

OUR MISSION

"Heatex's mission is to make the world safer, healthier, and more productive through the development and supply of energy-saving products and solutions.

- 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."

/Frank Schmidt CEO





HEATEX

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 Industries, one of the world's largest and most successful privately held companies. Madison builds entrepreneurially driven, branded market leaders committed to making the world safer, healthier, and more productive by creating innovative solutions that deliver outstanding customer value.

PRODUCTS & SOLUTIONS

Heatex specializes in air-to-air heat exchangers whose purpose is to: (a) make good indoor air quality a net saving rather than a cost; and (b) protect sensitive equipment from excessive temperatures by maximizing the heat transfer between air flows.

By maximizing the heat transfer between air flows, we recover otherwise wasted heat (energy), thereby financially reducing costs and environmentally cutting carbon emissions. We specialize in custom solutions that provide optimal energy recovery and fast return on investment no matter the application.

APPLICATIONS

Heatex heat exchangers are used in a variety of buildings, industries, and applications. The application determines which heat exchangers and/or systems provide the best solution.

AHU manufacturers use Heatex heat exchangers as key components in HVAC systems to transfer heat or control humidity between supply and exhaust airstreams (see Indoor Air Quality).

Air-to-air heat exchangers also enable reliable and energy-efficient cooling of heat-emitting processes such as sensitive electronics and generators (see Thermal Management).

INDOOR AIR QUALITY

COMFORT VENTILATION

HVAC systems play a crucial role to maintain healthy and comfortable indoor air quality (IAQ) in almost all buildings.

Research shows good IAQ substantially helps improve productivity in business, raise grades in schools, and minimize hazardous pathogens in the air. Most often, good IAQ is best realized through fresh air exchange as opposed to recirculation.

The challenge for real estate owners and landlords is providing a healthy and comfortable IAQ with as little energy input (=cost) as possible.

With Heatex air-to-air heat exchangers, as much as 90% of the energy cost for tempering supply air can be saved and the return on investment is in many cases less than 12 months.





INDUSTRIAL VENTILATION

Many industrial processes generate large amounts of hot and humid air.

These processes have a great potential for energy/heat recovery and air pollution control, which can significantly reduce energy consumption (= cost) and environmental impact.

When large amounts of waste heat are generated, air-toair heat exchangers are employed to recover the otherwise wasted heat and preheat the incoming process air—resulting in significantly reduced operating costs.

Heatex air-to-air heat exchangers are ideal for numerous industrial applications, including dehumidification and water removal, process heat or refrigeration recovery, and humidity transfer.

THERMAL MANAGEMENT

DATA CENTER COOLING

Thermal Management is a key factor in the cost and operation of data centers.

Heatex heat exchangers, especially when coupled with evaporative cooling technology, provide an efficient, low cost and environmentally friendly alternative to remove excess heat from data center air.



WIND TURBINE COOLING

To ensure the life expectancy of the components inside the nacelle the heat generated by the process of energy conversion and solar radiation needs to dissipate.

Heatex develops complete and customized air-to-air cooling systems for generator, nacelle and converter/ transformer cooling. All systems are suitable for both onshore and offshore applications due to their corrosion resistant closed loop design.



ELECTRONIC COOLING

Electronic equipment constantly gets more sophisticated and sensitive. To function reliably, it needs to be protected from water, dust, and excess heat.

Heatex develops complete closed-loop cooling systems based on air-to-air heat exchangers for a variety of enclosures and cabinets used in telecom, digital media, and solar applications.

All systems are highly flexibel and customizable.



AGRICULTURE VENTILATION

Greenhouse cultivation is an energy-intensive sector, energy consumption for indoor grow operations are many times higher than of typical office buildings.

Almost 50% of the energy use stems from ventilation, cooling, and dehumidification.

Air handling units equipped with an Heatex air-to-air heat exchanger can save 60% -70% of the energy required to control climate typical greenhouse grow facilities.



