

Research & Development



We support our business with scientific research taking up the principle “Do your job well”. In order to find the better, we observe the nature and follow the developments in our field of business closely.

As Research & Development Department, the basic fundamentals of our studies are;

- To design multi-alternative system technologies with an innovative approach foreseeing future needs,
- To develop systems optimizing limited energy resources against the demand for unlimited energy,
- To design products of high quality and also being efficient and cost-efficient,
- To recover maximum energy with minimum energy consumption,
- To implement innovative ideas open-mindedly,
- To consider customer's comfort and health,
- To develop eco-friendly products.

In line with of our missions and principles and by our expert staff, we work to:

- Design “the best” in the simplest way by using advanced software,
- Construct the right unit at once by three dimensional modeling and analysis systems,
- Verify and scrutinize theoretical knowledge at the design stage with tests carried out in our labs,
- Provide simple usability and easy service together with our products,
- Develop units in compliance with international human health and safety standards.

We preserve the originality of our innovative designs which we put forward in consequence of the track we followed and our principles, technological leadership with the documents given by Turkish and International Patent Institutes.



Quality Control

We regard Total Quality Control System as an everlasting journey and a lifestyle necessary to achieve success within the circle of our “staff, shareholders, customers, suppliers, environment, society we live in and technology”.

In compliance with the ISO 9001:2008 Quality Control System which intends to control every step of the operational process, we take aim at high-quality, effectiveness, cost efficiency and delivering timely. Accordingly, we keep our quality control system dynamic by raising awareness and perpetuating competence trainings, as required, with the assistance of our qualified staff.

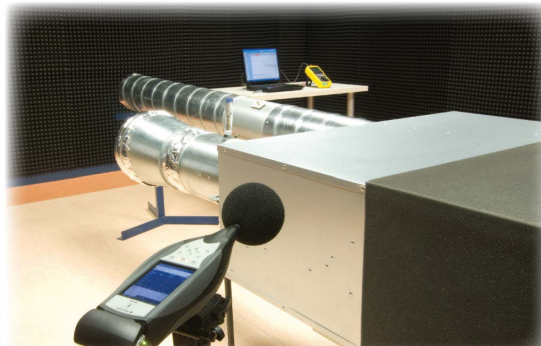
The track we follow on the way to the success is the Quality Assurance System, composing of the following principles:

- Detecting defects beforehand,
- Avoiding reoccurrence of defects,
- Focusing on continuous improvement and development of product quality, delivery and technology.
- Providing a safe working environment,
- Making cost of quality entirely measurable, and reducing it,
- Ensuring that the components of our products comply with ROHS, WEEE and CE standards being guided by our eco-friendly policy.

In line with our target of efficient and continuous quality, the components comprising our products are tested at Incoming Quality Control with our advanced testing equipment and devices. We apply sampling method and provide 100% Quality Control.

Process controls are carried out using process control lists prepared considering all of defect analyses.

At Final Quality Control Tests visual inspection and controls specified in TS 2000 EN 60335-1, TS EN 50419, and TS 10316 EN 60204-1 standards (CE tests) are carried out and by this way the reliability of our products is ensured.



In parallel with our ongoing product development in R&D department, all rights of changing all technical specifications are reserved by ENeko without any declaration and notice.

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RE201909

Corporate

Eneko meets the needs of the sector with its effective and cost-efficient technology products complying with Turkish and European standards, while keeping up the quality on ventilation and heat/energy recovery systems.

With our energy recovery units we keep up with leading companies worldwide. "Finding a solution" is essential for us to enjoy our work. Hence, our manufacturing process is based on the approach: every solution has a better solution.

We act as a "solution partner" always "looking for the better" and finding it no matter how.

High Quality and absolute customer satisfaction are two driving forces of our manufacturing process. Hence we intend to manufacture our products we design, failure-free, accurate and low cost-efficiently in compliance with quality control directions using high technology.

Our Manufacturing Principles are;

- Completing a failure-free production,
- Reducing production times, using modern technologies and maintaining trainings as required,
- Ensuring that production as complete on required time by using a correct planning and logistics process.
- Manufacturing within the frame of labor health and safety regulations in force.

In our production process, where we never make exceptions to our principles, we precisely work in order to:

- Reach volume production approach by the help of our mass production system,
- Provide efficient raw/semi-finished material flow with computer-aided stock management,
- Follow the flow of components and products using barcode automation,
- Work with our CNC machines at low diminution rates within sensitively measured tolerance,
- Maintain continuous operational conditions with a periodic and predictive maintenance approach.

Energy Recovery

To have better solution in energy issue, recovering heat where possible is as important as using alternative energy resources and renewable energy resources. With our products we intend to increase HVAC systems' efficiency by developing products which will utilize the energy of exhausted air from indoors. During the product development process, saving energy and consequently protecting the environment by reducing CO₂ emission, is the major driving force of Eneko's mission.

Innovative Solutions

We have developed cost-efficient and advanced products and services complying domestic and international demands, with an innovative design approach with the foresight of future needs and customers' requirements. We explore effective and cost-efficient solutions by creating new products or adding technical features to current products to tackle with the problems in our field of business.

Thinking Global

Contemporary problems related with energy and indoor air quality can only be solved on global scale. Eneko is taking firm steps forward in the global market supplying effective and cost-efficient products for energy recovery and indoor air quality.



