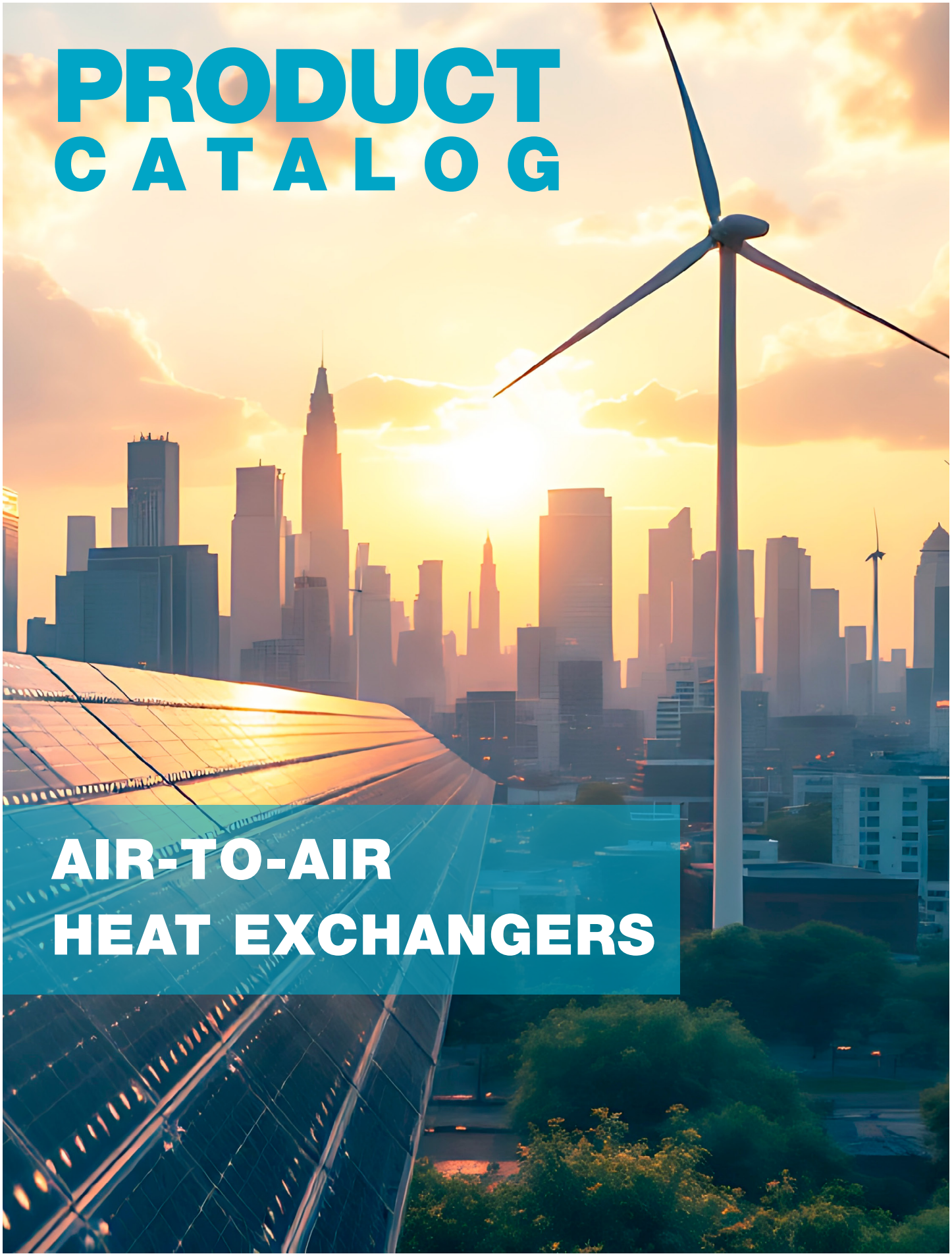
PRODUCT CATALOG



AIR-TO-AIR HEAT EXCHANGERS

HEATEX

THE HEAT TRANSFER SPECIALIST

OUR MISSION

”We help our customers maximize energy efficiency and operational performance by delivering advanced heat transfer solutions that reduce energy consumption and protect critical components.

- *We make good indoor air quality a net saving rather than a cost*
- *We protect sensitive equipment critical in modern society*
- *We help reduce overall energy consumption, including fossil fuels and protect our environment for future generations.”*

Our vision to accelerate the transition to a more energy-efficient and sustainable world through smarter heat transfer.

/Frank Schmidt CEO

HEATEX - AN INTRODUCTION

Heatex is a leading cleantech company that optimizes and develops energy-saving thermodynamic products and solutions that save cost and contribute to a sustainable future.

Established in 1987, guided by our core values Excellence, Honesty, and Simplicity, Heatex has today become one of the top manufacturers of air-to-air heat exchangers in the world and a trusted partner to both global corporates and local champions.

Heatex is part of Madison Air, a publicly listed company within the Madison Industries group, one of the world's largest privately held companies. Madison Air is committed to making the world safer, healthier, and more productive through the power of air by creating innovative solutions that deliver outstanding customer value.

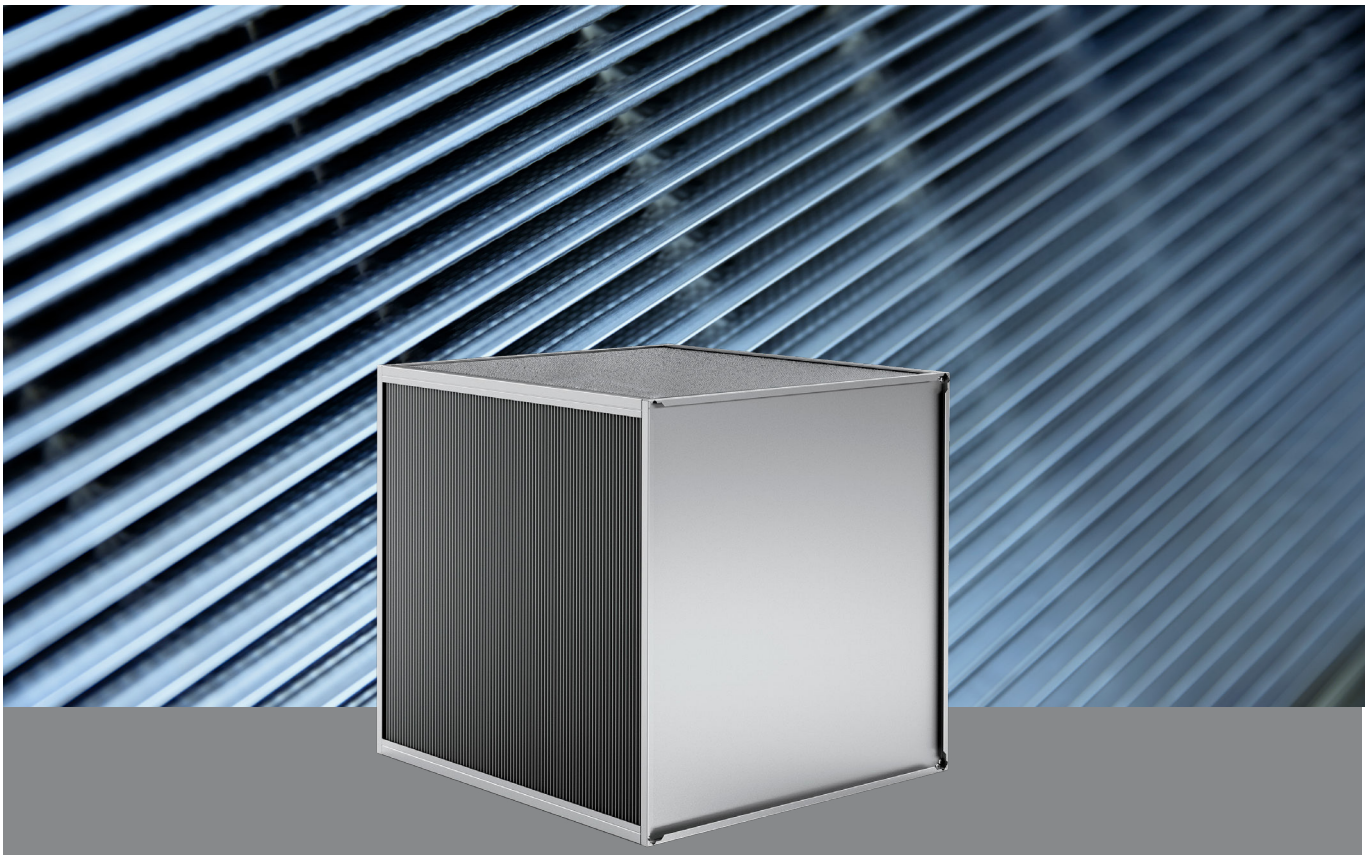
OUR PRODUCTS AND SOLUTIONS

At Heatex, we specialize in air-to-air and air-to-liquid heat exchangers designed to transfer heat efficiently and reliably across a wide range of applications.

In ventilation systems, our air-to-air heat exchangers recover energy from exhaust air by transferring it to incoming air. This makes it possible to maintain good indoor air quality without increasing energy consumption—turning ventilation into a net energy saving rather than a cost.

In thermal management applications, both air-to-air and air-to-liquid solutions are used to cool and protect sensitive electronics. By operating as closed-loop systems, our heat exchangers provide efficient, reliable cooling while protecting electronics from dust, moisture, and overheating.

Across both areas, Heatex solutions are engineered to maximize heat transfer, reduce energy consumption, and ensure stable performance in demanding environments.



HEATEX CROSS FLOW PLATE HEAT EXHANGERS

Heatex offers a wide range of cross-flow plate heat exchangers designed for reliable and efficient heat recovery. All units are manufactured using standardized processes and proprietary production equipment across our global facilities, ensuring consistent performance and quality worldwide.

