



Natural Refrigerant Solutions

to Drive Energy Transition



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NH ₃ /CO ₂ Cascade system WFC cascade system NH ₄ /CO ₂	Custom cascade Refrigeration system for indoor use	7
NH ₃ Condensers Flat NH ₃ condenser	CAP: Flat NH ₃ condenser	-
NH ₃ Condensers NH , Evaporative condenser	NCX: NH ₃ evaporative condenser	-
NH ₃ Condensers NH , V-shaped condenser	CAV: NH ₃ V-shaped condenser	-
NH ₃ Unit coolers NH ₄ Cubic unit cooler	EC: Cubic NH ₃ & brine unit coolers	
NH ₃ Unit coolers NH ₃ dual flow unit cooler	ED: Dual flow NH ₃ & brine unit coolers	
NH ₃ Blast freezer units NH ₄ Blast freezer	BTV/BF/SBF/ECT: NH ₃ & brine blast freezers	
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HVAC		
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R290 Chillers Water-cooled reciprocating chiller	RWS Kp: Packaged water-cooled reciprocating chillers for indoor and outdoor use	
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CO ₂ Heat pumps AIRHEAT	Packaged air-to-water reciprocating heat pump for outdoor use, for domestic hot water production	
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DISTRICT HEATING		
CO ₂ Heat pump YUKON D	Split air-to-water heating only reciprocating heat pump with remote evaporator	_
CO ₂ Heat pump YUKON W	Water-to-water reciprocating heat pump	
NH ₃ Industrial heat recovery	WH: Custom heat pump for indoor use	1

About

Enex Technologies is a transformative world leader in natural and energy efficient cooling, heating, ventilation and refrigeration equipment that began in the 1930s by producing ammonia natural refrigeration equipment, later adding ${\rm CO_2}$, water and propane as natural refrigerants with low global warming potential.



Pioneers and innovators in natural HVACR since the 1930s





200M€ Revenues

1000+ **Employees**

12 Industrial sites

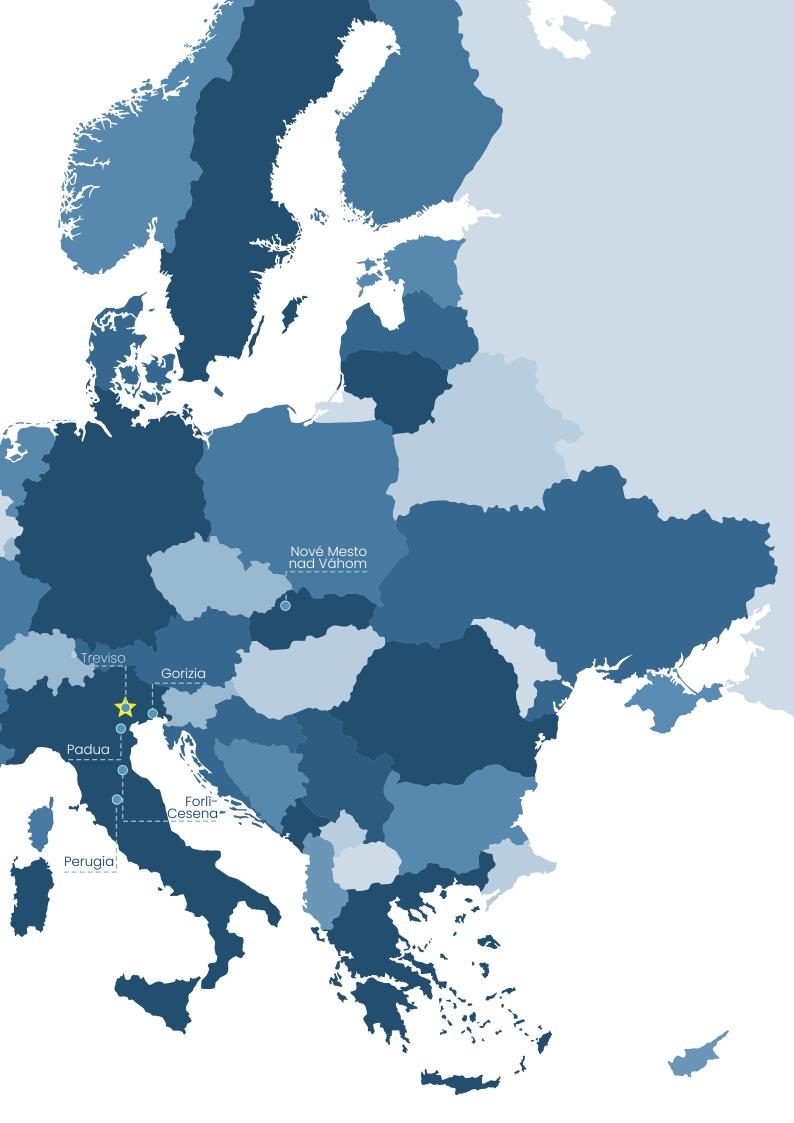
125 Countries



Headquarter

Manufacturing, R&D site and commercial office





Our segments

Our leading natural refrigerant, energy efficiency and energy transition technologies transform the HVACR industry.







COOLING

Our chillers are designed to operate efficiently with all refrigerants, generating cold water for climatization or industrial processes.

REFRIGERATION

Our commercial and industrial refrigeration systems are designed for high performance, quality, reliability and carbon footprint reduction through the use of natural refrigerants Ammonia and CO₂.

HEATING

Our high efficiency heat pump range using natural refrigerant CO_2 is a simple-to use, elegant solution for applications requiring high quantities of sanitary hot water.

We are driven by strong values to create a better and more sustainable world



ENVIRONMENT

Buildings consume 40% of the energy used in the developed world. HVACR systems use 60% of the energy in buildings. Our high efficiency solutions are central to reducing global warming, and we strive every day to help our customers reduce their carbon footprint by using natural refrigerants.



COMMUNITIES

We are a European industrial champion, building clean factories that support new jobs, growth and expansion to new markets.



INNOVATION

Always leading. From pioneering the efficient and safe use of natural refrigerants to helping the industry move away from gas heat towards systems that use electricity.



DIVERSITY & INCLUSION

At Enex Technologies we ensure that every colleague feels respected, valued and motivated to support our customers, every day.



Enex Technologies is committed to developing and improving innovative and efficient low global warming technologies in HVAC, commercial and industrial refrigeration systems that reduce energy consumption and environmental impact.



Natural refrigerants

CO, (R744)

CO₂ is a naturally occurring, non-ozone-depleting refrigerant that addresses today's concerns about the global warming potential (GWP) of common F-gases. With a GWP of 1, CO₂ is widely and effectively used in commercial and industrial refrigeration systems.

AMMONIA (R717)

Ammonia is the most widely used natural refrigerant for large industrial applications. With a GWP of 0, ammonia is a cost-effective, efficient, and sustainable alternative refrigerant.

PROPANE (R290)

With its excellent thermodynamic properties and a GWP of 3, Propane is an energy efficient, reliable, versatile, and cost-effective natural refrigerant.

WATER (R718)

Indirect systems using pure water or brine mixtures to transfer heat are simple to install and easy to service in all applications.



Enex Technologies provides a wide range of refrigeration racks and ventilated units using highly sustainable CO2 as refrigerant, suitable for food retail stores of any format in all ambient climates.

Enex Technologies pioneered the development of transcritical CO2 refrigeration systems, setting the standard in the food retail industry.















TAGO

Refrigeration booster unit

Cooling capacity from 10 kW to 40 kW in **Medium Temperature**Cooling capacity up to 8 kW in **Low Temperature**





Remote gas cooler





Semihermetic reciprocating compressors





Low Noise







CO, Racks

At a width of 800 mm, the compact and reliable TAGO refrigeration booster units from ENEX is optimized for small format retail stores. The tower design is ideal for installation in plant rooms with restricted footprint and/or where access is through narrow doors. A gravity oil return system ensures high operational safety and low maintenance requirements. Using highly sustainable R744 refrigerant, the TAGO system is available in 7 sizes with up to 2 medium temperature compressors and 1 low temperature compressor, and suitable for indoor or outdoor installation with optional cladding.

FEATURES

- Small footprint
- · Stainless steel piping
- · Gravity oil return system
- · Liquid receiver with PS 80 bar
- Dorin or Bitzer compressors
- Inverter on 1st compressor
- · Danfoss or Carel controller
- 2 mt height max
- Patented gravity oil management

OPTIONS

- One heat recovery exchanger for Space Heating or DHW application
- Back up controller spare
- Complete ducting of the relief valve discharge
- Differential circuit breakers 300 mA "Type A" on compressors
- Main switch with MX coil
- Cladding for indoor/outdoor
- Muffler for low noise applications on compressor discharge lines (Spare)

APPLICATION



Food retail



Food storage



Food processing







DRAVA

Refrigeration booster unit

Cooling capacity from 16 kW to 65 kW in **Medium Temperature**Cooling capacity from 12 kW to 23 kW in **Low temperature**





Remote gas cooler



Semihermetic reciprocating compressors



Low Noise











CO, Racks

ENEX's DRAVA refrigeration booster unit is designed for small-to-medium format retail stores, with up to 3 medium temperature and 2 low temperature compressors using highly sustainable R744 refrigerant. A gravity oil return system ensures high operational safety and low maintenance requirements. Suitable foo indoor or outdoor installation with optional cladding.

FEATURES

- Stainless steel piping
- Dorin or Bitzer compressors
- Inverter on 1st compressor
- Danfoss or Carel controller (others on request)
- Liquid receiver with PS 60 bar
- Patented gravity oil management

OPTIONS

- Back up cooling Unit*
- Heat Recovery
- Enex exclusive Liquid Enjector® module
- Double electronic valves (as back up/no double control)
- Ducting of relief valves
- · Cladding for indoor/outdoor use
- Pressure rating HP side PS=130 bar with extended envelope

*If NO LT, IF NO Heating Recovery

APPLICATION



Food retail



Food storage



Food processing







SENNA

Refrigeration booster unit

Nominal cooling capacity from 70 kW to 390 kW in **Medium Temperature** Nominal cooling capacity from 4 kW to 200 kW in **Low Temperature**





Remote gas cooler





Semihermetic reciprocating compressors



Low Noise



Indoor/ Outdoor installation







CO₂ Racks

Compact and simple to use, the SENNA refrigeration booster unit from ENEX is designed for high reliability in medium and large format retail stores, with up to 6 medium temperature and 5 low temperature compressors using highly sustainable R744 refrigerant. The system can be configured as a plug & play monoblock unit, mounted on a skid with an integral gas cooler and complete with refrigerant piping and electrical connections. Suitable for ilndoor or outdoor installation with optional cladding.

FEATURES

- Stainless steel piping
- Oil separator
- Dorin or Bitzer compressors
- · Inverter on 1st compressor
- · Danfoss or Carel controller (others on request)
- · Liquid receiver with PS 60 bar
- Patented gravity oil management (up to 100 kW)

OPTIONS

- LSPM Compressors
- Up to 2 heat recovery exchangers for Space Heating or/and DHW application
- Double electronic valves/Double control
- Double mechanical valves
- Backup cooling unit*
- · Ducting of relief valves
- · High level sensor
- Enex exclusive Lliquid Enjector® module
- Mechanical subcooler
- Liquid subcooler
- Cladding for indoor/outdoor
- CO₂ evaporator inside cladding
- · Unit in 3 pieces
- · Detachable electrical panel
- Liquid receiver with PS 80 bar
- Pressure rating HP side PS=130 bar with extended envelope

* Supplied installed or separately

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APPLICATION



Food retail



Food storage



Food processing







SENNA P

Refrigeration booster unit

Nominal cooling capacity from 90 kW to 410 kW in **Medium Temperature** Nominal cooling capacity from 4 kW to 200 kW in **Low Temperature**





Remote gas cooler



Semihermetic reciprocating compressors



Low Noise



Indoor/ Outdoor installation



Natural Refrigerant



Inverter technology







Vapor enjector

CO₂ Racks

ENEX's SENNA P refrigeration booster unit is designed to combine simplicity, compactness and high reliability with parallel compressor and an optional vapor enjector to enhance performance in high outdoor ambient temperature settings. The SENNA P system is ideal for medium and large format retail stores, with up to 4 medium temperature, 2 parallel and 5 low temperature compressors using highly sustainable R744 refrigerant. It can also be configured as a plug & play monoblock version, mounted on a skid with an integral gas cooler, complete with refrigerant piping and electrical connections. Suitable for indoor or outdoor installation with optional cladding.

