CRIO.V

NEW UNIT RANGE of PROPANE Medium Temperature CHILLERS



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9/26/2022



Agenda

1 EXISTING UNIT RANGE for Medium Temperature

(2) MAIN ASPECTS of NEW CRIO.V

3 TECHNICAL DETAILS

> (4) CATALOGUE'S INFORMATION

Existing unit range for MT applications

Air-Cooled Liquid Chillers for Medium Temperature applications



Nominal Cooling Capacity: 7 - 185 kW (50Hz)



Existing unit range for MT applications

<u>NEW Extension for</u> Air-Cooled Liquid Chillers for Medium Temperature applications







Refrigerant R290 | GWP=3

Nominal Cooling Capacity: <u>218 – 860 kW</u> (60Hz)



Existing unit range for MT applications

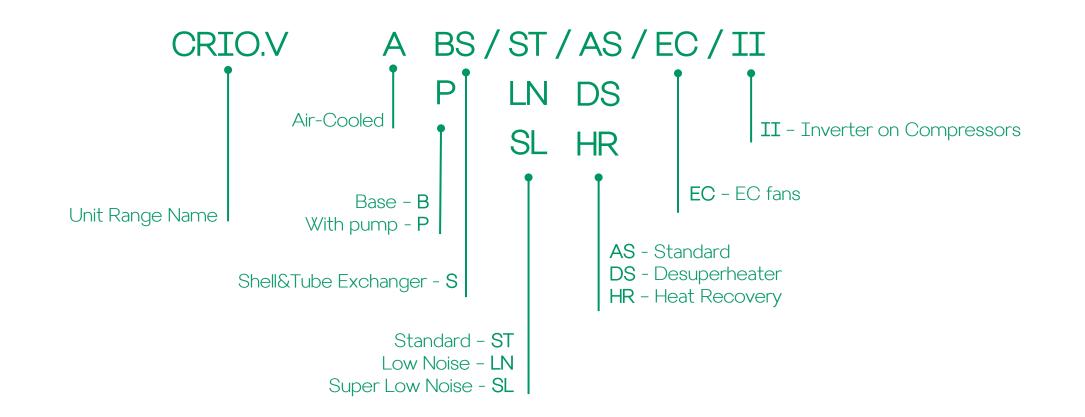
<u>NEW Extension for</u> Air-Cooled Liquid Chillers for Medium Temperature applications





2 MAIN ASPECTS of NEW CRIO.V

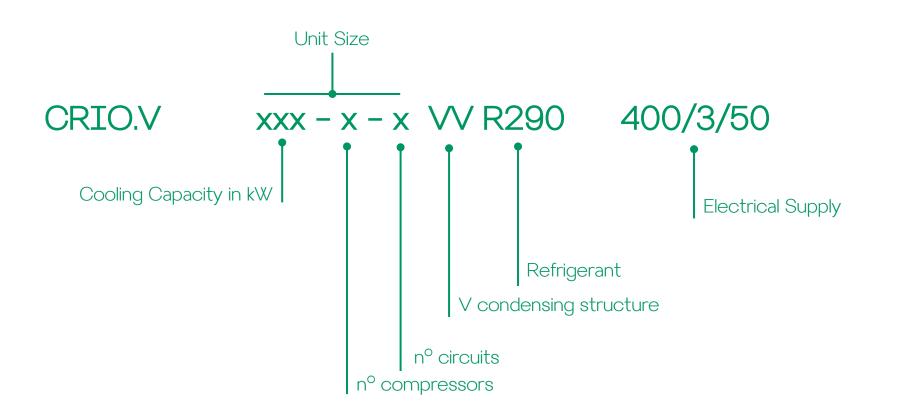
Main combination of the CRIO.V



The above legend allows you to easily select the proper configuration of CRIO.V units



Main combination of the CRIO.V



The above legend allows you to easily select the proper configuration of CRIO.V units