ADVANTAGES

- **HIGH EFFICIENCY**
  Recover up to 90% of the heat from exhaust air, reducing energy consumption and operating costs depending on model and configuration.
- **LONGEVITY**
  A robust design with no moving parts and high-grade aluminium plates ensures long lifetime and minimal maintenance requirements.
- **EASY MAINTENANCE**
  Designed for quick access, enabling fast, thorough cleaning and servicing when needed.
- **CUSTOMISED SOLUTIONS**
  Tailored to each application for optimal performance and right-sized investment in energy recovery.
- **FLEXIBLE DESIGN OPTIONS**
  A wide range of materials, sizes and configurations makes it easy to meet different technical and application requirements.
- **CLOSED LOOP AIR STREAMS**
  Enables separated airflows to protect equipment and indoor environments.

COMPARE HEAT EXCHANGERS

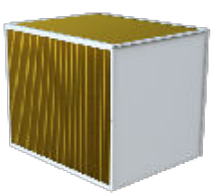
CROSS FLOW MODELS

Depending on size, a Heatex cross-flow model consists of one or multiple modules (heat exchanger units). Each model offers specific advantages depending on the application. Refer to the comparison table below as a starting point, then use Heatex Select Online to configure your product. For further support, contact your dedicated country manager.

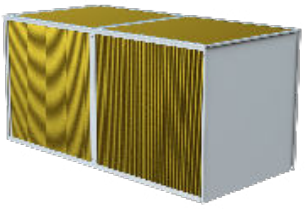
	Model H2	Model H	Model P	Model Z2	Model Z
Typical applications	Comfort ventilation applications	Process ventilation applications	High pressure applications	Highly corrosive/ harsh conditions	Highly corrosive/ harsh conditions
Efficiency (relative)*	Superior	High	High	Superior	High
Pressure drop (relative)*	Standard	Low	Low	Standard	Low
Airflow capacity (relative)*	Standard	High	High	Standard	High
Plate material	Aluminum/ epoxy	Aluminum/ epoxy	Aluminum/ epoxy	Stainless steel	Stainless steel
Plate size (single or multi-module)	500 - 3000 mm	200 - 3000 mm	600 - 3000 mm	850 - 2550 mm	600 - 2400 mm
Maximum differential pressure**	3000 Pa	1800 Pa	3800 Pa	TBD	4000 Pa

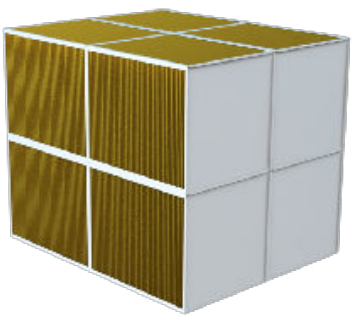
* Relative to other models in the Heatex crossflow range.
** Depends on size and plate distance.

SINGLE MODULE



MULTI-MODULE





CROSS-FLOW HEAT EXCHANGER

MODEL H2

Superior Efficiency

Model H2 is our most efficient cross-flow plate heat exchanger, combining low weight with high resistance to differential pressure. Typical efficiencies reach up to 90% in two-step arrangements (around 80% for a single unit).

The efficiency is improved by its slim profiles and our superior efficiency plate design, creating high turbulence even at lower velocities while keeping pressure drop low.

Model H2's performance is certified according to Eurovent, AHRI and TüvSüd. It can be configured to comply with Ecodesign 1253/2014 requirements.

Heatex cross flow plate heat exchangers meet several hygiene requirements.

TECHNICAL SPECIFICATIONS

END PLATE MATERIALS:
- Aluzinc
- Zinc-magnesium-coated steel plates (only corrosion protected framework)

END PLATE TYPE:
- U - shaped endplate (E)

CORNER PROFILES:
- 90° Aluminium profile
- 45º Aluminium profile

HEAT TRANSFER PLATE MATERIALS:
- Aluminum
- Epoxy-coated aluminium

SEALS:
- Silicone free (max. 90°C)
- Silicone (max. 200°C)

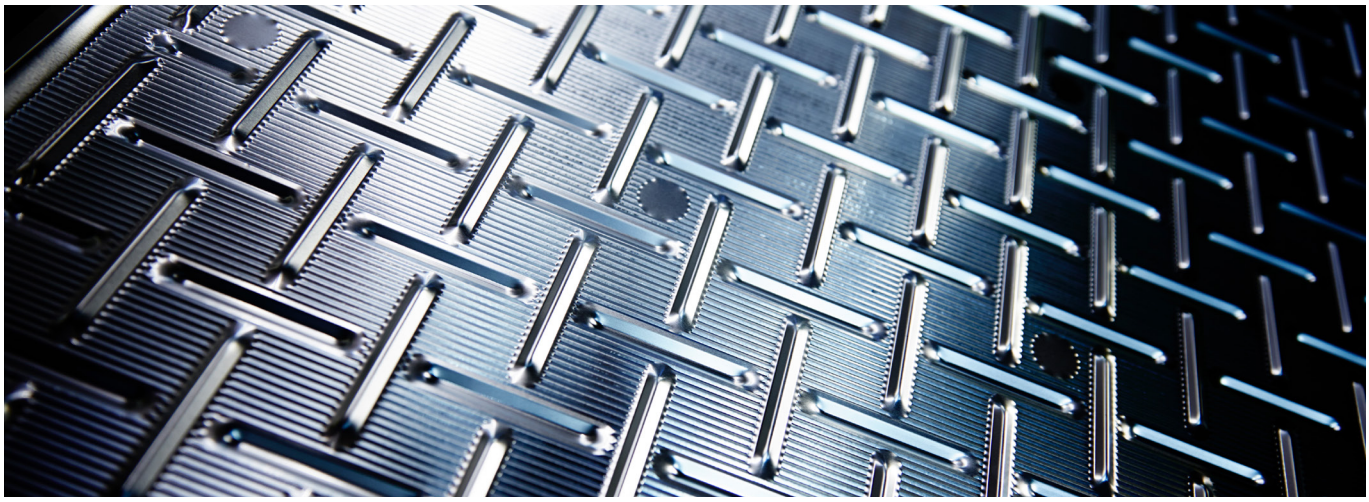
PRODUCT OPTIONS:
- Bypass and damper
- Aquaseal tightness (max. 150ºC)
- Laquered plate edges (max. 90ºC)
- Corrosion protected framework (max. 90ºC)
- Individual air tightness test + report
- Individual water tightness test + report
- ATEX testing (only available with aluminium plates)

MIN. ALLOWED TEMPERATURE:
- -40°C

MAX. LEAKAGE (IN %):
- 0.1% of nominal airflow with non-silicone at 400 Pa
- 1% of nominal airflow for all models with silicone sealant

MAX. ALLOWED DIFFERENTIAL PRESSURE:
- 1800 - 3000 Pa, depending on plate spacing
  > 3000 Pa for plate spacing above 4 mm

For H2 1200/2400:
- 1500 - 1700 Pa for plate spacing 2.0 mm - 3.0 mm
  > 3000 Pa for plate spacing above 4 mm



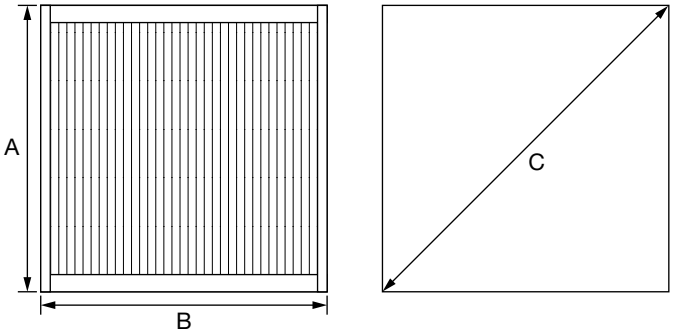
DIMENSIONS (mm)

PLATE SIZE (A):

- 500 - 3000 mm (Single or multi-module)

SINGLE PLATE SIZES AVAILABLE:

- 500 mm
- 600 mm
- 700 mm
- 750 mm
- 850 mm
- 1000 mm
- 1200 mm



MODEL	A	B*	C45**	C90***	PLATE DISTANCE
500	500	250 - 1000	688	707	1.9 / 2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0
600	600	250-1200	829	849	1.9 / 2.0 / 2.2 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0
700	700	300-1200	970	990	2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0
750	750	300-1200	1041	1061	2.0 / 2.1 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0
850	850	300-1200	1182	1202	2.0 / 2.1 / 2.2 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0
1000	1000	350-1200	1394	1414	2.0 / 2.5 / 2.7 / 3.0 / 4.0 / 5.0 / 6.0
1200	1200	350-1200	On request	1697	2.0 / 2.5 / 2.7 / 2.8 / 3.0 / 4.0 / 5.0 / 6.0 / 8.5 / 10.0
1400	1400	350-1200	1960	1980	2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0
1500	1500	350-1200	2102	2122	2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0
1700	1700	350-1200	2384	2404	2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0
2000	2000	350-1200	2808	2828	2.0 / 2.5 / 3.0 / 4.0 / 4.3 / 4.8 / 5.0 / 6.0
2250	2250	350-1200	3162	3182	2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 5.5 / 6.0
2400	2400	350-1200	3374	3394	2.0 / 2.5 / 2.7 / 2.8 / 3.0 / 4.0 / 5.0 / 5.5 / 6.0 / 8.5 / 10.0
2550	2550	350-1200	3586	3606	2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0
3000	3000	350-1200	4223	4243	2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0

* Maximum module width depends on plate orientation (vertical or horizontal), model and plate distance.
** 45° corner profile.
*** 90° corner profile.

CROSS-FLOW HEAT EXCHANGER

MODEL H

Low Pressure Drop

Model H is Heatex's original cross-flow plate heat exchanger, offering versatile performance with low pressure drop. Typical efficiencies reach up to 85% in two-step arrangements (around 75% for a single unit).

Model H offers the widest set of options and configurations among our cross-flow plate heat exchangers.