APPLICATION



Food retail



Food storage



Food processing

FEATURES

- · Stainless steel piping
- Oil separator
- Dorin or Bitzer compressors
- · Inverter on 1st compressor
- Danfoss or Carel controller (others on request)
- · Liquid receiver with PS 60 bar
- · Parallel compression

OPTIONS

- LSPM Compressors
- UP to 2 x Heat recovery exchangers for Space Heating or/ and DHW application
- Double electronic valves/Double control
- Double mechanical valves
- Backup cooling unit*
- Ducting of relief valves
- · High level sensor
- Enex exclusive Liquid Enjector® and/or vapour enjector
- Mechanical subcooler
- Liquid subcooler
- Cladding for indoor/outdoor
- CO₂ evaporator inside cladding
- · Unit in 3 pieces
- Detachable electrical panel
- Liquid receiver with PS 80 bar
- Pressure rating HP side PS=130 bar with extended envelope







SENNA Xtra Smart

CO₂ transcritical booster for medium and large retail stores

Nominal cooling capacity from 50 kW to 400 kW in **Medium Temperature** Nominal cooling capacity from 4 kW to 200 kW in **Low Temperature**





Remote gas cooler



Semihermetic reciprocating compressors



Low Noise



Indoor/ Outdoor installation





Inverter technology



Vapor ejector







CO₂ Racks

The SENNA Xtra Smart refrigeration booster offers excellent value-for-money in medium and large format retail stores, while retaining the well-known Enex quality and reliability, using highly sustainable R744 refrigerant. Thanks to its narrow width (800mm up to 200kW), it is ideal in retrofit applications. With up to 6 medium temperature and 5 low temperature compressors, the unit can be configured with several efficiency enhancing solutions, such as parallel compression, liquid and vapor ejectors and permanent magnet compressors. Suitable for indoor or outdoor installation with optional cladding, it can be also delivered as a plug & play monoblock unit, mounted on a skid with an integral gas cooler and complete with refrigerant piping and electrical connections.

FEATURES

Robustness

· Strong sheetmetal frame

Compactness

- 850 mm width (up to 200 kW)
- 2000 mm height (without cladding)

High reliability

- · Two decades of experience
- Double electronic valves
- · Emergency cooling unit
- Internal LT suction/liquid and Flash/gas cooler outlet HX
- · All cold vessels insulated with 3-layer protection
- · Industrial type pipe clamps
- PAG oil for longer compressor life
- · 3 level sensors in suction accumulator with liquid ejector
- Higher service pressure options: 60 bar LT compressors, 80 bar liquid receiver, 130 bar HP

Efficiency

Parallel compressors, liquid and vapor ejectors, LSPM compressors

Flexibility

- Dorin or Bitzer, up to 2 heat recovery HX
- Cladding for outdoor installation and noise reduction
- Wide range of configurations and options

Ease of installation

K65 connections, unit in 3 pieces on request

Ease of service

- Full accessibility, shut-off valves and bypass on main components
- Generously sized oil separator with replaceable cartridge
- Min and max optical liquid level sensors on receiver with isolating valve

APPLICATION



Food retail



Food storage



Food processing







NEVA

Refrigeration booster unit

Nominal cooling capacity from 70 kW to 800 kW in **Medium Temperature** Nominal cooling capacity from 4 kW to 200 kW in **Low Temperature**





Remote gas cooler



Semihermetic reciprocating compressors



Low Noise



Indoor/ Outdoor installation





Inverter technology





CO₂ Racks

Designed for medium and large format retail stores with industrial specifications, the NEVA refrigeration booster units from ENEX are highly customizable, with up to 4 medium temperature and 4 low temperature compressors using highly sustainable R744 refrigerant. Suitable for indoor or outdoor installation with optional cladding.

FEATURES

- Industrial specifications
- · Shut-off valves on each section
- · Stainless steel piping
- Oil separator
- Mechanical backup valves
- Dorin or Bitzer compressors
- · Inverter on 1st compressor
- Danfoss or Carel controller (others on request)
- · Large liquid receiver with PS 60 bar
- · Fully customizable

OPTIONS

- LSPM Compressors
- UP to 2 x Heat recovery exchangers for Space Heating or/ and DHW application
- Double electronic valves/Double control
- Double mechanical valves
- Backup cooling unit
- Ducting of relief valves
- High level sensor
- Enex exclusive Liquid Enjector® module
- Mechanical subcooler
- Liquid subcooler
- Cladding for indoor/outdoor
- CO, evaporator inside cladding
- · Unit in 3 pieces
- · Detachable electrical panel
- Liquid receiver with PS 80 bar
- Pressure rating HP side PS=130 bar with extended envelope

APPLICATION



Food retail



Food storage



Food processing







Flat gas cooler

GM/GN/GO/GP: Flat gas coolers with axial fans for outdoor use

Cooling capacity from 15 kW to 900 kW





Low Noise



Outdoor installation



Floating pack system



EC Axial fan



Remote gas cooler



Natural Refrigerant



High efficiency



CO₂ Gas cooler

ENEX's flat gas coolers with axial fans for outdoor use, are suitable for application in highly sustainable R744 transcritical systems. Offering low sound levels and a wide range of capacities to exactly match system requirements. 140 bar pressure rating to allow operation at high pressures and increase cycle performance.

FEATURES

- Finned coil: Built with 7mm copper tubes and louvered aluminium fins. Designed with 'Floating pack system', which allows the coil to levitate to avoid leaks
- Headers: Stainless steel + K65
- Fans: Equipped as standard with EC fan motors.
 Axial fans with external rotor (380-480V III 50/60Hz)
 Compliant with ErP Directive Ø 450, 630, 800, 910 mm
- **Casing**: Pre-painted aluminum
- Wide choice of noise level
- **Design pressure: PS**=140bar **PT**=200bar

OPTIONS

FIN MATERIAL

- Copper Fins
- Coated Fins
- Other not standard fin material

CASING

- Stainless steel AISI304
- Anti dampers

ELECTRICAL OPTIONS

- AC fans
- Schielded Wiring
- Service switch (80V each fan)
- Speed controller
- Fan diffuser

Wiring into centralized box

+ magnetothermic switches (included with EC fans)

OTHER

- AquaAero treatment
- Blygold treatment
- Spray adiabatic system

APPLICATION



Food retail



Food storage



Food processing



Ice rink



Winery & Brewery







Centrifugal gas cooler

KGR: V-shaped gas coolers with centrifugal fans for indoor use

Cooling capacity from 25 kW to 560 kW





Air Condensed



Indoor installation



Floating pack system



EC fans



V shape coils



High efficiency



Natural Refrigerant

CO₂ Gas cooler

ENEX's V-shaped gas coolers with centrifugal fans for indoor use are suitable for application in highly sustainable R744 transcritical systems when the gas cooler must be located in the plant room. The centrifugal fans provide adequate external static pressure to install a duct on the air discharge. Available in a wide range of capacities to exactly match system requirements.

FEATURES

- Finned coil: Built with grooved K65 copper tubes and corrugated aluminium fins. Designed with 'Floating pack system', which allows the coil to levitate to avoid leaks
- Headers: Stainless steel + K65
- Fans: Equipped as standard with EC fan motors.
 Radial / centrifugal fans (380-480V III 50/60Hz)
 Compliant with ErP Directive Ø 400, 630 mm. Up to 200 Pa external static pressure
- Casing: galvanised steel painted with epoxy-polyester, and then baked and cured at 180°C giving it a high protection against corrosion even in extreme environmental conditions
- Design pressure: PS=130bar PT=186bar

OPTIONS

FIN MATERIAL

- Copper Fins
- Coated Fins

OTHER

- Blygold
- Acoustic Isolation

CASING

- Painted
- Excessive Pressure Dampers

ELECTRICAL OPTIONS

• Switch on/off

APPLICATION



Food retail



Food storage



Food processing



Ice rink



Winery & Brewery







Cubic unit cooler

OC/BC: Cubic CO₂ and brine unit coolers

Cooling capacity from 2 kW to 20 kW













Commercial refrigerationCO₂ Unit coolers/Brine coolers

ENEX's cubic units are ideal for small and medium cold rooms for cooling and freezing applications. They can be used with a highly sustainable R744 direct expansion system or a brine loop.

FEATURES

- Finned coil: Built with grooved copper tubes (3/8" Ø), and corrugated aluminium fins, manufactured according to CU-PROCLIMA® specifications
- Fans: Equipped as standard with AC fan motors.
 Axial single-phase motors (230V I 50/60Hz)
 Compliant with ErP Directive. Ø 250/350 mm
- Casing: Pre-painted aluminum, for high protection against corrosion even in extreme environmental conditions. Casing complies with the most stringent food hygiene standards
- Design pressure: PS=60-80bar PT=86-115bar

OPTIONS

FIN MATERIAL

- Copper Fins
- Epoxy Fins
- Other material

CASING

• Stainless Steel

DEFROST

- Hot gas defrost
- Hot gas defrost in coil and electric in tray
- Electric defrost
- Fan ring heaters

APPLICATION



Food retail



Food storage



Industry



Marine refrigeration



Winery & Brewery

OTHER

- AquaAero
- Blygold
- High Efficiency Fans / EC fans
- Electronic control







Dual flow unit cooler

OD/BD: Dual flow CO₂ and brine unit coolers

Cooling capacity from 2 kW to 20 kW













Commercial refrigerationCO₂ Unit coolers/Brine coolers

ENEX's dual flow units are ideal for small and medium cold rooms for cooling or freezing applications. Designed especially for working areas (food preparation rooms, corridors) and temeprature sensitive products (meat, fish, fruits, etc.) where indirect air flow is preferred. They can be used with a highly sustainable R744 direct expansion system or a brine loop.

FEATURES

- Finned coil: Built with grooved copper tubes (3/8" Ø), and corrugated aluminium fins, manufactured according to CU-PROCLIMA® specifications
- Fans: Equipped as standard with AC fan motors.
 Axial single-phase motors (230V I 50/60Hz)
 Compliant with ErP Directive Ø 250, 350 mm
- Casing: Pre-painted aluminum, for a high protection against corrosion even in extreme environmental conditions. Casing complies with the most stringent food hygiene standards
- Design pressure: PS=60-80bar PT=86-115bar

OPTIONS

FIN MATERIAL

- Copper Fins
- Epoxy Fins
- Other material

CASING

• Stainless Steel

DEFROST

- · Hot gas defrost
- Hot gas defrost in coil and electric in tray
- Electric defrost
- Fan ring heaters

APPLICATION



Food storage



Food processing



Industry



Marine refrigeration



Winery & Brewery

OTHER

- AquaAero
- Blygold
- High Efficiency Fans / EC fans
- Electronic control







Slim unit cooler

OS/BS: Slim compact CO₂ and brine unit coolers

Cooling capacity from 0,5 KW to 5 kW











Commercial refrigerationCO₂ Unit coolers/Brine coolers

ENEX's slim compact units are ideal for small cold rooms designed for cooling or freezing applications. They can be used with a highly sustainable R744 direct expansion system or a brine loop.

FEATURES

- Finned coil: Built with grooved copper tubes (3/8" Ø for MR serie and 1/2" Ø for MC series), and corrugated aluminium fins, manufactured according to CUPROCLIMA® specifications
- Fans: Equipped as standard with AC fan motors.
 Axial single-phase motors (230V I 50/60Hz)
 Compliant with ErP Directive Ø 250 mm
- Casing: Aluminium-magnesium alloy (97.5% Al 2.5% Mg) for high protection against corrosion even in extreme environmental conditions. Casing complies with the most stringent food hygiene standards

OPTIONS

FIN MATERIAL

- Copper Fins
- Coated Fins

CASING

- Aluminium
- Painted
- Stainless Steel

DEFROST

- Hot gas defrost
- Hot gas defrost in coil and electric in tray (only for MC)
- Electric defrost
- · Fan ring heaters

OTHER

- AquaAero
- Blygold
- High Efficiency Fans
- Electronic control

APPLICATION



Food retail



Food storage



Food processing



Marine refrigeration



Winery & Brewery



Enex Technologies provides a wide range of industrial equipment such as chillers, refrigeration racks and ventilated units, all using natural refrigerants such as propane, CO2 and ammonia.

Applications range from cold storage to food processing, blast freezing, ice rinks, wineries and district cooling. With more than 400 years of combined experience, Enex Technologies has the expertise to always recommend the best natural refrigerant for the application.















