

# The Future of Refrigeration: R290 Indirect System

THE SUSTAINABLE,  
EFFICIENT, AND  
INNOVATIVE CHOICE

# Key Advantages

## Sustainability, Safety, & Reliability

### Only natural refrigerants

R290 (GWP=0,02) & CO<sub>2</sub> (GWP=1), F-gas compliant / no PFAS

### Ease of installation and maintenance

Hydronic system & subcritical CO<sub>2</sub>.

### Maximum safety

Modular design with small R290 charge per circuit.

### Maximum reliability

Premium components & fully factory tested.

### Fully independent

Fully independent heating & cooling (with 4-pipe unit).

### Possibility of full outdoor installation

No plant room required, also in noise sensitive environments

# Adaptable to Your needs

Brine temperature  
down to

**-15°C**

CO<sub>2</sub> temperature  
down to

**-45°C**

Outdoor ambient  
temperature up to

**48°C**

Free hot water  
up to

**77°C**

for all needs (defrost,  
heating, drying, sanitary,  
steam pre-heating...)



# Solving Your Refrigeration Needs

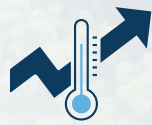
## Ideal Applications



Ideal for food storage and food processing facilities up to 1 MW



Suitable for new installations and replacement of existing HFC/HFO chillers



With 4- pipe, a flexible solution when heating loads are much higher than cooling loads

## Your Partner for Success

### ENEX TECHNOLOGIES SERVICE

HIGH LEVEL EXPERTISE AND  
CUSTOMER SUPPORT ON  
ENEX TECHNOLOGIES EQUIPMENT  
ACROSS EUROPE

- On-site or remote **technical support**
- Management of routine and preventive **maintenance**
- **Technical trainings** for customer and installers
- **Remote monitoring**
- **Spare parts** management





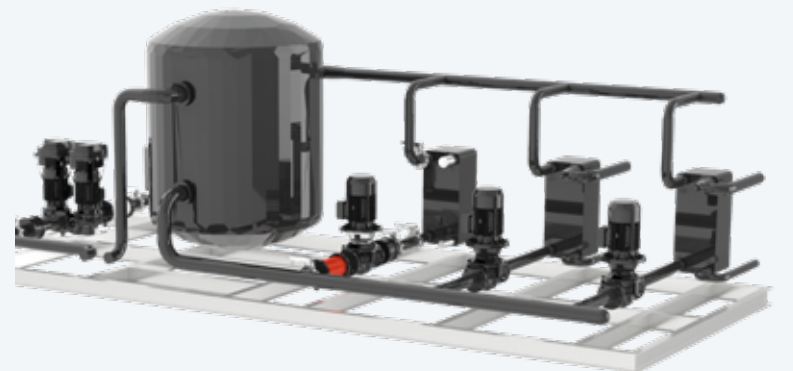


# CO2 units



**REFRIGERATION SUBCRITICAL UNIT**  
for indoor installation  
*Kube Series*  
Cooling capacity from 8 kW to 270 kW  
Custom units up to 1 MW

## Pump skid



**PUMP SKID**  
Custom built  
(on request)



# R290 Chillers & Heat pumps 2 or 4 pipe



**MODULAR PACKAGED AIR-COOLED RECIPROCATING CHILLER AND HEAT PUMPS 2 OR 4 PIPE**  
for outdoor installation  
*Everest RAE Kp, PAE Kp GPE Kp Series*  
Cooling capacity from 66 kW to 1120 kW  
Heating capacity from 80 kW to 1150 kW



**BRINE RECIPROCATING CHILLERS HEAT PUMP 2 OR 4 PIPE**  
for outdoor installation  
*RAS MC VB Kp, PAS Kp, GPS Kp Series*  
Cooling capacity from 31 kW to 235 kW  
Heating capacity from 40 kW to 330 kW



**SCREW CHILLERS HEAT PUMP 4 PIPE**  
for outdoor installation  
*RAH MC Kp, GPH Kp Series*  
Cooling capacity from 397 kW to 788 kW  
Heating capacity from 390 kW to 676 kW

**Extreme RELIABILITY and SAFETY**  
Propane pioneers since 2007: 2000+ units in the field

- ATEX extraction **FANS**
- ATEX certified **COMPRESSOR**
- ATEX gas leak **DETECTOR**
- ELECTRICAL PANEL** separated from the compressor compartment
- REDUCED VIBRATIONS** on the refrigerant circuit

