R 290 & R 600a

WONE & MINIWONE

WONE & MINIWONE

Natural refrigerants R 290 & R600a

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 3 kW to 250 kW (*)

Heating temperature regimes up to 90 °C

High temperature heating capacity up to 200 kW (**)

(*) Evaporator inlet/outlet water 12/7 °C

(**) Condenser inlet/ outlet water 35/75 °C

FRIGOPLUS

NATURAL COOLING & HEATING

WATER COOLED CHILLERS

Water cooled chillers are used for indirect cooling for air conditioning of buildings, industrial processes, 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. Refrigerant is propane (R 290), which due to its excellent thermodynamic properties allows the use of the chiller in the temperature range from -35 to 20 °C.

HIGH TEMPERATURE HEAT PUMPS

Iso-butane (R 600a) refrigerant enables very high temperature aplications (up to 90 °C) for this type of units. High temperature heat pumps are very suitable for peak loads of district heating systems and for heating of the buildings, also for industrial proceses where waste heat must be raised to higher energy levels. If temperatures that need to be reached for heating are lower, it is recomended to use propane (R 290) water - water heat pumps for better efficiency and smaller footprint.

WONE & MINIWONE

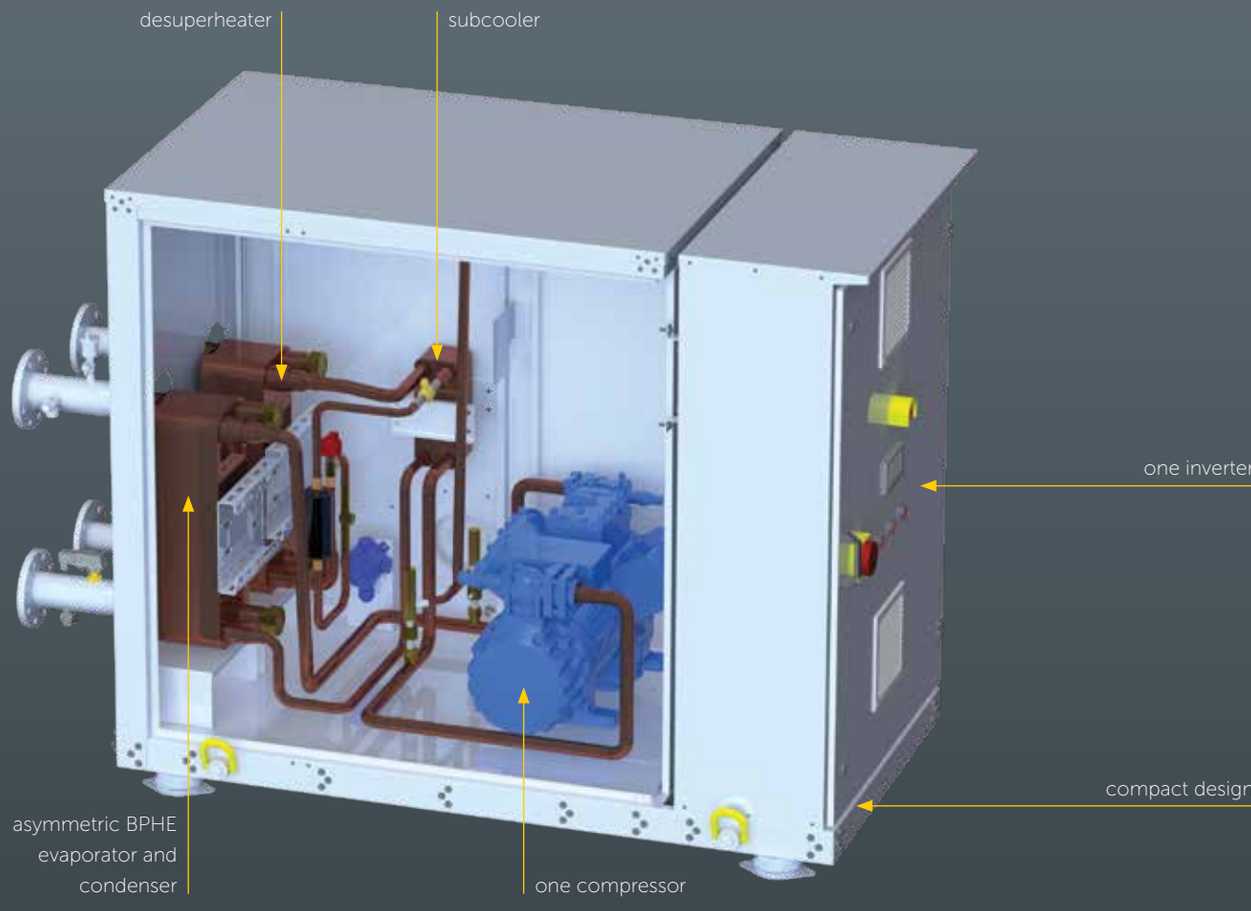
- Wone & MiniWone units are packaged in compact housing and all of the components of the refrigerant circuits are built into the unit.
- Units can easily be stacked (great flexibility of the capacity).
- Small footprint ensures that units can be installed in every machine room (up to 1100 mm unit width).
- Units can be made for outside instalation.
- A microprocessor controls the operation of the unit in combination with optimized parameters in order to achieve as high efficiency as possible.
- Frigo Plus has designed special hydromodules which perfectly fit with Wone & MiniWone chiller dimensions for confined machine rooms. Hydro modules may have buffer tank / hydraulic switch up to 800 l in combination with single or parallel primary or secondary pumps.

