improving life at its core

CORE ENTHALPY AND HEAT EXCHANGERS

IMPROVING LIFE AT ITS CORE

Air is life. That makes it all the more important to always provide rooms with fresh air – wether at home, at work, at school and in public buildings. People who can breathe freely are demonstrably more productive, more creative and healthier. At CORE, we have set ourselves precisely one goal: To provide a better indoor climate through permanent fresh air, while saving energy and conserving resources.

We are pleased to provide you with an overview of our product portfolio in this brochure, so that you can take your time to decide which CORE enthalpy or heat exchanger is right for your ventilation system. One thing you can be sure of: Whatever the requirements of your ventilation system, you will always find the right enthalpy or heat exchanger with us. For fresh air and a healthier life.

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WE ARE CORE

Innovative solutions for a healthy indoor climate and better quality of life

Our vision is the commitment to highest quality heat exchangers and our passion for fresh air. Since 1994, as a global technology leader we have enabled our customers to produce high-performance ventilation systems with quality enthalpy and heat exchangers.

Today, more than 400 employees at four international sites in North America, Europe and Asia dedicate their efforts to healthy indoor air and a more sustainable climate. Our solutions focus on energy efficiency, comfort and health.

Through innovative technologies and global partnerships, we provide new ways to support our customers in choosing the best solution.

We rely on both automated and manual production. This enables CORE to produce large quantities, but also to fulfill individual customer orders in accordance with our high-quality standards.

improving life at its core

„At CORE, we love manufacturing products that make people's lives healthier and the world a more sustainable place.“

INNOVATION MEETS SUSTAINABILITY

This is how sustainable good indoor air can be

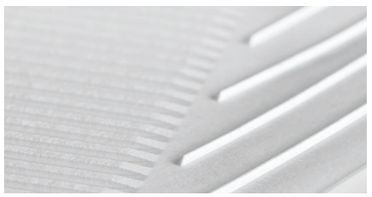
Sustainable products for today and tomorrow
At CORE, we think holistically, especially when it comes to a better climate. Our enthalpy and heat exchangers are designed not only to optimize the indoor climate in buildings, but also to help save energy. We take great care to ensure that our products themselves, as well as their manufacture and use, are sustainable. Efficient and resource-saving production processes and innovative energy recovery contribute to environmental and climate protection.

By using selected materials, patented technologies and certified processes, we ensure that the CORE enthalpy and heat exchangers are not only of the highest quality, but also very durable.

Innovative solutions and a global approach
In the face of increasingly extreme climatic conditions and stricter building regulations, we are constantly working on innovations. Using less material in our heat exchangers while maintaining performance and increasing durability are just a few examples of our progress. CORE's international presence and global approach allows us to adapt our products globally to regional markets and individual requirements.

For a future worth living
CORE lives and breathes sustainability in four dimensions: application, quality, production and employees. We are actively committed to a carbon-neutral future and promote healthy, sustainable business development. We combine innovation and sustainability in a pioneering concept for a future worth living.

Formable membrane
A special polymer membrane in our new enthalpy exchangers offers additional benefits. Because of its formability, it has an extra-large membrane surface area. The molded material creates a channel structure that provides even more surface area for heat and moisture transfer. This results in efficient, lightweight and hygienic enthalpy exchangers that reliably prevent the transmission of viruses, bacteria and mold spores in the air supply.



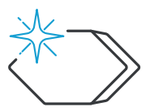
Blue Dot
Our C-HRV 366-LL heat exchanger, "Blue Dot", offers a lower pressure drop while maintaining the same performance by using less material. In this way, we provide people with fresh air and at the same time increase the sustainability of our products.

CORE test laboratories
In our high-tech laboratories, we test enthalpy and heat exchangers as well as new materials and ventilation systems, even under extreme climatic conditions.

OUR QUALITY FEATURES

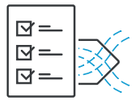
Highest quality standards for best results

Since 1994, our enthalpy and heat exchangers have been designed to provide the highest quality air. They are characterized by exceptional performance values and a particularly long service life. The secret? Quality without compromise.

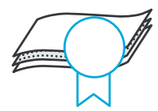


Selected materials
Our enthalpy and heat exchangers impress with their first-class finish and reliability. High-quality materials are the basis for this performance. They meet the exacting requirements we set for our products.

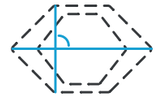
Certified processes
Our production is ISO9001 certified, a globally recognized standard for quality assurance. This means you can rest assured that our products undergo seamless quality management.



100% tightness testing
We test all our products for leakage. This allows us to guarantee that each and every one of our enthalpy and heat exchangers has the best possible heat recovery rates.



Patented technology
We ensure the performance of our products ourselves with in-house innovations. Our specially developed polymer membrane technology in our enthalpy exchangers, effectively prevents the recirculation of bacteria and viruses through air.



State-of-the-art production standards
We rely on both automated and manual production. This enables us to produce high volumes, but also to complete individual customer orders while maintaining our quality standards.

Extensive certifications
Our enthalpy and heat exchangers meet all current standards for use in both commercial and residential buildings, while also holding extensive hygiene certifications.

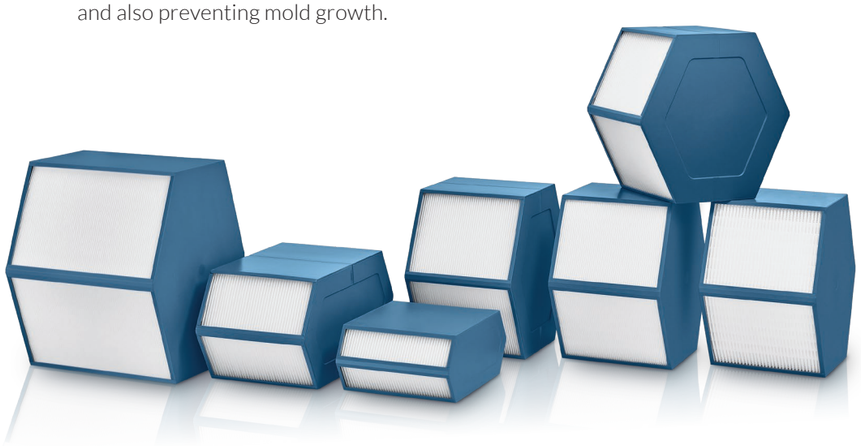
OUR PORTFOLIO

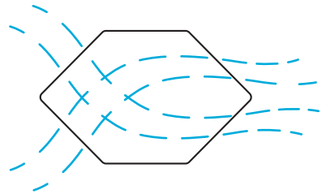
The right enthalpy or heat exchanger for your ventilation system

Stricter building regulations and increasing demands for energy savings make creating an optimal indoor climate a challenging task. In addition to the well-being of residents and users, efficiency and sustainability play an increasingly important role. Our enthalpy and heat exchangers meet precisely these requirements for modern ventilation systems.

All of our products are characterized by high transfer performance. The CORE polymer membrane technology in our enthalpy exchangers ensures hygienic moisture transfer, blocking even the smallest organisms – such as viruses – and also preventing mold growth.

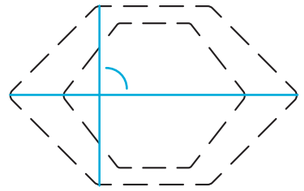
Our counterflow heat exchangers improve the indoor climate in a wide variety of buildings, including residential, office, hotel, school, and greenhouse applications. Whatever the requirements of your ventilation system, whether large or small, centralized or decentralized, one of our numerous product variants is always the right solution for you. If you have special requirements, we can also offer you a customized version.





Counterflow heat exchangers

C-HRV heat exchangers
C-ERV enthalpy exchangers
F-ERV enthalpy exchangers
also for large ventilation systems



Customized solutions

Bespoke enthalpy and heat exchangers for your ventilation system

COMFORTABLE ROOM TEMPERATURE WITH HRV HEAT EXCHANGERS

High heat recovery rates with impressive airflow performance

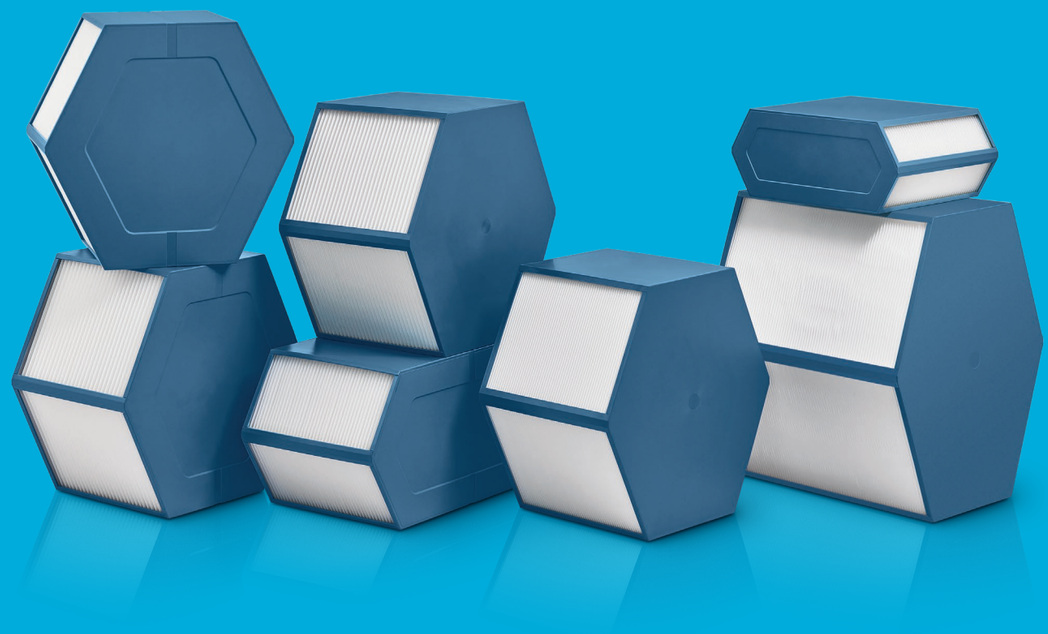
C-HRV and HRV counterflow heat exchangers transfer heat energy with high efficiency. Extract air and outdoor air flow through the ducts in opposite directions.