ELBA

Refrigeration booster unit

Cooling capacity from 100 kW to 400 kW in **Medium Temperature** up to 950 kW for industrial version Cooling capacity from 35 kW to 200 kW in **Low temperature** up to 500 kW for industrial version





Remote gas cooler



Semihermetic reciprocating compressors



Low Noise



Indoor/ Outdoor installation





Inverter technology







Vapor enjector

CO, Racks

The ELBA refrigeration booster unit from ENEX is designed for industrial specifications and is highly customizable, with parallel compression and optional vapor enjector to enhance performance especially at high outdoor ambient temperatures. The ELBA system is ideal for large format retail stores and distribution centres, with up to 6 medium temperature, 2 parallel and 5 low temperature compressors using highly sustainable R744 refrigerant. Suitable for indoor or outdoor installation with optional cladding. Chilled water and heat pump functionality can be incorporated to provide an integral refrigeration + HVAC solution.

FEATURES

- Industrial specifications
- Shut-off valves on each section
- · Stainless steel piping
- Oil separator
- · Mechanical backup valves
- Dorin or Bitzer compressors
- · Inverter on 1st compressor
- Danfoss or Carel controller (others on request)
- · Large liquid receiver with PS 60 bar
- Parallel compression
- Fully customizable

OPTIONS

- LSPM Compressors
- UP to 2 x Heat recovery exchangers for Space Heating or/ and DHW application
- Double electronic valves/Double control
- · Double mechanical valves
- Backup cooling unit
- Ducting of relief valves
- · High level sensor
- Enex exclusive Liquid Enjector® module / Vapour Enjector
- Mechanical subcooler
- Liquid subcooler
- Cladding for indoor/outdoor
- CO₂ evaporator inside cladding
- · Unit in 3 pieces
- · Detachable electrical panel
- Heat pump function
- Flooded evaporator for chilled water
- Liquid receiver with PS 80 bar
- Pressure rating HP side PS=130 bar with extended envelope

APPLICATION



Food retail



Food storage



Food processing



Industry







Blast freezer Rack

AT: Refrigeration booster low temperature unit

Cooling capacity up to 600 kW LT





Remote gas cooler



Indoor/ Outdoor installation



Semihermetic reciprocating compressors





Low Noise







CO, Blast freezer Racks

The AT refrigeration booster low temperature unit from ENEX is suitable for blast freezing and other industrial applications at low temperature, using highly sustainable R744 refrigerant.

FEATURES

- · Industrial specifications
- Shut-off valves on each section
- · Stainless steel piping
- Oil separator
- · Mechanical backup valves
- Dorin or Bitzer compressors
- Inverter on 1st compressor
- Danfoss or Carel controller (others on request)
- · Large liquid receiver with PS 60 bar

OPTIONS

- LSPM Compressors
- UP to 2 x Heat recovery exchangers for Space Heating or/ and DHW application
- Double electronic valves/Double control
- · Double mechanical valves
- Backup cooling unit
- Ducting of relief valves
- High level sensor
- Mechanical subcooler
- Liquid subcooler
- Cladding for indoor/outdoor
- CO₂ evaporator inside cladding
- · Unit in 3 pieces
- · Detachable electrical panel
- Liquid receiver with PS 80 bar
- Pressure rating HP side PS=130 bar with extended envelope

APPLICATION



Food processing



Food storage



Industry







YUKON B

Split air-cooled reciprocating chiller with remote gas cooler

Brine: Cooling Capacity from 20 kW to 560 kW





Remote gas cooler



Water-cooled (option)



Semihermetic reciprocating compressors



Plate exchangers



Flooded evaporator



Low Noise



Indoor/ Outdoor installation



Inverter technology





Connectivity



High hot water temperature

CO₂ Brine chillers

ENEX's YUKON B split air- cooled reciprocating chiller with remote gas cooler is ideal for medium temperature process applications. The system is based on a transcritical CO₂ cycle and features a gravity fed flooded evaporator. Suitable for use with a non toxic/non flammable refrigerant such as highly sustainable R744 is preferred, and when the installation is split, for noise or other requirements, and when heat recovery at high temperatures (up to 80°C) is needed.

FEATURES

- · Welded steel frame
- · Gravity fed flooded evaporator
- · Reciprocating compressors
- Stainless steel piping
- Proprietary control software
- Mechanical backup valves
- · Frequency converter on first compressor
- · Ducting of relief valves
- Connectivity via Modbus TCP/IP
- Energy meter
- · Remote monitoring
- Gas cooler bypass (LT kit for low ambient)
- · Liquid receiver with PS 80 bar
- Pressure rating HP side PS=130 bar

OPTIONS

- Up to 2 heat recovery exchangers for low, medium or high ΔT
- · Cladding for outdoor use & noise reduction
- Remote gas cooler (standard and low noise)
- Cladding for indoor/outdoor
- Pressure rating HP side PS=130 bar with extended envelope

APPLICATION



Food retail



Food storage



Food processing



Ice rink



Industry

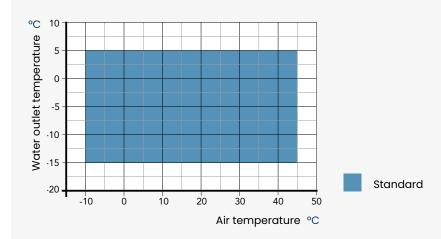


Marine refrigeration



Winery & Brewery

Operating range









Kube

Refrigeration subcritical units

Cooling capacity from 10 kW to 270 kW









CO, Subcritical

ENEX's CO₂ subcritical refrigeration units can be brine or refrigerant cooled and are ideal for retail, food processing and other industrial applications where an existing brine loop is available, or in cascade with a high stage A2L condensing unit. With its modular design, the fully industrialized KUBE range allows a fast assembling in production and it is particularly suitable for installation in plant rooms with restricted footprint.

APPLICATION



Food retail



Food storage



Food processing



Industry

FEATURES

Robustness

 Strong sheetmetal frame designed with the most stringent vibration & transport criteria

Compactness

- 1 m width
- 2.05 m height

High reliability

- Suction/liquid HX
- · Suction accumulator
- · Emergency cooling unit with fresh air intake
- · Additional condenser
- 1/2 compressor models: std 1 condenser, opt 2 (both sized 100%)
- 3 compressor models: std 2 condensers (each sized 60%), opt
 3 (all sized 60%)
- Remote desuperheater (recommended if discharge temperature >75°C)

Flexibility

- Optimized pre-selected compressor combinations
- (Bitzer)
- Brine or HFC/HFO condenser (including A2L refrigerants, with ATEX extraction fan)
- Second frequency converter
- · Wide range of configurations and options

Ease of service

- Full accessibility to all components
- Bypass valves on liquid filter, desuperheater, oil separator, suction/liquid HX







CO₂ Subcritical

Refrigeration subcritical units

Cooling capacity from 10 kW to 400 kW









CO, Subcritical

ENEX's CO_2 subcritical refrigeration units can be water, brine or refrigerant cooled, including with highly sustainable R744 refrigerant. Ideal for retail, food processing and other industrial applications where an existing water or brine loop is available, or in cascade with a high stage NH_3 cycle to achieve outstanding performance, especially in warm climates.

FEATURES

- Fully customizable
- Condensation in a plate exchanger in cascade with another refrigerant (NH₂, HFC/HFO) or via a brine loop
- Wide choice of reciprocating compressors brand (Bitzer, Dorin, Copeland)
- · Electrical panel on board or remote

OPTIONS

- Multiple temperature levels
- Remote electrical panel
- Cladding with / without acoustic insulation
- Shell & tube condenser
- Heat recovery
- Desuperheater
- Backup cooling unit
- Frequency inverter

APPLICATION



Food retail



Food storage



Food processing



Industry







Cubic industrial unit cooler

OC/BC: Cubic CO₂ and brine unit coolers

Cooling capacity from 6 kW to 260 kW











Industrial refrigeration CO₂ Unit coolers/Brine coolers

ENEX's OC/BC cubic units are ideal for medium and large cold rooms requiring cooling and freezing applications. They can be used with a highly sustainable R744 direct expansion system or a brine loop.

FEATURES

- Finned coil: Built with grooved copper tubes (3/8" & 12mm Ø), and corrugated aluminium fins, manufactured according to CUPROCLIMA® specifications
- Fans: Equipped as standard with AC fan motors.
 Axial single-phase motors (400V I 50/60Hz)
 Compliant with ErP Directive. Ø 500, 630, 800, 900 mm
- Casing: Pre-painted aluminum, for high protection against corrosion even in extreme environmental conditions. Casing complies with the most stringent food hygiene standards
- Design pressure: PS=60-80bar PT=86-115bar

OPTIONS

FIN MATERIAL

- Copper Fins
- Epoxy Fins
- Other material

CASING

• Stainless Steel

DEFROST

- Hot gas defrost
- Hot gas defrost in coil and electric in tray
- Electric defrost
- Fan ring heaters

OTHER

- AquaAero
- Blygold
- High Efficiency Fans / EC fans
- Electronic control

APPLICATION



Food retail



Food storage



Industry



Marine refrigeration



Winery & Brewery







Dual flow industrial unit cooler

OD/BD: Dual flow CO₂ and brine unit coolers

Cooling capacity from 2 kW to 160 kW













Industrial refrigeration CO, Unit coolers/Brine coolers

ENEX's OD/BD dual flow units are ideal for medium and large cold rooms requiring cooling or freezing applications. Designed especially for working areas (food preparation rooms, corridors) and temperature sensitive products (meat, fish, fruits etc.) where indirect air flow is preferred. They can be used with a highly sustainable R744 direct expansion system or a brine loop.

APPLICATION



Food storage



Food processing



Industry



Marine refrigeration



Winery & Brewery

FEATURES

- Finned coil: Built with grooved copper tubes (3/8" Ø), and corrugated aluminium fins, manufactured according to CU-PROCLIMA® specifications
- Fans: Equipped as standard with AC fan motors.
 Axial single-phase motors (230V I 50/60Hz)
 Compliant with ErP Directive Ø 500, 630 mm
- Casing: Pre-painted aluminum, for high protection against corrosion even in extreme environmental conditions. Casing complies with the most stringent food hygiene standards
- **Design pressure: PS**=60-80bar **PT**=86-115bar

OPTIONS

FIN MATERIAL

- Copper Fins
- Epoxy Fins
- Other material

CASING

• Stainless Steel

DEFROST

- · Hot gas defrost
- Hot gas defrost in coil and electric in tray
- Electric defrost
- Fan ring heaters

OTHER

- AquaAero
- Blygold
- High Efficiency Fans / EC fans
- Electronic control







Brine reciprocating chiller

RAS MC VB Kp: Packaged air-cooled reciprocating chillers for outdoor use

Cooling capacity from 31 kW to 250 kW





Air Condensed



AC Axial fans



Semihermetic reciprocating compressors



Plate exchangers



Microchannel aluminium coils



EC Axial fans (Option)



Outdoor installation



Inverter technology





High efficiency (Option)



R290 Brine chillers

EMICON's propane packaged air-cooled reciprocating chillers for outdoor use, are suitable for medium temperature process cooling applications, with minimal charge of highly sustainable R290 refrigerant thanks to the microchannel condenser coils.

FEATURES

- 1 or 2 independents cooling circuits equipped with 1 or 2 compressors for each circuit
- · Possibility to interface to BMS system
- Leak sensor turns off the compressors and activate the extraction fan in case a refrigerant leak
- Operation in cooling mode with fresh air temperature down to -20°C
- Outlet water temperature production down to -14°C

OPTIONS

- Soundproof compressor cabinet with thickner material
- EC fans
- Partial heat recovery
- · Electronic thermostatic valve
- · Part-winding compressor start-up system
- · Advanced Cascade system up to n.6 units
- BACNET or TCP/IP Protocol serial interface with RS 485
- Inverter for pump
- · Hiweb supervision system

APPLICATION



Food retail



Food storage



Food processing



Ice rink

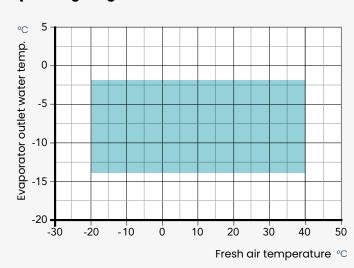


Industry



Winery & Brewery

Operating range



Cooling mode with glycol







Brine screw chiller

RAH MC VS U Kp: Packaged air-cooled screw chillers for outdoor use

Cooling capacity from 390 kW to 790 kW





Air Condensed



AC Axial fans



Screw compressors



Plate exchangers



Microchannel aluminium coils



EC Axial fans (Option)



Outdoor installation



Inverter technology





High efficiency



R290 Brine chillers

EMICON's propane packaged air-cooled screw chillers for outdoor use, are suitable for process cooling applications. With a minimal charge of of highly sustainable R290 refrigerant and increased safety thanks to a modular concept with one compressor per circuit and microchannel coils. Optional inverter compressor provides excellent seasonal efficiency and temperature control accuracy.

