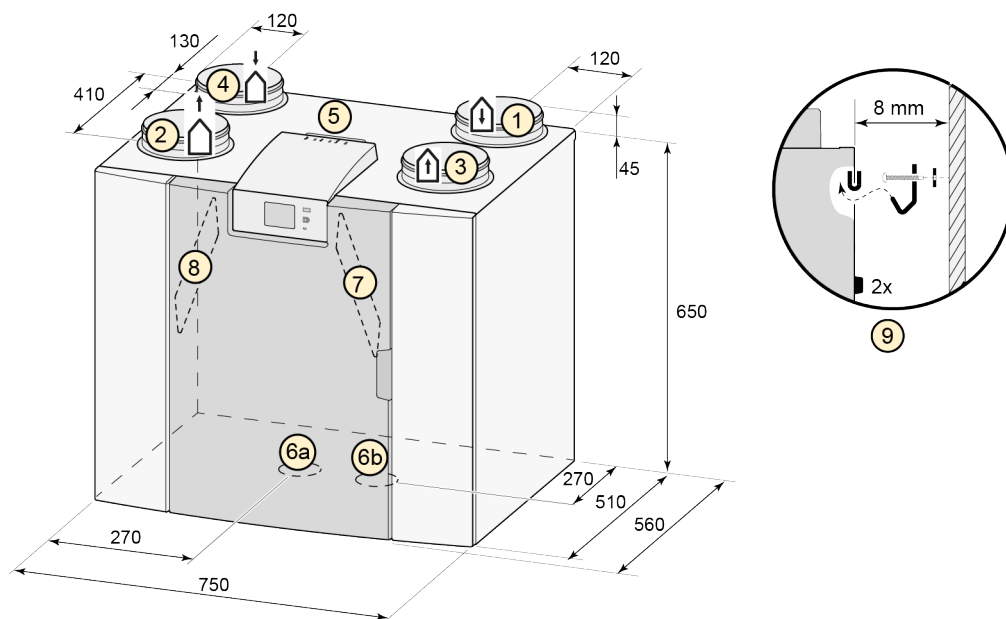
Left-hand version



All dimensions in millimeters. Diameter of all collars is 180 mm

1	Supply air	
2	Exhaust air	
3	Extract	
4	Outdoor air	
5	Electrical connections	
6a	Cap	
6b	Sealing cap unused condensate discharge connection; do not remove!	
7	Extract air filter	
8	Supply air filter	
9	Mounting bracket	