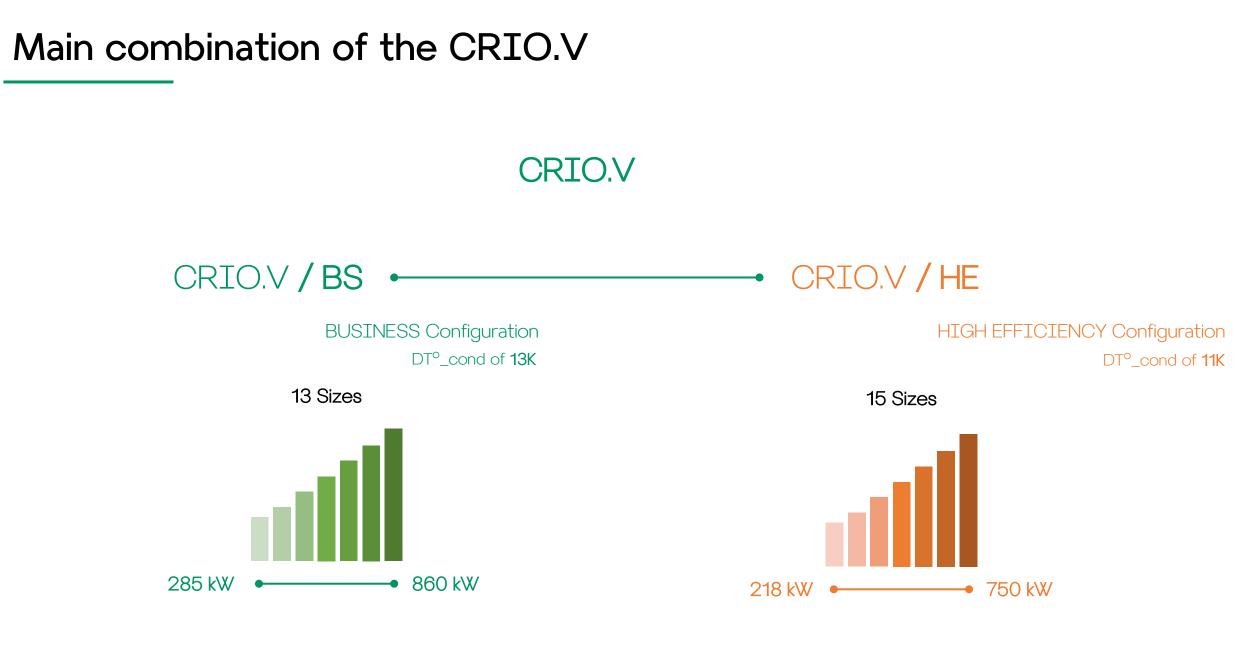


CRIO.V A BS/ST/AS/EC/II xxx-x-xVV R290 400/3/50

Complete Unit Codification

The above legend allows you to easily select the proper configuration of CRIO.V units





TECHNICAL DETAILS of NEW CRIO.V

CRIO.V



Refrigerant R290 | GWP=3



Eco Design Ready



Shell & Tube exchanger



Inverter controlled



Screw Compressors



Single Circuit



Double circuit



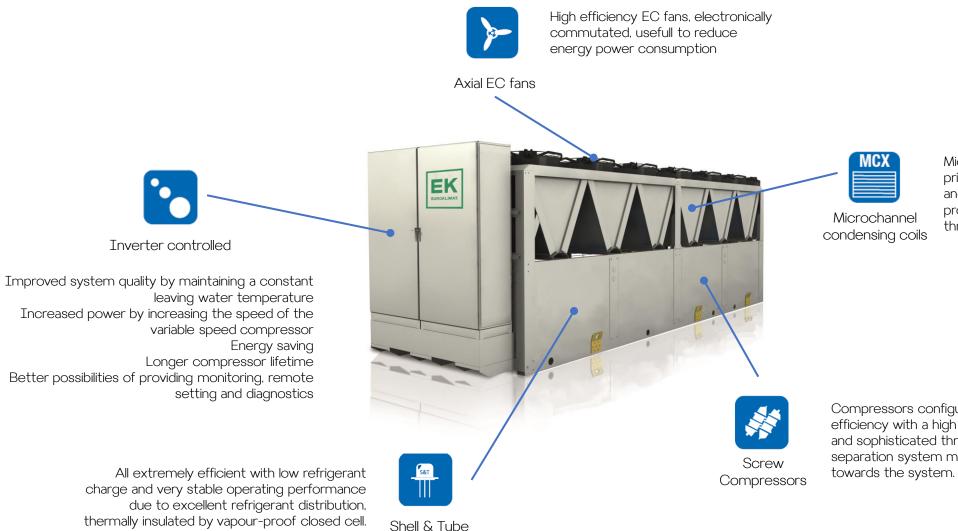
Microchannel condensing coils



Axial EC fans







exchanger

Microchannel technology increases the primary to secondary surface area ratio and reduces the tube's air shadow to provide maximum heat exchange through our condensers.

Compressors configured for maximum efficiency with a high compression ratio and sophisticated three-stage oil separation system minimises oil dragging towards the system.



R290

SEPR (seasonal energy performance ratio) for chillers in industrial process applications.

European Directive 2009/125/EU - Ecodesign Regulations for energy-related products

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CRIO.V A BS/ST/DS/EC/II



TOTAL MODULATING HEAT RECOVERY

Captures heat from refrigerant condensing process.

A larger quantity of heat is available compared to desuperheater: if necessary, the full condensing process may be used to produce hot water.