FEATURES

- · Two compressors / two circuits
- Low ambient temperature operation (down to -20°C)
- Soundproof compressor cabinet
- Leak sensor turns off the compressors and activate the extraction fan in case a refrigerant leak occurs
- · Electronic thermostatic valve

OPTIONS

- Axial fans with electronic commutated motor (EC fans)
- BACNET or TCP/IP Protocol serial interface with RS 485
- Enhanced microprocessor board
- · Remote display
- · Advanced Cascade system
- Inverter for pumps
- Fan diffuser

APPLICATION



Food retail



Food storage



Food processing



Ice rink

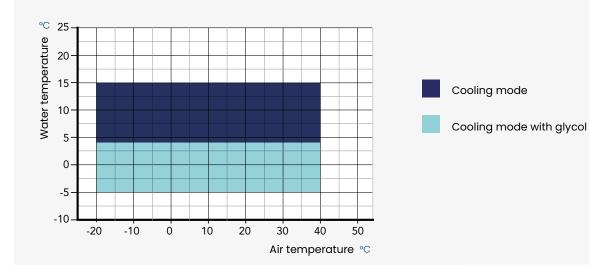


Industry



Winery & Brewery

Operating range









Flat dry cooler

D-Serie: Flat dry coolers with axial fans

Cooling capacity from 10 kW to 1215 kW















Low

Noise

H₂O dry coolers

ROEN EST's flat dry coolers with axial fans are suitable for outdoor applications, using highly sustainable R718 refrigerant water and brines. Configurable for low noise levels and capacities to exactly match system requirements. Compared to cooling towers and wet systems, our flat dry coolers require low maintenance and are highly effective in preventing Legionella contamination.

FEATURES

- Finned coil: Built with Ø12mm copper tubes and turbulent aluminium fins. Designed with 'Floating pack system', which allows the coil to be suspended to avoid leaks
- Fans: Equipped as standard with EC fan motors with external rotor (380-480V III 50/60Hz) compliant with ErP Directive Ø450, 630, 800, 910 mm
- Casing: Galvanised steel painted with epoxy-polyester, subjected to heat treatment at 180°C giving it a high protection against corrosion even in extreme environmental conditions
- Design pressure: PS=16bar PT=23bar

OPTIONS

FIN MATERIAL

- Flanges galvanized steel
- Flanges stainless steel
- Copper Fins
- Coated Fins
- AL-MG Fins
- AquaAero treatment
- Blygold treatment
- Other coil surface treatment

CASING

- · Stainless steel casing
- Silentblocks

ELECTRICAL OPTIONS

- AC fans
- Fans speed controller
- Wiring to centralised electrical boxes
- Wiring to centralised electrical box with magnetothermics
- · Shielded Wiring
- Individual service switch by fan
- Main service switch

OTHER

• Adiabatic spray system

APPLICATION



It cooling



Industry



Oll & Gas



Food processing



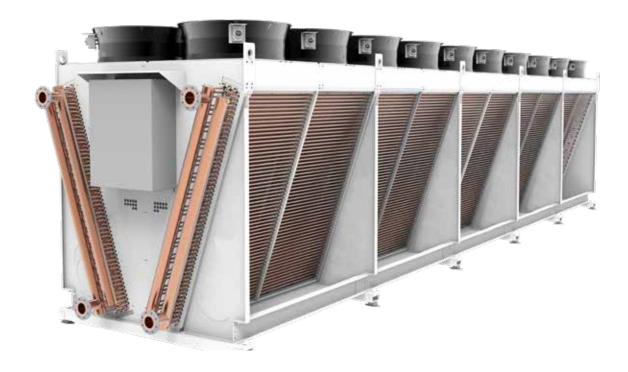




V-Shaped dry cooler

D-SERIE: V-Shaped dry coolers with axial fans for outdoor use

Cooling capacity from 200 kW to 2500 kW









Low Noise



EC fans





H₂O dry coolers

APPLICATION

ROEN EST's V-shaped dry coolers with axial fans are suitable for out-door applications, using highly sustainable R718 refrigerant and brines. Configurable for low noise levels and capacity to exactly match system requirements. Compared to cooling towers and wet systems, our V-shaped dry coolers require little maintenance and fare highly effective in preventing Legionella contamination. The V-shape is ideal for remote installations where footprint is limited.

IT cooling



Industry



Oll & Gas

FEATURES

- Use H₂O natural refrigerant and brine
- **Finned coil**: Built with copper tubes Ø 12mm and Ø5/8". Designed with 'Floating pack system', which allows the coil to levitate to avoid leaks
- Fans: Equipped as standard with AC fan motors.
 Axial fans with external rotor (380-480V III 50/60Hz)
 Compliant with ErP Directive Ø 800/870/910/960 mm.
- Casing: Pre-painted aluminum
- Design pressure: PS=30bar PT=43bar

OPTIONS

FIN MATERIAL

- Copper headers with brass screw connection
- Copper headers with SS slip-on
 Flanges Nominal Pressure 10 DIN2633
- Stainless steel tubes ('F' Module)
- Copper Fins
- Coated Fins
- AL-MG Fins
- AquaAero treatment
- Blygold treatment
- Other coil surface treatment

CASING

- AquaAero protection casing
- Silentblocks
- Internal inspection walkway

ELECTRICAL OPTIONS

- Main service switch
- Basic electrical wiring (WE)
- Individual service switch by fan

- Electrical standard panel (WEPF)
- Individual service switch by fan
- EC speed controller + temperature probes (basic)
- Electrical premium panel (WEPM)
- Individual service switch by fan
- EC speed controller + temperature probes (advanced)
 - Adiabatic control
- BACnet router

OTHER

- Adiabatic spray system
- Adiabatic PAD system
- Recirculation water system







Orca

Packaged air-cooled screw chillers for outdoor use

Cooling capacity from 200 kW to 2500 kW





Air Condensed



Outdoor installation



Microchannel aluminium coils



EC axial fans



Screw compressors



Natural Refrigerant

NH₃ Chillers

ENEX INDUSTRIAL's packaged air-cooled screw chillers are ideal for outdoor use and suitable for HVAC and process cooling applications at high, medium and low temperatures. The system's modular concept and microchannel coils require a minimal charge of highly sustainable R717 refrigerant, increasing safety and shortening authorization processes.

FEATURES

- Compact design
- Low NH₃ charge: down to to 65 g/kW
- Modular design (up to 6 modules)
- · Suitable for high ambient temperature
- Robust structure to avoid vibrations and leaks
- · Easy maintenance
- High efficiency
- EC fans
- Semiwelded PHE evaporator
- · Air-cooled oil cooler
- Electronic expansion and liquid injection valves
- Proprietary control logic (Siemens industrial PLC)
- Frequency inverters for compressor motors
- NH, leak detection unit

OPTIONS

- Wide choice of compressor brands (semihermetic or open type) Mycom, Bitzer, Srmtec, GEA
- Sequence controller to manage multiple modules frome the same control pane
- Dual temperature (evaporating from -40°C to -8°C with the same unit, Flex-Chiller)
- · Total or partial heat recovery

APPLICATION



Food storage



Food processing



Ice rink



Industry



Winery & Brewery



Oll & Gas



District cooling



IT cooling







Mega

Custom packaged refrigeration system for outdoor use

Swept Volume from 80 m³/h to 4000 m³/h











NH₃ Refrigeration system

The MEGA packaged refrigeration system from ENEX INDUSTRIAL is suitable for outdoor use. Using highly sustainable R717 refrigerant, the MEGA system can deliver the same performance and efficiency of a conventional NH3 plant room while saving precious indoor space. It is suitable for positive and negative water/brine temperature applications from +15 to -22°C. Several condensing options allow to match high efficiency or low water usage requirements.

FEATURES

- Fully natural refrigerant with GWP = 0
- Low refrigerant charge vs distributed NH, systems
- 2 x Bitzer or GEA open screw compressors in parallel
- High efficiency motor
- · Variable speed drive on each compressor
- · Generously sized coalescent oil separator
- Liquid receiver
- Electronic expansion valve
- DX plate evaporator
- · Ducting for pressure relief valves
- ATEX extraction fan for heat dissipation
- NH₃ leak sensor
- · Stainless steel piping
- Control panel with industrial PLC & proprietary software

OPTIONS

• Condensing options:

- · Air cooled
- Air cooled adiabatic condenser
- Evaporative condenser
- High effficiency evaporative condenser

Heat recovery options:

- Oil cooler
- Desuperheater
- Condenser

APPLICATION



Food storage



Food processing



Ice rink



Industry



Winery & Brewery



Oll & Gas



District cooling







SC single

Custom single compressor pack for indoor use

Swept volume from 80 m³/h to 7600 m³/h











NH₃ Compressor racks

ENEX INDUSTRIAL'S SC single compressor package unit is suitable for indoor use with integral oil separator and oil management system. Available with a wide choice of compressor brands using highly sustainable R717 refrigerant, the SC unit is ideal for very large industrial refrigeration systems, such as food processing and storage, where multiple single compressor units are preferred.

FEATURES

- 1 screw compressor
- Wide range of evaporating and condensing temperatures
- Capacity and speed adapted to customer needs
- · High efficiency horizontal or vertical oil separator
- Oil cooling system

OPTIONS

- Multiple Compressor brand: Mycom, Bitzer, Srmtec, GEA, Howden, Vilter
- · High efficiency motor
- Oil cooler options:
 - Thermosiphon
 - · Water-cooled
- Heat recovery options:
 - Heat recovery oil cooler
 - Heat recovery desuperheater

APPLICATION



Food storage



Food processing



Ice rink



Industry



Oll & Gas



District cooling







SC rack

Custom multi-compressor rack for indoor use

Swept volume from 400 m³/h to 4000 m³/h









NH₃ Compressor racks

ENEX INDUSTRIAL'S SC custom compressor rack is ideal for indoor use with multiple compressors, integral oil separator and oil management system. Available with a wide choice of compressor brands using highly sustainable R717 refrigerant and suitable for large industrial refrigeration systems such as food processing and storage.

FEATURES

- 2 to 4 screw compressors
- · Wide range of evaporating and condensing temperatures
- Capacity and speed adapted to customer needs
- · High efficiency horizontal or vertical oil separator
- · Oil cooling system

OPTIONS

- Multiple Compressor brand: Mycom, Bitzer, Srmtec, GEA, Howden, Vilter
- · High efficiency motor
- Oil cooler options:
 - Thermosiphon
 - Water-cooled
- Heat recovery options:
- Heat recovery oil cooler
- · Heat recovery desuperheater

APPLICATION



Food storage



Food processing



Ice rink



Industry







NH₃ Cooling unit

W: Custom refrigeration system for indoor use

Swept Volume from 1000 m³/h to 12000 m³/h











NH₃ Cooling units

The W custom refrigeration system from ENEX INDUSTRIAL is ideal for indoor use. Air-cooled with remote dry or evaporative condenser, water or brine cooled. Available with a pumped system option and suitable for large industrial refrigeration systems such as food processing and storage.

FEATURES

- 2 to 4 compressors in parallel
- Wide range of evaporating temperature (one or two levels)
- · Painted steel drip tray
- Stainless steel 304L piping for water/brine circuit

OPTIONS

- Multiple Compressor brand: Mycom, Bitzer, Srmtec, GEA, Howden, Vilter
- · High efficiency motor

• Condensing options:

- · Remote dry air condenser
- · Remote adiabatic condenser
- Remote evaporative condenser
- Water/brine cooled condenser with remote dry cooler and pump skid

• Cooling options:

- · Flooded evaporator for fluid cooling
- NH₃ pumping system
- Direct expansion

• Heat recovery options:

- · Heat recovery oil cooler
- Heat recovery desuperheater
- Heat recovery condenser
- Insulation of cold parts by injection of polyurethane foam under aluminum cladding
- Electrical cabinet with industrial PLC

APPLICATION



Food storage



Food processing



Ice rink



Industry



District cooling











WFC cascade system NH₃/CO₂

Custom cascade Refrigeration system for indoor use

Cooling capacity from 1500 KW to 5000 kW











Industrial refrigeration NH₃/CO₂ Cascade system

The NH3/CO2 cascade system from Enex Industrial is ideal for very large industrial applications in food storage, food processing and blast freezing, providing outstanding efficiency especially in warm climates, with the capability to produce hot water through heat recovery.