FRIGOPLUS

NATURAL COOLING & HEATING

WONE

R290 R600a



R 290 COOLING TEMPERATURE RANGE

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

R 290 HEATING TEMPERATURE RANGE

MT	30 °C	60 °C

R 600a HEATING TEMPERATURE RANGE

HT	60 °C	90 °C

COOLING CAPACITY RANGE

3 kW - 250 kW (*)

(*) Evaporator inlet/outlet water 12/7 °C

HIGH TEMPERATURE HEATING CAPACITY

UP TO 200 kW (**)

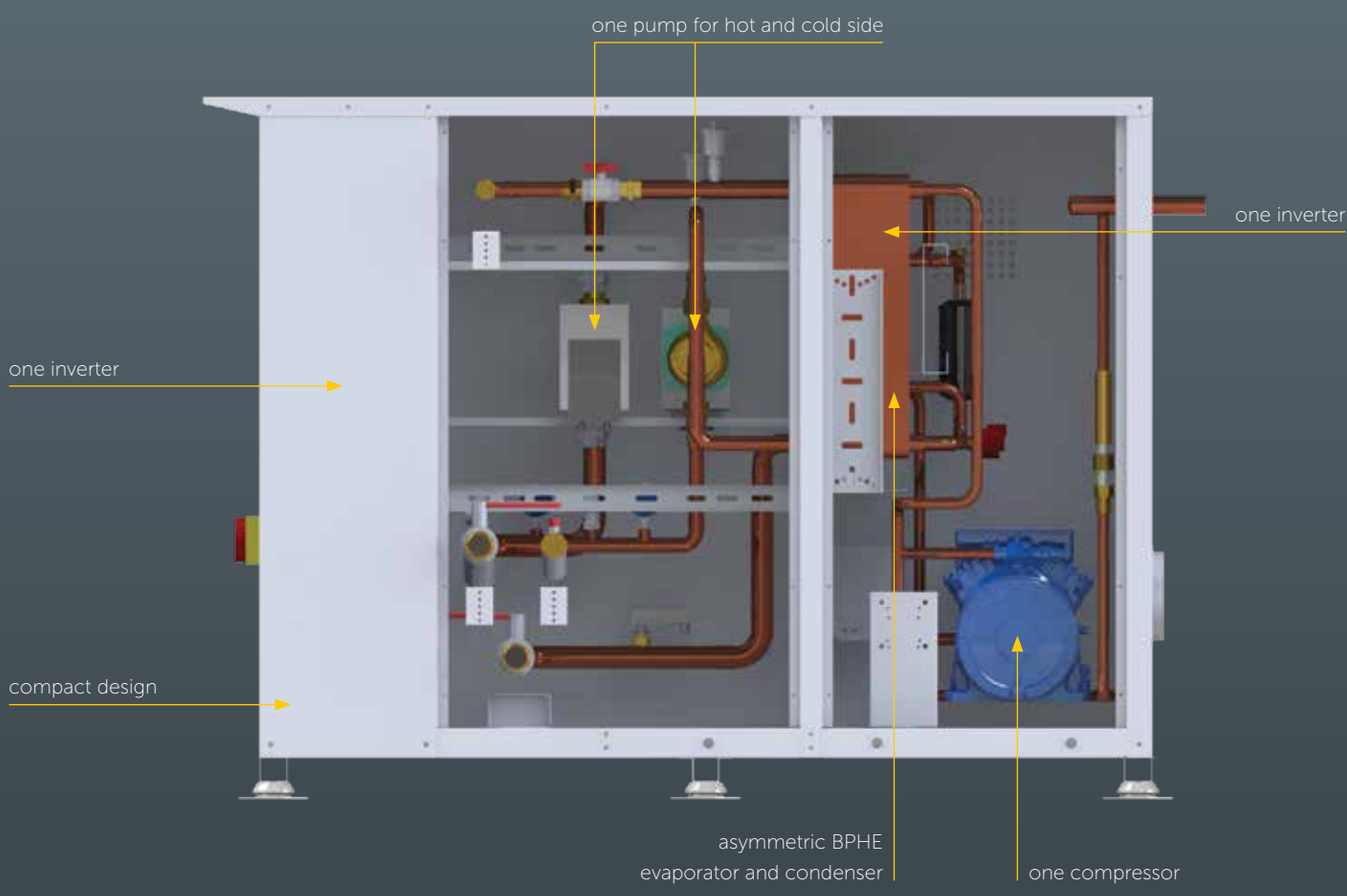
(**) Condenser inlet/outlet water 35/75 °C

