

Air for life

Technical Sheet

Flair 325 Enthalpy Heat recovery appliance



General information

The Flair 325 Enthalpy and the Flair 325 Enthalpy Plus is a ventilation unit for the balanced ventilation of dwellings with heat recovery.

Features:

- Maximum capacity 325 m³/h
- High return plastic heat exchanger
- Filters ISO Coarse 60%
- Modular electric preheater
- Automatic bypass valve
- Touchscreen
- Adjustable air quantity
- Filter indication on the appliance and the possibility of a filter indication on the multiple switch
- An intelligent frost protection including modular preheater
- Low sound level
- Constant flow control

The Flair 325 Enthalpy is available in two types:

- the "Flair 325 Enthalpy"

- The "Flair 325 Enthalpy Plus"

The Flair 325 Enthalpy Plus has, compared with standard Flair 325 Enthalpy, an extra pcb giving this more functions/ connection possibilities (\rightarrow).

These installation instructions describe both the standard Flair 325 Enthalpy and the Flair 325 Enthalpy Plus.

The Flair 325 Enthalpy and the Flair 325 Enthalpy Plus are available in **Left-hand** and **Right-hand** versions; it is not possible to convert the left and right-hand models into one another. For the correct connection ducts and dimensions (\rightarrow) .

It is possible, however, to later equip the appliance with a Plus pcb.

The appliance comes ready to plug in with a 230 V mains plug.

Technical info

Technical information

Flair 325 Enthalpy (Plus)												
Supply voltage [V/Hz]			230V/50Hz									
Dimensions (w x h x d) [mm]		750 x 650 x 560										
Duct diameter [mm]ø		ø 160	ø 160									
Weight [kg]		37										
Filter class		ISO Co	arse 60%	۶ (ISO eP	M1.0 fo	r the air	supply	optiona	ıl)			
Fan setting (factory setting)		0		1		2		3		max	max	
Factory setting [m ³ /h]		50		100		150		250		325	325	
Permissible resistance of duct system [Pa]		2	6	9	24	21	53	59	148	100	250	
Rated power (excl. preheater) [W]		6.1	6.6	7.9	10.3	15.1	21.0	46.6	69.3	1 87.5	5 144.5	
Rated current (excl. preheater) [A]		0.08	0.08	0.09	0.11	0.15	0.21	0.41	0.59	9 0.73	1.07	
Max. rated current (incl. preheater	switched on) [A]	6			1				1			
Cos φ		0.341	0.343	0.389	0.394	0.430	0.439	0.492	0.50	0.52	1 0.542	
Sound power												
Ventilation capacity [m ³ /h]				100	150	150	200) 20	0	250	325	
Sound power level Lw(A)	Static press	sure [Pa]		25	25	50	50	10	0	150	150	
	Casing radi	Casing radiation [dB(A)]		27	34	35	40	41		46	51	
	Duct "From [db(A)]	n dwelling	gʻ	32	40	38	46	44		49	55	
	Duct 'To dv	velling' [db(A)]	44	49	51	55	57		62	69	

*) Duct noise including end correction

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





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 condensate discharge is then mounted at the right-hand opening below 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 160 mm

1	To dwelling	
2	To outside	
3	From dwelling	
4	From outside	
5	Electrical connections	
6	Siphon connection	
7	Exhaust air filter	
8	Supply air filter	
9	Mounting	

Right-hand version



All dimensions in millimeters. Diameter of all collars is 160 mm

1	To dwelling	()
2	To outside	
3	From dwelling	(†
4	From outside	$\overset{\downarrow}{\bigcirc}$
5	Electrical connections	
6	Siphon connection	
7	Exhaust air filter	
8	Supply air filter	
9	Mounting	

Service parts

Service articles



No.	Article description	Article code
1	Front panel complete	532763
2	Filters (2 items) ISO Coarse 60%	532716
3	Enthalpy heat exchanger	532710
4	Fan (1 item)	532759
5	Bypass valve with motor complete	532760
6	Display pcb	532752
7	Basic pcb	532750
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.