APPLICATION



Food storage



Food processing

FEATURES

- 2 to 4 NH₃ screw compressors
- 2 to 6 CO2 reciprocating compressors
- Multiple compressor brands available
- DX or pumped system
- Single or dual temperature level:
 - LT only
 - MT only (CO2 as a heat transfer fluid)
 - LT + MT
- · Water cooled, air cooled or evaporative condenser
- · Electrical panel with industrial PLC

OPTIONS

- NH₃/CO₂ exchanger:
 - Shell & plate with integral NH3 separator
 - Plate exchanger with separate NH3 separator ("cathedral")
 - Spray evaporator
- · Heat recovery on desuperheater, oil cooler and condenser
- Economizer
- · High efficiency motor







Flat NH₃ condenser

CAP: Flat NH₃ condenser

Cooling capacity from 50 kW to 1100 kW











NH₂ Condensers

ENEX INDUSTRIAL'S CAP flat NH₃ condenser with axial fans for outdoor use is ideal for industrial refrigeration applications. Compared to cooling towers and wet systems, the CAP system requires low maintenance is highly effective in preventing Legionella contamination. Stainless steel tubes offer compatibility with highly sustainable R717 refrigerant and maximum protection in aggressive environments.

FEATURES

- **Finned coil:** Built with 5/8" stainless steel tubes and corrugated aluminium fins
- Fans: Equipped as standard with AC fan motors.
 Axial fans with external rotor (380-480V III 50/60Hz)
 Compliant with ErP Directive Ø 800, 910, 1000 mm
- Casing: Galvanised steel painted with epoxy-polyester, and then baked and cured at 180°C giving it a high protection against corrosion even in extreme environmental conditions. Stainless steel screws
- **Design pressure: PS**=30bar **PT**=43bar

OPTIONS

FIN MATERIAL

- AL-MG Fins
- · Coated Fins

CASING

· Stainless steel

ELECTRICAL OPTIONS

- EC fans
- · Service switch
- 60Hz fans

OTHER

- · Circuits for sub-cooling
- Folding fans for inspection and cleaning of the finned package

APPLICATION



Food storage



Food processing



Ice rink



Industry







NH₃ Evaporative condenser

NCX: NH₃ evaporative condenser

Cooling capacity from 250 kW to 2500 kW





EC fans



Outdoor installation



Low Noise



Ultra compact coil



Easy access for maintenance



Natural Refrigerant



High efficiency

NH₃ Condensers

ENEX INDUSTRIAL'S NCX evaporative condenser with axial fans for out-door use is ideal for industrial refrigeration systems where efficiency must be optimized. Stainless steel tubes offer compatibility with highly sustainable R717 and maximum protection in aggressive environments. Designed with a small volume coil with minimal refrigerant charge for increased safety.

FEATURES

- Coil: hot-dip galvanised in batch process according to UNE.
 EN ISO 1461:2010. Ultra compact design
- Fans: Equipped as standard with axial EC fan motors, with the latest generation of EC technology (integrated controller).
 Compliant with ErP Directive. Low noise level fans
- Casing: GRP (glass fibre reinforced polyester)
 Stainless steel screws
 Stainless steel anti-cavitation filter as standard

OPTIONS

COIL

- Multicircuit
- Coil entirely made of stainless steel, AISI304L or AISI316L

CASING

- Perimeter maintenance ladder and walkways made exclusively of GRP
- Customisable colour

ELECTRICAL OPTIONS

- Electronic level control to replace the mechanical float valve
- Warning light

OTHER

- Heater installed in the recirculation water basin
- E-CARE water quality control system
- Reserve pump fitted with non-return valve
- 5-year extended Premium warranty with 24-hour after-sales service

APPLICATION



Food storage



Food processing



Ice rink



Industry







NH₃ V-shaped condenser

CAV: NH₃ V-shaped condenser

Cooling capacity from 180 kW to 1500 kW













NH₃ Condensers

ENEX INDUSTRIAL'S CAV V-shaped condenser with axial fans for out-door use is ideal for industrial refrigeration applications. Stainless steel tubes offer compatibility with highly sustainable R717 refrigerant and maximum protection in aggressive environments. The V-shape is suitable for remote installations where footprint is limited. Optional adiabatic panels increase efficiency particularly in warm climates.

FEATURES

- **Finned coil**: Built with 5/8" stainless steel tubes and corrugated aluminium fins
- Fans: Equipped as standard with AC fan motors.
 Axial fans with external rotor (380-480V III 50/60Hz)
 Compliant with ErP Directive Ø 800, 910, 1000 mm
- Casing: Galvanised steel painted with epoxy-polyester, and then baked and cured at 180°C giving it a high protection against corrosion even in extreme environmental conditions.
 Stainless steel screws
- **Design pressure: PS**=30bar **PT**=43bar

OPTIONS

FIN MATERIAL

- AL-MG Fins
- Coated Fins

CASING

· Stainless steel

ELECTRICAL OPTIONS

- EC fans
- · Service switch
- 60Hz fans

OTHER

- Circuits for sub-cooling
- Folding fans for inspection and cleaning of the finned package.
- Panel adiabatic system
- · Spray adiabatic system

APPLICATION



Food storage



Food processing



Ice rink



Industry



IT cooling







NH₃ Cubic unit cooler

EC: Cubic NH₃ & brine unit coolers

Cooling capacity from 3 kW to 550 kW













NH₂ Unit coolers

ENEX INDUSTRIAL'S EC cubic unit coolers for small to large cold rooms, are ideal for cooling and freezing applications. Specifically designed for pumped and gravity-fed flooded systems using highly sustainable R717 refrigerant. Stainless steel tubes offer NH₃ compatibility and maximum protection in aggressive environments.

FEATURES

- Finned coil: Built with stainless steel tubes AISI 304 of 5/8" Ø square geometry & 7/8" Ø staggered geometry, and aluminium fins
- Fans: Equipped as standard with AC fan motors.
 Axial three-phase motors (380-480V III 50Hz)
 Compliant with ErP Directive. Ø 350, 450, 500, 560, 630, 800, 910 mm
- Casing: Galvanized painted aluminum, creates high protection against corrosion even in extreme environmental conditions; in addition, this casing complies with the most stringent food hygiene standards
- Insulated tray: with polyurethane as standard to avoid condensation. Tray made entirely of GRP (fiberglass reinforced polyester), a light and resistant material, rigid, resistant to corrosion and a good thermal, acoustic and electrical insulator
- Design pressure: PS=30bar PT=43bar

OPTIONS

FIN MATERIAL

- AI -MG Fins
- Coated Fins

CASING

• Stainless Steel

DEFROST

- · Hot gas defrost
- Hot gas defrost in coil and electric in tray
- Electric defrost Water defrost
- · Fan ring heaters

OTHER

- · Connection to textile sleeves
- Shut-up System
- EOS Streamer Plus
- Suction hoppers
- Discharge hoppers with overpressure dampers for defrosting optimization
- EC fans
- Impellent fans
- · Centrifugal fans
- Adjustable support legs

APPLICATION



Food storage



Food processing



Industry







NH₃ dual flow unit cooler

ED: Dual flow NH₃ & brine unit coolers

Cooling capacity from 4 kW to 250 kW











NH₂ Unit coolers

ENEX INDUSTRIAL'S ED dual flow unit coolers for small to large cold rooms are ideal for cooling and freezing applications. Specifically designed for pumped and gravity-fed flooded systems using highly sustainable R717 refrigerant. Stainless steel tubes offer NH₃ compatibility and maximum protection in aggressive environments. Suitable for working areas (food preparation rooms, corridors) and temperature sensitive products (meat, fish, fruits etc.) where indirect air flow is preferred.

FEATURES

- Finned coil: Built with stainless steel tubes AISI 304 of 5/8" Ø square geometry & 7/8" Ø staggered geometry, and aluminium fins
- Fans: Equipped as standard with AC fan motors. Axial three-phase motors (380-480V III 50Hz) Compliant with ErP Directive Ø 350, 450, 500, 560, 630, 800, 910 mm
- Casing: Galvanized painted aluminum, creates high protection against corrosion even in extreme environmental conditions; in addition, this casing complies with the most stringent food hygiene standards
- Insulated tray: with polyurethane as standard to avoid condensation. Tray made entirely of GRP (fiberglass reinforced polyester), a light and resistant material, rigid, resistant to corrosion and a good thermal, acoustic and electrical insulator
- Design pressure: PS=30bar PT=43bar

OPTIONS

FIN MATERIAL

- AL-MG Fins
- Coated Fins

CASING

• Stainless Steel

Water defrost

· Electric defrost

· Fan ring heaters

OTHER

• EC fans

DEFROST

- Hot gas defrost
- · Hot gas defrost in coil and electric in tray

APPLICATION



Food storage



Food processing



Industry



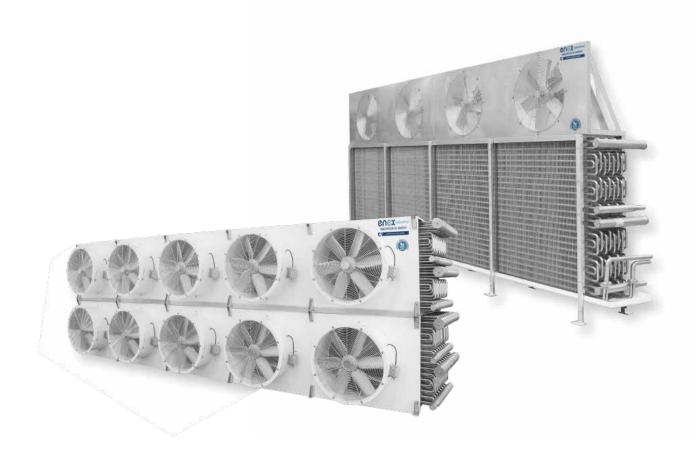




NH₃ Blast freezer

BTV/BF/SBF/ECT: NH_3 & brine blast freezers

Cooling capacity from 15 kW to 550 kW













NH₃ Blast freezer units

ENEX INDUSTRIAL's $\mathrm{NH_3}$ and brine blast freezer units are designed for fast cooling and freezing applications, requiring a uniform air distribution in the cold room. Engineered for a fast and homogeneous process that causes the formation of small ice crystals, which allows the food cells to retain their organolectic properties. Stainless steel tubes offer compatibility with highly sustainable R717 refrigerant and maximum protection in aggressive environments.

APPLICATION



Food storage



Food processing



Industry

FEATURES

- Finned coil: Built with stainless steel tubes AISI 304 of 5/8" Ø square geometry & 7/8" Ø staggered geometry, and aluminium fins
- Fans: Equipped as standard with AC fan motors.
 Axial three-phase motors (380-480V III 50Hz)
 Compliant with ErP Directive Ø 630, 800, 910 mm
- Casing: Galvanized painted aluminum, creates a high protection against corrosion even in extreme environmental conditions. In addition, this casing complies with the most stringent food hygiene standards
- Insulated tray: with polyurethane as standard to avoid condensation. Tray made entirely of GRP (fiberglass reinforced polyester), a light and resistant material, rigid, resistant to corrosion and a good thermal, acoustic and electrical insulator
- Design pressure: PS=30bar PT=43bar

OPTIONS

FIN MATERIAL

- AL-MG Fins
- Coated Fins

CASING

• Stainless Steel

DEFROST

- Hot gas defrost
- Hot gas defrost in coil and electric in tray
- Electric defrost

Water defrost

· Fan ring heaters

OTHER

- High pressure fans for >200Pa
 (ESP)
- EC fans
- Impellent fans
- · Centrifugal fans
- Adjustable support legs







CO₂ Blast freezer

KEB/KEV: CO₂ & brine blast freezers

Cooling capacity from 15 kW to 95 kW





AC fans



High pressure fans



All fluids ready







CO₂ Unit coolers

ENEX's CO₂ and brine blast freezer units are designed for fast cooling and freezing applications that require a uniform air distribution in the cold room and are compatible with highly sustainable R744 refrigerant. Engineered for a fast and homogeneous process that causes the formation of small ice crystals, which allows the food cells to retain their organolectic properties.