50m³/h 150 250 700m³/h

Residential Type Heat Recovery Unit

EVENT 300/500/700

ErP 2018



- High Efficiency Heat Recovery
- Counter Flow Exchanger
- EC Plug Fans
- Low Sound
- Electronic Control Panel
- Modbus, BMS
- Optional Ventilation on Demand (VOD)
- Optional F Class Filter
- Optional By-Pass Ventilation

10 kW 40 90 160 230 kW

Rooftop Packaged Unit

ERF

ErP 2021



- High Cooling and Seasonal Efficiency
- EC Plug Fan/EC Axial Fan
- Scroll/Multi Scroll Compressor
- Air Cooled/Water Cooled Condenser Option
- Compact "Plug&Play"
- Double Skin Casing
- Free Cooling/Free Heating
- Roofcurb Option For Vertical Outlets
- Configuration Options;
 - 100% Return Air,
 - 100% Fresh Air (Make-Up Air),
 - Partial Fresh Air,
 - With Barometric Relief Damper,
 - Economizer,
 - Rotary Heat Exchanger,
 - Thermodynamic Heat Recovery,
 - Natural Gas Heating,
 - Auxiliary Heating Options
- Electronic Control Panel
- BMS, Modbus, Bacnet, Lonworks

250m³/h 650 800 1000 1500 2000 3000 6000m³/h

Ceiling Type Heat/Energy Recovery Unit

EVHR / EVER



- Heat/Energy Recovery
- Cross Flow Exchanger Aluminium (EVHR) Cellulosic (EVER)
- AC Plug Fans
- Optional EC Plug Fan
- Low Sound
- By-Pass Ventilation (EVER)
- Electronic Control Panel
- Modbus, BMS
- Optional Ventilation on Demand (VOD)
- Optional F Class Filter

3000m³/h 8500 15300 27500 40000m³/h

250m³/h 500 800 1000 1500 2000m³/h

Ceiling Type Heat/Energy Recovery Unit

EVUVENT - S/SD/P/PD/B

ErP 2018



- Heat/Energy Recovery
- Cross Flow Al Hex (EVU-B)
- Cross Flow Cellulosic Hex Single Skin (EVU-S), Double Skin (EVU-SD)
- Counter Flow Al Hex Single Skin (EVU-P), Double Skin (EVU-PD)
- EC Plug Fans
- Low Sound
- By-Pass Ventilation
- Electronic Control Panel
- Modbus, BMS
- Optional Ventilation on Demand (VOD)
- Optional F Class Filter

2000m³/h 6800 15300 27500m³/h

500m³/h 1000 2000 4000m³/h

Ceiling Type Heat/Energy Recovery Unit with Heat Pump

EVHR AC/EVER AC



- Heat and Energy Recovery with Heat Pump
- Cross Flow Exchanger Aluminium (EVHR AC) Cellulosic (EVER AC)
- AC Plug Fans
- Optional EC Plug Fan
- Compact "Plug & Play"
- Conditioned Fresh Air
- Electronic Control Panel
- Modbus, BMS

2000m³/h 6800 15300 27500m³/h

Packaged Type Energy/Heat Recovery Unit with Heat Pump

ERO AC/EPO AC/EHU AC



- Heat/Energy Recovery With Heat Pump
- Rotary Type Heat Exchanger (ERO AC)
- Cross Flow Aluminium Heat Exchanger (EPO AC)
- Air Handling Unit Without Heat Exchanger (EHU AC)
- EC/AC Plug Fan
- Double Skin Casing
- Humidity Transfer (ERO AC)
- By-Pass (EPO AC)
- Optional F Class Filter
- Optional Heating and Cooling
- Compact "Plug&Play"
- Hygienic Certification
- Electronic Control Panel
- BMS, Modbus, Bacnet, Lonworks

1000m³/h 3000 5000 7000 10500m³/h

Packaged Type Energy Recovery Unit

ERV & ERV-V

ErP 2018



- Energy Recovery
- Enthalpy/Sorption Rotor
- EC Plug Fan
- Double Skin Casing
- Optional Heating and Cooling
- Low Sound
- Electronic Control Panel
- BMS, Modbus, Bacnet, Lonworks

3000m³/h 6000 15000 20000m³/h

Packaged Type Dehumidifier Unit

EDH



- Patented Design (PCT/TR2017/050125)
- High Dehumidification Capacity
- Cross Flow Aluminium Heat Exchanger
- EC Plug Fan
- Integrated Heat Pump System
- Integrated Heating Coil
- Double Skin Casing
- By-Pass
- Special Designed Mixing Dampers
- Optional F Class Filter
- Compact "Plug&Play"
- Electronic Control Panel
- BMS, Modbus, Bacnet, Lonworks

2000m³/h 3500 5000 7000m³/h

Packaged Type Heat Recovery Unit

ECV-H & ECV-V

ErP 2018



- Counter Flow Al Heat Exchanger
- EC Plug Fans
- Double Skin Casing
- Optional Heating and Cooling
- Low Sound
- Electronic Control Panel
- BMS, Modbus, Bacnet, Lonworks

3000m³/h 8000 14000 21000m³/h

Kitchen Ventilation Unit

DES



- Kitchen Ventilation
- Heat Recovery
- Cross Flow Aluminium Heat Exchanger
- AC Plug Fan
- Supply Air Side Panel + Bag Filter
- Metal Filter for Exhaust Side
- By-Pass
- Optional Heating Coil/Electrical Heater
- Compact "Plug&Play"
- Electronic Control Panel
- Modbus, BMS