PLATE HEAT EXHANGERS

Heatex offers a broad range of plate heat exchangers. All units are produced according to our standardized processes with our proprietary production equipment at our global facilities, ensuring uniform product quality and favorable lead times worldwide.

ADVANTAGES

HIGH EFFICIENCY

With Heatex heat exchangers, up to 90% of the heat in the exhaust air is transferred to the supply air.

• LONGEVITY

No moving parts and strong aluminium plates in high standard alloy give the products a long lifetime and minimal need of service.

• EASY MAINTENANCE

The design allows for rapid and thorough cleaning and servicing.

FULLY CUSTOMISED

All of our products are carefully designed to meet the demands for each specific application application and minimize the investment relative to the energy recovery need.

• WIDE RANGE OF OPTIONS

We offer an extensive range of design options regarding materials, sizes and components to suit various application and performance requirements.

CLOSED LOOP AIR STREAMS

Depending on the application requirements, Heatex plates enable closed-loop airstreams to protect both people and equipment.

CROSS FLOW HEAT EXCHANGERS

COMPARE MODELS



Every model has a clear advantage depending on the application. To determine which model suits your application, please use our comparison table below.

MODEL	H2	Н	Р	z	
Description	Oustanding efficiency for commercial ventilation and high performance cooling.	Particular low pressure drop for basic ventilation and cooling applications.	Extra differential pressure resilience for industrial ventilation applications.	Exceptional durability and corrosion resistance for very tough applications.	
Efficiency	Superior	High	High	High	
Airflow capacity	Standard	High	High	Standard	
Plate material	te material Aluminum/ epoxy		Aluminum/ epoxy	Stainless steel	
Combined modules size	500 - 3000 mm	200 - 3000 mm	600 - 3000 mm	600, 1200, 1800 & 2400 mm	
Max. differential pressure*	3000 Pa	1800 Pa	3800 Pa	4000 Pa	

^{*} Depends on size and plate distance



MODEL H2

Outstanding Efficiency

Model H2 is our most efficient cross flow plate heat exchanger. It combines low-weight with high differential pressure resistance and is able to reach typical dry temperature efficiencies above 80% and for two-step configurations over 90%.

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

PLATE MATERIAL:

- Aluminum
- Epoxy coated aluminium

CORNER PROFILE:

- 90° Aluminium profile
- 45° Aluminium profile

END PLATE:

- Aluzinc
- Aluminum

SEALING:

• -40°C

Silicone free (max. 90°C)

MAX. LEAKAGE (IN %):

- Silicone (max. 200°C)
- High temperature silicone (max. 240°C)

MIN. ALLOWED TEMPERATURE:

• 0.1% of nominal airflow with non-silicone at 400 Pa

OPTIONAL:

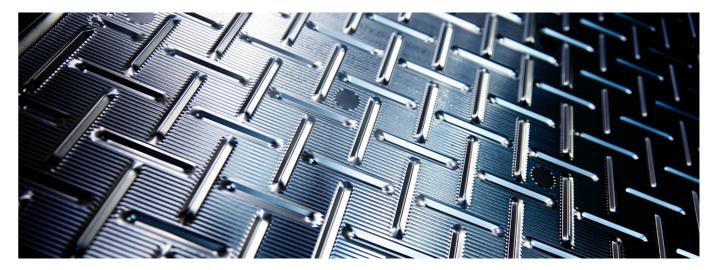
- Aquaseal tightness (max. 150°C)
- Laquered plate edges (max. 90°C)
- Corrosion protected framework (max. 90°C)
- Individual air tightness test + report
- Individual water tightness test + report
- ATEX testing (only available with aluminium plates)
- Heatex damper

MAX. ALLOWED DIFFERENTIAL PRESSURE:

• 1800 - 3000 Pa, depending on plate spacing > 3000 Pa for plate spacing above 4 mm

For H2 1200/2400:

• 1% of nominal airflow for all models with silicone sealant
• 1500 - 1700 Pa for plate spacing 2.0 mm - 3.0 mm > 3000 Pa for plate spacing above 4 mm



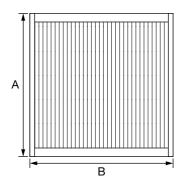
DIMENSIONS (MM)

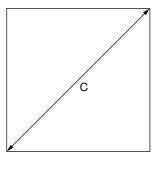
COMBINED MODULES SIZE:

• 500 - 3000

PLATE SIZE:

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





NOTE: Customized A-dimensions can to some extent be created with special corner profile designs.