Warm extract air flows through fine channels to the outside. The outdoor air, which is cold in the winter, is preheated by the warmer indoor extract air. The extract air and the outdoor air flow through the parallel plates (counterflow principle).

With extremely high heat recovery rates, impressive airflow performance and a comprehensive range of product specifications, our HRV heat exchangers are the ideal solution for any ventilation system with energy recovery, whether for centralized or decentralized ventilation applications.

Advantages at a glance:

- Excellent transmission values
- Wide range of designs and sizes
- Washable and hygienically certified
- Long product life
- Fire class E according to DIN EN 13501-1



C-HRV 366-S

High performance, long life and low maintenance

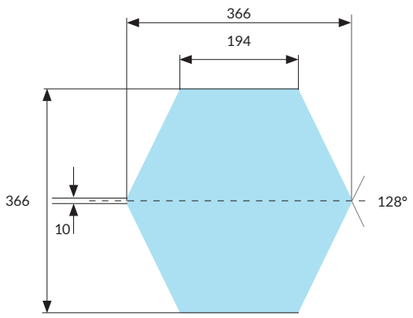
Description

The C-HRV 366-S high performance counterflow heat exchanger is our most popular heat exchanger. Maximum efficiency with minimum pressure drop due to our unique and patented channel design. The C-HRV 366-S offers the highest quality, long life and low maintenance.

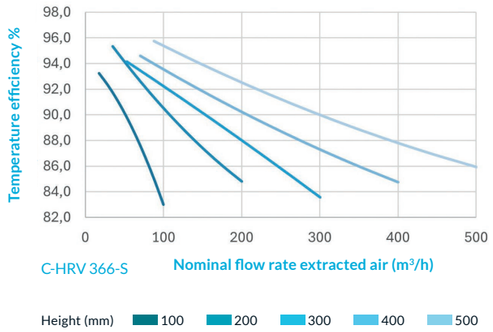
Product benefits

- Cleanable, hygienic, mold and bacteria resistant
- Standard: Condensation drain holes
- Options: Rib, fire protection grid
- Available heights: 90 – 500 mm (in 5 mm steps)
- Leakage: <1% of nominal flow rate, 100% leakage tested
- Material resistance: -20 °C – +50 °C

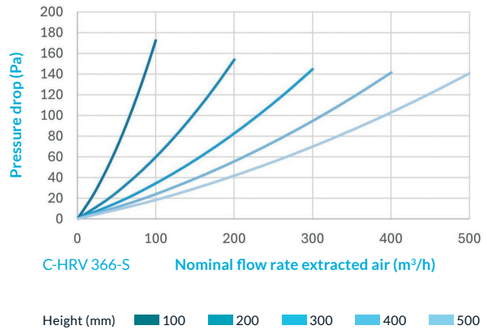
Product dimensions (mm)



Temperature efficiency



Pressure drop



Based on test conditions following NEN-EN 308:2022 (intake air: temp. 5 °C, humidity 70 %; extracted air: 25 °C, humidity 25 %)
Calculate your specific conditions with our CORE Online Calculator.

Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

Weights (kg)

Typ	kg
HRV366-H100-S	1,73
HRV366-H200-S	3,01
HRV366-H300-S	4,32
HRV366-H400-S	5,63
HRV366-H500-S	6,95

C-HRV 366-LL

High performance and maximum sustainability

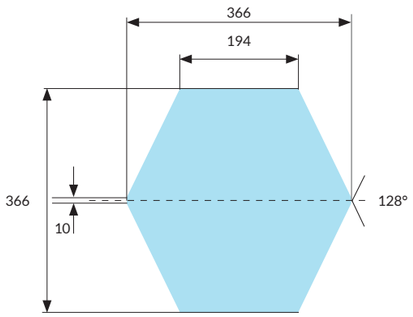
Description

The “Blue Dot” C-HRV 366-LL counterflow heat exchanger is the next step in the development of sustainable products. An innovative channel geometry offers lower pressure drop while maintaining maximum thermal efficiency by using less material.

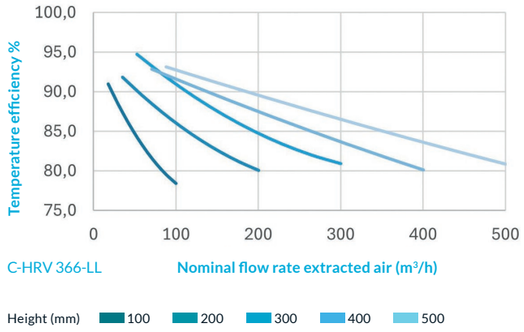
Product benefits

- Cleanable, hygienic, mold and bacteria resistant
- Standard: Condensation drain holes
- Options: Rib, fire protection grid
- Available heights: 90 – 500 mm (in 5mm steps)
- Low pressure drop
- Leakage: <1% of nominal flow rate, 100% leakage tested
- Material resistance: -20 °C – +50 °C

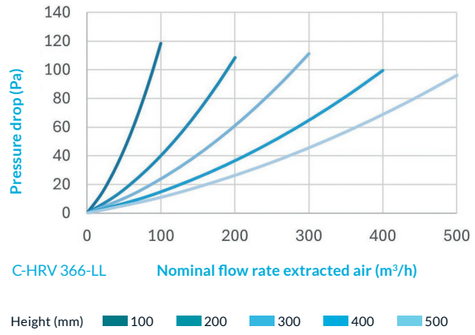
Product dimensions (mm)



Temperature efficiency



Pressure drop



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Standards

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  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

Weights (kg)

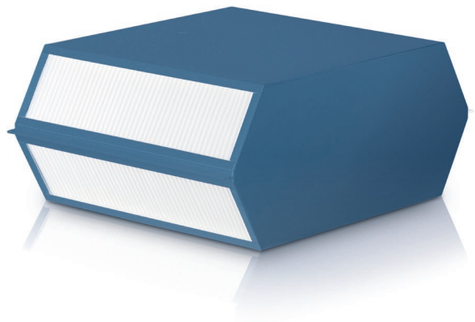
Typ	kg
HRV366-H100-LL	1,33
HRV366-H200-LL	2,19
HRV366-H300-LL	3,05
HRV366-H400-LL	3,97
HRV366-H500-LL	4,84

C-HRV 313-L

High efficiency and flat design

Description

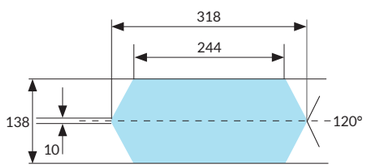
The C-HRV 313-L counterflow heat exchanger has a low pressure drop with moderate thermal efficiency. Its narrow width makes it ideal for ceiling installation. The C-HRV 313-L offers high quality, long life and low maintenance and can be custom designed to meet your specific needs.



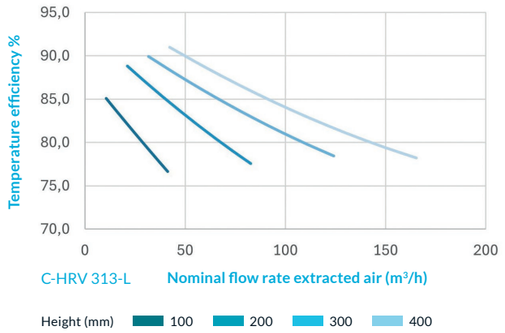
Product benefits

- Cleanable, hygienic, mold and bacteria resistant
- Standard: Condensation drain holes
- Option: Rib, Fire protection grid
- Available heights: 50 – 400 mm (in 5mm steps)
- Leakage: <1% of nominal flow rate, 100% leakage tested
- Material resistance: -20 °C – +50 °C

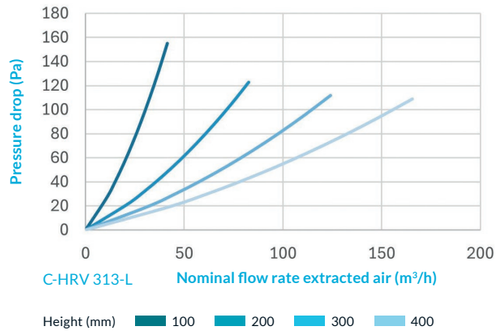
Product dimensions (mm)



Temperature efficiency



Pressure drop



Based on test conditions following NEN-EN 308:2022 (intake air: temp. 5 °C, humidity 70 %; extracted air: 25 °C, humidity 25 %)
Calculate your specific conditions with our CORE Online Calculator.

