R 290

MAXILINE P12

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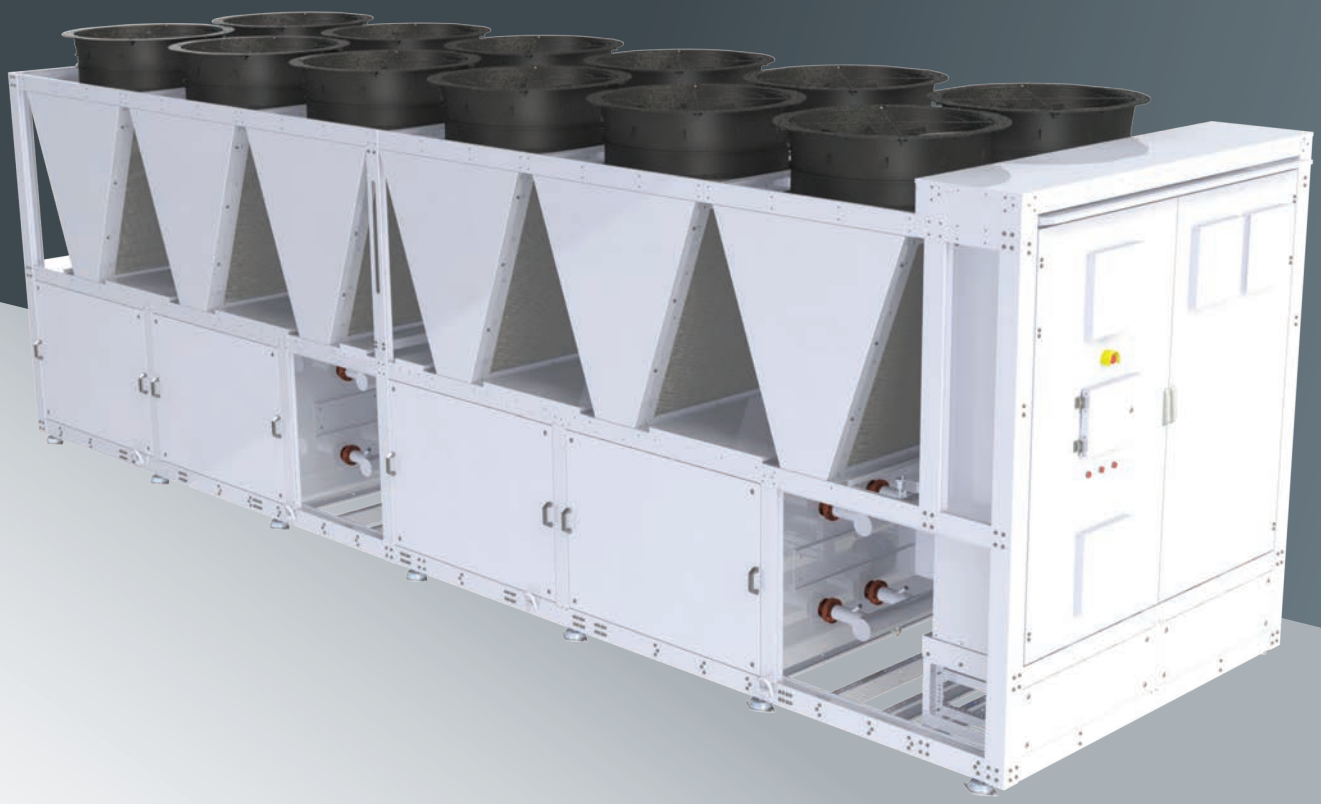
Natural refrigerant R 290

HT from 2 °C to 20 °C
MT from -15 °C to 2 °C
LT from -35 °C to -15 °C

Cooling capacity range

from 120 kW to 850 kW (*)

(*) External air temperature 35 °C;
evaporator inlet/outlet water 12/7 °C



FRIGOPLUS

NATURAL COOLING & HEATING

AIR COOLED CHILLERS

MAXILINE air cooled chillers are used for indirect cooling for industrial processes, milk processing industry, chemical industry, logistics centers for food retail, precision cooling of data centers. Heat transfer fluid can be water, mixture of water and ethylene/ propylene glycol or some other secondary heat transfer fluid.

Air-water chiller is packaged in a single housing and all the components of the refrigerant circuit are built into the unit. Thus, chillers are compact and easy to install on site. Refrigerant is propane (R 290), which due to its excellent thermodynamic properties allows the use of a chiller in the temperature range from -35 to 20 °C. A microprocessor controls the operation of the unit and optimize parameters in order to achieve as hig efficiency as possible.