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' original cross flow plate heat exchanger with typical dry temperature efficiency up to 75% for a single pass and 85% for two-step arrangements.

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

PLATE MATERIAL:

- Aluminium
- Epoxy coated aluminium

CORNER PROFILE:

- 90° Aluminium
- 45° Aluminium

END PLATE:

- Aluzinc (for plate size > 600 mm)
- Aluminium (for plate size < 300 mm)

SEALING:

• -40°C

MAX. LEAKAGE:

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

MIN. ALLOWED TEMPERATURE:

• 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

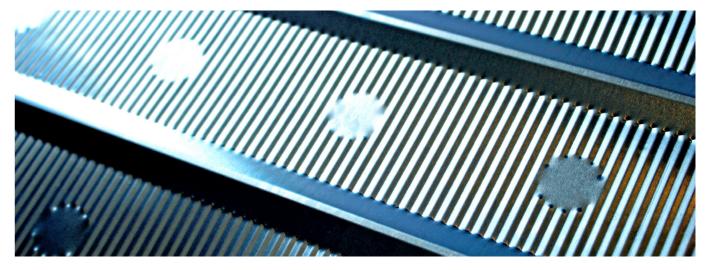
OPTIONAL:

- 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)
- Heatex damper

1800 Pa for most sizes

MAX. ALLOWED DIFFERENTIAL PRESSURE:

- 700 Pa for size 200 mm and 300 mm



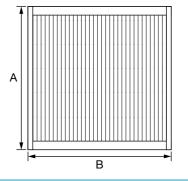
DIMENSIONS (MM)

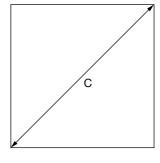
COMBINED MODULES SIZE:

• 200 - 3000

PLATE SIZE:

- 200
- 300 • 850
- 415 • 1000
- 425
- 600
- 750





NOTE: Customized A-dimensions can to some extent be created with special corner profile designs.

MODEL	A	В	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.

MODEL P

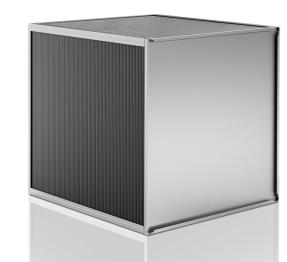
Model P is a heavy duty, cross flow plate heat exchanger, specially designed for applications where high differential pressures occur. Efficiencies up to 75% for single units and up to 85% for two-step arrangements are typical.

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.



Extra Resilience

TECHNICAL SPECIFICATIONS

PLATE MATERIAL:

- Aluminium
- Epoxy coated aluminium

CORNER PROFILE:

- 90° Aluminium
- 45° Aluminium

END PLATE:

Aluzinc (for plate size > 600 mm)

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

SEALING:

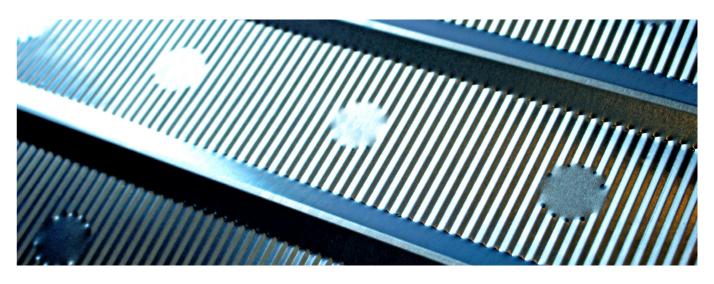
- Silicone free (max. 90°C)
- Silicone (max. 200°C)
- High temperature silicone (max. 240°C)