Model H's performance is certified according to Eurovent, AHRI, and TüvSüd. It can be configured to comply with Ecodesign 1253/2014 requirements.

Heatex cross flow plate heat exchangers meet several hygiene requirements.

TECHNICAL SPECIFICATIONS

END PLATE MATERIALS:

- Aluzinc (for plate size > 415 mm)
- Aluminium (for plate size < 415 mm)
- Zinc-magnesium-coated steel plates (only corrosion protected framework)

END PLATE TYPES:

- Plain endplate (A)
- L - shaped endplate (C)
- U - shaped endplate (E)

CORNER PROFILES:

- 90° Aluminium
- 45° Aluminium

HEAT TRANSFER PLATE MATERIALS:

- Aluminium
- Epoxy-coated aluminium

MIN. ALLOWED TEMPERATURE:

- -40°C

MAX. LEAKAGE:

- 0.1% of nominal air flow for sizes > 425 mm at 400 Pa
- 1% of nominal airflow for sizes < 425 mm at 250 Pa
- 1% of nominal airflow for all models with silicone sealant

SEALS:

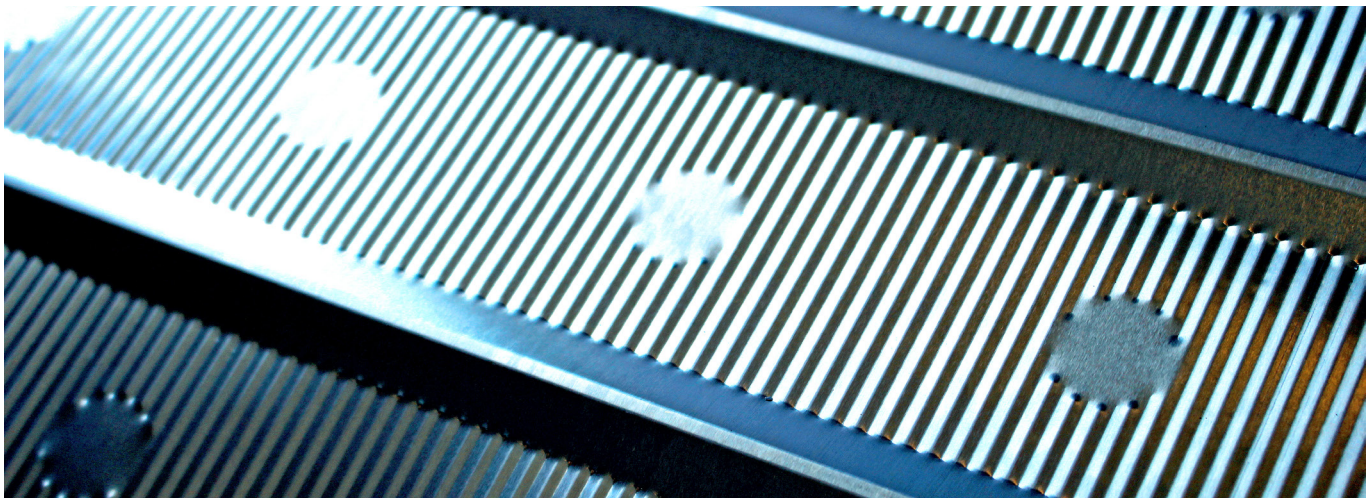
- Silicone free (max. 90°C)
- Silicone (max. 200°C)

PRODUCT OPTIONS:

- Bypass and damper
- Aquaseal tightness (max. 150ºC)
- Laquered plate edges (max. 90ºC)
- Corrosion protected framework (max. 90ºC)
- Individual air tightness test + report
- Individual water tightness test + report
- ATEX testing (only available with aluminium plates)

MAX. ALLOWED DIFFERENTIAL PRESSURE:

- 1800 Pa for most sizes
- 700 Pa for size 200 mm and 300 mm



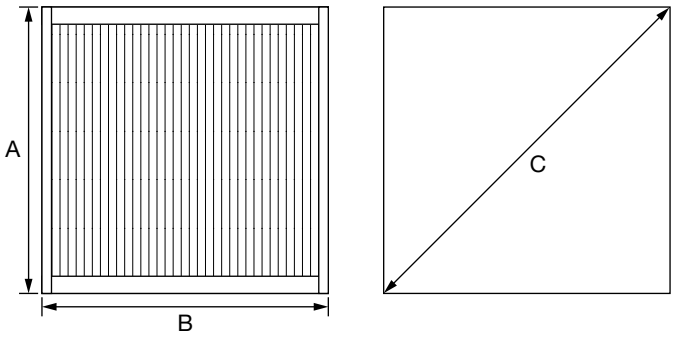
DIMENSIONS (mm)

PLATE SIZE (A):

- 200 - 3000 mm (Single or multi-module)

SINGLE PLATE SIZES AVAILABLE:

- 200 mm
- 300 mm
- 415 mm
- 425 mm
- 600 mm
- 750 mm
- 800 mm
- 850 mm
- 1000 mm



MODEL	A	B	C45*	C90**	PLATE DISTANCE
200	200	100-600	265	283	1.6/2.1/2.4/2.7
300	300	100-600	406	424	1.8/2.2/3.0/4.0/5.0
415	415	200-700	548	587	3.3/4.2/5.0/6.5
425	425	200-1000	587	601	3.3/4.2/5.0/6.5
600	600	250-1200	829	849	2.7/3.0/4.5/6.0/7.5/9.0/10.5/12.0
750	750	300-1200	1041	1061	3.3/4.5/6.0/7.5/9.0/10.5/12.0
800	800	300-1200	-	1131	3.3/4.5/6.0/7.5/9.0/10.5/12.0
850	850	300-1200	1182	1202	3.0/3.5/4.0/5.0/6.5/8.0/9.5
1000	1000	350-1200	1394	1414	3.3/3.7/5.0/6.0/7.5/9.0/10.5/12.0
1200	1200	350-1200	1677	1697	2.7/3.0/4.5/6.0/7.5/9.0/10.5/12.0
1500	1500	350-1200	2102	2122	3.3/4.5/6.0/7.5/9.0/10.5/12.0
1700	1700	350-1200	2384	2404	3.0/4.0/4.5/5.0/6.5/8.5/10.5/12.0
2000	2000	350-1200	2808	2828	3.3/3.7/5.0/6.0/7.5/9.0/10.5/12.0
2250	2250	350-1200	3162	3182	3.3/4.5/6.0/7.5/9.0/10.5/12.0
2550	2550	350-1200	3586	3606	3.0/4.0/4.5/5.0/6.5/8.5/10.5/12.0
3000	3000	350-1200	4223	4243	5.0/6.0/7.5/9.0/10.5/12.0

*45° corner profile.
**90° corner profile.

CROSS-FLOW HEAT EXCHANGER

MODEL P

Extra Resilience & Low Pressure Drop

Model P is a heavy-duty cross-flow plate heat exchanger, designed for applications with high differential pressures. Typical efficiencies reach up to 85% in two-step arrangements (around 75% for a single unit).

Based on the same well-proven plate design as Model H, Model P's efficiency is similar but offers a higher differential pressure resistance due to its extra-strong aluminum plates.

Model P is our most robust aluminum cross flow plate heat exchanger.

Model P's performance is certified according to Eurovent and TüvSüd. It can easily be configured to comply with Ecodesign 1253/2014 requirements.

All Heatex cross flow plate heat exchangers meet several hygiene requirements.

TECHNICAL SPECIFICATIONS

END PLATE MATERIAL:
- Aluzinc
- Zinc-magnesium-coated steel plates (only corrosion protected framework)

END PLATE TYPE:
- U - shaped end plate (E)

CORNER PROFILES:
- 90° Aluminium
- 45° Aluminium

PLATE MATERIALS:
- Aluminium
- Epoxy-coated aluminium

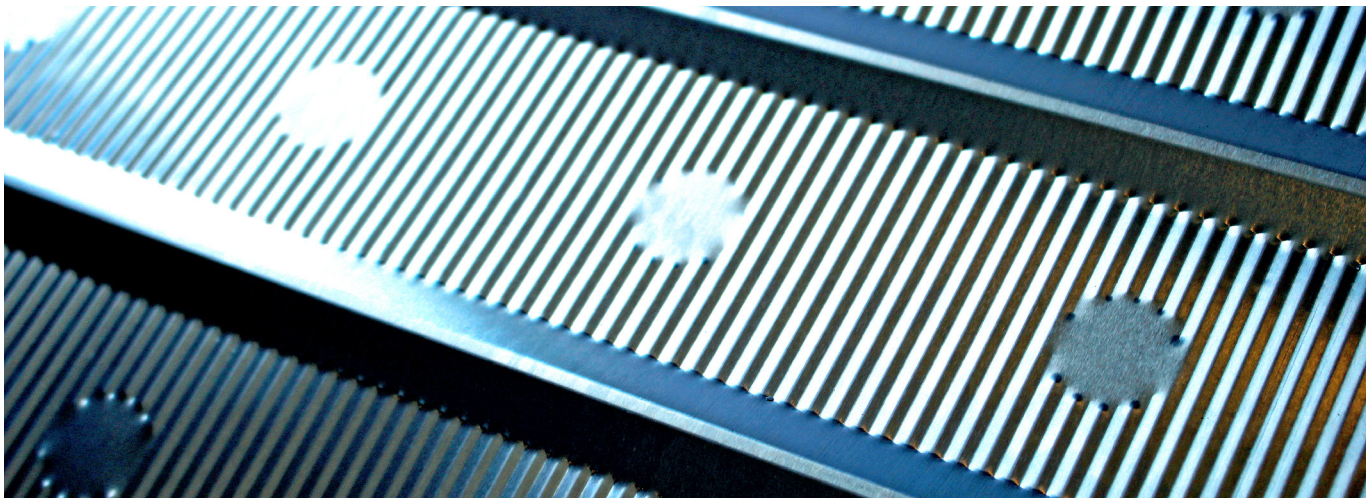
MIN. ALLOWED TEMPERATURE:
- -40°C

MAX. LEAKAGE:
- 0.1% of nominal air flow for sizes > 425 mm at 400 Pa
- 1% of nominal airflow for sizes < 425 mm at 250 Pa
- 1% of nominal airflow for all models with silicone sealant

