

### XC1000D: compatibility with new refrigerants



Dear Customer,

Dixell has always been environmentally conscious and market-oriented and today is increasing the potentiality of the **XC1000D** family by adding **10 new “Low GWP Refrigerants”**.

Moreover, meeting the increasing demands for **CO<sub>2</sub> applications**, in particular for cascade systems, it is possible to use two different refrigerants for circuit 1 and circuit 2.

**XWEB** and **XWEB EVO** libraries have already been updated with the new XC1000D gas list versions.

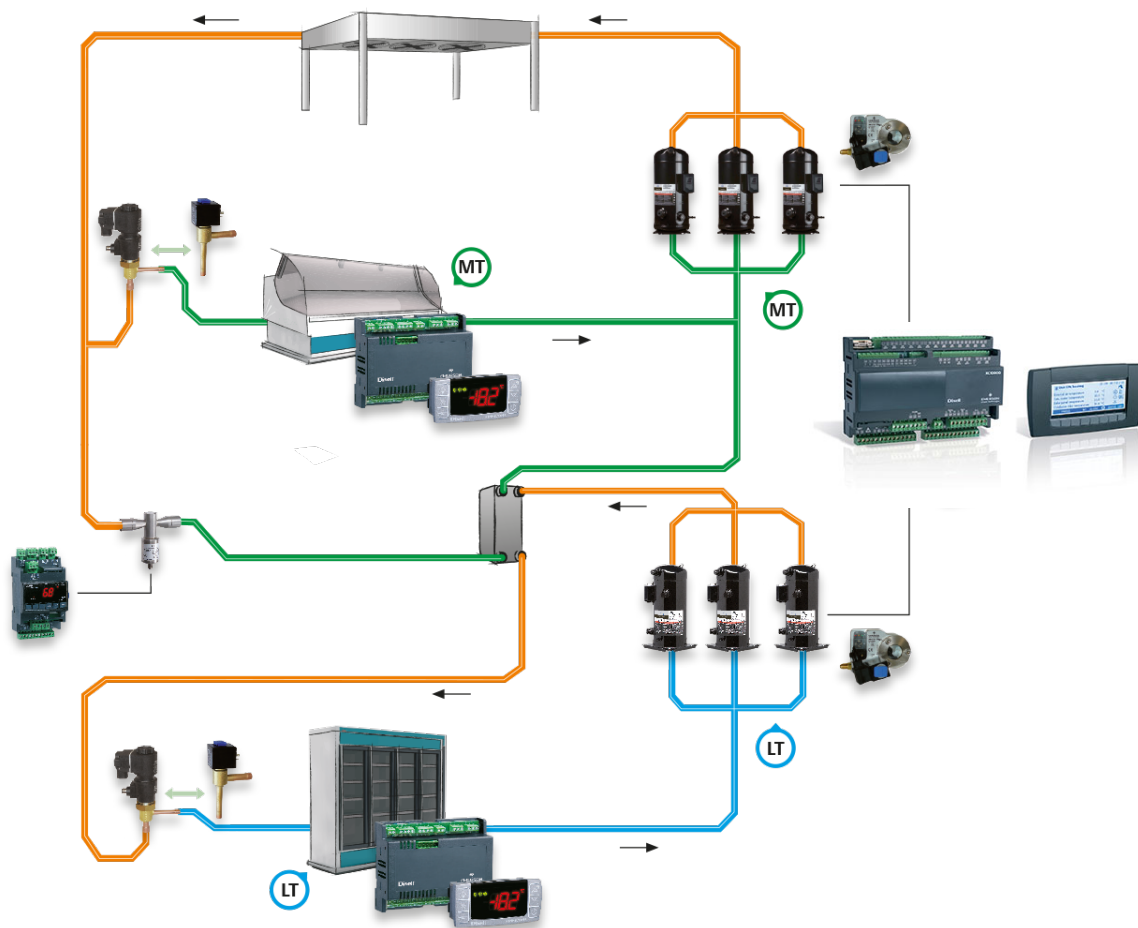
### 1 COMPATIBLE GAS LIST

The XC1000D family is now compatible with the gases listed below and that are selectable by parameter **Fty**.

Fty Parameter	REFRIGERANT	OPERATING TEMPERATURE	NOTE
R22	r22	-50÷60°C / -58÷120°F	
r134	r134A	-70÷60°C / -94÷120°F	
r404A	r404A	-50÷60°C / -58÷120°F	
r407A	r407A	-50÷60°C / -58÷120°F	
r410	r410	-50÷60°C / -58÷120°F	
r507	r507	-70÷60°C / -94÷120°F	
r407C	r407C	-50÷60°C / -58÷120°F	
r407F	r407F	-50÷60°C / -58÷120°F	
r290	r290 - Propane	-50÷60°C / -58÷120°F	NEW
CO <sub>2</sub>	r744 - Co2	-50÷30°C / -58÷86°F	
r450A	r450A	-45÷60°C / -69÷120°F	NEW
r513	r513	-45÷60°C / -69÷120°F	NEW
r448	r448A	-45÷60°C / -69÷120°F	NEW
r449	r449A	-45÷60°C / -69÷120°F	NEW
r32	r32	-55÷60°C / -94÷120°F	NEW
r1234ze	r1234ze	-18÷50°C / 0÷122°F	NEW
717	717	-50÷60°C / -58÷120°F	

## 2 CO<sub>2</sub> CASCADE SYSTEMS

The new version of XC1000D family allows the different management of the gas type in circuit 1 (**medium temperature - HFC refrigerant**) and circuit 2 (**low temperature - CO<sub>2</sub>**); in this way the medium temperature circuit and the low temperature use different gases.



### 2.1 CO<sub>2</sub> Cascade Systems - Components

To achieve maximum results in terms of yield, Dixell suggests using XC1000D in combination with:

	<b>XEV32:</b> CO <sub>2</sub> condenser control
	<b>PRESSURE TRANSDUCER</b> <b>PP11:</b> 4÷20mA / range -0,5÷11bar <b>PP30:</b> 4÷20mA / range 0÷30bar <b>PP50:</b> 4÷20mA / range 0÷50bar
	<b>TEMPERATURE PROBES</b> <b>NG6:</b> NTC probe <b>NP4-67:</b> NTC probe - pipemount (up to ø30mm)
	<b>TF20D:</b> transformer
	<b>EX3:</b> stepper electronic expansion valve
	<b>XM600:</b> multiplexed cabinet controllers