FEATURES

- Finned coil: Built with grooved copper tubes 5/8" Ø, and corrugated aluminium fins, manufactured according to CU-PROCLIMA® specifications
- Fans: Equipped as standard with AC fan motors.
 Axial motors (380-480V III 50Hz)
 Compliant with ErP Directive. Ø 500, 630 mm
- Casing: Galvanised steel painted with epoxy-polyester, and then baked and cured at 180°C creates high protection against corrosion even in extreme environmental conditions.
 In addition, this casing complies with the most stringent food hygiene standards

OTHER

AquaAero

• 60Hz Fans

Blygold

• Design pressure: PS=60bar PT=86bar

OPTIONS

FIN MATERIAL

• Copper Fins (only fin spacing

7mm)

Coated Fins

CASING

- Stainless Steel
- Side protections
- Separate ventilation kit (Only

KEV range)

DEFROST

- Hot gas defrost
- Hot gas defrost in coil and electric in tray
- Electric defrost
- Water defrost
- Fan ring heater

APPLICATION



Food storage



Food processing

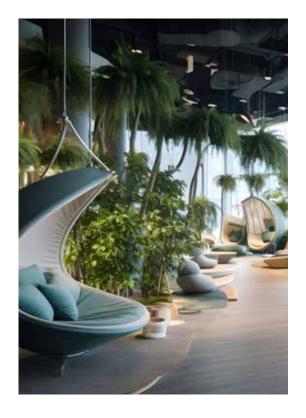


Industry



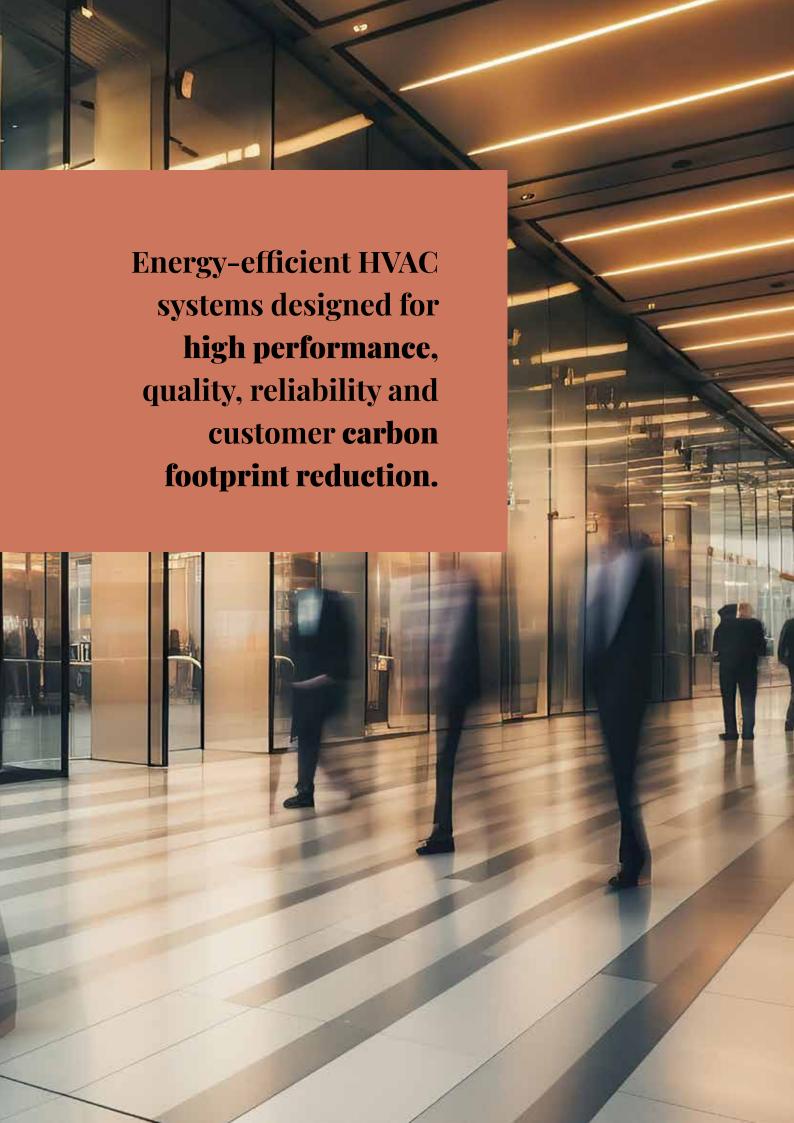
HVAC

Enex Technologies provides a wide range of chillers, heat pumps and multi- pipe units using natural refrigerants such as propane and CO2 for space cooling, space heating and domestic hot water, and suitable for office buildings, hotels, shopping malls, hospitals, data centres and other industrial applications. Enex Technologies is a pioneer in the use of propane and CO2 refrigerants in HVAC and has the expertise to always recommend the best natural refrigerant for the application.















Air-cooled reciprocating chiller

RAS MC Kp: Packaged air-cooled reciprocating chillers for outdoor use

Cooling capacity from 54 kW to 350 kW





Air Condensed



AC Axial fans



Semihermetic reciprocating compressors



Plate exchangers



Microchannel aluminium coils



EC Axial fans (Option)



Outdoor installation



Inverter technology





High efficiency (Option)



EMICON's propane packaged air-cooled reciprocating chillers for outdoor use, suitable for HVAC and high temperature process cooling applications. Microchannel condenser coils mean only a minimal charge of highly sustainable R290 refrigerant is required.

FEATURES

- 1 or 2 independent cooling circuits equipped with 1 or 2 compressors for each circuit
- · Possibility to interface to BMS system
- Leak sensor turns off the compressors and activates the extraction fan in case of a refrigerant leak

OPTIONS

- Operation in cooling mode down to -10°C (Opt. BT) or -20°C (Opt. BF)
- Soundproofed compressors cabinet with higher thickness material
- · Partial heat recovery
- · Electronic thermostatic valve
- · Part-Winding compressor start-up system
- Advanced Cascade system up to n.6 units
- BACNET or TCP/IP Protocol serial interface with RS 485
- Inverter for pump
- · Hiweb supervision system

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall



IT cooling



Airport



Sports & Leisure



Food processing

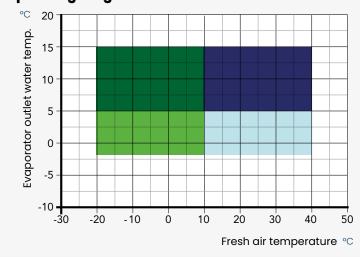


Industry



District cooling

Operating range



Cooling mode with condensing pressure control



Cooling mode



Cooling mode with glycol



Cooling mode with condensing pressure control and glycol







Free cooling chiller

RAS F Kp: Packaged air-cooled reciprocating chillers for outdoor use with free cooling

Cooling capacity from 54 kW to 350 kW





Air Condensed



AC Axial fans



Semihermetic reciprocating compressors



Plate exchangers



Microchannel aluminium coils



EC Axial fans (Option)



Outdoor installation



Free Cooling





High efficiency (Option)



Inverter technology



EMICON's propane packaged air-cooled reciprocating chillers for outdoor use with free cooling, using highly sustainable R290 refrigerant, are suitable for high temperature process cooling applications, data centres and in general where cooling is required all year round. When the outdoor ambient temperature is sufficiently low, the integral free cooling coils allow cooling without operating the compressors.

FEATURES

- 1 or 2 independent cooling circuits equipped with 1 or 2 compressors for each circuit
- · Possibility to interface to BMS system
- Leak sensor turns off the compressors and activates the extraction fan in case of a refrigerant leak
- Integrated free-cooling section allows for partial or total recovery of cooling capacity from external air with low energy consumption

OPTIONS

- Soundproof compressor cabinet with higher thickness material
- · Axial fans with electronic commutated motor
- · Partial heat recovery
- · Electronic thermostatic valve
- · Part-Winding compressor start-up system
- Advanced Cascade system up to n.6 units
- BACNET or TCP/IP Protocol serial interface with RS 485
- Inverter for pump and compressor

APPLICATION



IT cooling



Food processing

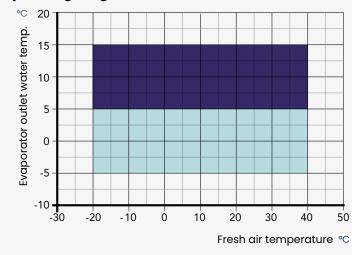


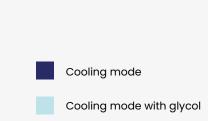
Industry



District cooling

Operating range











Water-cooled reciprocating chiller

RWS Kp: Packaged water-cooled reciprocating chillers for indoor and outdoor use

Cooling capacity from 60 kW to 390 kW









Semihermetic reciprocating compressors









EMICON's propane packaged water-cooled reciprocating chillers for indoor and outdoor use, using highly sustainable R290 refrigerant, are suitable for HVAC and high temperature process cooling applications.

FEATURES

- 1, 2 or 4 independent cooling circuits equipped with 1 compressor for each circuit
- · Soundproof compressor cabinet with higher thickness material
- · Possibility to interface to BMS system
- Leak sensor turns off the compressors and activates the extraction fan in case of a refrigerant leak

OPTIONS

- · User connections on top
- · Part-winding compressor start-up system
- Partial heat recovery
- · Electronic thermostatic valve
- BACNET or TCP/IP Protocol serial interface with RS 485
- Advanced Cascade system
- Hiweb supervision system

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall



IT cooling



Airport



Sports & Leisure



Food processing

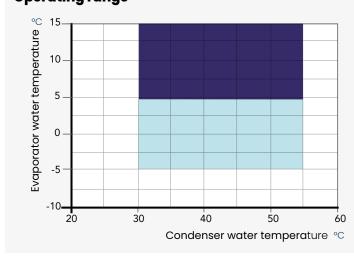


Industry



District cooling

Operating range



Cooling mode

С

Cooling mode with glycol







Everest²⁹⁰ chiller

RAE MC Kp: Air-cooled modular chillers for outdoor use

Cooling capacity up to 800 kW





Air Condensed



Scroll compressors



Plate exchangers



High efficiency



EC Axial fans



Outdoor installation



Natural Refrigerant



Easy access for maintenance





EMICON's Everest²⁹⁰ packaged air-to-water scroll propane chiller for outdoor use, incorporates a fully modular concept that ensures an extremely low charge of highly sustainable R290 refrigerant per circuit, providing maximum safety. Suitable for all HVAC applications scroll compressors guarantee outstanding efficiencies and wide operating limits, it can operate at outdoor temperatures of up to 48 °C, producing a glycol solution up to -8 °C.

FEATURES

- Capacity expansion: up to a maximum of 10 units
- Extensibility: possibility to extend the installation whenever necessary, even after start-up
- High efficiency even at partial loads
- Minimal refrigerant charge for each unit, in modular configuration. Additionally, each refrigerant circuit is isolated, thus reducing waste to the minimum in case of refrigerant leakage
- Operation continuity with the 'Master in rotation' logic that allows one of the modules to be excluded for ordinary or extraordinary maintenance or for any other customer requirement, with no interruption to the operation of all other units
- **Easy maintenance** thanks to the 'slide in-slide out' system
- Accessibility: Main components are accessible from the front for easy maintenance

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall



Apartment building

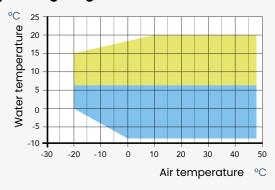


Airport



Sports & Leisure

Operating range



Cooling

Cooling with glycol







Everest²⁹⁰ heat pump

PAE/PAE WA Kp: Modular packaged air-to-water reversible scroll heat pump for outdoor use

Cooling capacity up to 998 kW / Heating capacity up to 1110 kW





Air Condensed



Scroll compressors



Plate exchangers



High efficiency



EC Axial fans (Option)



Outdoor installation



Natural Refrigerant



Easy access for maintenance







EMICON's Everest²⁹⁰ packaged air-to-water reversible scroll propane heat pump for outdoor use, incorporates a fully modular concept that ensures an extremely low charge of highly sustainable R290 refrigerant per circuit, providing maximum safety. Suitable for all HVAC applications and capable of producing hot water up to 77°C. The latest generation of scroll compressors, installed in tandem or trio configuration, guarantee outstanding efficiencies and wide operating limits, down to -20°C outdoor ambient in heating mode. Heating-optimized and cooling-optimized versions.