SAFETY

All chillers are designed in accordance with the highest safety standards and follows EN 378 for refrigerants from group A3.

ECOLOGY

Natural refrigerant: propane - R 290.

It belongs to the group of hydrocarbons with GWP = 3 which is completely exempted from the restrictions prescribed by the EU F-GAS REGULATION.

ENERGY EFFICENCY

Thanks to the ideal thermodynamic characteristics of the R 290 refrigerant and the optimal selection of the key components of the refrigeration circuit, the chillers have high energy efficiency and meet the requirements of ECODESIGN REGULATIONS.

QUALITY PROGRAMME

- Testing units according to HRN EN 14 511
- ISO 9001 : 2015
- Modul A2 - Monitoring of Final Assessment, according to Directive 2014/68/EU



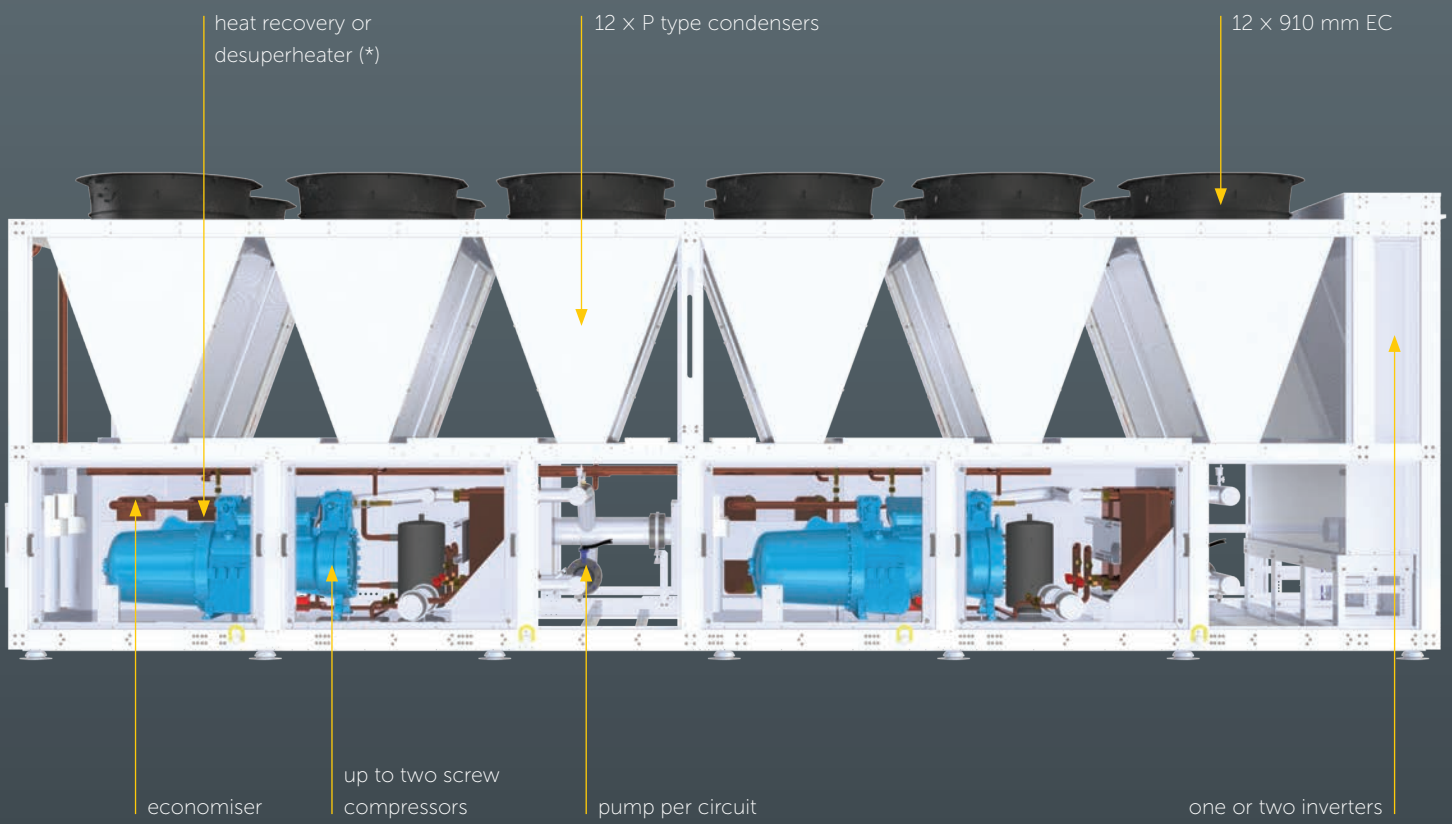


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NATURAL COOLING & HEATING

MAXILINE P12

R290



TEMPERATURE RANGE

LT	-35 °C	-15 °C
MT	-15 °C	2 °C
HT	2 °C	20 °C

COOLING CAPACITY RANGE

120 kW - 850 kW (*)