Certificates

Conformity declaration

Conformity declaration

Manufacturer:	Brink Climate Systems B.V.
Address:	Postbus 11 NL-7950 AA, Staphorst, The Netherlands
Product:	Heat recovery appliance type: Flair 325 Enthalpy Flair 325 Enthalpy Plus

The product described above complies with the following directives:

- ◆ 2014/35/EU (low voltage directive)
- ◆ 2014/30/EU (EMC directive)
- ◆ RoHS 2011/65/EU (substances directive)
- ◆ 2009/125/EG (1253/1254 EU (EU ErP directive))

The product bears the CE label:



Staphorst, 24-11-2017

M. Schouten Technical Director

1 ERP values

Manufacturer:		Brink Climate Systems B.V.					
Model:		Flair 325 En	thalpy (Plus)			
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	-38.75	A	220	4359		
	clock control	-39.45	A	203	4386		
	1x sensor (RV/CO ₂ /VOC)	-40.78	A	172	4440		
	2 or more sensors (RV/CO ₂ /VOC)	-43.18	A+	119	4548		
Cold	manual	-75.07	A+	757	8527		
	clock control	-76.02	A+	740	8580		
	1x sensor (RV/CO ₂ /VOC)	-77.87	A+	709	8686		
	2 or more sensors (RV/CO ₂ /VOC)	-81.31	A+	656	8898		
Hot	manual	-15.33	E	175	1971		
	clock control	-15.88	E	158	1983		
	1x sensor (RV/CO ₂ /VOC)	-16.91	E	127	2008		
	2 or more sensors (RV/CO ₂ /VOC)	-18.72	E	74	2057		
Type of vent	ilation unit:	Balanced resi recovery	dential v	entilation appliand	ce with heat		
Fan:		EC - fan with infinitely variable control					
Type of heat exchanger:		Recuperative	plastic c	ross-counterflow h	neat exchanger		
Thermal effi	ciency	83%					
Maximum fl	ow rate:	325 m³/h					
Maximum ra	ated power:	144.5 W					
Sound powe	er level Lwa:	41 dB(A)					
Reference fl	ow rate:	228m³/h					
Reference p		50Pa					
	ver Input (SEL):	0.14 Wh/m ³					
Control facto	or:	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	2.85%					
	External	2.85%					
Position dirt	y filter indication:	On the display of the appliance / on the multiple 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 add	lress for Assembly instructions:	https://www.brinkclimatesystems.nl/international/home/ docsearch					
Bypass:		Yes, 100% By	pass				

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

EN 13141-7:2010 Certificate

KF.82.01.257.BD.02 29.11.18



Declaration of confirmity regarding the determination of energetic efficiency according to EN 13141-7:2010

On behalf of Brink Climate Systems B.V. the determination of energetic efficiency was conducted by Europäisches Testzentrum für Wohnungslüftungsgeräte (TZWL) e. V. in Dortmund, Germany.

Tests were carried out according to:

 EN 13141-7:2010; Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 7: Performance testing of a mechanical supply and exhaust ventilation units (including heat recovery) for mechanical ventilation systems intended for single family dwellings

Technical data of the tested unit:

Manufacturer:	Brink Climate Systems B.V.		
Туре:	Flair 325 4/0 R EU ENTHALPIE		
Serial Number:	430013181502		
Year of construction:	2018		
Power supply:	230 V ~ 50 Hz		
CE-Label:	Yes		
Maximum volume flow:	325 m³/h		

Results, energetic efficiency 7°C:

Air flow [m³/h]	Temperature ratio, supply air η _{θ,su} [%]	Humidity ratio supply air η _{X,su} [%]	Total electric power consumption P _E [W]	Specific electric power consumption [W/m ^s /h]
51	96,0	79,1	11,6	0,23
226	83,2	57,1	32,2	0,14
328	76,3	38,2	79,3	0,24

Results, energetic efficiency 2°C:

Air flow [m³/h]	Temperature ratio, supply air η _{θ,su} [%]	Humidity ratio supply air ηχ [%]	Total electric power consumption P _E [W]	Specific electric power consumption [W/m³/h]
50	93,2	80,3	11,7	0,23
225	80,4	62,3	35,0	0,15
326	76,8	57,5	79,9	0,24

Results of performance tests of aerodynamic characteristics, of heat recovery characteristics and of the effective power consumption are taken from tests with number M.82.01.257.BD.rev01

Passive House Certificate



See also: Complete Passive House Certificate

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Brink Flair 325 Enthalple

Brink Flair 325 Enthalpie

Humidity recovery $\eta_x = 77\%$