

# Did you know?



## Update “Controls Navigator” Revision 2019

For years, Emerson has provided a component selection program, the “Control Navigator”, for convenient and quick selection and dimensioning. Now, this software has been revised and updated by 04/2019. The selection program is based on Microsoft Excel and can be downloaded from the Emerson website (<https://climate.emerson.com/en-gb/tools-resources/controls-navigator>).

**NEW**

### Refrigerant selection

New refrigerants - especially some A2L- have now been added to the currently available ones:

<b>A1:</b>	R744, R410A, R134a, R22, R404A, R507, R407C, R23, R124, R448A, R449A, R450A, R513A, <b>R452A *</b>
<b>A2L:</b>	<b>R454A *, R454B *, R454C *, R1234yf*, R1234ze, R452B *, R32, R455A *</b>

\*) new refrigerants

Refrigerant	R744	Min.	Max.
Gas cooler outlet temperature	35.0 °C	31	45
Saturated temperature (receiver)	5.0 °C	-5	10
MT: Evaporator Temperature	-10.0 °C	-20	5
MT: Evaporator cooling capacity	35.0 kW		
LT: Evaporator Temperature	-35.0 °C	-45	-25
LT: Evaporator cooling capacity	3.0 kW		

### CO<sub>2</sub> Selection

The CO<sub>2</sub> valve calculation has been revised to allow a more precise selection/calculation of gas cooler and medium pressure valves. The calculation now also considers the cooling capacity in the normal refrigeration and freezing ranges. Also new is the selection of high pressure and bypass valves for CO<sub>2</sub> booster transcritical system.

**NEW**

**NEW**

### Adapter Oil Management System

The compressor models from manufacturers such as Bitzer, Copeland, Danfoss and Dorin have been updated in the function of the “Electronic Oil Level Control System”. The latest compressor models are now also available for adapter selection.



Compressor manufacturer	Selection range	Compressor model
Copeland	4MTL ... 6TA	4MTL