(*) External air temperature 35 °C; evaporator inlet/outlet water 12/7 °C

COMBINATIONS

	COMPRESSORS	INVERTERS	without pumps			with pump per circuit		
			cold side short tubes	cold side collectors	hot side short tubes	cold side short tubes	cold side collectors	hot side short tubes
STANDARD	1	0 - 1	✓	✓	✗	✓	✓	✗
	2	0 - 2						
SERIAL HEAT RECOVERY or DESUPERHEATER	1	0 - 1	✓	✓	✓	✓	✓	✓
	2	0 - 2						
INTEGRATED FREE COOLING	1	0 - 1	✗	✓	✗	✓	✗	✗
	2	0 - 2						

- Natural refrigerant
- Compact screw compressors
- Inverter driven compressors
- High efficiency asymmetric evaporators
- Microchannel aluminum air condenser
- EC air condenser fans for precise condensing control
- Electronic expansion valve
- Inovative technical cooling solution for high energy efficiency
- Optional equipment:
  - AC/EC Primary pump
  - Serial heat recovery
  - Desuperheater
  - Integrated free cooling (*)

(*) Not possible with the largest compressors



Asymmetric heat exchangers
Reduction of the refrigerant charge and brine pressure drop in combination with improved heat transfer



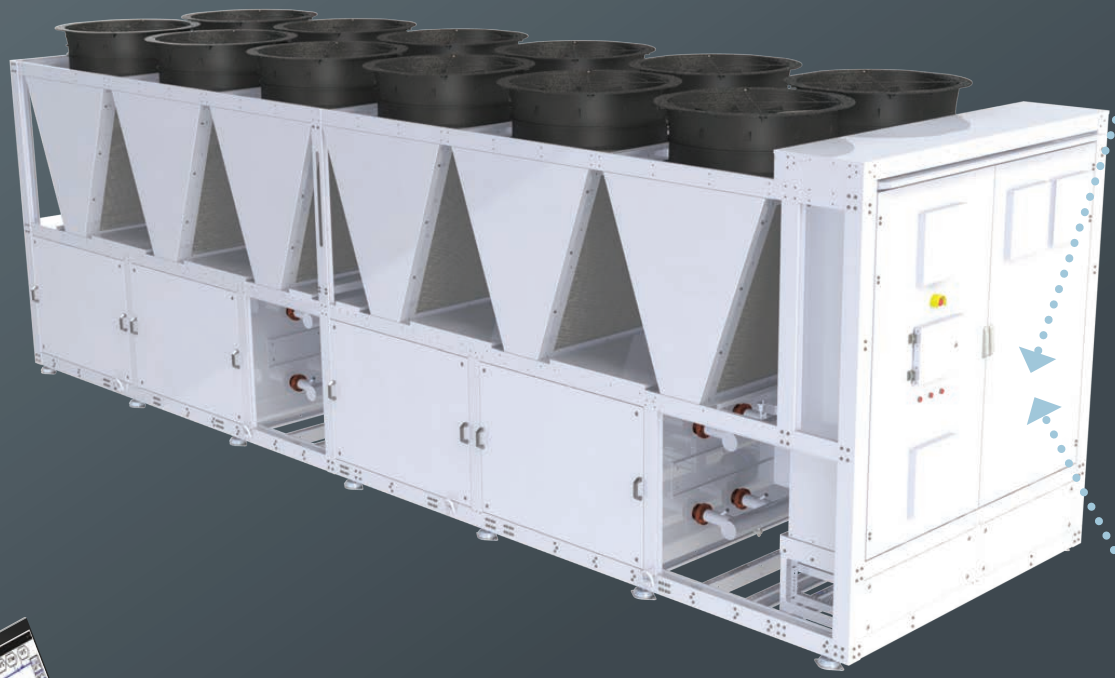
Economiser
Compact plate heat exchanger with addition of EEV for additional liquid subcooling for increased unit efficiency

Cross-section of the channels inside of a symmetric and asymmetric plate heat exchanger



