

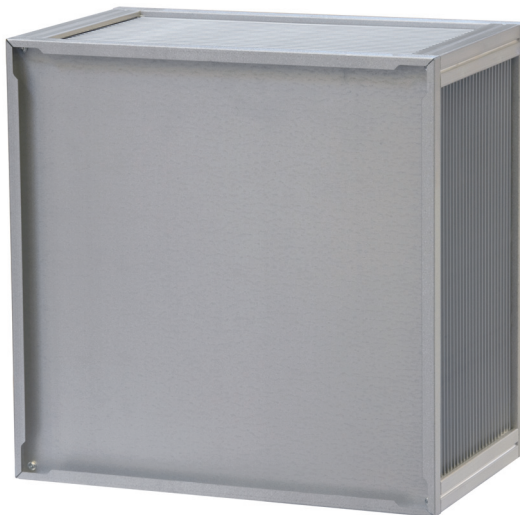
# Model H

## Crossflow heat exchanger

Heatex offers a broad range of crossflow plate heat exchangers that are easy to mount and to maintain. The design allows rapid and thorough cleaning and servicing. Heatex double sealing system, gluing and folding, offers lowest cross contamination and highest fresh air quality. Heatex crossflow plate heat exchangers comply with hygiene standard EN13779 and clean room standard DIN1946 part 4.

Model H is a high-performance, low-weight, crossflow plate heat exchanger with typical dry temperature efficiency up to 65% for single pass and 85% for two-step arrangements. The efficiency is improved by a unique plate design creating turbulence even at lower velocities.

The strong aluminium plates in high standard alloy gives the products a long life time and with no moving parts the maintenance and service costs can be kept to a minimum.



### Model H

#### Typical applications:

- Heat recovery for ventilation
- Condensation drying
- Circuit air cooling.

#### Typical features:

- High performance
- Great tightness
- Hygienic, easy cleaning
- Clean room proof
- Low weight.

The wide range of sizes enables this model to cover a broad application span, from the lowest air flows to the largest commercial installations. Optimal thermal design can be achieved through an enormous choice of plate distances.

Numerous standard options include epoxy coating, lacquered framework, extra airtight sealing, bypass, dampers, choice of corner profiles, slide-in profiles, flat or flanged end-plates, and a choice of seals for different temperature ranges and applications.

### Heatex design and calculation tool

Heatex is well known for their expertise in thermal calculation of air-to-air heat exchangers. The open software allows the user to perform advanced calculations including differential pressures, uneven airflows and to vary the atmospheric pressure. The software will calculate outgoing temperature, pressure drop, relative and absolute humidity, amount of condensing water and perform a warning when there is a risk for freezing. Moreover, the software is also a design tool for choices of options, producing a product code covering the complete design of the product. This code follows the entire process assuring that correct product is delivered to your door.

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## TECHNICAL INFORMATION

**Maximum allowed differential pressure:** 1800 Pa  
(for size 200 and 300 it is 700 Pa).

Influence on pressure drop is described in the technical documentation.

**Maximum leakage:** 0.1% of nominal air flow  
(with silicone sealant 1%)

**Maximum allowed temperature:** 90°C  
(200°C with silicone sealant)

**Plate material:** Aluminium is standard,  
epoxy coated aluminium option for better corrosion protection

**Frame material:** Corner profiles in aluminium and end plates in aluzink (type E)  
or aluminium (type A and C)

**Sealing:** Silicone free (max 90°C, 190°F) or  
Silicone (max 200°C, 390°F)

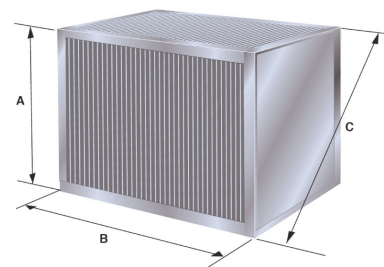
**Frame designs:** Several combinations of different corner profiles and end plates are available.  
See separate data sheet for *Frame Design*.

### Options

- Painted framework for corrosion protection
- Closed plate cutting edges for corrosion protection and for even better tightness
- Individual tightness test with protocol
- Integrated by-pass on the side or in the middle
- Dampers lengthwise, cross wise, recirculation and others.

### Model H Range

Model	Measure (mm)				Plate distance (mm)	Frame design
	A	B	C45	C90		
200	200	100-600	265	283	1.6/ 2.1/ 2.4/ 2.7	1/2/3/4/A/C
300	300	100-600	406	424	1.8/ 2.2/ 3.0/ 4.0/ 5.0	1/2/3/4/A/C
415	415	200-700	548	587	3.3/ 4.2/ 5.0/ 6.5	1,2,4,A,C
425	425	200-1000	585	601	3.3/ 4.2/ 5.0/ 6.5	1, 2, 4, E
490	490	250-1000	677	693	2.8/ 3.3/ 4.2/ 5.0	1, 2, 4, E
600	600	250-1200	829	849	2.7/3.0/ 4.5/ 6.0/ 7.5/ 9.0/ 10.5/ 12.0	1, 2, 4, E
750	750	300-1200	1041	1061	3.3/ 4.5/ 6.0/ 7.5/ 9.0/ 10.5/ 12.0	1, 2, 4, E
800	800	300-1200	-	1131	3.3/ 4.5/ 6.0/ 7.5/ 9.0/ 10.5/ 12.0	2, 4, E
850	850	300-1200	1183	1202	3.0/ 3.5/ 4.0/ 5.0/ 6.5/ 8.0/ 9.5	1, 2, 4, E
1000	1000	350-1200	1394	1414	3.3/ 3.7/ 5.0/ 6.0/ 7.5/ 9.0/ 10.5/ 12.0	1, 2, 4, E
1200	1200	350-1200	-	1697	2.7/ 3.0/ 4.5/ 6.0/ 7.5/ 9.0/ 10.5/ 12.0	2, 4, E
1500	1500	350-1200	-	2122	3.3/ 4.5/ 6.0/ 7.5/ 9.0/ 10.5/ 12.0	2, 4, E
1700	1700	350-1200	-	2404	3.0/ 4.0/ 4.5/ 5.0/ 6.5/ 8.5/ 10.5/ 12.0	2, 4, E
2000	2000	350-1200	-	2828	3.3/ 3.7/ 5.0/ 6.0/ 7.5/ 9.0/ 10.5/ 12.0	2, 4, E
2250	2250	350-1200	-	3182	3.3/ 4.5/ 6.0/ 7.5/ 9.0/ 10.5/ 12.0	2, 4, E
2550	2550	350-1200	-	3606	3.0/ 4.0/ 4.5/ 5.0/ 6.5/ 8.5/ 10.5/ 12.0	2, 4, E
3000	3000	350-1200	-	4243	5.0/ 6.0/ 7.5/ 9.0/ 10.5/ 12.0	2, 4, E



**About frame designs**  
See *Frame Design* data sheet.

Owing to continued product development Heatex AB reserves the right to introduce alterations both in design and prices without prior notice.



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