R 290

FLEXY P6

FLEXY P6

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 170 kW to 650 kW (*)

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

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AIR COOLED CHILLERS

Air 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.

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 high 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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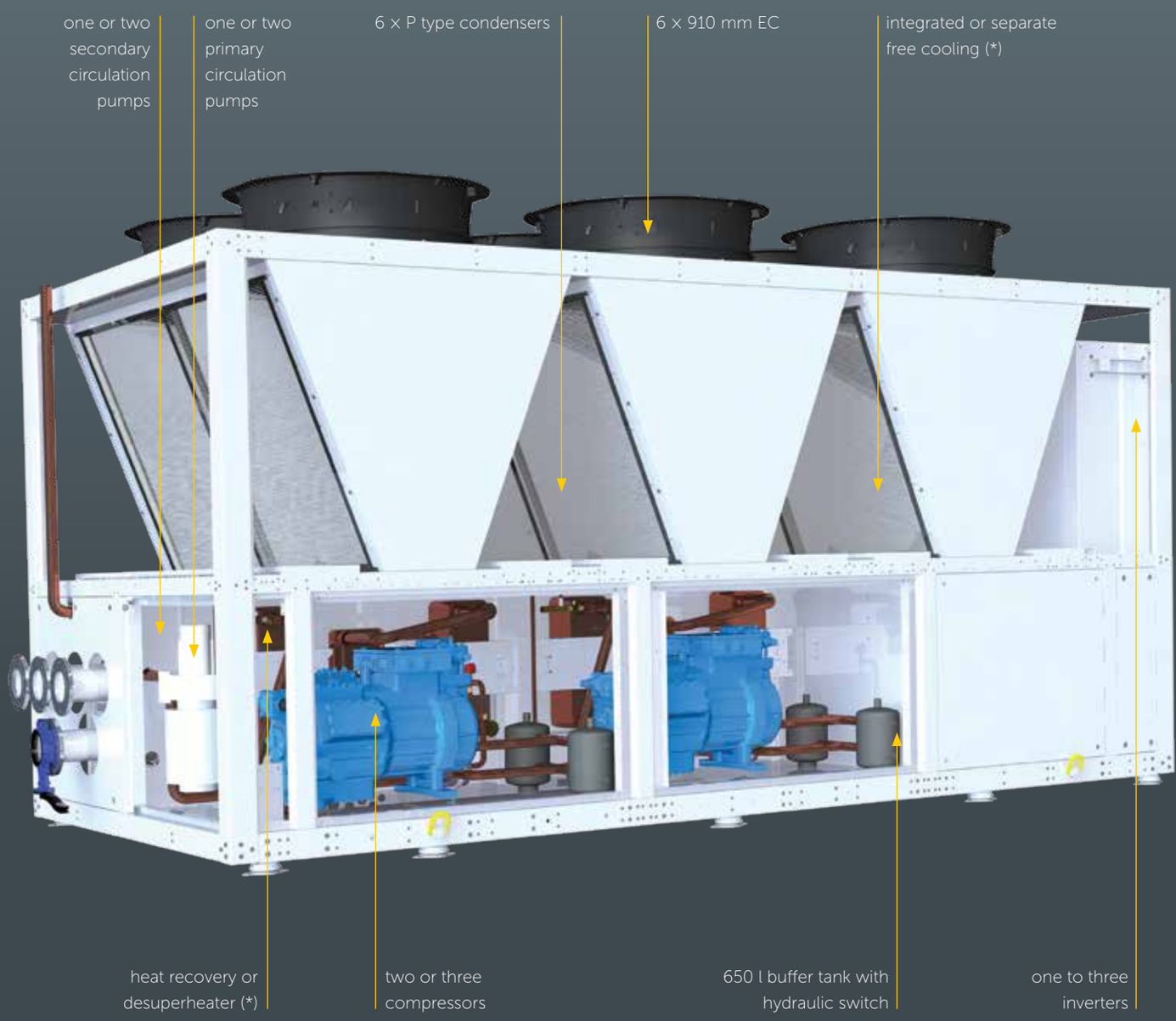

(*) integrated free cooling is only possible without buffer tank

TEMPERATURE RANGE

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

COOLING CAPACITY RANGE

170 kW - 650 kW (*)

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

COMBINATIONS	COMPRESSORS	INVERTERS	1 × PP	2 × PP	PPC	BF + 1 × PP	BF + 2 × PP	BF + PPC	HS + 1 × PP	HS + 2 × PP	HS + PPC	HS + 1 × PP + 1 × SP	HS + 2 × PP + 1 × SP	HS + PPC + 1 × SP	HS + 1 × PP + 2 × SP	HS + 2 × PP + 2 × SP	HS + PPC + 2 × SP
STANDARD	2	0 - 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	3	0 - 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✗
DESUPERHEATER	2	0 - 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	3	0 - 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✗
SERIAL HEAT RECOVERY	2	0 - 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	3	0 - 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✗
SERIAL HEAT RECOVERY + DESUPERHEATER	2	0 - 2	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
	3	0 - 3	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
INTEGRATED FREE COOLING	2	0 - 2	✓	✓	✗	✓	✓	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗
	3	0 - 3	✓	✓	✗	✓	✓	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗
SEPARATED FREE COOLING (additional 4 × P FC coils)	2	0 - 2	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
	3	0 - 3	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
SEPARATED FREE COOLING (additional 6 × P FC coils)	2	0 - 2	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
	3	0 - 3	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
SEPARATED FREE COOLING (additional 8 × P FC coils)	2	0 - 2	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
	3	0 - 3	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
SEPARATED FREE COOLING (additional 8 × P FC coils)	2	0 - 2	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
	3	0 - 3	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
SEPARATED FREE COOLING + DESUPERHEATER / HEAT RECOVERY	2	0 - 2	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗
	3	0 - 3	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗	✓	✓	✗

Legend:
PP - primary pump SP - secondary pump PPC - primary pump per cooling circuit BF - 650 l buffer tank HS - 650 l hydraulic switch

- Natural refrigerant
- Semi-hermetic reciprocating 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
  - Buffer tank or hydraulic switch
  - AC/EC Secondary pumps
  - Serial heat recovery
  - Desuperheater
  - Integrated or separated free cooling

CONTROLLER by
SIEMENS

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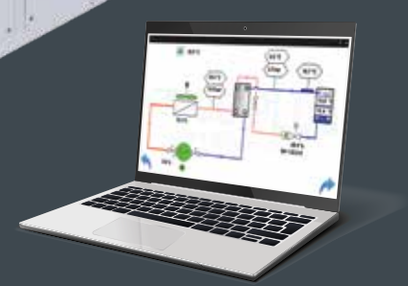
CLOUD MONITORING

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

H. JESSEN JÜRGENSEN A|S

Dansk importør og forhandler
H. Jessen Jürgensen A/S
Telefon +45 70 27 06 07
www.hjj.dk | info@hjj.dk

Morten Pedersen
T: 87 34 90 92
M: mpe@hjj.dk

Dennis Hansen
T: 44 20 06 04
M: deh@hjj.dk

Troels Narup
T: 44 20 06 03
M: tna@hjj.dk