COMBINATIONS

		COMPRESSORS	INVERTERS	1 x pump cold side	2 x pump hot side	desuperheater
WONE	without buffer tank	1	0 - 1	✗	✗	✓
MINIWONE		1	0 - 1	✓	✓	✗

MINIWONE

R290 R600a



- Natural refrigerants
- Semi-hermetic reciprocating compressors
- Inverter driven compressors
- High efficiency asymmetric evaporators and condensers
- Electronic expansion valve
- Inovative technical cooling solution for high energy efficiency
- R 600a - for high temperature hot water applications

CONTROLLER by
SIEMENS

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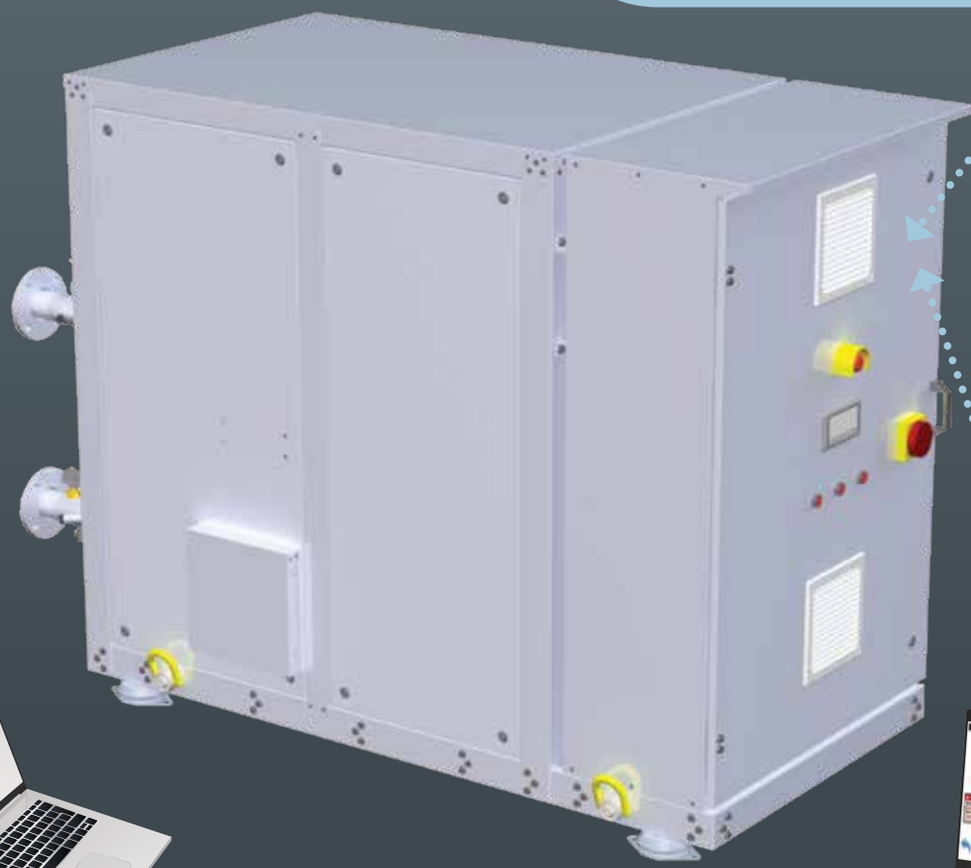
CLOUD MONITORING