SEALS:
- Silicone free (max. 90°C)
- Silicone (max. 200°C)

PRODUCT OPTIONS:
- Bypass and damper
- Aquaseal tightness (max. 150°C)
- Laquered plate edges (max. 90°C)
- Corrosion protected framework (max. 90°C)
- Individual air tightness test + report
- Individual water tightness test + report
- ATEX testing (only available with aluminium plates)

MAX. ALLOWED DIFFERENTIAL PRESSURE:
- < 3800 Pa



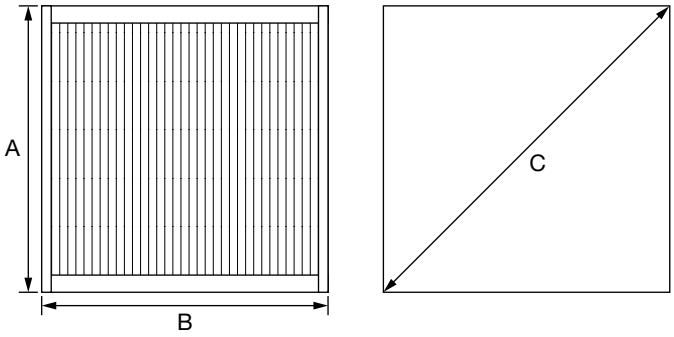
DIMENSIONS (mm)

PLATE SIZE (A):

- 600 - 3000 mm (Single or multi-module)

SINGLE PLATE SIZES AVAILABLE:

- 600 mm
- 750 mm
- 850 mm
- 1000 mm



MODEL	A	B	C45*	C90**	PLATE DISTANCE
600	600	250-1200	829	849	2.7/3.3/4.5/6.0/7.5/9.0/10.5/12.0
750	750	300-1200	1041	1061	3.3/4.5/6.0/7.5/9.0/10.5/12.0
850	850	300-1200	1183	1202	3.0/3.5/4.0/5.0/6.5/8.0/9.5
1000	1000	350-1200	1394	1414	3.3/3.7/5.0/6.0/7.5/9.0/10.5/12.0
1200	1200	350-1200	-	1697	2.7/3.0/4.5/6.0/7.5/9.0/10.5/12.0
1500	1500	350-1200	-	2122	3.3/4.5/6.0/7.5/9.0/10.5/12.0
1700	1700	350-1200	-	2404	3.0/3.5/4.0/5.0/6.5/8.5/10.5/12.0
2000	2000	350-1200	-	2828	5.0/6.0/7.5/9.0/10.5/12.0
2250	2250	350-1200	-	3182	3.3/4.5/6.0/7.5/9.0/10.5/12.0
2250	2250	350-1200	-	3606	3.0/3.5/4.0/5.0/6.5/8.5/10.5/12.0
3000	3000	350-1200	-	4243	5.0/6.0/7.5/9.0/10.5/12.0

*45° corner profile.
**90° corner profile.

CROSS-FLOW HEAT EXCHANGER

MODEL Z2

Exceptional Durability & Superior Efficiency

Model Z2 is designed for corrosive environments and heavy-duty applications, with the entire unit made from acid-resistant stainless steel. Typical efficiencies reach up to 90% in two-step arrangements (around 80% for a single unit).

Based on the proven plate design of Model H2, Model Z2 offers similar efficiency with even higher differential pressure resistance thanks to its stainless steel plates—making it our most durable and efficient cross-flow heat exchanger.

All Heatex cross-flow plate heat exchangers meet several hygiene requirements.

TECHNICAL SPECIFICATIONS

END PLATE MATERIAL
- Acid resistant stainless steel 1.4404 (ASTM 316L)

END PLATE:
- U - shaped endplate (E)

CORNER PROFILE:
- Acid resistant stainless steel 1.4404 (ASTM 316L)

HEAT TRANSFER PLATE MATERIAL:
- Acid resistant stainless steel 1.4404 (ASTM 316L)

SEALS:
- Silicone free (max 90°C)
- Silicone (max 200°C)
- High temperature silicone (max 240°C)

PRODUCT OPTIONS:
- Aquaseal tightness (max. 150ºC)
- Laquered plate edges (max. 90ºC)
- Individual air tightness test + report
- Individual water tightness test + report

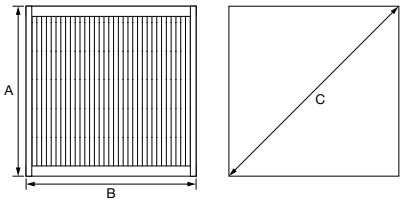
MAX. LEAKAGE (IN %):
Tested at 400 Pa (1.6” WC) differential pressure.
- 0.1% of nominal airflow with non-silicone sealant (with Aqua Seal)
- 0.1% of nominal airflow with silicone sealant (with AquaSeal)
- 2% of nominal airflow with non-silicone sealant (without AquaSeal)
- 5% of nominal airflow with silicone sealant (without AquaSeal)

MAX. ALLOWED DIFFERENTIAL PRESSURE:
- < TBD Pa

DIMENSIONS (mm)

PLATE SIZE (A):
- 850 - 2550 mm (Single or multi-module)

SINGLE PLATE SIZES AVAILABLE:
- 850 mm



MODEL	A	B	C90*	PLATE DISTANCE
850	850	250-1000	1202	2.2 / 2.5 / 3.0 / 4.0 / 5.0
1700	1700	250-1000	2404	2.2 / 2.5 / 3.0 / 4.0 / 5.0
2550	2550	250-1000	2550	2.2 / 2.5 / 3.0 / 4.0 / 5.0

*90° corner profile.

CROSS-FLOW HEAT EXCHANGER

MODEL Z

Exceptional Durability & Low Pressure Drop

Model Z2 is designed for corrosive environments and heavy-duty applications, with the entire unit made from acid-resistant stainless steel. Typical efficiencies reach up to 85% in two-step arrangements (around 75% for a single unit).

Based on the proven plate design of Model H, Model Z offers similar efficiency with even higher differential pressure resistance thanks to its stainless steel plates—making it our most durable cross-flow heat exchanger with low pressure drop.

All Heatex cross flow plate heat exchangers meet several hygiene requirements.

TECHNICAL SPECIFICATIONS

END PLATE MATERIAL:
- Acid resistant stainless steel 1.4404 (ASTM 316L)

END PLATE TYPE:
- U - shaped endplate (E)

CORNER PROFILE:
- Acid resistant stainless steel 1.4404 (ASTM 316L)

HEAT TRANSFER PLATE MATERIAL:
- Acid resistant stainless steel 1.4404 (ASTM 316L)

SEALS:
- Silicone free (max 90°C)
- Silicone (max 200°C)
- High temperature silicone (max 240°C)

PRODUCT OPTIONS:
- Aquaseal tightness (max. 150°C)
- Laquered plate edges (max. 90°C)
- Individual air tightness test + report
- Individual water tightness test + report

MAX. LEAKAGE (IN %):

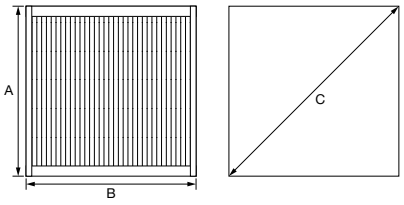
Tested at 400 Pa (1.6” WC) differential pressure.
- 0.1% of nominal airflow with non-silicone sealant (with Aqua Seal) and 0.5% (without AquaSeal)
- 5% of nominal airflow with silicone sealant (without AquaSeal)

MAX. ALLOWED DIFFERENTIAL PRESSURE:
- < 4000 Pa

DIMENSIONS (mm)

PLATE SIZE (A):
- 600 - 2400 mm (Single or multi-module)

SINGLE PLATE SIZES AVAILABLE:
- 600 mm



MODEL	A	B	C90*	PLATE DISTANCE
600	600	250-1200	849	3.0 / 6.0 / 7.5 / 9.0
1200	1200	350-1200	1697	3.0 / 6.0 / 7.5 / 9.0
1800	1800	350-1200	2546	3.0 / 6.0 / 7.5 / 9.0
2400	2400	350-1200	3394	3.0 / 6.0 / 7.5 / 9.0

*90° corner profile.