OPTIONAL:

- 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)
- Heatex damper

MAX. ALLOWED DIFFERENTIAL PRESSURE:

• < 3800 Pa



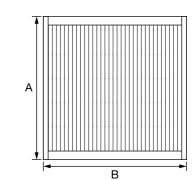
DIMENSIONS (MM)

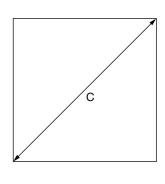
COMBINED MODULES SIZE:

• 600 - 3000

PLATE SIZE:

- 600
- 750
- 850
- 1000





NOTE: Customized A-dimensions can to some extent be created with special corner profile designs.

MODEL	A	В	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 Z

Model Z is designed to operate in corrosive environments and heavy duty applications. The entire unit is made of acid resistant stainless steel and a single pass exchanger can provide a sensible efficiency of 65 – 70%.

Based on the same well-proven plate design as Model H, Model Z's efficiency is similar to Model H but offers even higher differential pressure resistance due to its stainless steel plates. Model Z is our most durable cross-flow heat exchanger.

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



Exceptional Durability

TECHNICAL SPECIFICATIONS

PLATE MATERIAL:

Acid resistant stainless steel 1.4404 (ASTM 316)

CORNER PROFILE:

• Acid resistant stainless steel 1.4404 (ASTM 316)

ENDPLATE:

Acid resistant stainless steel 1.4404 (ASTM 316)

SEALING:

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

DIMENSIONS (MM)

COMBINED MODULES SIZE:

• 600, 1200, 1800 & 2400

PLATE SIZES:

• 600

OPTIONAL:

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

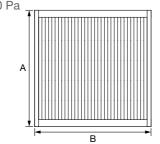
MAX. LEAKAGE (IN %):

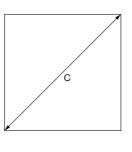
Tested at 400 Pa (1.6" WC) differential pressure.

- 0.1% of nominal airflow with non-silicone sealant (with AquaSeal) and 0.5% (without AquaSeal)
- 5% of nominal airflow with silicone sealant (without Aqua-Seal)

MAX. ALLOWED DIFFERENTIAL PRESSURE:

• < 4000 Pa





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

PLATE HEAT EXCHANGERS

END PLATES & CORNER PROFILES

END PLATES

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 flat metal sheet, "C" is single folded (L- shaped) and type "E" has a double folded edge (U-shaped).

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 frame around the heat transfer plates.

End Plate Corner Profile 45° Corner Profile 90° Corner Profile 90° Corner Profile 90°

MORE CORNER PROFILE DESIGNS

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

PLATE HEAT EXCHANGER

OPTIONS

EXTRA TIGHTNESS

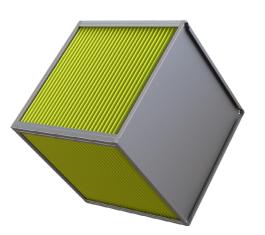
Heatex offers a process for filling all plate crevices with a special polymer for water tightness and an even higher level of air tightness. This will result in a highly tight heat exchanger suitable for high humidity or direct water exposure. *AquaSeal* only applies to exchangers with plate spacing > 3 mm (0.12").

LAQUERED PLATE EDGES

Since cutting the epoxy plates removes the epoxy coating along the edges, a lacquer is applied to protect the edges from corrosion. This option can also be used to tighten the heat exchanger further.