Only small quantity of heat is available since only superheat is removed from the refrigerant (depending on the temperature requirement for hot water is possible to recover up to 20% of the total condensing heat).

refrigerant, exploiting the hot discharge gas.

DESUPERHEATER

Captures heat from superheated

Hot water temperatures up to 55°C can be achieved



В

BASIC CONFIGURATION WITHOUT PUMP

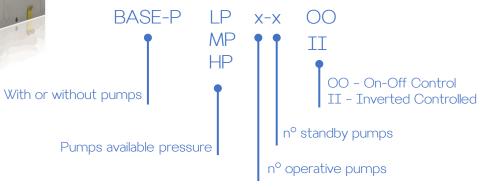
As interface to the plant, includes the water fittings of the evaporator only.



CONFIGURATION WITH PUMPS (OPTIONAL)

LP – 1,5 bar available pressure MP – 3,0 bar available pressure HP – 5,0 bar available pressure

The pump control equipment is fitted inside the electrical board of the unit and the microprocessor control manages the pump starting, timing and all the safety devices of the whole system.





PUMPS





ELECTRONIC EXPANSION VALVE



PLATE-TYPE EXCHANGERS (DS & HR)

17

EK

EUROKLIMAT.



SHELL & TUBE EXCHANGER

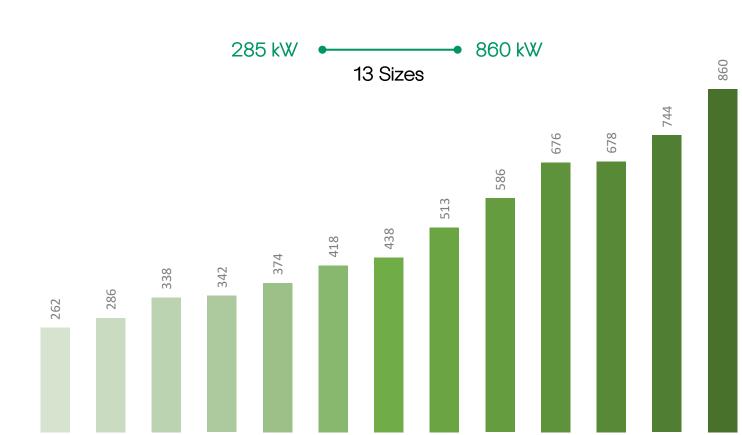


EC AXIAL FANS

(4) CATALOGUE'S INFORMATION of NEW CRIO.V

DT^o_cond of **13K**

CRIO.V / BS

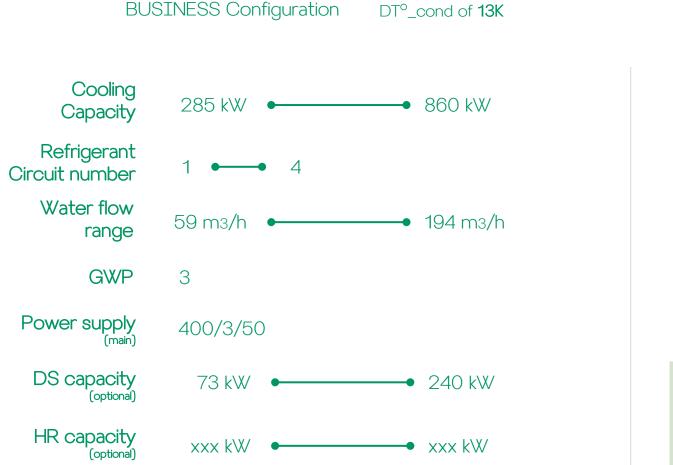


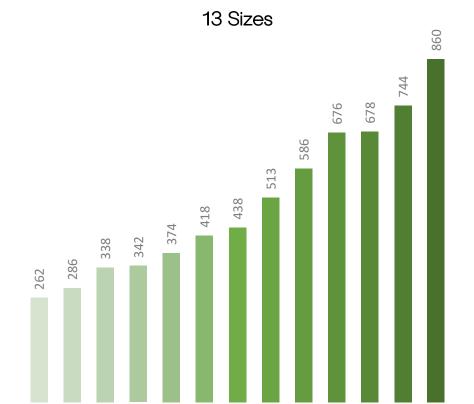
BUSINESS Configuration

26/09/2022



CRIO.V / BS





*All technical data are set with nominal condition design

(1) Outdoor air temperature = 35°C - Evaporator water temperature IN/OUT = -4/-8°C - Fluid: ethylene glycol 35%- Condensing coil: Microchannel

2) Plate heat exchanger water temp. IN/OUT = 40/45°C - Condenser air intake temperature = 35°C - Evaporator water temperature IN/OUT = -4/-8°C - Fluid: Water - Condensing coil: Microchannel

