

**Low energy consumption  
and high comfort with Elan**



**BRINK**

**Climate Systems**

# Heating and ventilation integrated

*Brink brings you a healthy and comfortable indoor climate throughout the year. Brink has integrated*

*heating and ventilation in its compact unit 'Elan'. Brink's heat recovery ventilation unit 'Renovent HR'*

*extracts stale, damp indoor air from the wet rooms and supplies fresh outdoor air to the rooms.*

*Heat from the extracted air is transferred to the fresh, outside air. This means draught-free ventilation at*

*less than 10% of traditional ventilation costs.*

## **ELAN-SERIES**

Elan heating and cooling appliances have been developed to operate in combination with a heat pump.

Elan Duo 2-zone appliances have two heat exchangers and two fans and allows independent temperature control in two zones, whether that be heating or cooling.

Slowly circulating air quickly brings the dwelling to the desired temperature.

Continuous ventilation with heat recovery guarantees a healthy and comfortable indoor climate. The heat exchanger is made of copper tubes with specially designed aluminium baffles. This results in optimum

heat transfer, while the airside and water-side resistances are minimal.

## **VERSIONS**

All Elan appliances are available as a Downflow version and they come as right-handed or left-handed appliances.

Elan 10 and 25 are also available as an Upflow appliance.

## **ENERGY SAVING WITH HEAT RECOVERY**

The Elan Downflow can easily be combined with a heat recovery ventilation unit, Renovent HR, with three connections at the top and one at the bottom. The Renovent HR unit is placed on top of the Elan forming a compact unit. The Renovent HR SWB is available for the Elan SWB.

## **LOW ENERGY CONSUMPTION**

Application of DC fans results in low power consumption. These fans are very energy-efficient under all operational conditions. The Renovent HR's synthetic heat exchanger transfers 95% of the heat, which avoids wasting energy heating colder outdoor air. The EPS contribution is approximately 0.25.

## **DEMAND-CONTROLLED VENTILATION**

If Elan is combined with a Renovent HR ventilation unit, a CO<sub>2</sub> sensor can be placed in the return air flow to ventilate the different zones on demand and save even more energy

than traditional ventilation systems with heat recovery. To do this, Renovent HR must be equipped with an option pcb.

## **CONTROL**

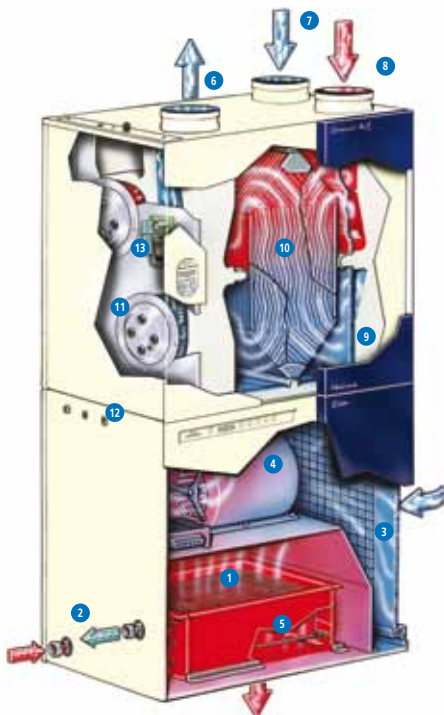
The Elan comes as standard with a modulating control unit for the system fan. This way the appliance adjusts to the optimum setpoint in to all operational conditions to provide a constant room temperature and comfortable indoor climate.

Summer ventilation can be set with a key combination. It provides additional circulation when the air heater is not active.



## KEY

Elan, indirectly fired air heater	Renovent HR
heater	heat recovery unit
1. Heat exchanger	6. Air to atmosphere
2. Water connections	7. Air from atmosphere
3. Filter	8. Air from dwelling
4. Direct current fan	9. Filters
5. Temperature sensor	10. Heat exchanger
	11. Direct current fans
	12. Sleeve condensate discharge and power cable 230 V
	13. Control pcb



The picture shows the right-handed version of the Elan 10 Downflow with Renovent HR 3b/1o



Brink Climate Systems, member of Centrotec Group, develops and produces high-quality climate control systems. These systems can be found all over the world in dwellings, office buildings, health centres, sports centres, schools, workshops, showrooms and production halls.