Standards

- Hygiene Standard
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  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

Weights (kg)

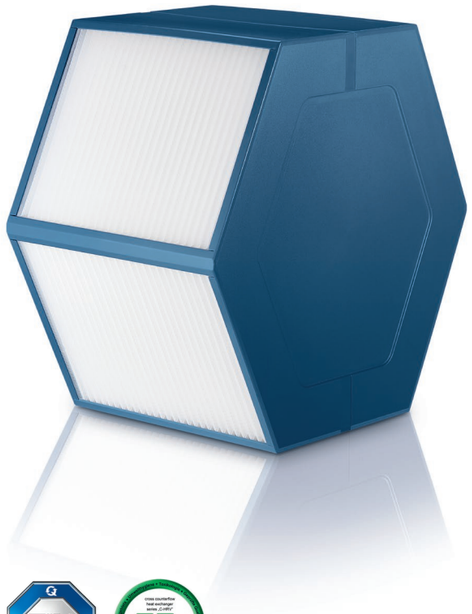
Typ	kg
HRV313-H100-LR	0,64
HRV313-H200-LR	1,12
HRV313-H300-LR	1,61
HRV313-H400-LR	2,09

HRV RC160

Minimal pressure drop and lowest noise level

Description

The HRV RC160 heat exchanger is the ideal solution when minimal pressure drop and low noise levels are required. The HRV RC160 offers the same heat recovery as other high performance heat exchangers on the market, but with significantly lower energy consumption and therefore a more comfortable noise level in all seasons.

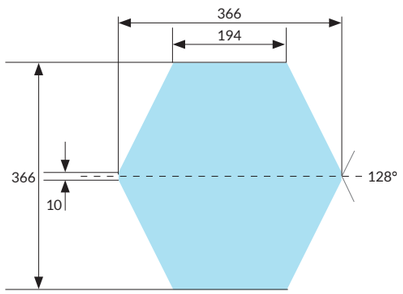


Product benefits

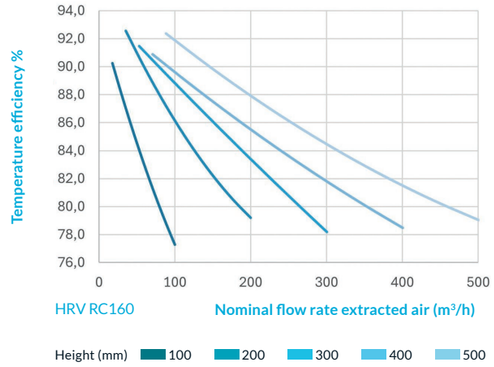
- Special Polystyrene, cleanable, hygienic, mold and bacteria resistant
- Options: Rib, condensation drain holes, fire protection grid
- Available heights: 100 – 700 mm* (in 5 mm steps)
- Leakage: < 1% of nominal flow rate, 100% leakage tested
- Material resistance: -30 °C – +50 °C

* For heights above 500 mm, please contact us.

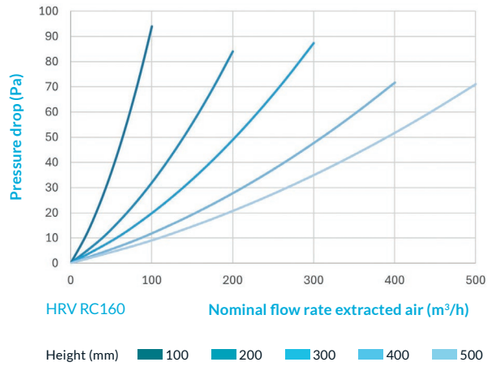
Product dimensions (mm)



Temperature efficiency



Pressure drop



Based on test conditions following NEN-EN 308:2022 (Environmental conditions: temp. 5°C, humidity 70%; inside conditions: 25°C, humidity 25%)
Calculate your specific conditions with our CORE Online Calculator.

Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

Weights (kg)

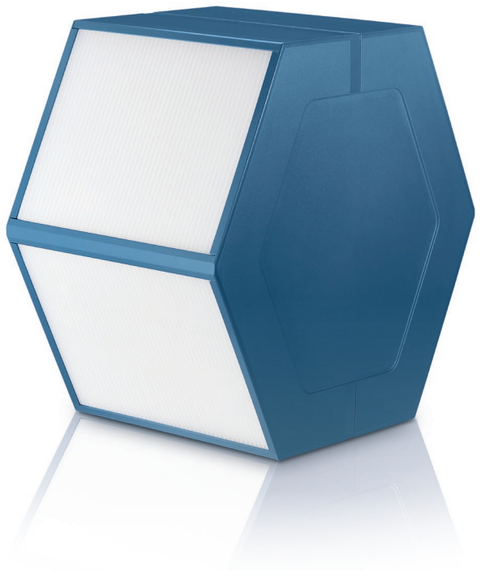
Typ	kg
RC160-100	1.31
RC160-200	2.08
RC160-300	2.85
RC160-400	3.62
RC160-500	4.39

HRV RU160

The Ultimate in efficiency

Description

The HRV RU160 is the greatest asset when heat recovery efficiency is the main priority. This means that the HRV RU160 is an energy-saving component that can easily help your ventilation unit to achieve an A+ energy label. Energy saving was the starting point in the development of the HRV RU160. This was achieved by focusing on heat transfer and maximizing efficiency without excessive pressure drop. In the optional PET housing, the RU160 has UL certification.

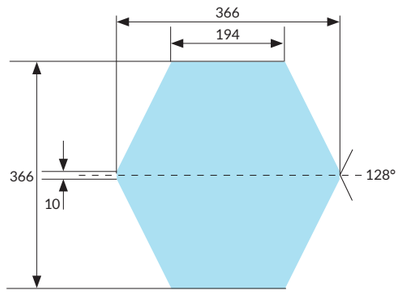


Product benefits

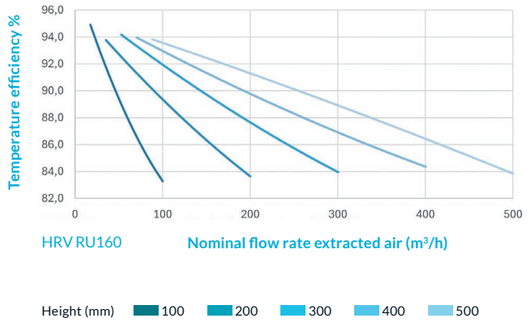
- Special Polystyrene, cleanable, hygienic, mold and bacteria resistant
- Options: Rib, condensation drain holes, fire protection grid, PET housing
- Available heights: 100 – 700 mm* (in 5 mm steps)
- Leakage: <1% of nominal flow rate, 100% leakage tested
- Material resistance: -30 °C – +50 °C

* For heights above 500 mm, please contact us.

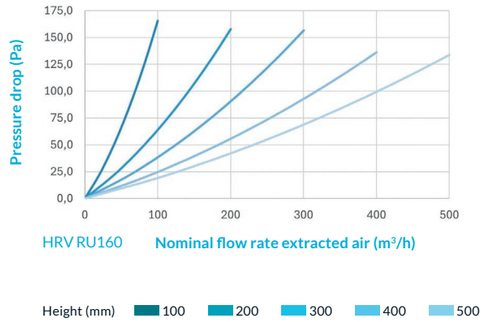
Product dimensions (mm)



Temperature efficiency



Pressure drop



Based on test conditions following NEN-EN 308:2022 (Environmental conditions: temp. 5°C, humidity 70%; inside conditions: 25°C, humidity 25%)
Calculate your specific conditions with our CORE Online Calculator.

Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
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  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015
- UL Standard: UL1812 / UL1995 conform

Weights (kg)

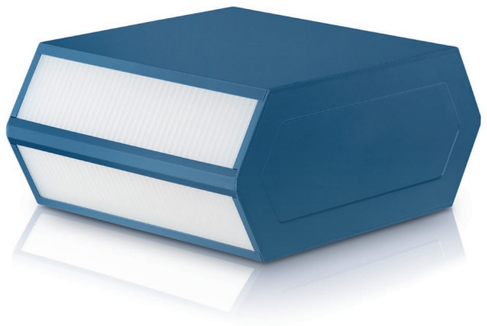
Typ	kg
RU160-100	1.59
RU160-200	2.63
RU160-300	3.68
RU160-400	4.72
RU160-500	5.77

HRV RS220

Compact and powerful

Description

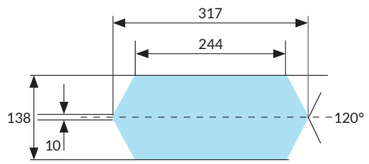
The HRV RS220 is our smallest heat exchanger. It is specially designed for air-to-air heat recovery in single room balanced ventilation systems for homes and offices to maximize indoor comfort and air quality while substantially reducing basic energy requirements and costs.



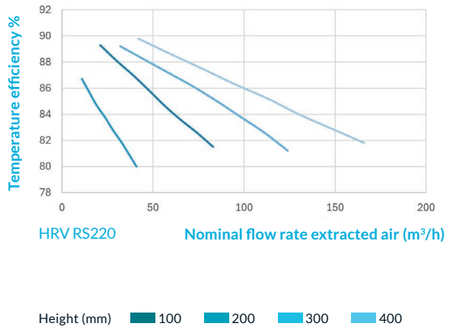
Product benefits

- Special Poly Styrene, cleanable, hygienic, mold and bacteria resistant
- Options: Rib, condensation drain holes, fire protection grid
- Available heights: 100 – 400 mm (in 5 mm steps)
- Leakage: <1% of nominal flow rate, 100% leakage tested
- Material resistance: -20 °C – +50 °C

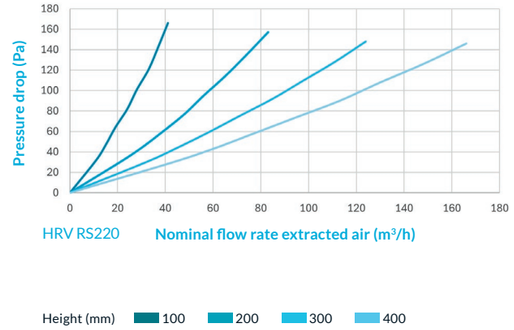
Product dimensions (mm)



Temperature efficiency



Pressure drop



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  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

Weights (kg)

Typ	kg
RS220-100	1.10
RS220-200	1,98
RS220-300	2,88
RS220-400	3,14

HRV RU300

Highest efficiency, compact dimensions

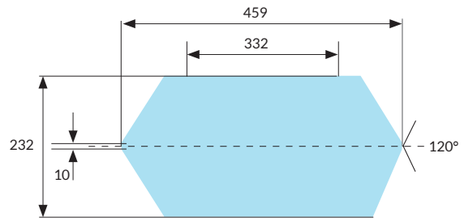
Description

The high-performing HRV RU300 is designed for applications where overall dimensions and efficiency plays a crucial role. To balance the high quality and limited freedom of dimensioning, the product is elongated to decrease thickness and is designed with an optimized channel design. In addition, our resource-efficient manufacturing ensures optimal performance.