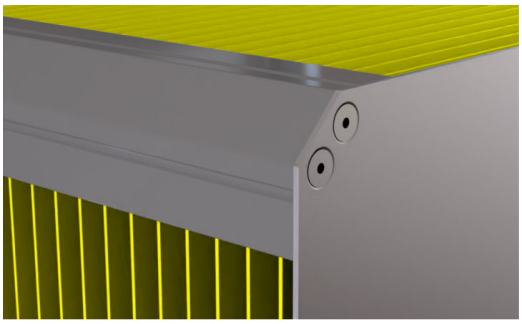
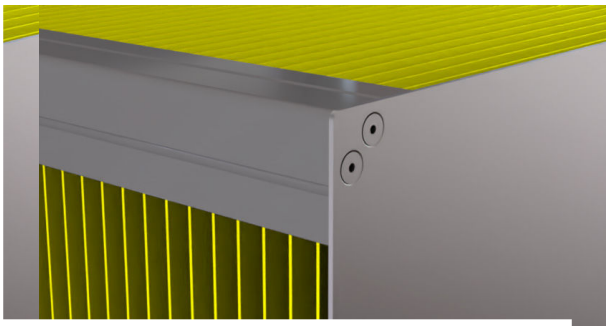
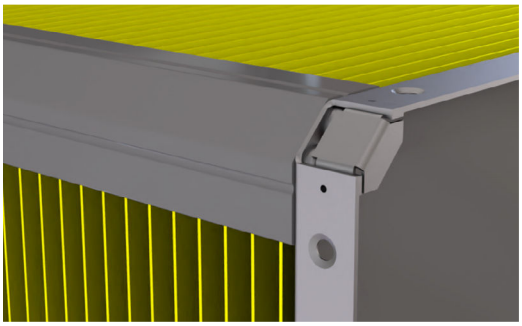
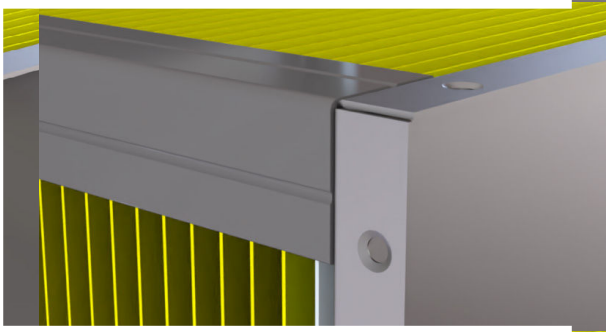
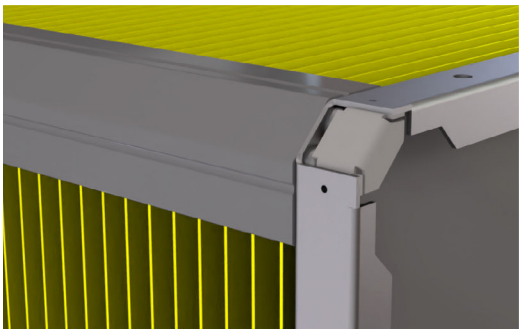
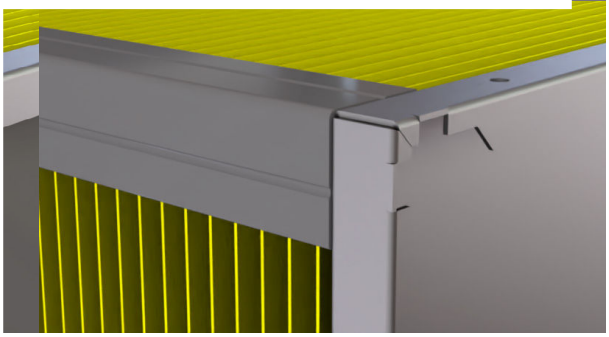
END PLATES & CORNER PROFILES

END PLATE TYPES

An end plate is a part of the casing on a cross-flow heat exchanger. There is one end plate on each side of the plate package. We call them A, C and E. “A” is a plain endplate, “C” is a L- shaped endplate and “E” has a U-shaped endplate.

CORNER PROFILE

The profile is the corner piece, placed on the same sides as the inlets- and outlets- of the cross-flow heat exchanger. Together with the end plates, the profile creates the framework around the heat transfer plates.

End Plate Type	Corner Profile 45°	Corner Profile 90°
A		
C		
E		

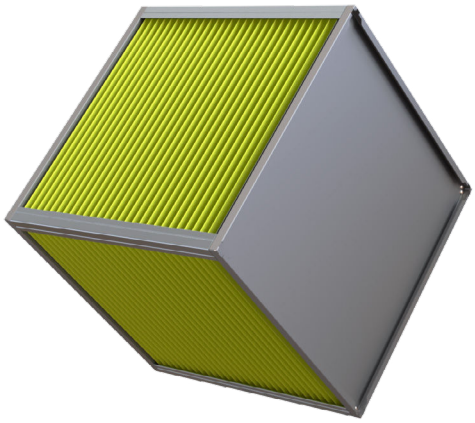
CUSTOM CORNER PROFILE DESIGNS

Special applications might demand different profile designs, please contact us for technical support.

PRODUCT OPTIONS

AQUASEAL FOR EXTRA TIGHTNESS

We offer a process that fills all plate crevices with a specialized polymer to ensure water tightness and enhanced air tightness. The result is a highly sealed heat exchanger suitable for high-humidity environments or direct water exposure. Depending on plate spacing, Aquaseal may not always be applicable.



LAQUERED PLATE EDGES

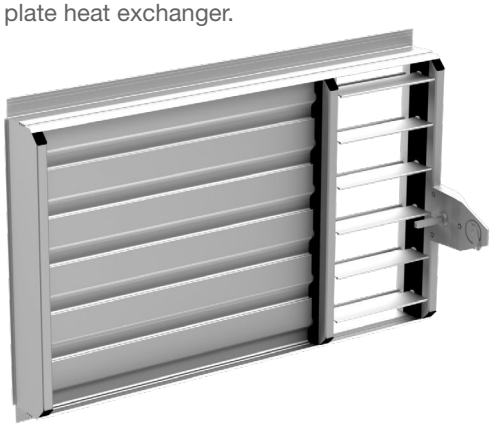
When epoxy plates are cut, the protective coating is removed at the edges. A lacquer is therefore applied to prevent corrosion and can also be used to further tighten the heat exchanger.

CORROSION PROTECTED FRAMEWORK

Cross-flow models are available with a Zn-Al-Mg metallic coating on a steel substrate, offering self-healing properties for edge protection and meeting corrosion class C5.

DAMPERS

Suitable for close/open bypass exchanger section in connectionwith a cross-flow plate heat exchanger. Tightness classification 2.



FRAME HEIGHT:
- 115 mm

BLADE WIDTH/ DIVISION:
- 100 mm

SQUARE SHAFT:
- 12 x 12 mm
- 50 - 200 mm in length

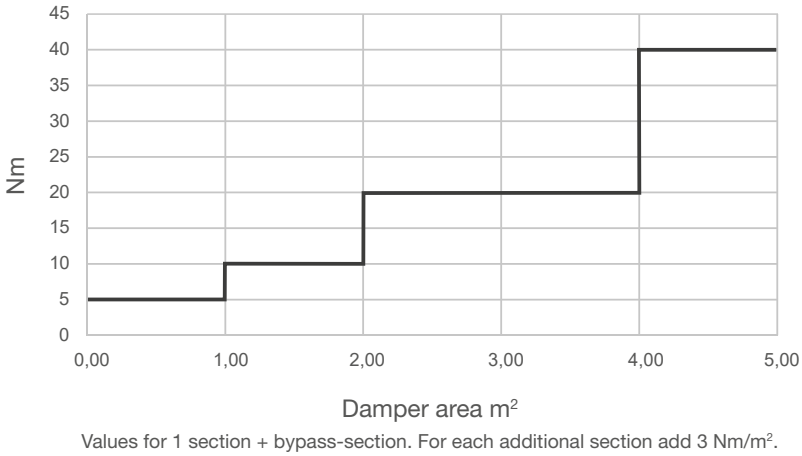
ROUND SHAFT:
- 12 mm
- 120 mm in length

MAXIMUM DAMPER WIDTH:
- 2500 mm (incl. bypass)

MAXIMUM DAMPER-UNIT AREA:
- 4 m² (incl. bypass)

MAXIMUM BLADE LENGTH:
- 1300 mm

Required Torque Nm/m²
at pressure difference 1500 Pa



Values for 1 section + bypass-section. For each additional section add 3 Nm/m².

MATERIAL:
- Profiles and damper blades in aluminium
- Driving wheels in PP plastic with fiberglass (suitable for temperatures between -15°C to 80°C)

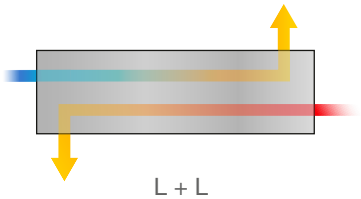
COUNTER FLOW HEAT EXCHANGER

MODEL M

Slim & Flexible

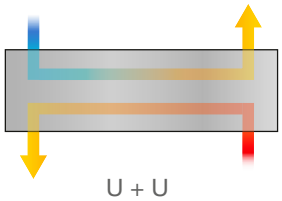
Model M is a slim, high-efficiency counterflow plate heat exchanger, specially designed for the demanding requirements of the telecommunicatiions and solar industry. Even in a dry situation, it can come close to 90% dry efficiency.

Especially for Model M, Heatex offers custom integration solutions for easy installation and faster end product delivery. Model M is built according to customers' request with either double L-flow, double U-flow or L+U-flow configuration.



L + L

Most effective/recommended.



U + U

U + L

Alternative for special flow path requirements.

TECHNICAL SPECIFICATIONS

HEAT TRANSFER PLATE MATERIALS:

- Aluminium
- Epoxy coated aluminium

CASING MATERIAL:

- Aluzinc

MAX. ALLOWED TEMPERATURE AND SEALING:

- Silicone free (max 90°C)

MAX. LEAKAGE:

- 0.1% of nominal air flow at 400 Pa

MAX. ALLOWED DIFFERENTIAL PRESSURE:

- 700 Pa

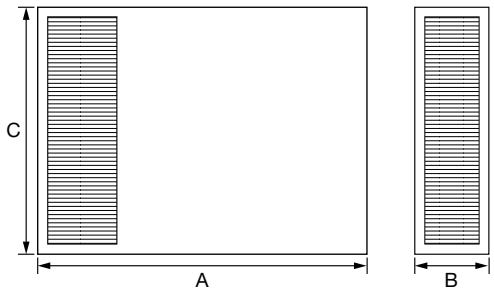
DIMENSIONS (mm)

WIDTH/ LENGHT:

- 100 - 600 mm

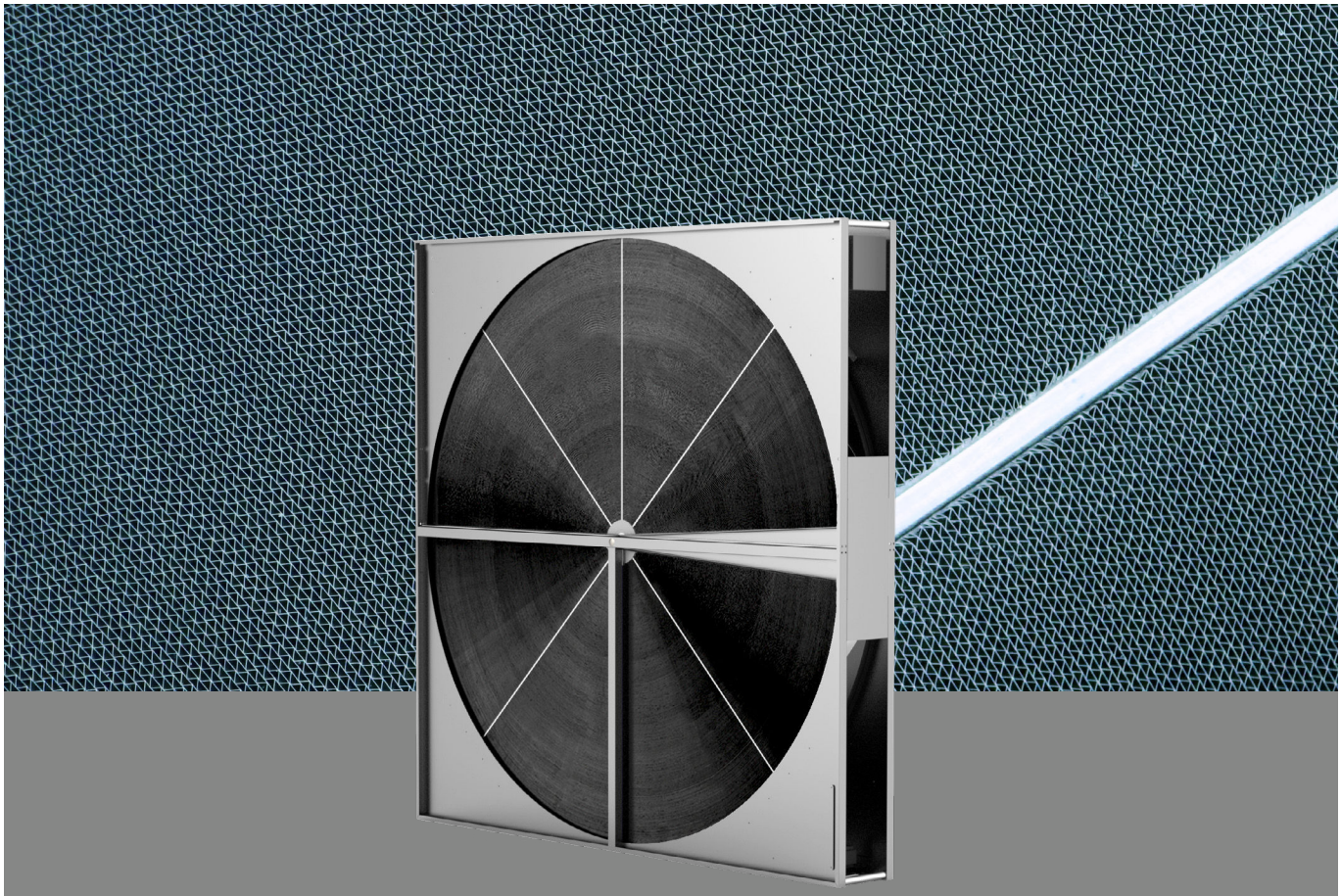
SINGLE PLATE SIZES AVAILABLE:

- 95 mm
- 140 mm
- 190 mm
- 235 mm



MODEL	A*	B	C	PLATE DISTANCE
200 - 500 x 95	200 - 500	95	100 - 600	3.0 / 4.5 / 6.0
300 - 600 x 140	300 - 600	140	100 - 600	3.0 / 4.5 / 6.0
400 - 1000 x 190	400 - 1000	190	100 - 600	3.0 / 4.5 / 6.0 / 7.5
500 - 1000 x 235	500 - 1000	235	100 - 700	3.0 / 4.5 / 6.0 / 7.5

*Available in 100 mm increments. For further options please contact us!



HEATEX ROTARY HEAT EXCHANGERS

All Heatex rotary heat exchangers feature the same high-efficiency matrix, combined with a wide range of well heights to meet varying performance requirements. All units are manufactured in our global production facilities using proprietary equipment and standardized processes, ensuring consistent quality worldwide.

ADVANTAGES

- **HIGH EFFICIENCY**
  Heatex rotors deliver high sensible and latent efficiency for effective energy recovery.
- **LOW FREEZING RISK**
  Rotary heat exchangers offer a very low freezing risk as the wheels by definition defrost themselves.
- **MINIMAL CROSS CONTAMINATION**
  Cased models include seals for high air tightness and can be equipped with purge sectors to minimize cross-contamination.
- **HUMIDITY TRANSFER & CORROSION**
  Coatings can be applied to the wheel to enable latent heat transfer or enhance corrosion protection.
- **WIDE RANGE OF OPTIONS**
  Extensive options in sizes, materials, and drive systems to match different applications and performance needs.
- **FULLY CUSTOMISED**
  Each unit is designed to meet specific application requirements while keeping investment aligned with energy recovery needs.

COMPARE HEAT EXCHANGERS

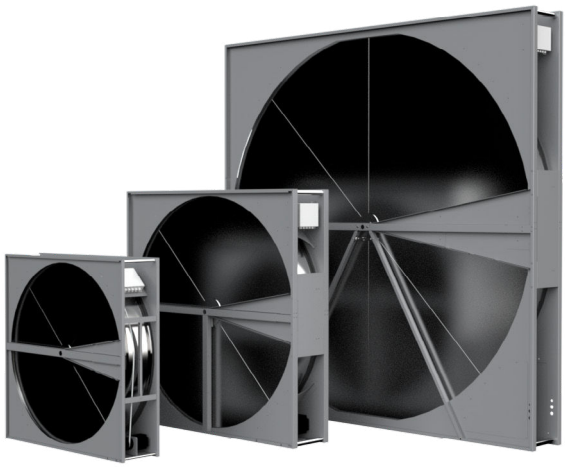
ROTARY MODELS

Each model offers distinct advantages depending on the application, while all Heatex rotary heat exchangers share the same high-efficiency matrix.

Model E features one of the most compact casings on the market, while Model ES is equipped with a segmented wheel for easy onsite installation or replacement in restricted spaces. Both models are also available without casing. Model EN (only available as a wheel) is a extra small wheel.

Refer to the comparison table below as a starting point, then use Heatex Select Online to configure your product. For further support, contact your dedicated country manager.

	Model E/O	Model ES/ER	Model EN
Typical Application	Comfort & Process Ventilation	Comfort & Process Ventilation	Residential Ventilation
Airflow capacity	200 - 90 000 Nm^3/h	2000 - 190 000 Nm^3/h	50 - 2 000 Nm^3/h
Rotor design	One-piece	Segmented	One-piece
Configuration	Model E: Wheel with casing Model O: Wheel only	Model ES: Wheel with casing Model ER: Wheel only	Wheel only
Exchanger orientation	Vertical or horizontal	Vertical only	Vertical or horizontal
Rotor diameter	500 - 2575 mm (Available in steps of 1 mm increments.)	1600 - 3800 mm (Available in steps of 1 mm increments.)	200 - 500 mm (Available in steps of 1 mm increments.)



ROTARY HEAT EXCHANGER

MODEL E & O

One-Piece Rotor

Model E is a high-performance, lightweight rotary heat exchanger for air handling units in comfort and process ventilation, delivering dry temperature efficiencies of up to 90%.

It features one of the most compact self-supporting casings on the market—requiring no internal AHU attachments—resulting in higher efficiency than conventional units within the same dimensions.

Model E is certified by Eurovent, AHRI, and TÜV SÜD, and meets stringent hygiene requirements.

The wheel-only version, without casing, is designated Model O.

TECHNICAL SPECIFICATIONS

CASING MATERIAL:
- Galvamized steel

MATRIX MATERIALS:
- Aluminum (Condensation)
- Epoxy (Condensation)
- Hybrid with molecular sieve (Enthalpy)
- Molecular sieve (Adsorption)

SEALS:
- Brush seal
- Special brush seal

PLANE OF INTERSECTION:
- Vertical
- Horizontal

HEAT EXCHANGER ORIENTATION:
- Vertical
- Horizontal

HUBS:
- Ball bearing with shaft
- Ball bearing with shaft, corrosion resistant

DRIVE EQUIPMENT:
- Constant drive 3 x 380-420V (w/o rotation detector)
- Constant drive 3 x 220-240V (w/o rotation detector)
- IBC VariMax NG step drive with modbus
- OJ DHRX + MRHX step drive with modbus

DRIVE BELT:
- Power belt

PRODUCT OPTIONS:
- Purge sector
- Corrosion-protected framework
- Inspection hatches
- Cable glands
- Cleanblade
- Standard or covered casing with different depths
- Condensate tray
- Non-standard casing dimensions

AIRFLOW CAPACITY:
- 200 - 90 000 Nm^3/h

MAX. ALLOWED PRESSURE DROP:
- 300 Pa for < Ø1600 mm
- 250 Pa for > Ø1600 mm

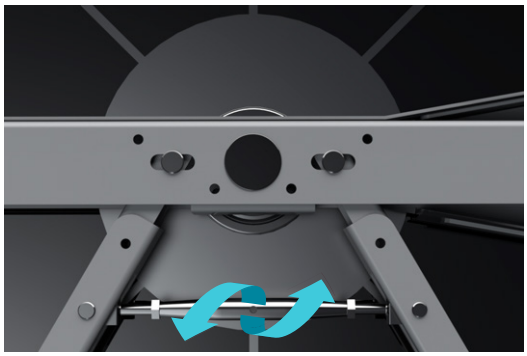
RECOMMENDED VALUES:
- Maximum differential pressure up to 600 Pa
- Recommended pressure drop between 100 - 200 Pa
- Air temperature limits between min. -40°C and max 65°C

SPECIAL FEATURES

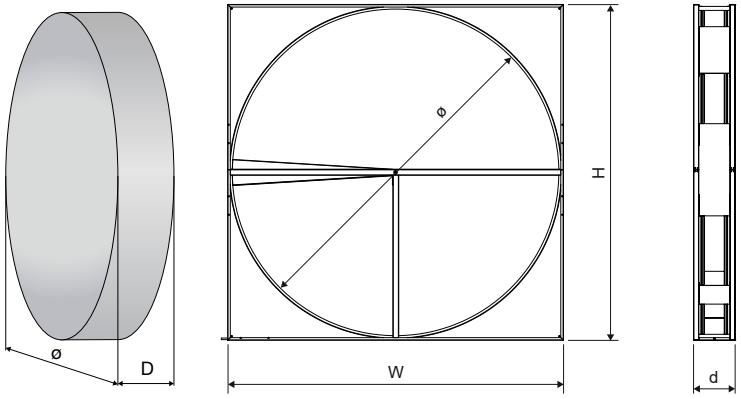
WHEEL TILT FUNCTION

Large rotors have a wheel tilt function which minimizes friction, leakage, and wear of the sealing by adjusting the wheel's angle. Just expand or contract the turnbuckle to tilt the wheel.