## TOP COOLING

Top cooling means that you can supply fresh, cool air to the dwelling during hot summer days. Of course the cooling effect depends on the dwelling size, solar intensity and outdoor temperature.

Elan 25 can be fitted with top cooling. The appliance comes with the cooling installation control fully integrated. Elan heating/cooling appliances in combination with a heat pump (ground source heat pump) provide cooling in summer.

The Elan Duo 2-zone can be equipped with a chiller. This heat pump not only provides low-energy heating but can also cool the dwelling by several degrees.



## CONSTANT FILTERING

As standard the air heater comes with a filter at the side. The heat recovery unit has two standard filters that can easily be taken out through the filter door. These filters remove 95% of the dust from the air. A high-performance fine dust filter is optionally available. Ideal for people with sensitive respiratory organs.

## AIR QUANTITIES ELAN

Three different air quantities can be set on the Elan:

- A minimum air quantity that always ensures sufficient ventilation in the dwelling.
- A maximum air quantity necessary at maximum heat demand.
- An air quantity for cooling.

In the intermediate range the air quantity depends on the output temperature.

## TECHNICAL SPECIFICATIONS AIR HEATER ELAN

Appliance type	Elan 10		Elan 25		Elan SWB		Elan 10 heating/cooling		Elan 25 heating/cooling	
	Nom.	Max.	Nom.	Max.	Nom.	Max.	Nom.	Max.	Nom.	Max.
Air flow rate [m <sup>3</sup> /h]	650	800	1800	2200	650	725	650	800	1800	2200
Heating capacity [kW]	8.7	10.2	21.9	25.4	8.7	9.4	9.6	11.4	23.4	27.2
Water capacity [l/h]	378	445	956	1108	378	440	418	496	1018	1188
Waterside resistance [kPa]	1.7	2.3	2.24	2.94	1.7	2.3	0.6	0.8	0.66	0.9
Water temperature range [°C]	70/50		70/50		70/50		70/50		70/50	
H x W x D [mm]	602 x 675 x 445		857 x 675 x 585		655 x 450 x 600		855 x 675 x 525		1135 x 675 x 585	
Weight [kg]	32		62		32		40		65	

\*\* Different values apply for other water systems. These are available on request.

## TECHNICAL SPECIFICATIONS ELAN AIR HEATER CONTINUED

Appliance type	Elan Duo 10 2-zone		Elan Duo 16 2-zone		Elan Duo 22 2-zone			
	Nom.	Max.	Nom.	Max.	Nom. per zone 1	Max. per zone 1	Nom. per zone 2	Max. per zone 2
Air flow rate [m <sup>3</sup> /h]	350	400	600	750	1000	1200	600	750
Heating capacity [kW]	5.1	5.7	8.4	10.1	12.7	14.6	8.4	10.1
Water capacity [l/h]	222	248	366	440	552	634	366	440
Waterside resistance [kPa]	0.5	0.7	0.4	0.5	0.8	1.0	0.4	0.5
Water temperature range [°C]	70/50		70/50		70/50		70/50	
H x W x D [mm]	787 x 678 x 525		967 x 675 x 585		1112 x 768 x 585		1112 x 768 x 585	
Weight [kg]	40		44		48		48	

\*\* Different values apply for other water systems. These are available on request.

Member of



Member of



Distributed by:



***ubbink***

Ubbink (UK) Ltd, 81 Cherry Orchard Industrial Estate, Ballyfermot, Dublin 10.

Tel: 01 – 626 2600

Email: [info@brinkclimatesystems.ie](mailto:info@brinkclimatesystems.ie) [www.brinkclimatesystems.ie](http://www.brinkclimatesystems.ie)