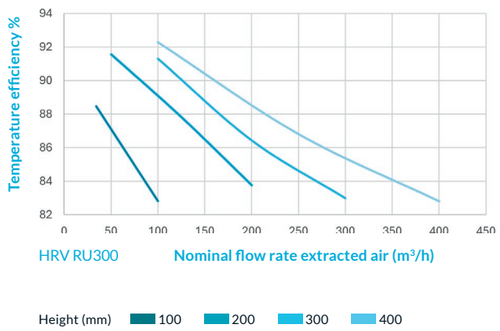
Product benefits

- Special Polystyrene, cleanable, hygienic, mold and bacteria resistant
- Options: Rib, condensation drain holes, fire protection grid
- Available heights: 100 – 500 mm (in 5 mm steps)
- Leakage: < 1 % of nominal flow rate, 100 % leakage tested
- Material resistance: -30 °C – +50 °C

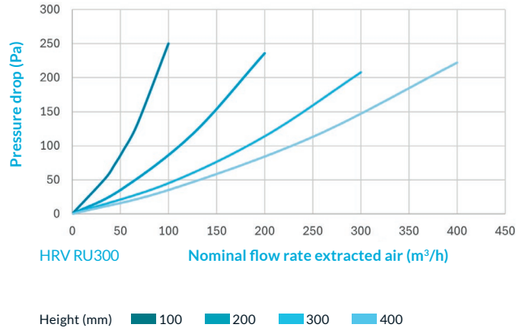
Product dimensions (mm)



Temperature efficiency



Pressure drop



Based on test conditions following NEN-EN 308:2022 (Environmental conditions: temp. 5°C, humidity 70%; inside conditions: 25°C, humidity 25%)
Calculate your specific conditions with our CORE Online Calculator.

Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

Weights (kg)

Typ	kg
RU300-100	1,40
RU300-200	2.50
RU300-300	3.60
RU300-400	4.70
RU300-500	5.80

ENHANCED WELL-BEING WITH C-ERV ENTHALPY EXCHANGERS

Perfect energy transfer and germ-free air

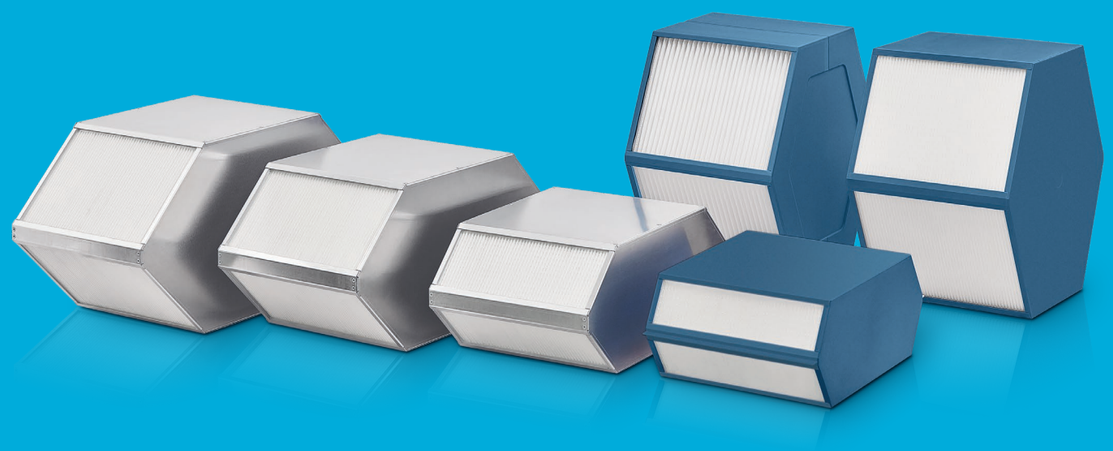
C-ERV counterflow enthalpy exchangers use unique CORE polymer membrane technology. Thanks to this innovation, both heat and humidity are transferred to the fresh supply air.

The membrane enables perfect energy transfer: Extract air and outdoor air flow in opposite directions through the channels of the enthalpy exchanger.

While the warm extract air flows through fine channels to the outside, the cold outdoor air is tempered by the parallel membrane plates. To cool the warm air, the same principle is used in the opposite direction. As a major advantage, pathogens, odors and various pollutants are released to the outside when the air is exchanged.

Advantages at a glance:

- In addition to heat, humidity is also transferred
- Reduces fluctuations in humidity
- Integrated membrane blocks viruses, bacteria or mold spores in the supply air
- Wide range of designs and sizes
- Highly sensitive and latent transfer capacity
- No accumulation of condensation due to design
- Lower freezing limits and higher overall efficiency
- Easy to clean and maintain

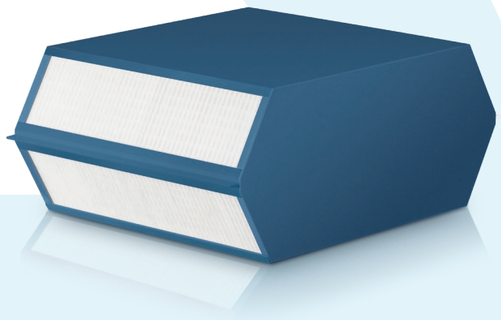


C-ERV 313

High efficiency and flat design

Description

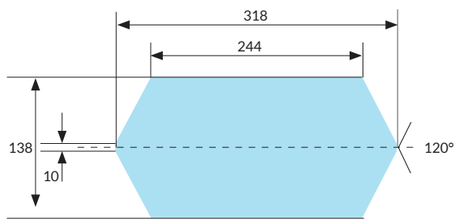
The C-ERV 313 is characterized by its compact design. This makes it ideal for use in ceilings. This enthalpy exchanger impresses with its efficiency. Its special membrane enables the transfer of moisture. Therefore the living comfort can be improved.



Product benefits

- Manufactured using a mold and bacteria resistant, cleanable polymer membrane
- Standard: Rib
- Available heights: 50 – 400 mm (in 5 mm steps)
- Leakage: < 1% of nominal flow rate, 100 % leckage tested
- Material resistance: -20 °C – +50 °C

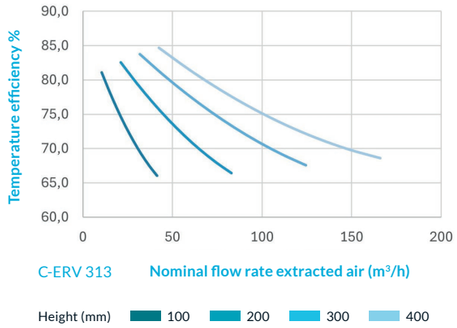
Product dimensions (mm)



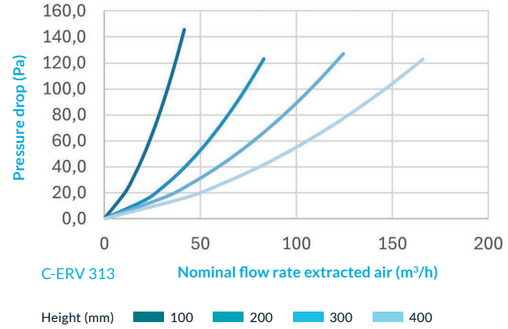
Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

Temperature efficiency

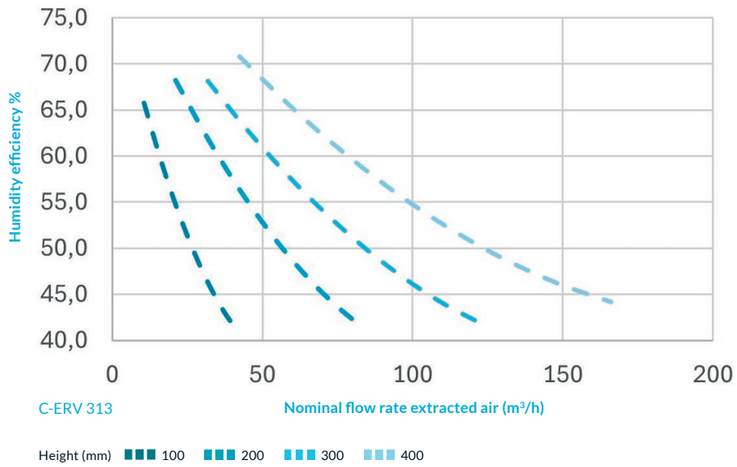


Pressure drop



Based on test conditions following NEN-EN 308:2022 (Environmental conditions: temp. 5°C, humidity 70%; inside conditions: 25°C, humidity 50%)
Calculate your specific conditions with our CORE Online Calculator.