CORROSION PROTECTED FRAMEWORK

Crossflow models are available with a metallic coating consisting of Zn, Al and Mg on a steel substrate. It has self-healing abilities which ensures edge protection. This coating fulfills corrosion protection 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:

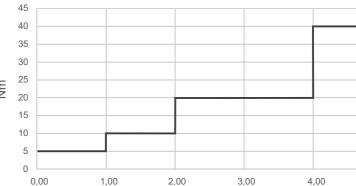
• 4 m² (incl. bypass)

MAXIMUM BLADE LENGTH:

• 1300 mm

MATERIAI:

Required Torque Nm/m² at pressure difference 1500 Pa



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

Damper area m²

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

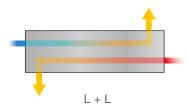
COUNTER FLOW HEAT EXCHANGER

MODEL M

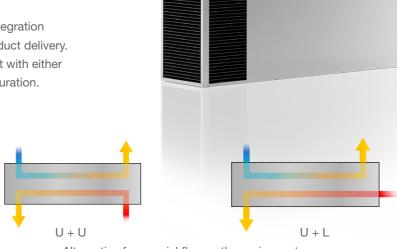
Slim & Flexible

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



Most effective/recommended.



Alternative for special flow path requirements.

TECHNICAL SPECIFICATIONS

PLATE MATERIAL:

- 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

95

140

190

235

DIMENSIONS (MM)

MODEL 200 - 500 x 95

300 - 600 x 140

400 - 1000 x 190

500 - 1000 x 235

WIDTH/ LENGHT:

• 100 - 600

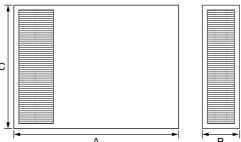
PLATE SIZE:

• 95

• 190

• 140

• 235



	A	Ь
C	PLATE DISTANC	E
100 - 600	3.0 / 4.5 / 6.0	
100 - 600	3.0 / 4.5 / 6.0	
100 - 600	3.0 / 4.5 / 6.0 / 7	.5
100 - 700	3.0 / 4.5 / 6.0 / 7	.5

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

200 - 500

300 - 600

400 - 1000

500 - 1000





ROTARY HEAT EXCHANGERS

All Heatex rotary heat exchangers share the same high-efficiency matrix and a wide variety of well-heights to suit various performance requirements. All units are produced at our global production facilities with our proprietary production equipment according to the same standardized processes, ensuring uniform product quality and favorable lead times worldwide.

ADVANTAGES

• HIGH EFFICIENCY

Heatex rotary exchangers provide high sensible and latent efficiencies.

• LOW FREEZING RISK

Rotary heat exchangers offer a very low freezing risk as the wheels by definition defrost themselves

• MINIMAL CROSS CONTAMINATION

Models with casing are fitted with seals for excellent air tightness and can be equipped with purge sectors to minimize the cross-contamination of exhaust air into the supply air.

HUMIDITY TRANSFER

There are several possibilities to add various coatings to the wheel, to enable latent transfer or provide increased corrosion protection.

• WIDE RANGE OF OPTIONS

We offer an extensive range of options regarding sizes, material, and drives to suit various applica tion and performance requirements.

• FULLY CUSTOMISED

All of our products are carefully designed to meet the demands for each specific application application and minimize the investment relative to the energy recovery need.

ROTARY HEAT EXCHANGERS

COMPARE MODELS

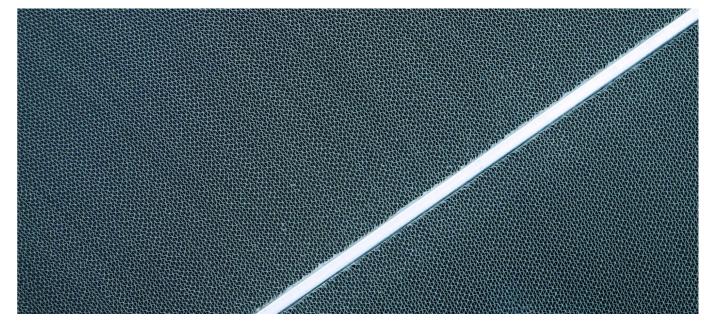


Every Model has a clear advantage depending on its application. All of our rotary heat exchangers share the same high-efficiency matrix. Model E offers one of the most compact casings on the market, whereas Model ES features a segmented wheel for easy onsite installation or replacement in narrow spaces. Both wheels are also available without casing.

