



# RECUPERATOR THE HEAT EXCHANGER

## PLATE HEAT EXCHANGERS | E SERIES



Applications



### E SERIES

**Recuperator** designs and manufactures plate and rotary heat exchangers, the “core” of any heat recovery system. The high efficiency allows a drastic reduction of energy consumption and air pollution.

Incorporating heat recovery into new and retrofit projects is a duty of all of us in this environmentally aware age.

#### Range

- › Airflow over 10'000 m<sup>3</sup>/h
- › High efficiency, up to 80%
- › Low pressure drops; suggested  $\Delta P$  200 Pa.
- › Max differential pressure up to 2000 Pa
- › Max working temperature up to 90°C (no silicone)

#### Characteristics

- › Aluminium fins, epoxy coated fins (Gold) and B.Blue coating
- › Aluminium corner profiles and epoxy coated aluminium corner profiles. Galvanised steel, aluminium and epoxy coated galvanised steel side plates.
- › With or without bypass and damper.

**FULL**  
**ERP2018**  
**COMPLIANT**

✓ **Great efficiency in compact space**

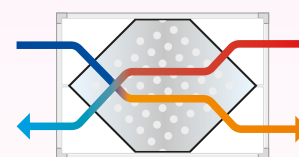
✓ **One piece for high flowrates**

✓ **Fast delivery time**

(+) Free software is available.  
More information on [www.recuperator.eu](http://www.recuperator.eu)

NEW

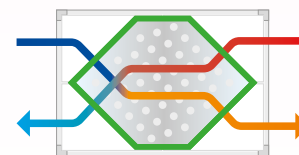
### EXSTREAM The Cross-Counterflow



**EXSTREAM is the cross-counterflow technology by Recuperator.**

The long counterflow path, the hexagonal shape and the fin geometry ensure high efficiency and low pressure drop, meeting the market constant demand for more efficient solutions.

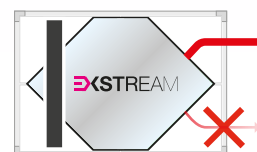
**Even in the most extreme applications.**



Up to  
10'000 m<sup>3</sup>/h

✗ No Combi

✓ One piece

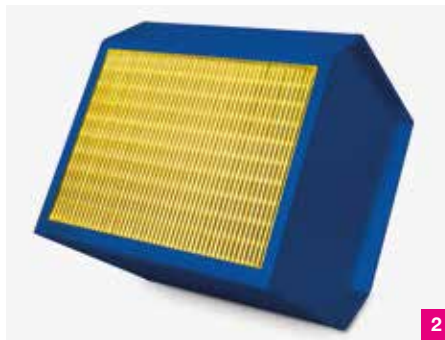


✓ Max tightness between the two airflows

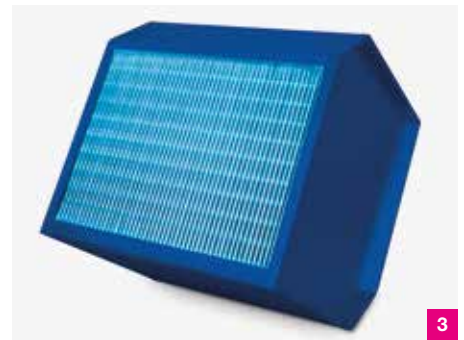
✓ High Quality



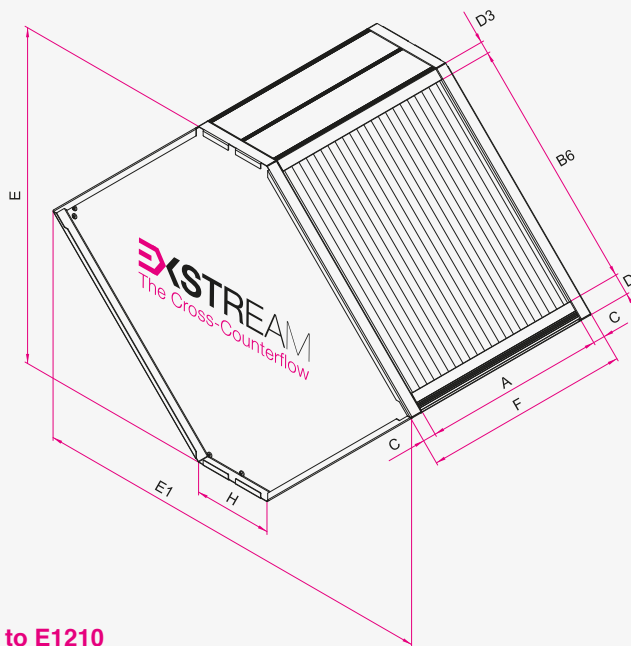
1



2



3



Mod. from E0807 to E1210

## Materials characteristics

### Aluminium (1)

Aluminium is used in most of the applications. This is thanks to its characteristics regarding corrosion resistance, ease of processing, non-flammability and reliability over the time.

### Aluminium with epoxy protection (Gold) (2)

In environments with aggressive atmosphere, usually is recommended that aluminium is protected by a paint coating non-toxic based epoxy corrosion resistant (AC version - GOLD).

### B-Blue (3)

To reduce the consumption of electricity for cooling, it's possible to integrate a plate heat exchanger in an indirect evaporative cooling system. Recuperator has developed a new hydrophilic aluminium coating that improves system efficiency and ensures high corrosion resistance. For more information, consult the dedicated **B-Blue** documentation.

Model	B6	C	D	D3	E	E1	H
E0807	603	30	43	25	948	1139	193
E0806	507	30	43	25	813	1139	327
E0908	703	30	43	25	1090	1280	193
E0907	607	30	43	25	955	1280	327
E1009	803	30	43	25	1231	1422	193
E1008	707	30	43	25	1096	1422	327
E1211	1003	30	43	25	1514	1704	193
E1210	907	30	43	25	1379	1704	327

Table 1

Spacing	F max
R	900
S	1100
N	1300
C	1500
LIMITS	

## Bypass options

- › Bypass section
- › Lateral bypass
- › Aluminium damper and painted damper
- › Damper with external command
- › Damper with internal command
- › Wide range about the shaft positions of the damper
- › Other options available on the selection software

**EXSTREAM**  
The Cross-Counterflow

Constantly evolving solutions.  
Continue to follow us...

**NB:** · Measurements in mm  
· The overall dimensions can be divided into more modules, in accordance with the spacings and weights.



Recuperator S.p.A. reserves the right to introduce alterations in its production and computer programs due to improvements in its quality and without prior notice.



**Recuperator S.p.A.**  
via Valfurva, 13  
20027 Rescaldina  
Milano, Italy

Società unipersonale soggetta all'attività di direzione e coordinamento di Carel Industries S.p.A.

tel. +39 0331 185 31  
fax +39 0331 185 3000  
recuperator@recuperator.eu  
www.recuperator.eu



member of CAREL group