Humidity efficiency



Weights (kg)

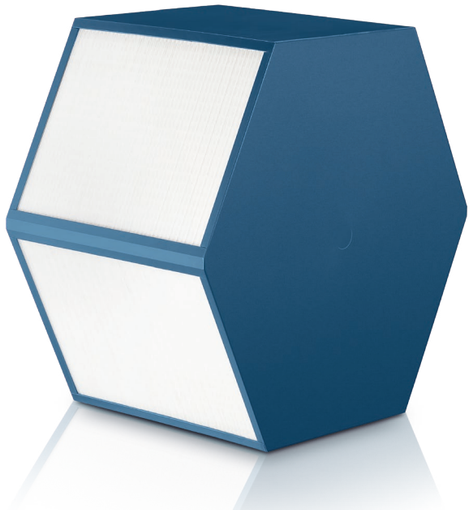
Typ	kg
ERV313-H100-R	1,10
ERV313-H200-R	2,08
ERV313-H300-R	3,05
ERV313-H400-R	4,04

C-ERV 366

Highest recovery rates for heat and moisture

Description

The C-ERV 366 is a high-performing counterflow enthalpy exchanger with the most popular dimensions. Due to our unique channel design the C-ERV 366 has maximum efficiency and its special membrane allows the transfer of humidity. Therefore the living comfort will be improved. The C-ERV 366 is made with the highest quality, a long life and low maintenance.



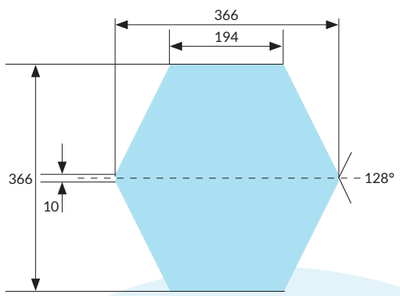
Product benefits

- Manufactured using a mold and bacteria resistant, cleanable polymer membrane
- Option: Rib
- Available heights: 90 – 500 mm (in 5mm steps)
- Leakage: <1% of nominal flow rate, 100% leakage tested
- Material resistance: -20 °C – +50 °C

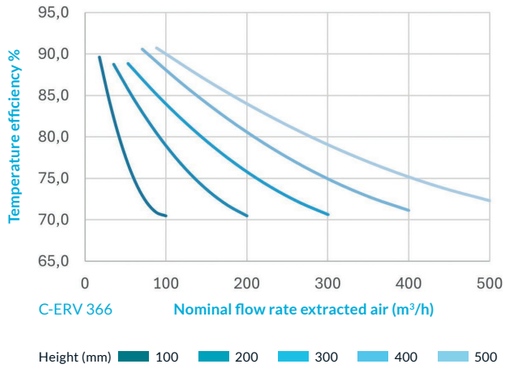
Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

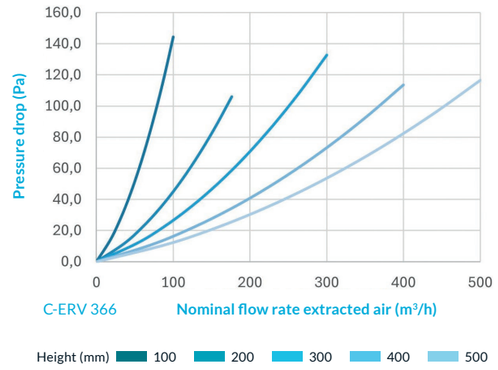
Product dimensions (mm)



Temperature efficiency

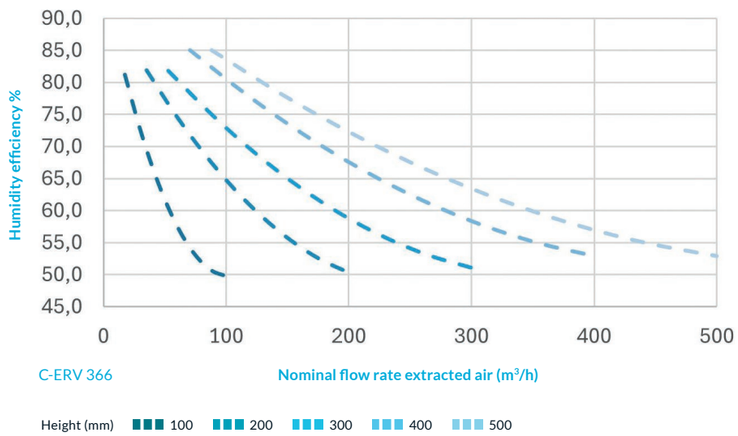


Pressure drop



Based on test conditions following NEN-EN 308:2022 (intake air: temp. 5°C, humidity 70%; extracted air: 25°C, humidity 50%)
Calculate your specific conditions with our Core Online Calculator.

Humidity efficiency



Weights (kg)

Typ	kg
ERV366-H100-S	2,42
ERV366-H200-S	4,49
ERV366-H300-S	6,50
ERV366-H400-S	8,61
ERV366-H500-S	10,69

C-ERV 389

Highest quality in a compact design

Description

The C-ERV 389 is a highly versatile product, housed in an aluminum casing. It is a reliable solution for use in both centralized and decentralized ventilation systems. With its even more compact and flatter design, the C-ERV 389 is a popular choice for installations in the outer wall of a building to save space or for ceiling/wall installations that require a very flat design. Additionally the special polymer membrane allows moisture transfer.

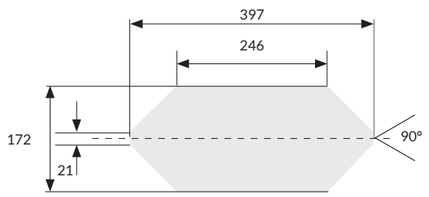
Product benefits

- Manufactured using a mold and bacteria resistant, cleanable polymer membrane
- Option: Rib
- Available heights: 50 – 500 mm (in 5 mm steps)
- Leakage: < 1% of nominal flow rate, 100% leakage tested
- Material resistance: -20 °C – +50 °C

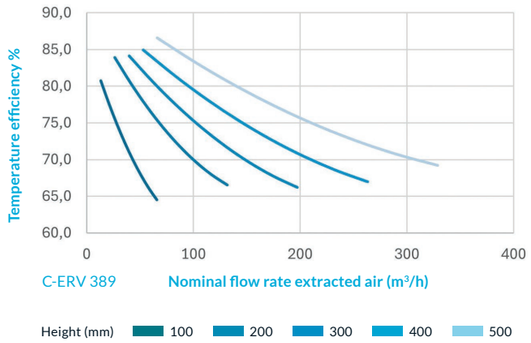
Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

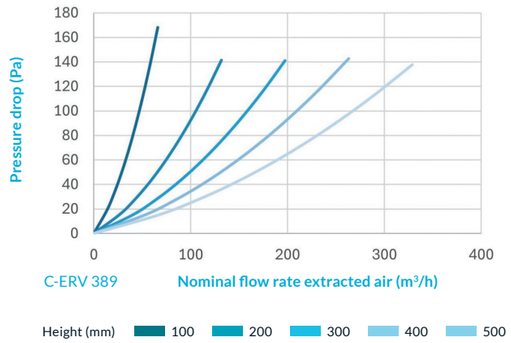
Product dimensions (mm)



Temperature efficiency

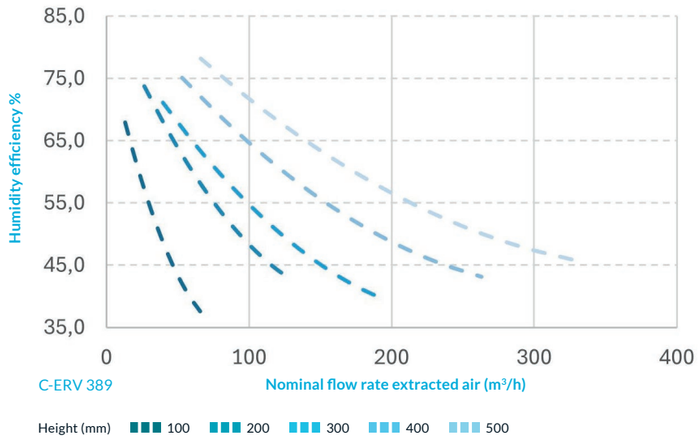


Pressure drop



Based on test conditions following NEN-EN 308:2022 (intake air: temp. 5 °C, humidity 70 %; extracted air: 25 °C, humidity 50 %)
Calculate your specific conditions with our CORE Online Calculator.

Humidity efficiency



Weights (kg)

Typ	kg
ERV389-H100-S	1,69
ERV389-H200-S	3,04
ERV389-H300-S	4,41
ERV389-H400-S	5,78
ERV389-H500-S	7,13

C-ERV 446

Slim heat exchanger for many possible applications

Description

The C-ERV 446, with its aluminum housing, meets the highest demands in terms of quality, performance, and lifetime, similar to the established C-ERV 366. Our unique patented channel design ensures maximum efficiency. The special membrane allows the transfer of humidity. The C-ERV 446 differs mainly in its standard dimensions and was developed to fulfill customer requirements.