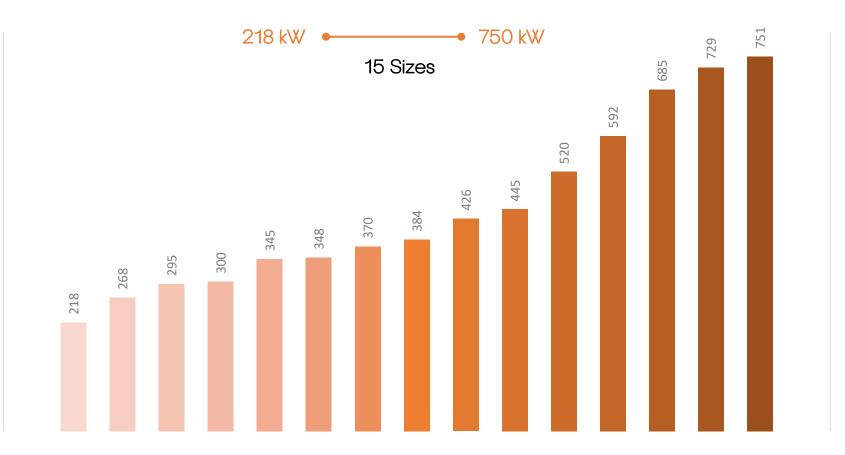
(1)(2) The declared cooling capacity are not taking into account the pump motor power input (where provided).



EUROKLIMAT

CRIO.V / HE

HIGH EFFICIENCY Configuration DT°_cond of 11K

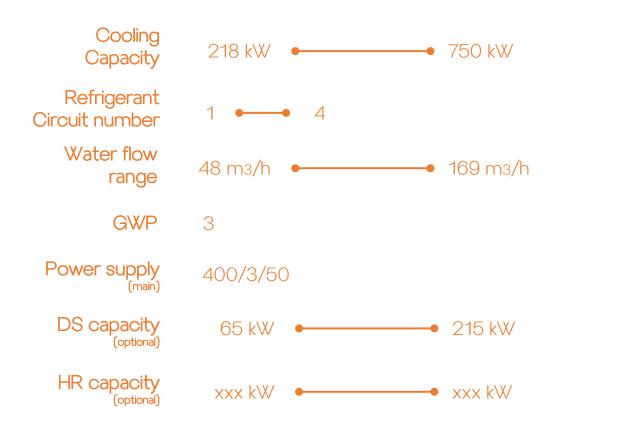


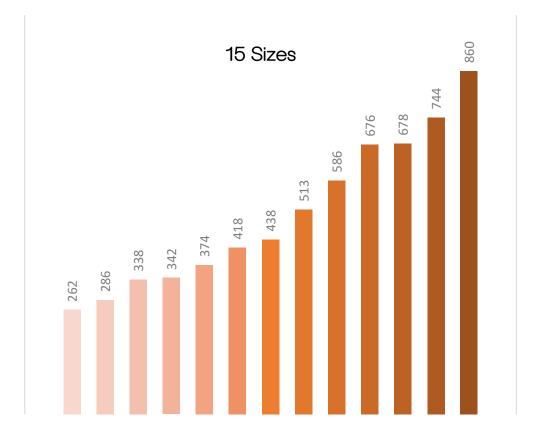
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CRIO.V / HE

HIGH EFFICIENCY Configuration DT°_cond of 11K

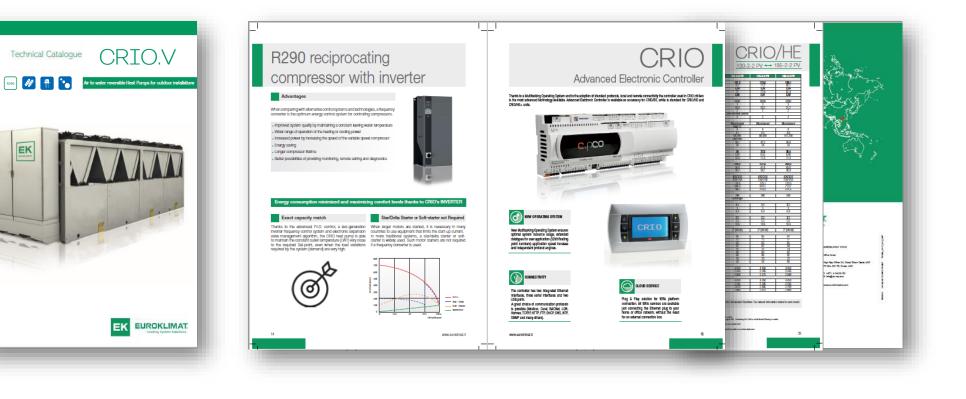




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For all details don't hesitate to read the CRIO.V catalogue. Ask to your reference commercial.



EK







Also available on the online Selection Software **wEKool**