This feature is only available on large rotors (Ø > 1501mm).



DIMENSIONS (mm)



NOTE:
Rotor diameter is available in 1 mm increments.
Non-standard casing dimensions available.

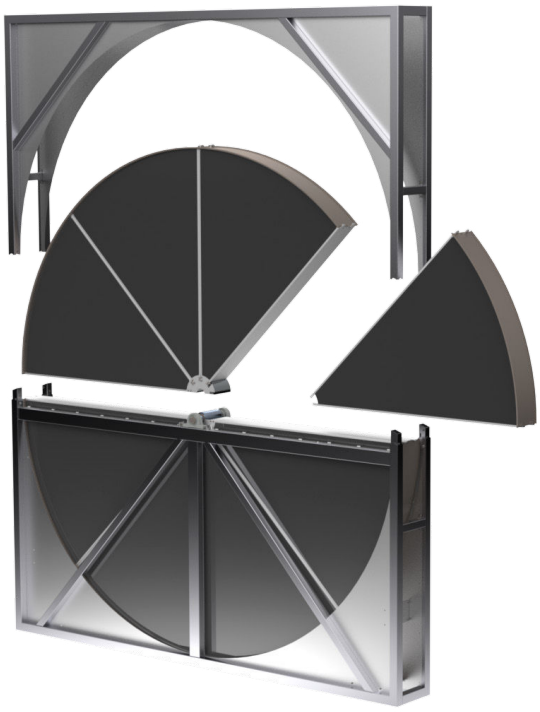
WHEEL		CASING			
DIA (Ø)	DEPTH (D)	FRONT (WxH) (VARIABLE MOTOR)	FRONT (WxH) (CONSTANT DRIVE)	DEPTH (d)	WELL HEIGHT*
500	200	550 x 550	600 x 600	276 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
600	200	650 x 650	700 x 700	276 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
700	200	750 x 750	800 x 800	276 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
800	200	850 x 850	900 x 900	276 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
900	200	950 x 950	1000 x 1000	276 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1000	200	1050 x 1050	1100 x 1100	276 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1100	200	1150 x 1150	1200 x 1200	276 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1200	200	1250 x 1250	1250 x 1250	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1300	200	1350 x 1350	1350 x 1350	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1400	200	1450 x 1450	1450 x 1450	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1500	200	1550 x 1550	1550 x 1550	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1600	200	1650 x 1650	1650 x 1650	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1700	200	1750 x 1750	1750 x 1750	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1800	200	1850 x 1850	1850 x 1850	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1900	200	1950 x 1950	1950 x 1950	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2000	200	2050 x 2050	2050 x 2050	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2100	200	2150 x 2150	2150 x 2150	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2200	200	2250 x 2250	2250 x 2250	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2300	200	2350 x 2350	2350 x 2350	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2400	200	2450 x 2450	2450 x 2450	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2500	200	2550 x 2550	2550 x 2550	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2575	200	2625 x 2625	2625 x 2625	316 / 290	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5

* The exact well height depends on the thickness of the material selected.
** Well height 1.4 is only available in Aluminum, Epoxy and Hybrid.

ROTARY HEAT EXCHANGER

MODEL ES & ER

Segmented Rotor



Model ES is a high-performance, segmented rotary heat exchanger with a lightweight yet robust welded aluminium frame, designed for comfort and process ventilation, with dry efficiencies up to 90%.

The segmented wheel enables easy onsite installation or replacement in confined spaces and reduces transport costs. An adjustable shaft allows precise alignment within the air handling unit.

Model ES is certified by Eurovent and AHRI and meets multiple hygiene requirements.

The wheel-only version is designated Model ER. Both ES and ER are delivered partially disassembled, depending on the selected delivery option.

TECHNICAL SPECIFICATIONS

MATRIX MATERIALS:
- Aluminum (Condensation)
- Epoxy (Condensation)
- Hybrid with molecular sieve (Enthalpy)
- Molecular sieve (Adsorption)

SEAL:
- Brush seal

PLANE OF INTERSECTION:
- Vertical
- Horizontal

EXCHANGER ORIENTATION:
- Vertical

HUBS:
- External bearing
- External bearing, corrosion resistant

AIRFLOW CAPACITY:
- 2 000 - 190 000 Nm^3/h

MAX. ALLOWED PRESSURE DROP:
- 250 Pa

DRIVE EQUIPMENT:
- Constant drive 3 x 380-420V (w/o Rotation detector)
- Constant drive 3 x 220-240V (w/o Rotation detector)
- IBC MicroMax drive & control
- IBC VariMax NG step drive with modbus

DRIVE BELT:
- Power belt

DELIVERY OPTIONS:
- Two halves (A)
- Segments (B)

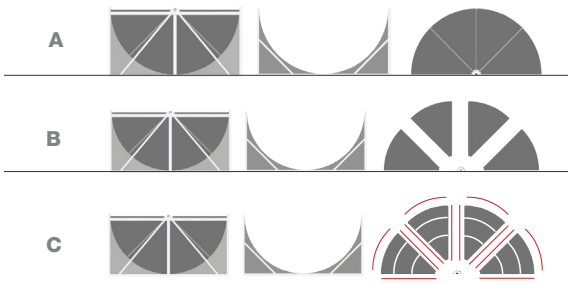
PRODUCT OPTIONS:
- Purge sector
- Corrosion-protected framework
- Inspection hatches
- Cable glands
- Covered casing
- Condensate tray
- Non-standard casing dimensions

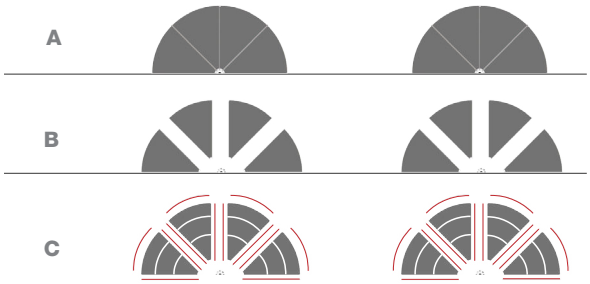
RECOMMENDED VALUES:
- Maximum differential pressure up to 600 Pa
- Recommended pressure drop between 100 - 200 Pa
- Air temperature limits between min. -40°C and max 65°C

SPECIAL FEATURES

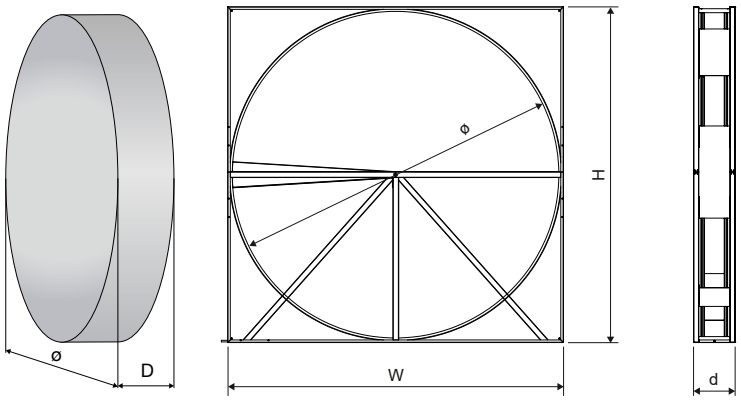
DELIVERY OPTIONS

Model ES and ER wheels can be delivered in three ways. As two halves (A) or in segments (B). Split segments (C) on request!





DIMENSIONS (mm)



NOTE:

Rotor diameter is available in 1 mm increments.

Non-standard casing dimensions available.

WHEEL		CASING		
DIA (Ø)	DEPTH (D)	FRONT (W X H)	DEPTH (d)	WELL HEIGHT*
1600	200	1700x1700	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1700	200	1800x1800	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1800	200	1900x1900	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
1900	200	2000x2000	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2000	200	2100x2100	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2100	200	2200x2200	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2200	200	2300x2300	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2300	200	2400x2400	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2400	200	2500x2500	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2500	200	2600x2600	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2600	200	2700x2700	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2700	200	2840x2800	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2800	200	2900x2900	410	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
2900	200	3000x3000	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
3000	200	3100x3100	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
3100	200	3200x3200	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
3200	200	3300x3300	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
3300	200	3400x3400	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
3400	200	3500x3500	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
3500	200	3600x3600	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
3600	200	3700x3700	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
3700	200	3800x3800	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5
3800	200	3900x3900	430	1.4** / 1.6 / 1.8 / 2.0 / 2.2 / 2.5

* The exact well height depends on the thickness of the material selected.
** Well height 1.4 is only available in Aluminum, Epoxy and Hybrid.