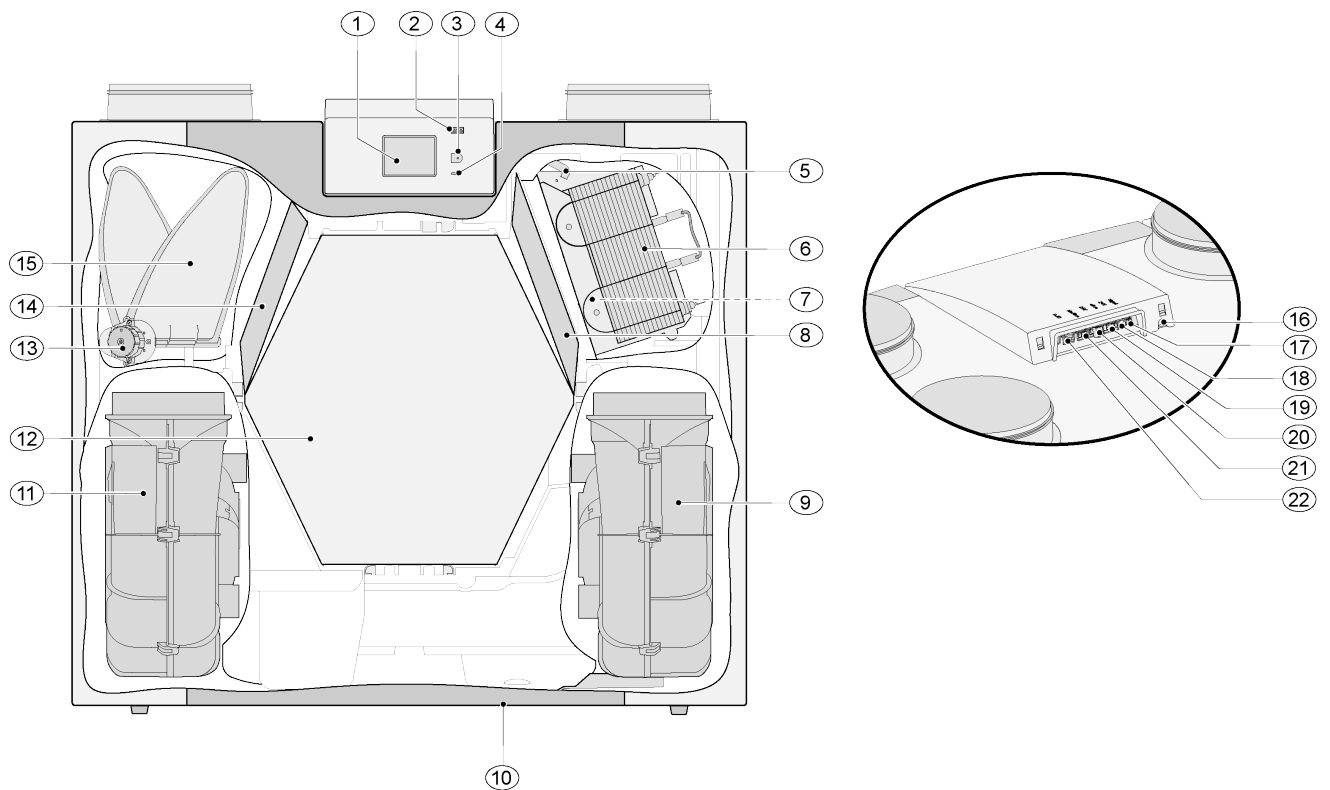
Right-hand version



All dimensions in millimeters. Diameter of all collars is 180 mm

1	Supply air	
2	Exhaust air	
3	Extract	
4	Outdoor air	
5	Electrical connections	
6a	Cap	
6b	Sealing cap unused condensate discharge connection; do not remove!	
7	Extract air filter	
8	Supply air filter	
9	Mounting bracket	

2.3 Exploded view of appliance



The appliance shown above is a left-hand version: in the case of a right-hand version, the connector of the preheater and 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	Discharge 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	Cap	21	Modbus/ internal bus connector (X15)
11	Supply fan	22	Multiple position switch connector (X14)

3 Service parts

3.1 Exploded view

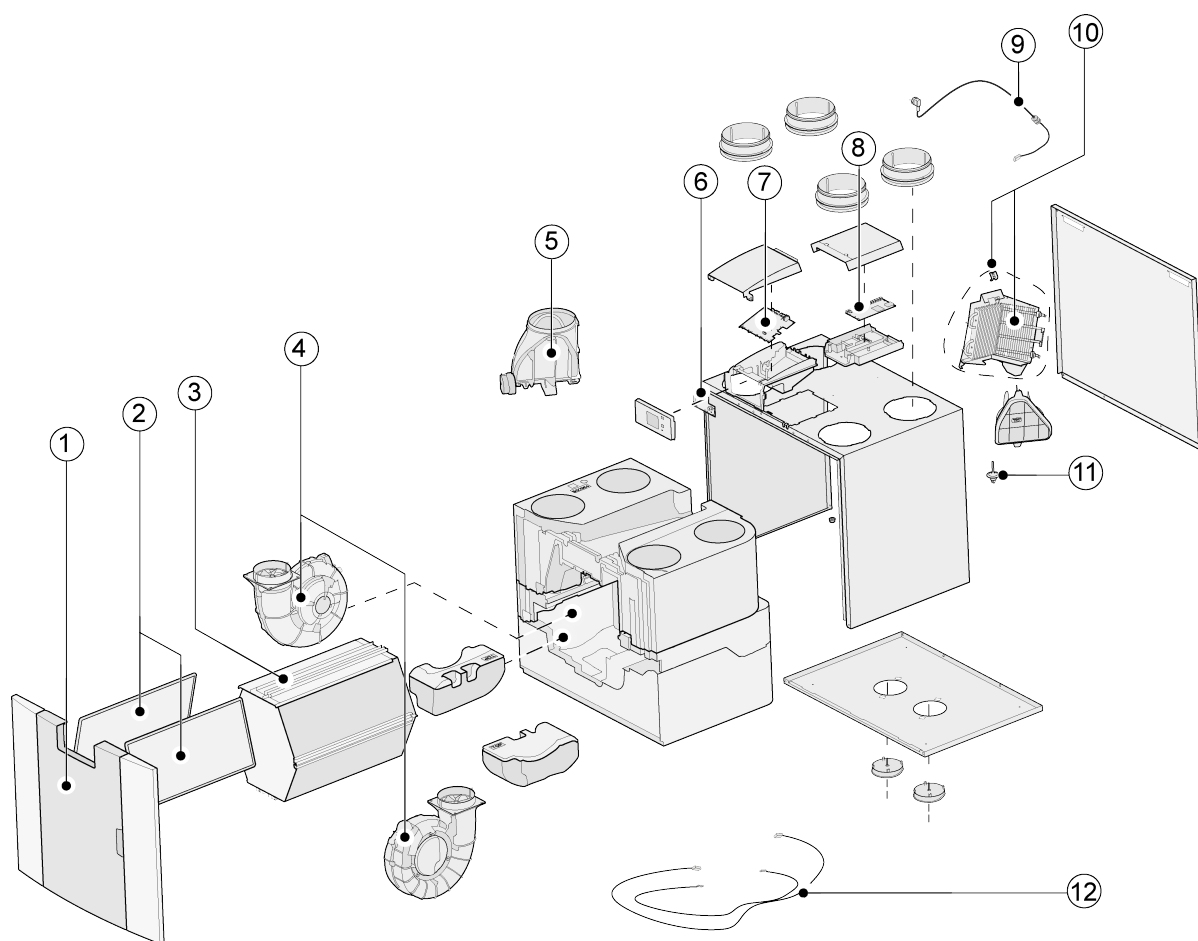
When ordering parts, in addition to the article code number (see exploded view), please state the heat recovery appliance type, the serial number, the year of production and the name of the part:



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 400 Enthalpy Plus
Serial number	430032220201
Year of production	2024
Part	Fan
Article code	532770
Quantity	1

3.2 Service articles



No.	Article description	Article code
1	Front panel complete	532804
2	Filters (2 items) ISO Coarse 60%	532716
3	Enthalpy heat exchanger	532710
4	Fan (1 item)	532770
5	Bypass valve with motor complete	532760
6	Display pcb	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 U(only applicable with Plus version)	532751
9	Mains plug and cable 230 V **	532756
10	Internal preheater incl. maximum security	532761
11	Temperature sensor NTC 10K	531775
12	Cable set	532767

* 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.

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 400 Enthalpy**

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, 07-06-2023



A. Hans
Director

5 ERP values

Technical information sheet Flair 400 Enthalpie in accordance with Ecodesign (ErP), no. 1254/2014 (Annex IV)					
Manufacturer:		Brink Climate Systems B.V.			
Model:		Flair 400 Enthalpie			
Climate zone	Type of control	SEC Value in kWh/m ² /a	SEC Class	Annual electricity consumption (AEC) in kWh	Annual heating saved (AHS) in kWh
Average	Manual	-37,18	A	258	4295
	clock control	-38,00	A	237	4325
	1x sensor (RV/CO ₂ /VOC)	-39,56	A	199	4386
	2 or more sensors (RV/CO ₂ /VOC)	-42,37	A+	135	4507
Cold	manual	-72,88	A+	795	8403
	clock control	-73,99	A+	774	8462
	1x sensor (RV/CO ₂ /VOC)	-76,14	A+	736	8580
	2 or more sensors (RV/CO ₂ /VOC)	-80,10	A+	672	8817
Hot	manual	-14,10	E	213	1942
	clock control	-14,75	E	192	1956
	1x sensor (RV/CO ₂ /VOC)	-15,99	E	154	1983
	2 or more sensors (RV/CO ₂ /VOC)	-18,13	E	90	2038
Type of ventilation unit:		Balanced residential ventilation appliance with heat recovery			
Fan:		EC - fan with infinitely variable control			
Type of heat exchanger:		Recuperative plastic counterflow heat exchanger			
Thermal efficiency		81 %			
Maximum flow rate:		400 m ³ /h			
Maximum rated power:		178 W			
Sound power level Lwa:		50 dB(A)			
Reference flow rate:		280 m ³ /h			
Reference pressure:		50 Pa			
Specific Power Input (SEL):		0,17 Wh/m ³			
Control factor:		1.0 in combination with multiple 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	0,8 %			
	External	1,3 %			
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 TZWL according to the EN 13141-7 standard

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

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.



Brink Climate Systems B.V.

Wethouder Wassebaliestraat 8, NL-7951SN Staphorst

T: +31 (0) 522 46 99 44

E. info@brinkclimatesystems.nl

www.brinkclimatesystems.nl