

CRYSTAL CH 3.1



FLOW CHART



CRYSTAL CH

CRYSTAL CH is a combined refrigeration unit and freezer unit with liquid chilled evaporator on MT-side and direct expansion on LT-side. The unit is made for air cooled gas cooler(AC) or liquid cooled gas cooler(WC). CRYSTAL is designed for the refrigerant carbon dioxide(R744) for the lowest possible environmental impact.

GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

Options

- Air cooled gas cooler or liquid cooled gas cooler.
- Superheat exchanger(model HE1)
- Extra liquid receiver.
- Antivibration mounts.
- Flexible sleeves on the heat exchanger.
- Flexible sleeves on the liquid cooled gas cooler.
- Flexible sleeves on the evaporator.
- Web-server.
- Commission/training.
- Service kit (drying filter & burst disc).
- Compressor oil.

Medium/Low temperature	CH 2.1	CH 2.2	CH 3.1	CH 3.2	CH 4.1	CH 4.2
Unit	Combined chiller unit/freezer unit					
Refrigerant	R744					
MT Net Refrigeration output (kW)	28	28	56	56	84	84
LT Refrigeration output (kW)	10–18,5	10–30	10–18,5	10–30	10–18,5	10–30
MT Compressor (quantity)	2	2	3	3	4	4
LT Compressor (quantity)	1	2	1	2	1	2
MT Swept volume	25,2	25,2	37,8	37,8	50,4	50,4
LT Swept volume	12,7	7-16	12,7	7-16	12,7	7-16
MT Secondary fluid	Propylene glycol 37%					
MT Temp. of secondary fluid (°C) in/out.	-4/-8					
MT Evaporation side temp. (°C)	-12					
LT Evaporator side	R744 - Direct expansion					
LT Evaporation side temp. (°C)	-37					
Measure L x W x H (mm)	2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950		3000 x 1200 ² x 2050		
Weight (Kg)	1700 ³	1900 ³		2100 ³		2300 ³
• Gas cooler (option)	for direct expansion alt. liquid cooled gas cooler.					

- Discharge temperature from gas cooler: +30°C
 - Voltage & HZ: 400/3/50
- 1) Up to 1300mm depending on chosen option.
 - 2) Up to 1600mm depending on chosen option.
 - 3) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.