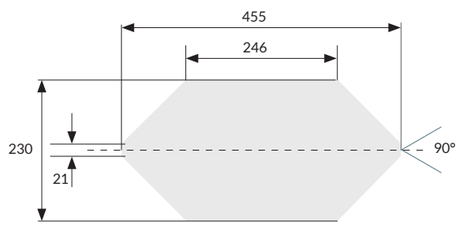
Product benefits

- Manufactured using a mold and bacteria resistant, cleanable polymer membrane
- Option: Rib
- Available heights: 50 – 500 mm (in 5mm steps)
- Leakage: <1% of nominal flow rate, 100% leakage tested
- Material resistance: -20 °C – +50 °C

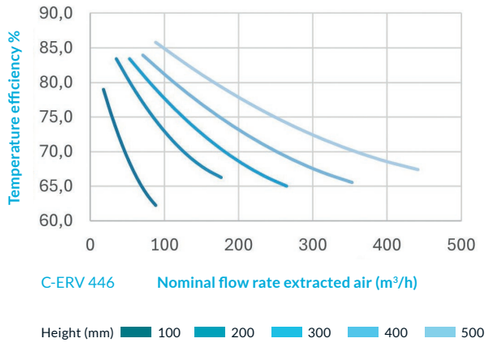
Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

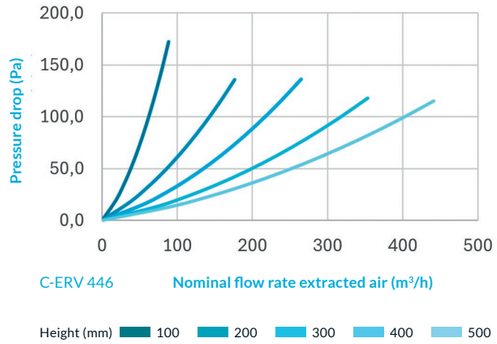
Product dimensions (mm)



Temperature efficiency

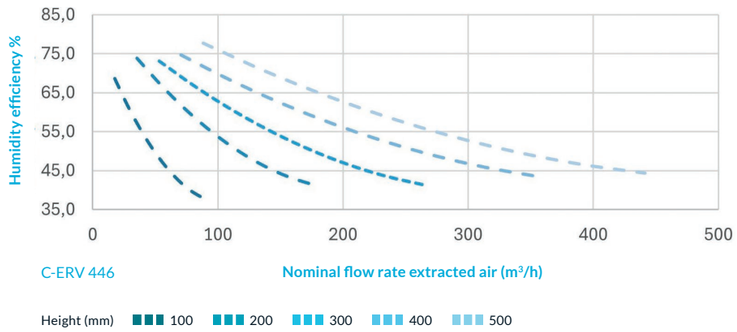


Pressure drop



Based on test conditions following NEN-EN 308:2022 (intake air: temp. 5 °C, humidity 70 %; extracted air: 25 °C, humidity 50 %)
Calculate your specific conditions with our CORE Online Calculator.

Humidity efficiency



Weights (kg)

Typ	kg
ERV446-H100-S	2,43
ERV446-H200-S	4,47
ERV446-H300-S	6,41
ERV446-H400-S	8,41
ERV446-H500-S	10,85

C-ERV 488

Special design for special applications

Description

The C-ERV 488, with its aluminum housing, is a high-performing counterflow enthalpy exchanger. Its unique patented channel design ensures maximum efficiency. The special membrane allows the transfer of humidity. The C-ERV 488 is characterized by the highest quality, a long life and low maintenance. The C-ERV 488 differs mainly in its standard dimensions and was developed to fulfill customer requirements.

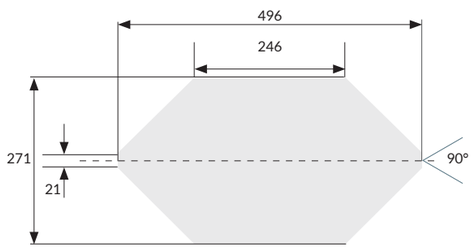
Product benefits

- Manufactured using a mold and bacteria resistant, cleanable polymer membrane
- Option: Rib
- Available heights: 50 – 500 mm (in 5mm steps)
- Leakage: < 1% of nominal flow rate, 100% leakage tested
- Material resistance: -20 °C – +50 °C

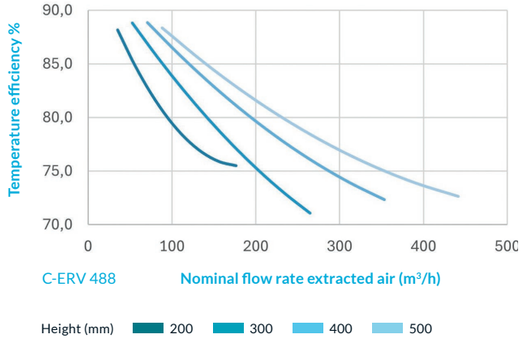
Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015

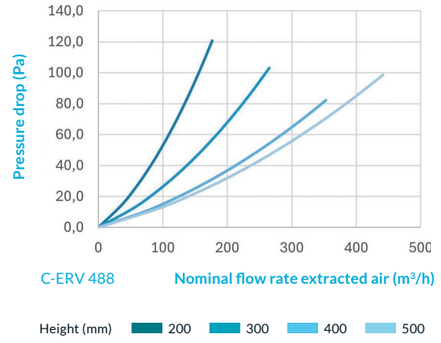
Product dimensions (mm)



Temperature efficiency

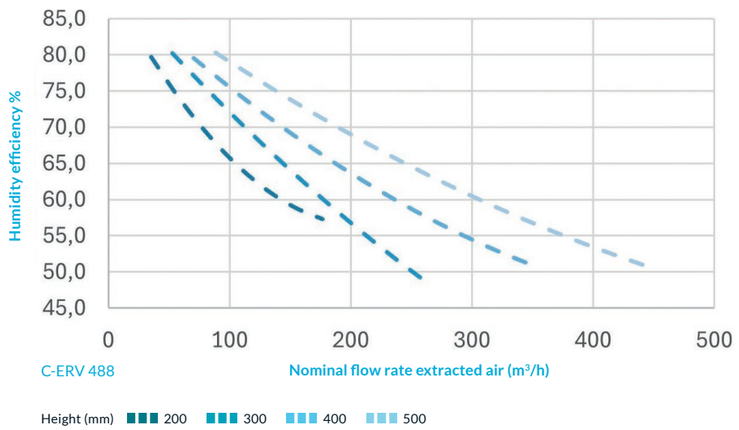


Pressure drop



Based on test conditions following NEN-EN 308:2022 (intake air: temp. 5°C, humidity 70%; extracted air: 25°C, humidity 50%)
Calculate your specific conditions with our CORE Online Calculator.

Humidity efficiency



Weights (kg)

Typ	kg
ERV488-H100-S	2,68
ERV488-H200-S	4,91
ERV488-H300-S	7,03
ERV488-H400-S	9,22
ERV488-H500-S	11,38

IMPRESSIVE EFFICIENCY WITH F-ERV ENTHALPY EXCHANGERS

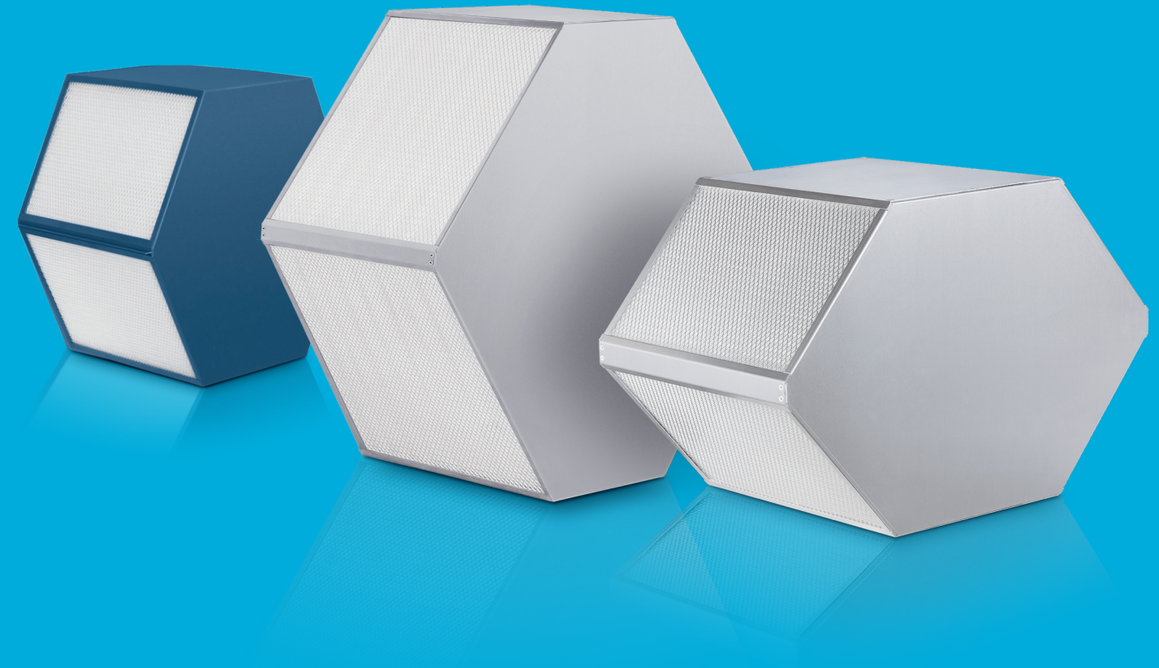
The future is formable

The new innovative F-ERV counterflow enthalpy exchangers are characterized by their impressive efficiency.

Equipped with our revolutionary formable polymer membrane, they are also lighter and easier to handle than conventional enthalpy exchangers of this size.

Advantages at a glance:

- Innovative technology
- Higher efficiency
- Lightweight design
- Easy handling
- Better recycling conditions



F-ERV 529

Lightweight with high performance

FORMABLE MEMBRANE

Description

The F-ERV 529 is the best solution for larger air volumes and maximum efficiency. Equipped with our revolutionary formable polymer membrane technology, the F-ERV 529 combines the benefits of an enthalpy exchanger with the flexibility and efficiency of a heat exchanger. It is capable of transferring moisture while being significantly lighter than other exchangers of its size. It is also characterized by its quality and long life. With its aluminum housing, the F-ERV 529 also has UL certification.