Model EN (wheel only) is primarily designed for residential applications.

To determine which Model suits your application project, please use our comparison table below.

MODEL	E/0	ES/ER	EN
Airflow capacity	200 - 90 000 Nm³/h	2000 - 190 000 Nm³/h	50 - 2 000 Nm³/h
Rotor design	One piece	Segmented	One piece
Configuration	Model E: With casing Model O: Without casing	Model ES: With casing Model ER: Without casing	Without casing
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.)



MODEL E & O

Model E is a high-performing and lightweight rotary heat exchanger designed for air handling units, primarily for comfort ventilation applications. Typical temperature efficiencies are up to 90%.

Model E offers one of the most compact galvanized steel casings available on the market. This gives an exceptional efficiency compared to conventional rotary exchangers with the same casing dimensions.

Model E's performance is certified according to Eurovent, AHRI, and TüvSüd. Model E also meets several hygiene requirements.

Only the wheel, without casing, is called Model O.

One-Piece Rotor



TECHNICAL SPECIFICATIONS

MATRIX MATERIAL:

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

SEAL:

- Brush seal only
- Special brush seal

PLANE OF INTERSECTION:

- Vertical
- Horizontal

EXCHANGER ORIENTATION:

- Vertical
- Horizontal

HUB:

- Ball bearing with shaft
- · Ball bearing with shaft, corrosion resistant

AIRFLOW CAPACITY:

• 200 - 90 000 Nm³/h

MAX. ALLOWED PRESSURE DROP:

- 300 Pa for < Ø1600 mm
- 250 Pa for > Ø1600 mm

DRIVE EQUIPMENT:

- Constant drive 3 x 380-420V
- Constant drive 3 x 220-240V
- IBC VariMax NG step drive with modbus
- OJ DHRX + MRHX step drive with modbus
- Rotation detector

DRIVE BELT:

Power belt

OPTIONAL:

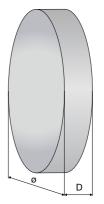
- Corrosion protected framework
- Inspection hatches
- Cable glands
- Covered casing
- Condensate tray
- Purge sector
- Cleanblade

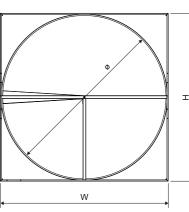
RECOMMENDED VALUES:

- 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)







NOTE:

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

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

^{*} The exact well height depends on the thickness of the material selected. See technical manual for exact dimensions.

^{**} Well height 1.4 is only available in Aluminum, Epoxy and Hybrid.

MODEL ES & ER

Model ES is a high-performing, segmented rotary heat exchanger with a light but robust welded aluminum framework for comfort and industrial ventilation applications. Typical temperature efficiencies are up to 90%.

Thanks to its segmented wheel, Model ES facilitates onsite installation or replacement in narrow spaces. It also provides for lower transportation costs. It is possible to make adjustments to the position of the shaft in all directions for a perfectly balanced fit in the air handling unit.

Model ES is certified according to Eurovent and AHRI. Model ES also meets several hygiene requirements.

Only the wheel, without casing, is called Model ER.

Both ES and ER units are delivered disassembled to varying degrees, depending on the selected assembly option.

Segmented Rotor



TECHNICAL SPECIFICATIONS

MATRIX MATERIAL:

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

SEAL:

Brush seal

PLANE OF INTERSECTION:

- Vertical
- Horizontal

EXCHANGER ORIENTATION:

Vertical

HUB:

- External bearing
- External bearing, corrosion resistant

AIRFLOW CAPACITY:

• 2 000 - 190 000 Nm³/h

MAX. ALLOWED PRESSURE DROP:

• 250 Pa

DRIVE EQUIPMENT:

- Constant drive 3 x 380-420V
- Constant drive 3 x 220-240V
- Drive & control
- Rotation detector

DRIVE BELT:

Power belt

ASSEMBLY:

- Half wheel + half wheel
- Assembled segments
- Dismantled segments

OPTIONAL:

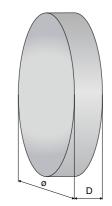
- Corrosion protected framework
- Casing type
- Cable glands
- Condensate tray
- Purge sector

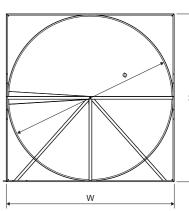
RECOMMENDED VALUES:

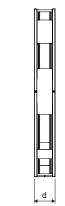
- Maximum differential pressure up to 600 Pa
- Recommended pressure drop between 100 200 Pa
- Air temperature limits between min. -40°C and max 65°C



DIMENSIONS (MM)







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

			'	
WHEEL		CASI	NG	
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. See technical manual for exact dimensions.

^{***} Well height 1.4 is only available in Aluminum, Epoxy and Hybrid.

MODEL EN

Several Wheel Widths

Model EN is a high-performing small rotary heat exchanger without casing, designed to be fitted directly inside an air handling unit or mounted in a cassette, primarily for residential ventilation applications. Typical temperature efficiencies are between 75-80%, but with design optimization, the efficiency can approach 90%.

The product holds a smaller diameter hub and bearing, which maximizes the airflow for small residential air handlers. Further, glued aluminum wrapping allows for high output and durability. Model EN is available in different depths, adding one more dimension for perfection in residential air handling design.

Model EN is certified according to Eurovent.



TECHNICAL SPECIFICATIONS

MATRIX MATERIAL:

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

AIRFLOW CAPACITY:

• 50 - 2 000 Nm³/h

MAX. ALLOWED PRESSURE DROP:

• 300 Pa

EXCHANGER ORIENTATION:

- Vertical
- Horizontal

HUB:

• Ball bearing with shaft

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

- * Available in steps of 1 mm increments. For larger diameters please contact us!
- ** The exact well height depends on the thickness of the material selected.
- *** On request only.
- **** Well height 1.4 is only available in Aluminum, Epoxy and Hybrid.

ROTARY HEAT EXCHANGER

OPTIONS

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.

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.

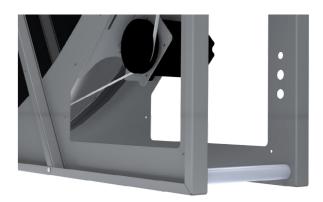
CLEAN BLADE

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

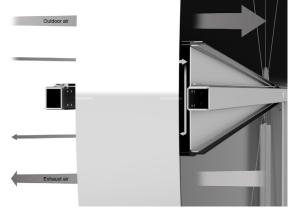
PURGE SECTOR & SPECIAL SEALS

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. A small amount of the supply air is used to blow out the minor amount of exhaust air that might have been trapped to ensure a fresh and clean air supply.











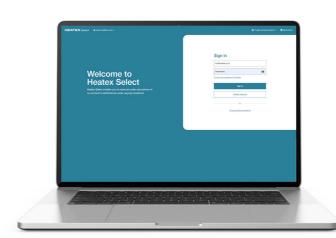
HEAT EXCHANGER CALCULATION

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 or as a DLL 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 airto-air heat exchanger.



MANUFACTURING & LOGISTICS

PRODUCTION & ENVIRONMENT

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.



HEALTH AND SAFTEY



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.

ENVIRONMENTAL FOCUS



29

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?

QUALITY PRODUCTS & TECHNICAL EXPERTISE

Our products are field-tested and designed to comply with all relevant building codes and regulations. We frequently send our products to independent labs worldwide for inspection and regularly evaluate product performance in our in-house testrig. Our skilled and experienced application engineers support you during the entire development process.

REPUTATION & CERTIFICATIONS

We have a well-established reputation for being honest and reliable and hold several certifications for product and operation quality worldwide, including Eurovent, AHRI, ISO 9001 and ISO 14001. Our products are proven to have high efficiency and a fast ROI. All Heatex products are custom-made and designed to match each customer's technical specifications.

Visit heatex.com for more information.









MEETING MINUTES

YOUR NOTES