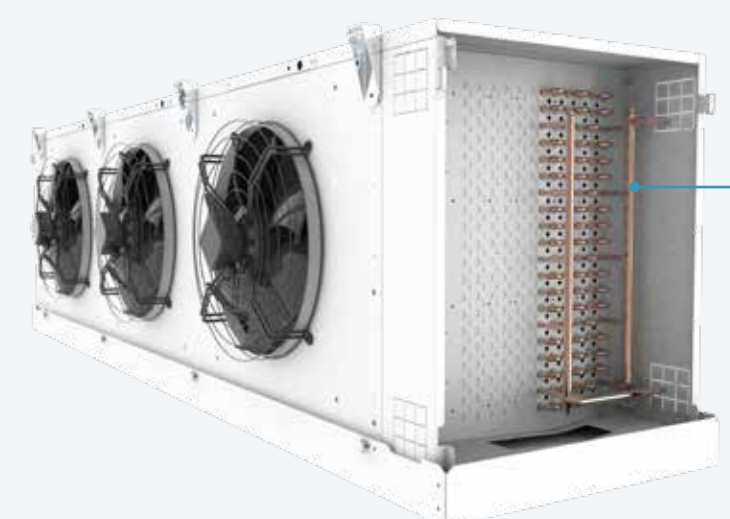
## Air coolers



**CO2 AIR COOLER BLAST FREEZER**  
*KEB/KEV Series*  
Cooling capacity from 14 kW to 92 kW



**BRINE AIR COOLER CUBIC**  
*BC Series*  
Cooling capacity from 5 kW to 185 kW



**BRINE AIR COOLER DUAL FLOW**  
*BD Series*  
Cooling capacity from 5 kW to 100 kW

**HOT GLYCOL DEFROST CIRCUIT**  
embedded in the main coil

## Customer Stories

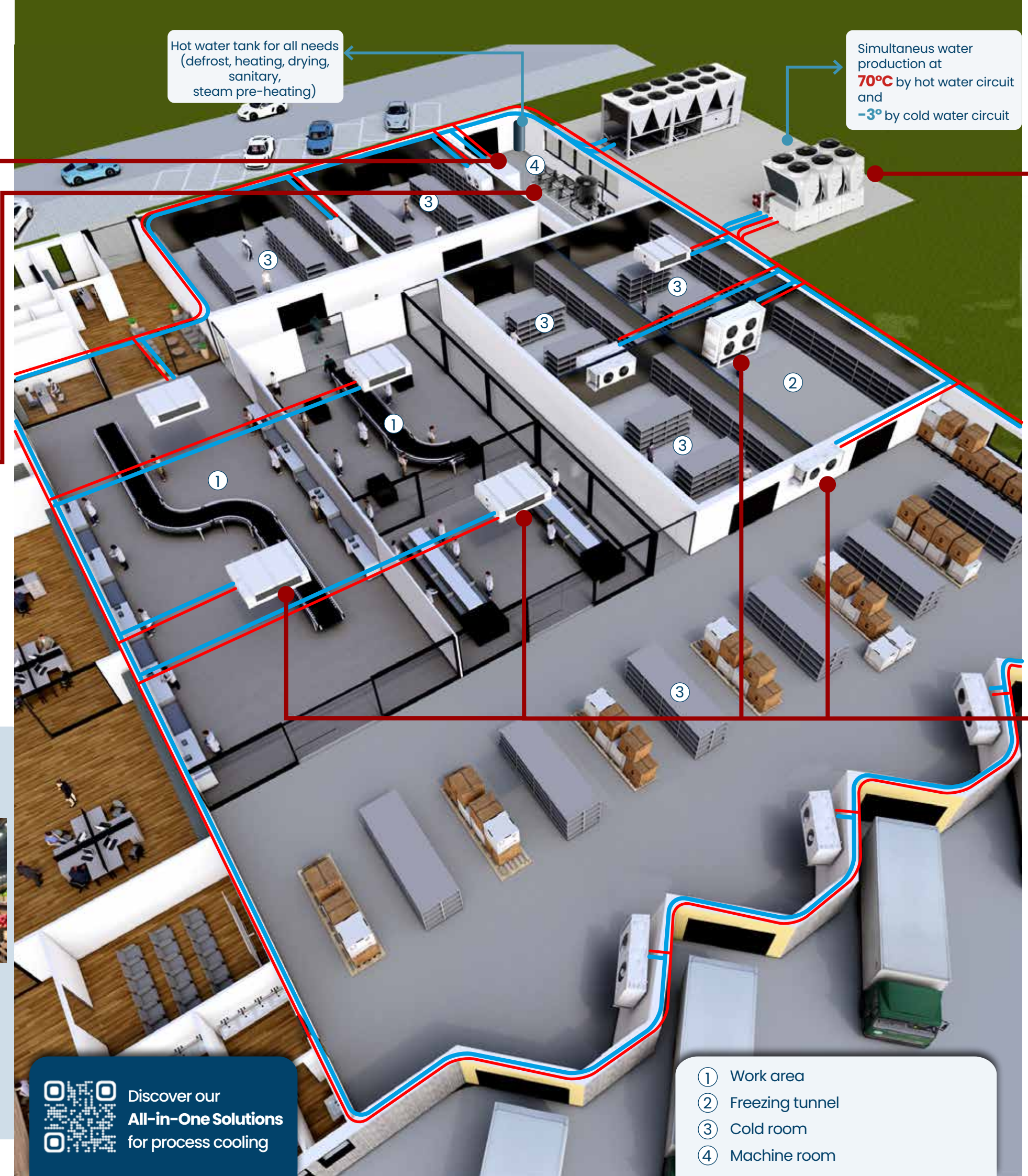
**Country:** France  
**Application:** Fruit storage  
**Cooling capacity:** 1000 kW  
**Installed unit:** 3 x R290 Air cooled chillers with inverter screw compressors remote monitored 3 x RAH MC U VS Kp



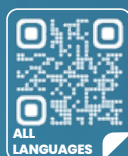
**Country:** Sweden  
**Application:** Food storage  
**Cooling capacity:** 1,5 MW  
**Installed unit:** 4 Air cooled chiller with inverter screw compressors (double temperature -3°C and -8°C) 4 x RAH MC U VS Kp

Discover our **All-in-One Solutions** for process cooling

- ① Work area
- ② Freezing tunnel
- ③ Cold room
- ④ Machine room







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ENG\_Rev.2

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**MORGANA**  
HEAT EXCHANGERS NATURALLY

**ROENEST**  
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