ROTARY HEAT EXCHANGER

MODEL EN

Extra Small Rotor

Model EN is a compact, high-performance rotary heat exchanger without casing, designed for direct installation in air handling units or cassettes for residential ventilation.

Typical efficiencies are 75–80%, with optimized designs reaching up to 90%.

Its small hub and bearing maximize airflow in compact units, while glued aluminium wrapping ensures durability.

Available in multiple depths, Model EN adds design flexibility.

Model EN is Eurovent certified.

TECHNICAL SPECIFICATIONS

MATRIX MATERIALS:
- Aluminum (Condensation)
- Epoxy (Condensation)
- Hybrid with molecular sieve (Enthalpy)
- Molecular sieve (Adsorption)

EXCHANGER ORIENTATION:
- Vertical
- Horizontal

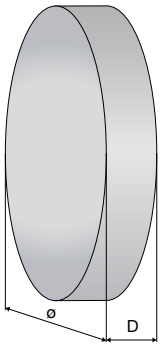
HUB:
- Ball bearing with shaft

AIRFLOW CAPACITY:
- 50 - 2 000 Nm^3/h

MAX. ALLOWED PRESSURE DROP:
- 300 Pa

RECOMMENDED VALUES:
- Maximum differential pressure up to 600 Pa
- Recommended pressure drop between 100 - 200 Pa
- Air temperature limits between min. -40°C and max 65°C

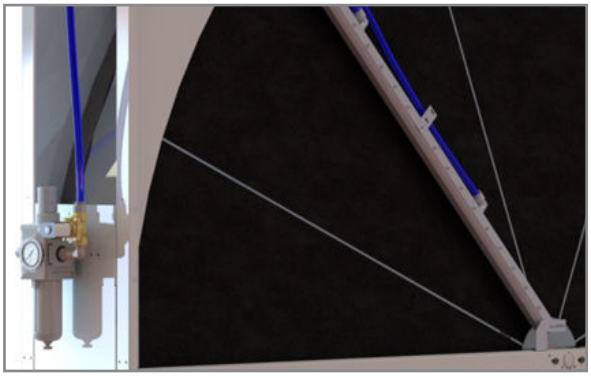
DIMENSIONS (mm)



DIA (Ø)	DEPTH (D)	WELL HEIGHT*
200 - 500	100 / 150 / 200	1.4** / 1.6 / 1.8 / 2.0

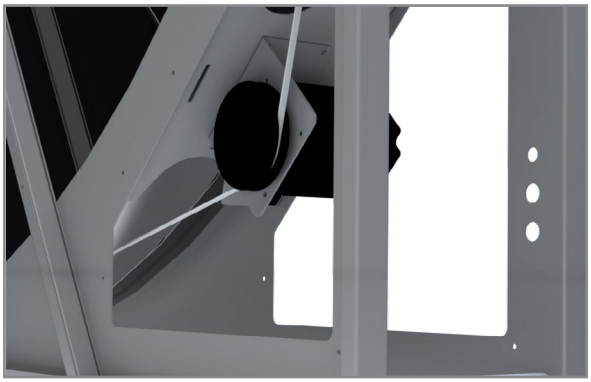
* The exact well height depends on the thickness of the material selected.
** Well height 1.4 is only available in Aluminum, Epoxy and Hybrid.

PRODUCT OPTIONS



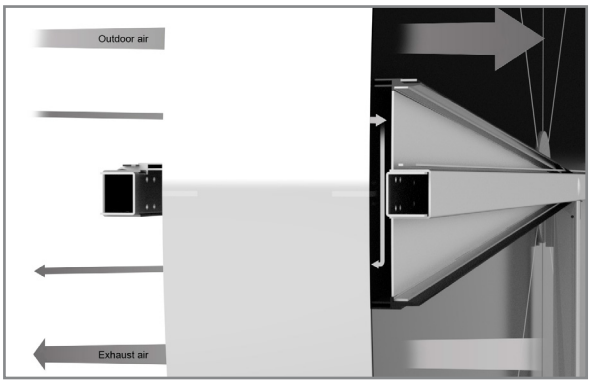
CLEAN BLADE

The clean blade is a cleaning device that cleans the entire matrix in just one revolution. It uses pressurized air to push the contaminants out of the matrix into the leaving air. It is positioned on the rotor's exhaust/contaminated air inlet side. It pushes the contamination through the rotor and out into the leaving air.



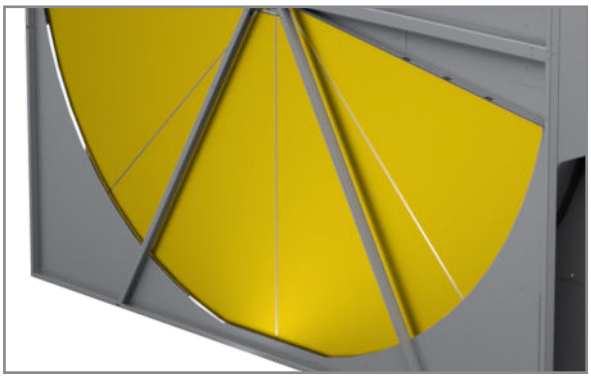
INSPECTION HATCHES, CABLE GLANDS & CONDENSATE TRAY

For easier acces to the motor we provide optional hatches and cable glands. For humid climates, we recommend adding a condensate tray to collect water and lead it out of the AHU. The covered casing automatically comes with inspection hatches and cable glands to enable access to otherwise closed-off components.



PURGE SECTOR & SPECIAL SEALS

Depedning on the Model the casing can be equipped with special seals and a purge sector to minimize the cross-contamination of exhaust air into the supply air. The purge sector is optimized to reduce carryover or EATR. It will stop the inlet of exhaust air in the small area right before the airflows switch, thus avoiding exhaust air from getting trapped into the matrix.



CORROSION PROTECTED FRAMEWORK

Some applications require improved corrosion protection (e.g., marine environments). A corrosion protected framework combined with an epoxy coated wheel and corrosion-resistant ball bearings increases the corrosion resistance significantly.

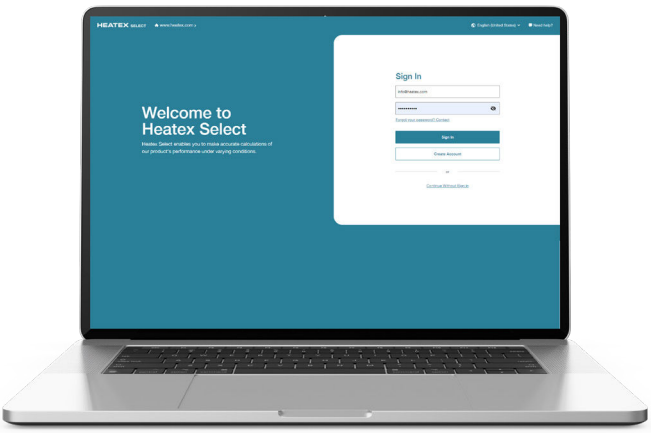
HEAT EXCHANGER CALCULATION

PRODUCT SELECTION

Heatex Select, our calculation software, enables exakt product configuration and accurate calculation of our product performance under different conditions and the energy-saving potential in various geographical zones.

Heatex Select is always available **Online**, as a **DLL** or via **API** connection for free at heatex.com.

All heat transfer and pressure drop calculations are done with the actual heat exchanger geometry and based on correlation from scientifically well-renowned sources such as ”VDI Wärmeatlas” and ”International Hand Book of Heat Exchanger Design”.



HEATEX SELECT

SAVING ENERGY & RESOURCES

RETURN ON INVESTMENT

A heat exchanger is almost always a beneficial investment – regardless of whether the exchanger is a rotary or a plate heat exchanger.

By recovering heat, energy consumption is reduced. Saved energy cut costs and the consumption of coal, natural gas, and other fossil fuels, which eventually leads to carbon dioxide reduction.

All our models save sufficient energy to provide short amortization periods and valuable savings.

In Heatex Select Online, you find a **Return on Investment Calculator** that approximately indicates the payback amount and time as well as energy saved by installing a Heatex air-to-air heat exchanger.

GLOBAL PRODUCTION AND SUPPLY

MANUFACTURING & LOGISTICS

Strategically located production facilities enable us to respond to regional product variations and demand as quickly as possible while assuring stable supply lines and highly trained staff.

Heatex' **Lean Manufacturing** certified personnel constantly manage towards perfection to reduce the number of steps, time, and information needed to serve our customers. By assuring efficient processes and reliable suppliers, we constantly aim to optimize production, reduce scrap and secure stable lead times, resulting in high-quality products with a competitive price and a minimal carbon footprint.

SAFTEY FIRST

Every Heatex production plant meets and goes beyond all relevant legislative requirements set out by the national government in each country to make sure its personnel is safe and sound.
In case of any accidents, the incident is registered, investigated, and analyzed. Preventive measures are put in place to eliminate any further issues.

SUSTAINABILITY

We are fully committed to developing our products, manufacturing processes, and procurement to reduce our carbon footprint and any harmful environmental impacts.

Heatex is **ISO 14001** certified and together with **EcoVadis**, the world's most trusted provider of business sustainability ratings, we continuously work on improving our score.

HEATEX

WHY HEATEX?

HIGH-QUALITY PRODUCTS & TECHNICAL EXPERTISE

- Our solutions combine high efficiency, long-lasting durability, and a fast return on investment.
- All products are field-proven and designed to meet relevant building codes and regulations.
- Our experienced application engineers support you throughout the entire development process.

RELIABLE PARTNERSHIP & CERTIFICATIONS

- We have a well-established reputation for being honest and reliable.
- We hold several certifications, including **Eurovent**, **TÜV**, **AHRI**, **ISO 9001** and **ISO 14001**.
- All Heatex products are custom-made and designed to match each customer's technical specifications.

Visit heatex.com for more information.

HEATEX

The Heat Transfer Specialist

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