FEATURES

- Capacity expansion: up to a maximum of 10 units
- Extensibility: possibility to extend the installation whenever necessary, even after start-up
- High efficiency even at partial loads
- Minimal refrigerant charge for each unit, in modular configuration. Additionally, each refrigerant circuit is isolated, thus reducing waste to the minimum in case of refrigerant leakage
- Operation continuity with the 'Master in rotation' logic that allows one of the modules to be excluded for ordinary or extraordinary maintenance or for any other customer requirement, with no interruption to the operation of all other units
- **Easy maintenance** thanks to the 'slide in-slide out' system
- Accessibility: Main components are accessible from the front for easy maintenance

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall



Apartment building

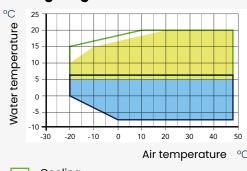


Airport



Sports & Leisure

Operating range

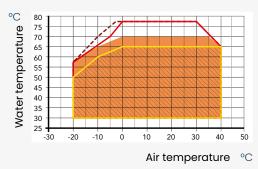


Cooling
PAE 881 Kp / PAE 1001 Kp / PAE 1001 Kp+LNF

Cooling with glycol
PAE 881 Kp / PAE 1001 Kp / PAE 1001 Kp+LNF

Cooling PAE 881 WA Kp

Cooling with glycol PAE 881 WA Kp



Heating mode PAE 881 Kp

Heating mode PAE 881 WA Kp

Heating mode
PAE 1001 Kp + LNF

Heating mode
PAE 1001 Kp







Air-to-water reciprocating heat pump

PAS Kp: packaged air-to-water reversible reciprocating heat pump for outdoor use

Cooling capacity from 36 kW to 297 kW Heating capacity from 43 kW to 335 kW





Air Condensed



AC Axial fans



Semihermetic reciprocating compressors



Plate exchangers



Microchannel aluminium coils



EC Axial fans (Option)



Inverter technology



Outdoor installation





High efficiency (Option)



EMICON's propane packaged air-to-water reversible reciprocating heat pump, using highly sustainable R290 refrigerant, is suitable for outdoor use, in all HVAC applications.

FEATURES

- 1 or 2 independents cooling circuits equipped with 1 or 2 compressors for each circuit.
- · Possibility to interface to BMS system.
- Leak sensor turns off the compressors and activates the extraction fan in case of a refrigerant leak.
- Operation in cooling mode down to -10°C

OPTIONS

- Operation in cooling mode down to -20°C (Opt. BF)
- Soundproof compressor cabinet with higher thickness material
- · Partial heat recovery
- · Electronic thermostatic valve
- Part-winding compressor start-up system
- Advanced Cascade system up to n.6 units
- BACNET or TCP/IP Protocol serial interface with RS 485
- Inverter for pump
- · Hiweb supervision system

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall

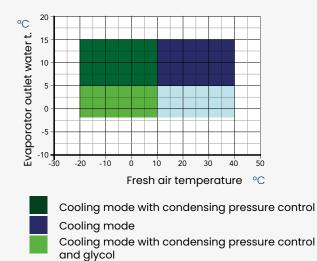


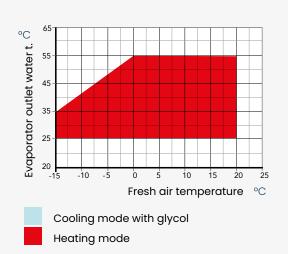
Airport



Sports & Leisure

Operating range











Everest²⁹⁰ 4-Pipe

GPE Kp: Modular packaged air-to-water reversible scroll multi-pipe unit for outdoor use

Cooling capacity up to 991 kW / Heating capacity up to 1160 kW





Air Condensed



Scroll compressors



Plate exchangers



High efficiency



EC Axial fans (Option)



Outdoor installation



Natural Refrigerant



Easy access for maintenance



Small footprint



EMICON's Everst²⁹⁰ propane packaged air-to-water reversible scroll multi-pipe unit for outdoor use, incorporates a fully modular concept that ensures an extremely low charge of highly sustainable R290 refrigerant per circuit, providing maximum safety. Suitable for all HVAC applications where simultaneous or independent production of chilled and hot water is required, such as hotels and buildings with glass facades. The latest generation scroll compressors installed in tandem or trio configuration, provide outstanding efficiencies and wide operating limits, down to -20°C in heating mode and + 77°C outdoor ambient in cooling mode. Heating-optimized and cooling-optimized versions.

FEATURES

- Capacity expansion: up to a maximum of 10 units
- Extensibility: possibility to extend the installation whenever necessary, even after start-up
- High efficiency even at partial loads
- Minimal refrigerant charge for each unit, in modular configuration. Additionally, each refrigerant circuit is isolated, thus reducing waste to the minimum in case of refrigerant leakage
- Operation continuity with the 'Master in rotation' logic that allows one of the modules to be excluded for ordinary or extraordinary maintenance or for any other customer requirement, with no interruption to the operation of all other units
- Easy maintenance thanks to the 'slide in-slide out' system
- Accessibility: Main components are all accessible from the front for easy maintenance

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall

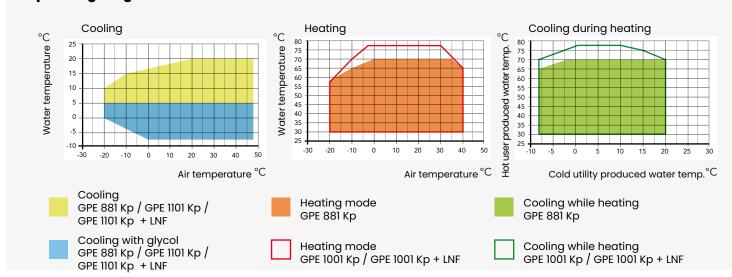


Airport



Sports & Leisure

Operating range









Air-to-water reciprocating 4-Pipe

GPS Kp: Packaged air-to-water reversible reciprocating multi-pipe unit for outdoor use

Cooling capacity from 49 kW to 285 kW Heating capacity from 58 kW to 325 kW





Air Condensed



AC Axial fans



Semihermetic reciprocating compressors



Plate exchangers



EC Axial fans (Option)



Outdoor installation



Inverter technology (Option)



High efficiency (Option)





EMICON's propane packaged air-to-water reversible reciprocating multi-pipe unit for outdoor use, using highly sustainable R290 refrigerant, is suitable for all HVAC applications where simultaneous or independent production of chilled and hot water is required, such as hotels and buildings with glass facades.

FEATURES

- 1 or 2 independents cooling circuits equipped with 1 or 2 compressors for each circuit
- · Possibility to interface to BMS system
- Leak sensor which turns off the compressors and activates the extraction fan in case of a refrigerant leak

OPTIONS

- GPS VS HE Kp high efficiency version
- Axial fans with electronic commutated motor (EC fans)
- BACNET or TCP/IP Protocol serial interface with RS 485
- · Enhanced microprocessor board
- · Remote display
- Advanced Cascade system
- Hi.Pro Web software
- · Copper/Copper coil
- · Pumps kit
- Inverter on compressors (VS version)
- Brine Version

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall

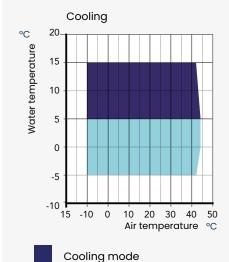


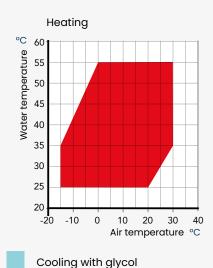
Airport

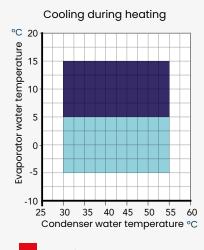


Sports & Leisure

Operating range













Air-to-water screw 4-Pipe

GPH S Kp: Packaged air-to-water reversible screw multi-pipe unit for outdoor use

Cooling capacity from 340 kW to 600 kW Heating capacity from 390 kW to 676 kW





Air Condensed



AC Axial fans



Screw compressors



Plate exchangers



Low Noise



EC Axial fans (Option)



Outdoor installation



Inverter technology (Option)





High efficiency (Option)



EMICON's propane packaged air-to-water reversible screw multi-pipe unit for outdoor use, using highly sustainable R290 refrigerant, is suitable for all HVAC applications where simultaneous or independent production of chilled and hot water is required, such as hotels and buildings with glass facades.

FEATURES

- 2 independents cooling circuits equipped with 1 or 2 compressors for each circuit
- · Possibility to interface to BMS system
- Leak sensor turns off the compressors and activates the extraction fan in case of a refrigerant leak

OPTIONS

- **GPH VS HE S Kp** High efficiency version (Full inverter)
- Axial fans with electronic commutated motor (EC fans)
- BACNET or TCP/IP Protocol serial interface with RS 485
- · Enhanced microprocessor board
- · Remote display
- Advanced Cascade system
- · Hi.Pro Web software
- Copper/Copper coil
- Pumps kit

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall

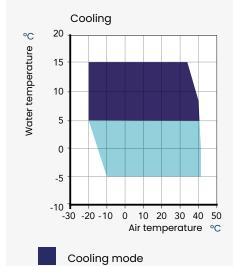


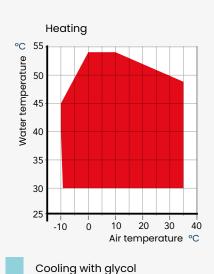
Airport

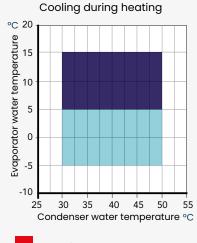


Sports & Leisure

Operating range













YUKON C

Split air-cooled reciprocating chiller with remote gas cooler

Cooling capacity from 35 kW to 940 kW





Remote gas cooler



Water-cooled (option)



Semihermetic reciprocating compressors



Plate exchangers



Flooded evaporator



Low Noise



Indoor/ Outdoor installation



Inverter technology





Connectivity



High hot water temperature



ENEX's YUKON C split air-cooled reciprocating chiller with remote gas cooler, using highly sustainable R744 refrigerant, is ideal for HVAC and high temperature process applications. Based on a transcritical CO₂ cycle and featuring a gravity fed flooded evaporator, it is suitable when a non toxic/non flammable refrigerant is preferred, when the installation is split, for example for noise requirements, and when heat recovery at high temperature (up to 80°C) is required.

FEATURES

- · Welded steel frame
- · Gravity fed flooded evaporator
- · Reciprocating compressors
- Stainless steel piping
- Proprietary control software
- Mechanical backup valves
- · Frequency converter on first compressor
- · Ducting of relief valves
- Connectivity via Modbus TCP/IP
- Energy meter
- Remote monitoring
- · Liquid receiver with PS 80 bar
- Pressure rating HP side PS=130 bar

OPTIONS

- Up to 2 heat recovery exchangers for low, medium or high ΔT
- · Cladding for outdoor use & noise reduction
- Ejector (on some models)
- Gas cooler bypass (LT kit for low ambient)
- Remote gas cooler (standard and low noise)
- Pressure rating HP side 130 bar with extended envelope

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall



IT cooling



Airport



Sports & Leisure

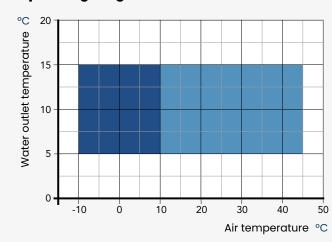


Industry



District cooling

Operating range



Standard

LT Kit







YUKON R

Split air-to-water reciprocating 4-Pipe unit with remote reversible gas cooler

Cooling Capacity from 34 kW to 570 kW Heating Capacity from 34 kW to 545 kW





Remote gas cooler



Water-cooled (option)



Semihermetic reciprocating compressors



Plate exchangers



Flooded evaporator



Low Noise



Indoor/ Outdoor installation



Inverter technology





Connectivity





CO₂ Heat pumps - 4 pipe

ENEX's YUKON R split air-to-water reciprocating multi-purpose unit with remote reversible gas cooler, using highly sustainable R744 refrigerant, is ideal for all HVAC applications where simultaneous or independent production of chilled and hot water is required, such as hotels and buildings. Based on a transcritical ${\rm CO_2}$ cycle and featuring a gravity fed flooded evaporator, it is suitable when a non toxic/non flammable refrigerant is preferred, when the installation is split, for example for noise requirements, and when heat recovery at high temperature (up to 80°C) is required.