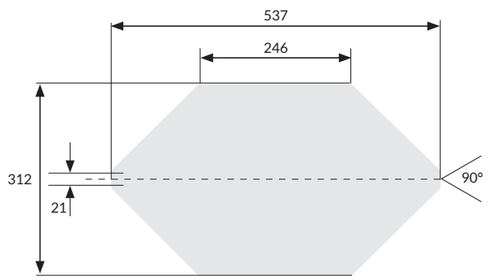
Product benefits

- Manufactured using a mold and bacteria resistant, cleanable formable polymer membrane
- Standard: Fire protection grid
- Options: Rib
- Available heights: 50 – 700 mm (in 5 mm steps)
- Leakage: <1% of nominal flow rate, 100 % leakage tested
- Material resistance: -20 °C – +50 °C

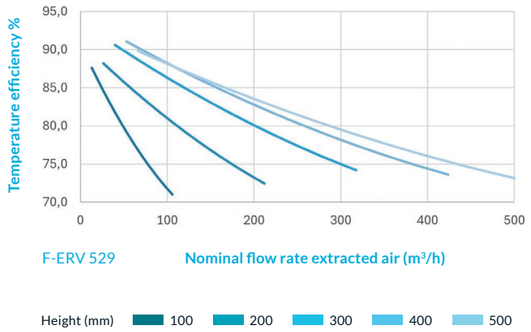
Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015
- UL Standard: UL723

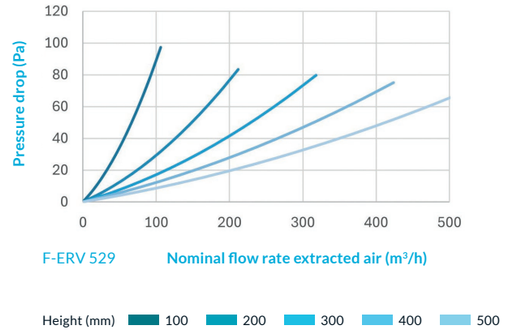
Product dimensions (mm)



Temperature efficiency

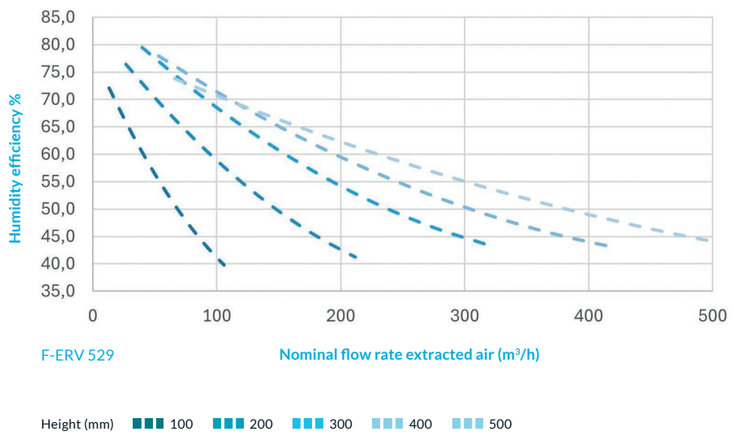


Pressure drop



Based on test conditions following NEN-EN 308:2022 (Environmental conditions: temp. 5°C, humidity 70%; inside conditions: 25°C, humidity 50%)
Calculate your specific conditions with our CORE Online Calculator.

Humidity efficiency



Weights (kg)

Typ	kg
F-ERV529-H100-G	1,87
F-ERV529-H200-G	2,87
F-ERV529-H300-G	3,87
F-ERV529-H400-G	4,90
F-ERV529-H500-G	5,92

F-ERV 750

Maximum efficiency for larger air volumes

FORMABLE MEMBRANE

Description

The F-ERV 750 is the best solution for larger air volumes and maximum efficiency. It is often used for school ventilation. Equipped with our revolutionary formable polymer membrane technology, the F-ERV 750 combines the benefits of an enthalpy exchanger with the flexibility and efficiency of a heat exchanger. It is capable of transferring moisture while being significantly lighter than other exchangers of its size. With its aluminum housing, the F-ERV 750 also has UL certification.

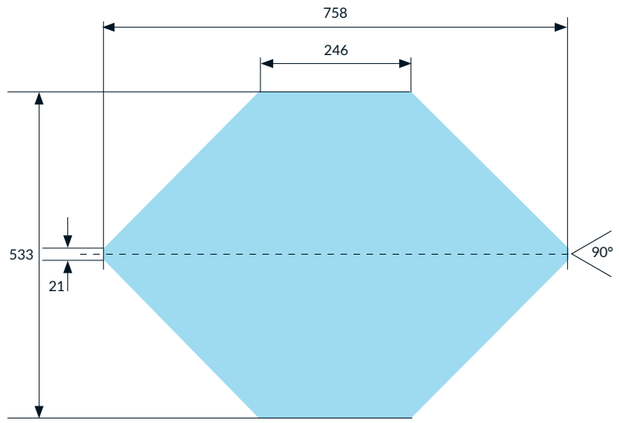
Product benefits

- Manufactured using a mold and bacteria resistant, cleanable formable polymer membrane
- Available heights: 100 – 700 mm (in 5mm steps)
- Standard: Fire protection grid
- Leakage: <1% of nominal flow rate, 100% leakage tested
- Material resistance: -20°C – +50°C

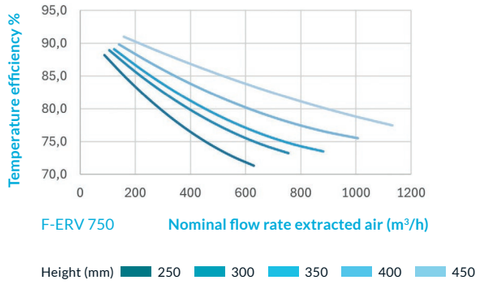
Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015
- UL Standard: UL723

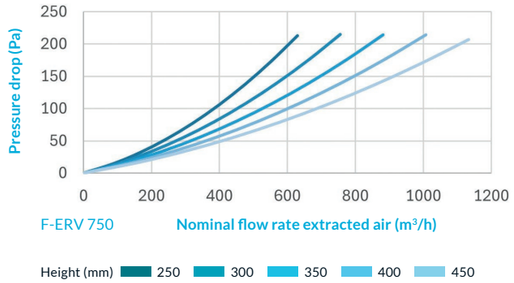
Product dimensions (mm)



Temperature efficiency

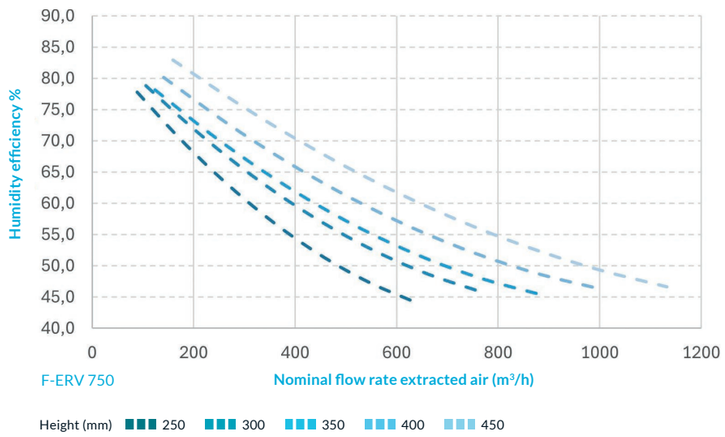


Pressure drop



Based on test conditions following NEN-EN 308:2022 (Environmental conditions: temp. 5°C, humidity 70%; inside conditions: 25°C, humidity 50%)
Calculate your specific conditions with our CORE Online Calculator.

Humidity efficiency



Weights (kg)

Typ	kg
F-ERV750-H100-G	3.59
F-ERV750-H200-G	5.44
F-ERV750-H300-G	7.20
F-ERV750-H400-G	9.20
F-ERV750-H500-G	10.59

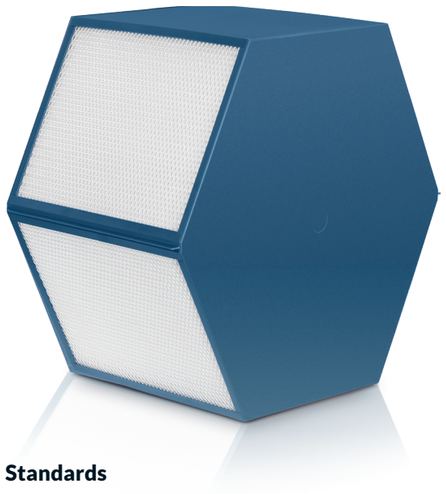
F-ERV 366

Lightweight enthalpy exchanger with maximum efficiency

FORMABLE MEMBRANE

Description

Equipped with revolutionary formable polymer membrane technology, the F-ERV 366 combines the benefits of an enthalpy exchanger with the flexibility and efficiency of a heat exchanger (C-HRV). The formable membrane of the F-ERV 366 enhances heat and humidity transfer, resulting in improved overall efficiency. This lightweight enthalpy exchanger offers more design and customization options for a wide range of applications. Sustainability without compromise: less material, shorter production steps and the recyclability of the membranes contribute to an improvement in environmental conditions. With an aluminum housing, the F-ERV 366 also has UL certification.