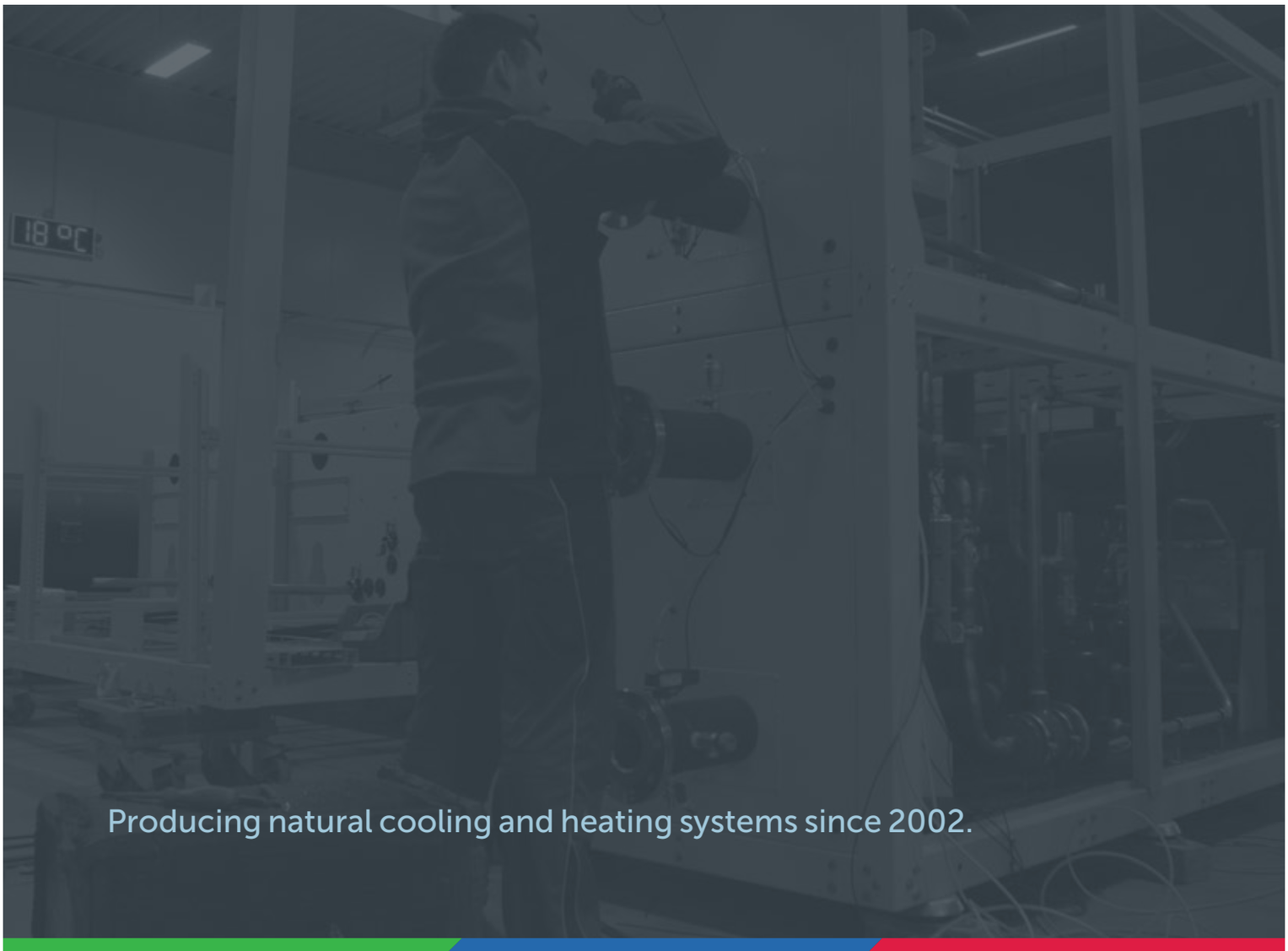


CUSTOMER

R290 R600a

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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