FEATURES

- · Welded steel frame
- · Gravity fed flooded evaporator
- · Reciprocating compressors
- Stainless steel piping
- · Proprietary control software
- Mechanical backup valves
- Frequency converter on first compressor
- · Ducting of relief valves
- Connectivity via Modbus TCP/IP
- Energy meter
- · Remote monitoring
- · Liquid receiver with PS 80 bar
- Pressure rating HP side PS=130 bar
- ΔT up to 70K in heating mode

OPTIONS

- Up to 2 heat recovery exchangers for low, or high ΔT
- · Cladding for outdoor use & noise reduction
- Ejector (on some models)
- Gas cooler bypass (LT kit for low ambient in cooling mode)
- Remote reversible gas cooler (standard and low noise)
- Pressure rating HP side 130 bar with extended envelope

APPLICATION



Hospitality



Office building



Healthcare



Shopping mall

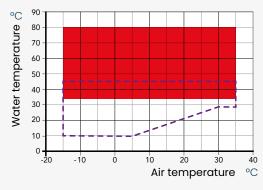


Airport

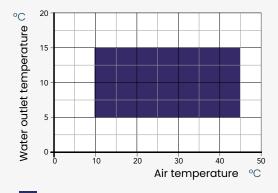


Sports & Leisure

Operating range



Heating mode - Water outlet
Heating mode - Water inlet



Cooling mode







AIRHEAT

Packaged air-to-water reciprocating heat pump for outdoor use, for domestic hot water production

Heating capacity from 10 kW to 100 kW for **domestic hot water** production applications or **process heating** with high delta temperature, up to 90 °C





EC Axial fans



Semihermetic reciprocating compressors



Plate exchangers



Low Noise



Outdoor installation



Natural Refrigerant



Connectivity



Plug & play





HVAC CO, Heat pumps

ENEX's packaged air-to-water reciprocating heat pump for outdoor use, with highly sustainable R744 refrigerant, is suitable for domestic hot water production, in hotels, laundries, hospitals, gyms and in general where large quantities of DHW are required. Capable of heating hot water from 10 to 90°C in one pass with outstanding efficiency, as a result of the advantageous characteristics of the CO₂ transcritical cycle.

FEATURES

- Finned pack evaporator
- · Stainless steel piping
- Hot gas defrost
- Electronic expansion valve
- · Proprietary control software
- · Variable speed water pump
- · Remote monitoring
- Connectivity via Modbus TCP/IP
- ΔT up to 85K

OPTIONS

- · Double wall heat exchanger
- Water pump suitable for domestic hot water
- Soft starter
- Low noise
- Cold recovery
- Coil enhanced corrosion protection
- Energy meter

APPLICATION



Hospitality



Healthcare



Apartment building



Swimming pool

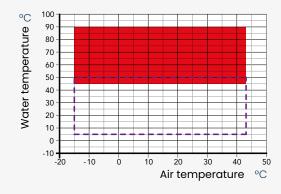


Laundry



Sports & Leisure

Operating range



Heating mode - Water outlet Heating mode - Water inlet

 $\Delta T \min = 20K$







GEOHEAT

Packaged water-to-water reciprocating heat pump for indoor use, for domestic hot water production

Heating capacity from 10 kW to 100 kW for **domestic hot water** production applications or **process heating** with high delta temperature, up to 90 °C





Semihermetic reciprocating compressors



Natural Refrigerant



Plate exchangers



Plug & play



Low Noise



Indoor installation





HVAC CO, Heat pumps

ENEX's packaged water-to-water reciprocating heat pump for indoor use, with highly sustaibable R744 refrigerant, is suitable for domestic hot water production, in hotels, laundries, hospitals, gyms and in general where large quantities of DHW are required. Capable of heating hot water from 10 to 90°C in one pass with outstanding efficiency, as a result of the advantageous characteristics of the ${\rm CO_2}$ transcritical cycle.

FEATURES

- Stainless steel piping
- Electronic expansion valve
- · Proprietary control software
- Variable speed water pump
- · Remote monitoring
- Connectivity via Modbus TCP/IP

OPTIONS

- · Water pump suitable for domestic hot water
- Soft starter

APPLICATION



Hospitality



Healthcare



Apartment building



Swimming pool

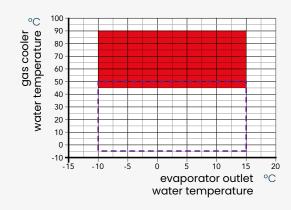


Laundry



Sports & Leisure

Operating range



Heating mode - Water outlet Heating mode - Water inlet

 $\Delta T \min = 20K$



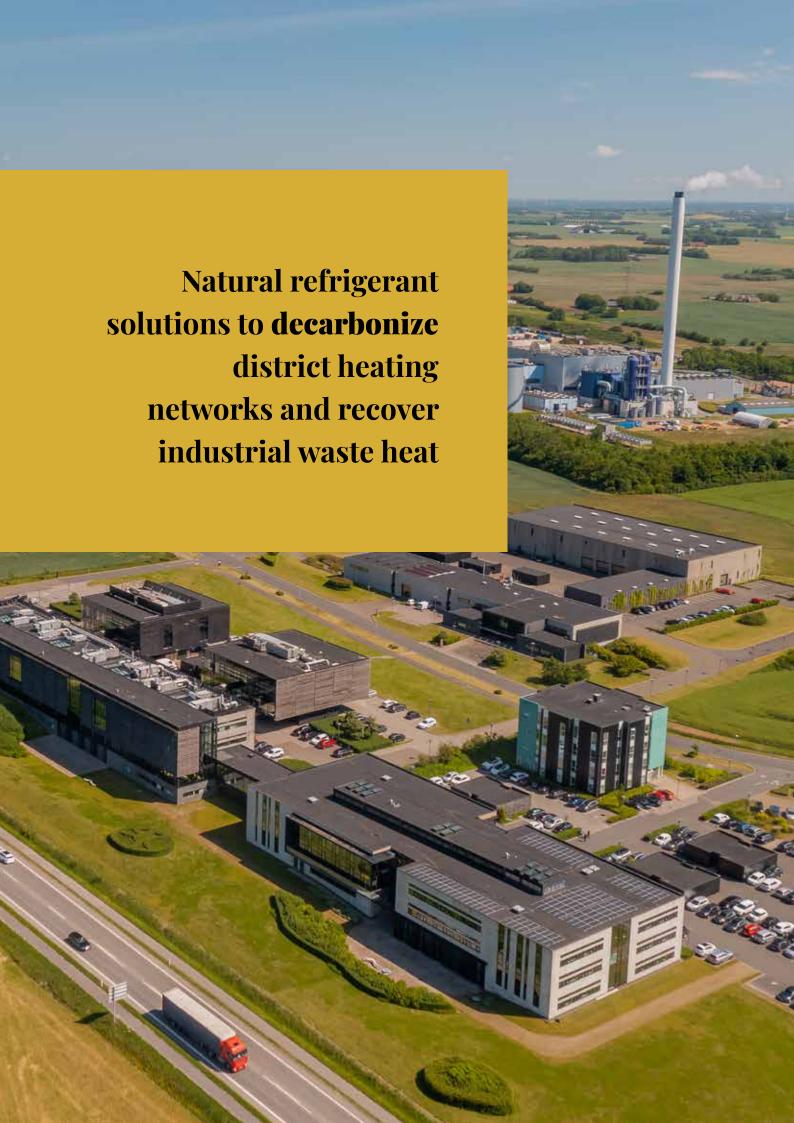
District Heating

Enex Technologies provides a wide range of industrial heat pumps using natural refrigerants including CO2 and ammonia, suitable for district heating, industrial processes and for boosting low-grade waste heat to high temperature, in applications such as steam generation preheating, injection into district networks and domestic hot water production.















YUKON D

Split air-to-water heating only reciprocating heat pump with remote evaporator

Heating capacity from 36 kW to 560 kW





Remote gas cooler



Water-cooled (option)



Semihermetic reciprocating compressors



Plate exchangers



Low Noise



Indoor/ Outdoor installation



Inverter technology



Connectivity







District Heating CO, Heat pumps

The YUKON D split air-to-water heating only reciprocating heat pump with remote evaporator from ENEX uses highly sustainable R744 refrigerant. It is based on a transcritical CO_2 cycle, and is the ideal choice when water must be heated at high temperatures (up to 80°C) with a large ΔT , such as in district heating applications, and when a non toxic/non flammable refrigerant is preferred.

FEATURES

- · Welded steel frame
- Reciprocating compressors
- Stainless steel piping
- · Proprietary control software
- Mechanical backup valves
- · Frequency converter on first compressor
- · Ducting of relief valves
- Connectivity via Modbus TCP/IP
- Energy meter
- · Remote monitoring
- ΔT up to 70K in heating mode
- Liquid receiver with PS 80 bar
- Pressure rating HP side PS=130 bar

OPTIONS

- Up to 2 heat recovery exchangers for low, medium or high ΔT
- · Cladding for outdoor use & noise reduction
- Remote evaporator (standard and low noise)

APPLICATION



Industry

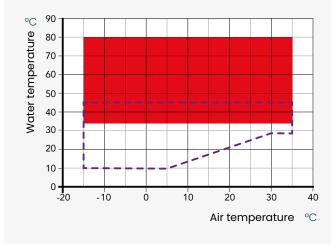


District heating



Hospitality

Operating range



Heating mode - Water outlet

Heating mode - Water inlet







YUKON W

Water-to-water reciprocating heat pump

Heating capacity from 36 kW to 3000 kW





Flooded evaporator



Water-cooled



Semihermetic reciprocating compressors



Plate exchangers



Low Noise



Indoor/Outdoor installation



Inverter technology



Connectivity





District Heating CO, Heat pumps

The Yukon W water-to-water reciprocating heat pump is based on a transcritical CO2 cycle. It is the ideal choice for industrial and large district heating systems using water as a source, when water must be heated at high temperatures (up to 80°C) and the hot side return temperature is below 35°C.

FEATURES

- Welded steel frame
- · Reciprocating compressors
- Stainless steel piping
- Proprietary control software
- Mechanical backup valves
- Frequency converter on first compressor
- Ducting of relief valves
- Connectivity via Modbus TCP/IP
- Energy meter
- Remote monitoring
- ΔT up to 70K
- Liquid receiver with PS 80 bar
- · Pressure rating HP side PS=130 bar

OPTIONS

Cladding for outdoor use & noise reduction

APPLICATION



Industry

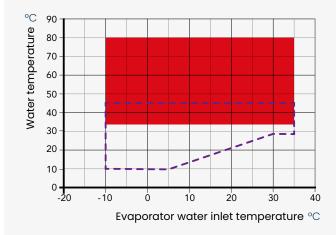


District heating



Hospitality

Operating range



Heating mode - Water outlet

Heating mode - Water inlet

Evaporator water outlet temperature: + 15°C to -15°C







NH₃ Industrial heat pump

WH: Custom heat pump for indoor use

Cooling capacity adapted to needs









District Heating

NH₃ Industrial heat recovery

ENEX INDUSTRIAL's WH custom heat pump for indoor use with air source via a remote evaporator or water / brine source uses highly sustainable R717 refrigerant. It is the ideal choice in very large district heating applications and for boosting low grade waste heat to high temperature. A refrigerant booster version uses the condensation of the low stage as the evaporator for the high stage, producing water at high temperature with outstanding efficiency, and it is applicable in large industrial refrigeration systems where very hot water is also required.

APPLICATION



Industry



District heating



Food processing

FEATURES

- 1 to 4 compressors in parallel
- Wide range of evaporating and condensing temperature
- Painted steel drip tray
- Stainless steel 304L piping for water/brine circuit

OPTIONS

- Multiple Compressor brand: Mycom, Bitzer, Srmtec, GEA, Howden, Vilter
- · High efficiency motor
- Evaporator options:
 - Remote air evaporator
 - Water / brine source
- Refrigerant booster version
- Polyurethane foam injected under aluminum cladding for insulation of cold components
- Electrical cabinet with industrial PLC

Natural refrigerant catalog | Rev.7 Version Oct 2025 | ENG

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