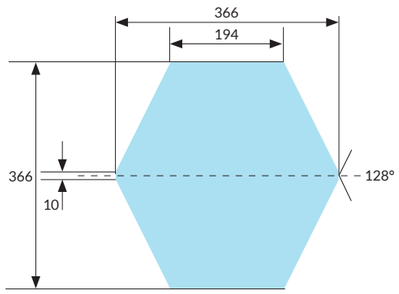
Product benefits

- Manufactured using a mold and bacteria resistant, cleanable formable polymer membrane
- Option: rib, fire protection grid, aluminum housing
- Available heights: 50 – 500 mm (in 5mm steps)
- Leakage: <1% of nominal flow rate, 100% leakage tested
- Material resistance: -20 °C – +50 °C

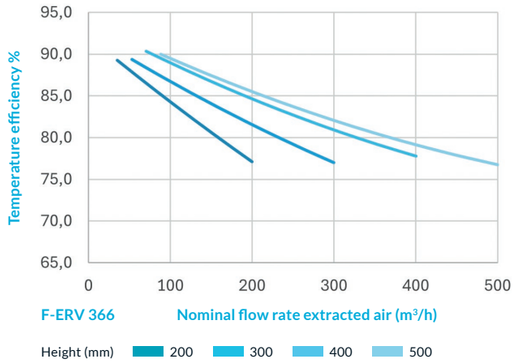
Standards

- Hygiene Standard
  VDI6022 sheet 1 (01/2018)
  ÖNORM H6021 (01/2023)
  SWKI VA104-01 (01/2019)
- Fire Standard
  EN DIN13501-1 (Class E)
  ISO 11925 (Class E)
- Quality Management
  DIN ISO 9001: 2015
- UL Standard: UL723

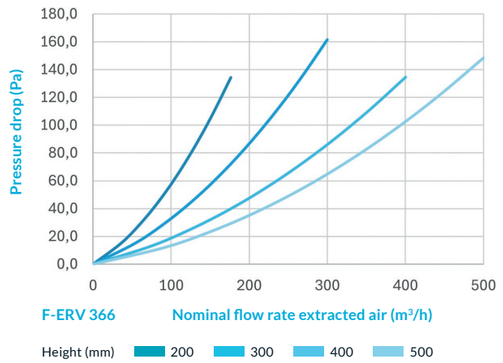
Product dimensions (mm)



Temperature efficiency

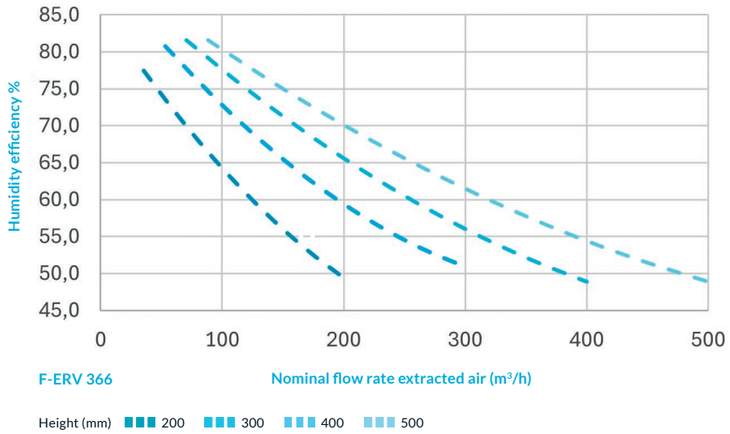


Pressure drop



Based on test conditions following NEN-EN 308:2022 (intake air: temp. 5°C, humidity 70%; extracted air: 25°C, humidity 50%)
Calculate your specific conditions with our Core Online Calculator.

Humidity efficiency

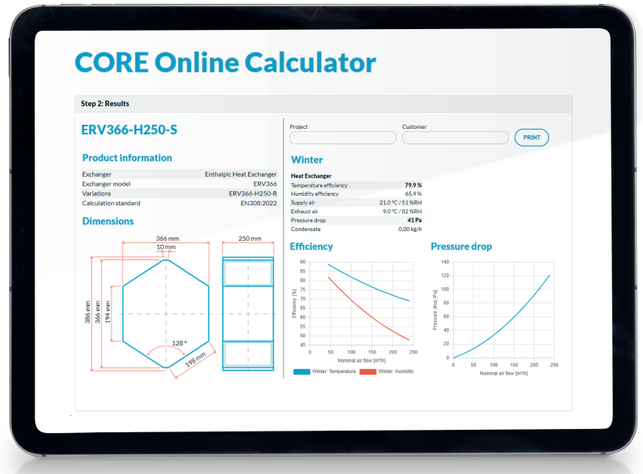


Weights (kg)

Typ	kg
F-ERV366-H100-S	1,05
F-ERV366-H200-S	1,65
F-ERV366-H300-S	2,25
F-ERV366-H400-S	2,88
F-ERV366-H500-S	3,47

CORE ONLINE CALCULATOR

Find the best heat exchanger for your ventilation unit



Which CORE product is best suited for your current project? Use our calculator with detailed product data of our counterflow enthalpy and heat exchangers to find the appropriate solution for your ventilation system.

With this easy-to-use and intuitive tool, you can input your parameters to get clear results of the performance, efficiencies and pressure loss of our CORE enthalpy and heat exchangers.

Dive into the world of our innovative enthalpy and heat exchangers!
Register now and find the best solution for your project:
https://core.life/core-calculator/

Features of the CORE Online Calculator

Customized Calculations:
Enter your specific operating parameters and receive a detailed overview of the selected enthalpy or heat exchanger.

Clear Graphs:
Visualize the necessary information in clear and understandable diagrams with interactive single measurement points.

Seasonal Performance:
Differentiate between summer and winter conditions for precise and seasonally adjusted calculations according to the standard norms.

Flexible Units:
Effortlessly switch between metric and imperial data, as well as between the temperature standards EN 308 and EN 13141.

Convenient PDF Function:
Save and print your calculations / projects easily in PDF format.

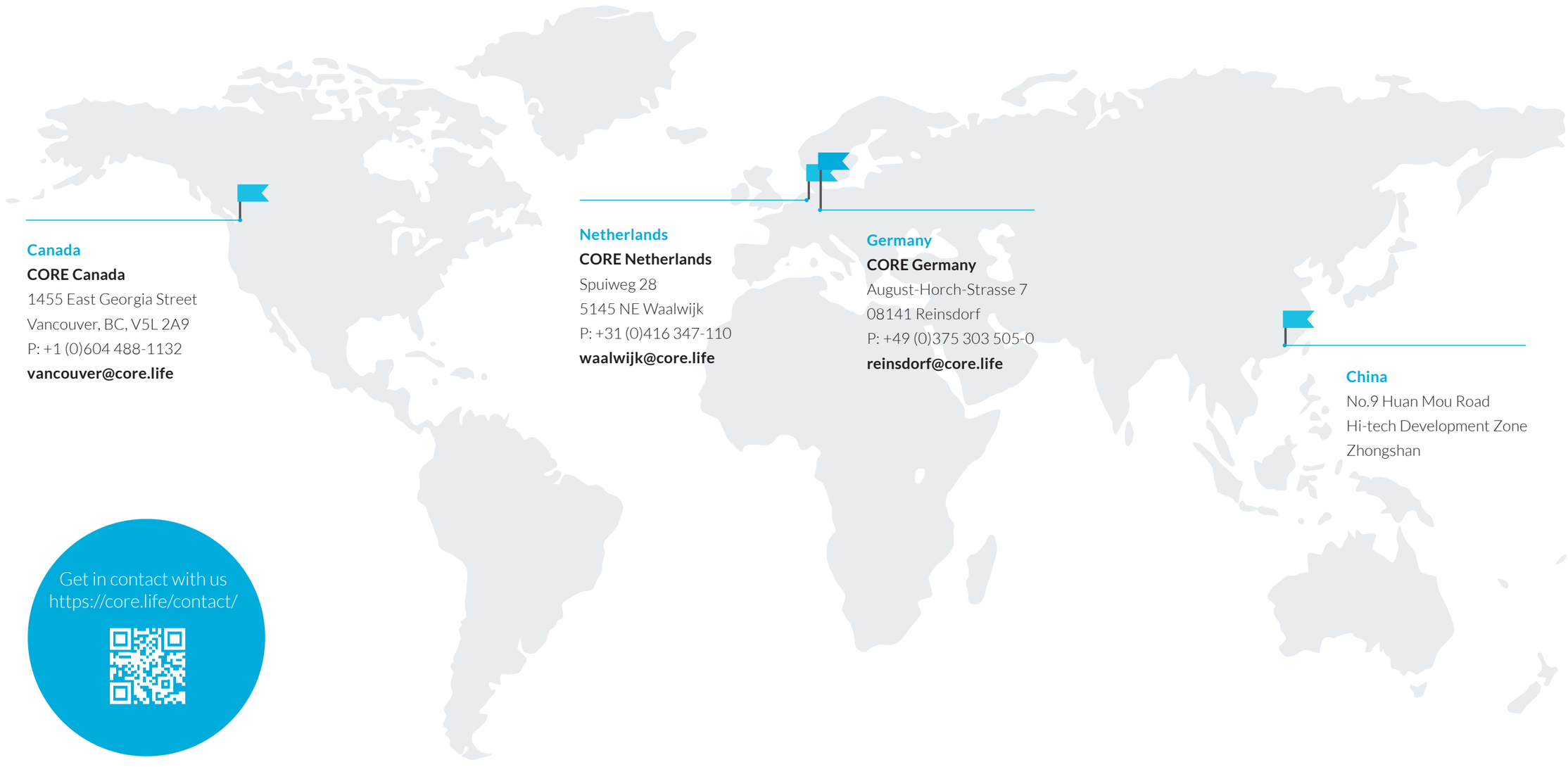
Continuous Updates:
Look forward to regular updates with new measurements, products and features.

CORE LOCATIONS

Globally represented, locally adapted – How you can benefit from CORE's "glocal" approach

We want to improve the health, well-being and quality of life of people around the world. That is why we pursue the so-called "glocal" approach to providing the right enthalpy or heat exchanger for every climate, both "globally" and "locally."

For us, this means that we manufacture internationally at four locations, so that production can take place regionally and long transportation routes can be avoided. To meet the needs of the individual markets, we tailor our products to each market's unique climatic conditions and challenges.



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