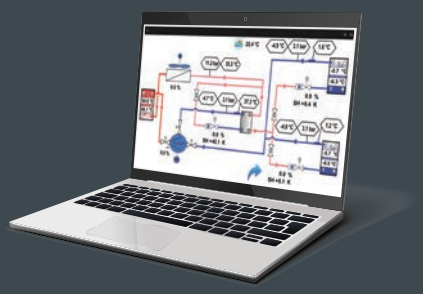
CONTROLLER by
SIEMENS

SIEMENS
CLOUD MONITORING



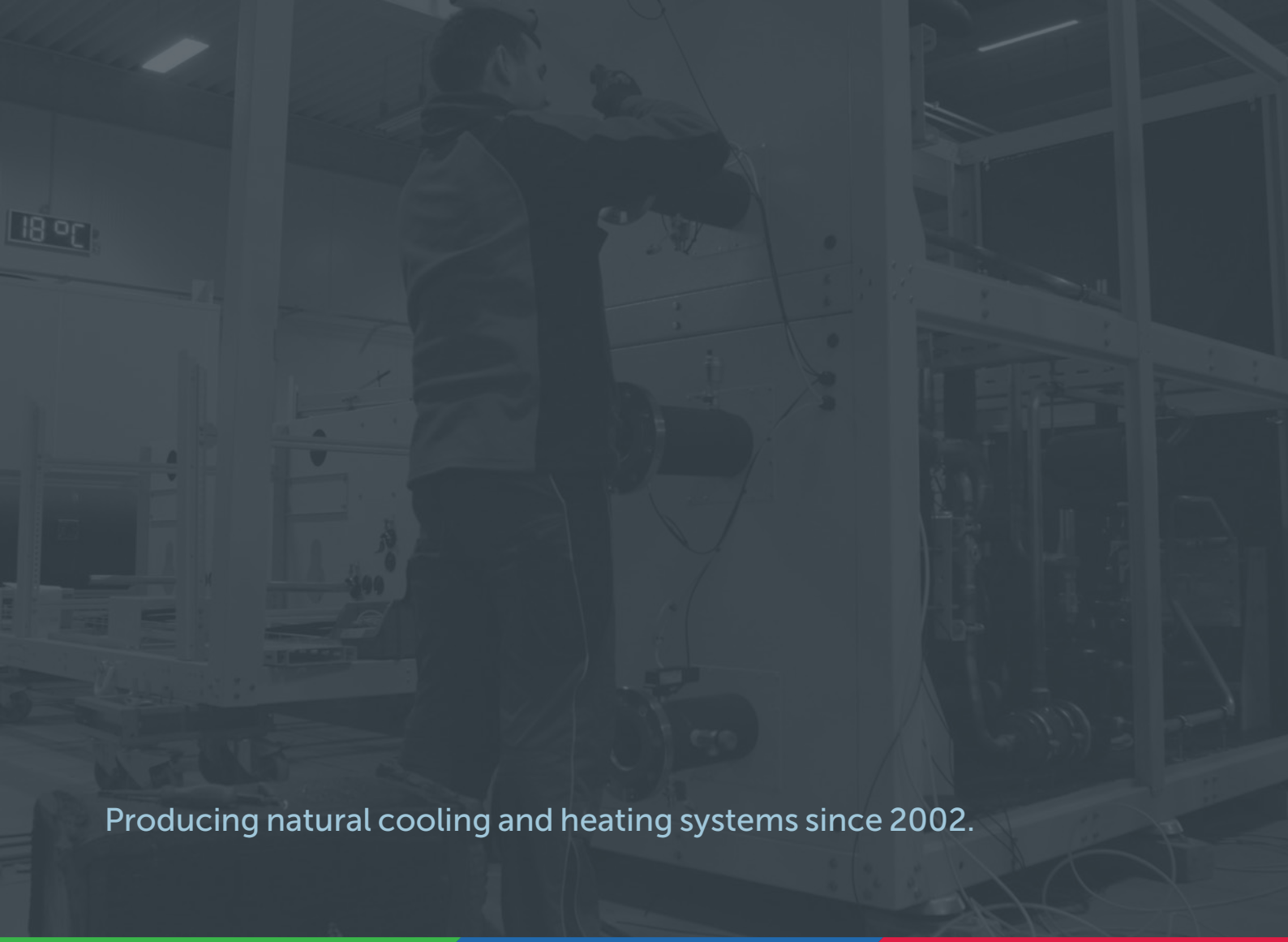


CUSTOMER



FRIGOPLUS

- Intuitive and user frendly TOUCH SCREEN
- Innovative algorithm for precise control of outlet water/glycol temperature
- Advanced operation control for ‘heat recovery’ and precise outlet hot water temperature
- Alarm managment for safe and reliable chiller operation
- Easy connectivity with standard MODBUS and BacNET protocols



Producing natural cooling and heating systems since 2002.

FRIGOPLUS

NATURAL COOLING & HEATING

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