

# CO<sub>2</sub>Y<sup>TM</sup> MC

## Sustainable Refrigeration at the right price

With the new CO<sub>2</sub>Y MC condensing unit, smaller businesses can afford to keep cool without harming the environment. CO<sub>2</sub>Y MC is basic and cost effective, but still provides a state-of-the-art eco-performance and all the benefits Green & Cool's CO<sub>2</sub>-refrigeration systems are known for.



CO2Y MC Series Outdoor Air cooled							
2 Fan					3 Fan		
CO2Y Model	MCO 1	MCO 2	MCO 3	MCO 4	MCO 5	MCO 6	MCO 7
Drawing	Fig 1	Fig 2				Fig 3	
Refrigerant	CO2 (R744)						
MT Minimum capacity, KW* (-8°C) Suction 1	1,96						
MT Minimum capacity, KW* (+5°C) Suction 2	n/a					3,26	
Maximum Capacity, KW* (-8°C) Suction 1	48,5						
Maximum Capacity, KW (+5°C) Suction 2	n/a					32,1	
Power Supply	400V/3ph/50HZ						
Fuse	3 x 10A+N+G				3 x 16A+N+G		
Design PS	120/80/80						
PED	Cat 3						
Compressor type	Rotary hermetic, BLDC motor						
Compressor nb.	2	2	2	3	3	4	5
Fans	2	2	2	2	2	3	3
Sound level (max speed)/dBA	42	42	42	42	42	46	46
Piping MT	Suction Line (inch)	1/2"				5/8"	
	Liquid Line (inch)	3/8"				1/2"	
Piping HT	Suction Line (inch)	1/2"				5/8"	

\*Cooling capacity @ +30°C ambient

## Options

- Communication interface, for example, Danfoss, Carel, RDM • Modbus (open protocol)
- Co2ilclean logic to reverse gas cooler fans for cleaning debris from the coils
- Different receiver volumes
- Suction and liquid filter
- Hot gas desuperheater

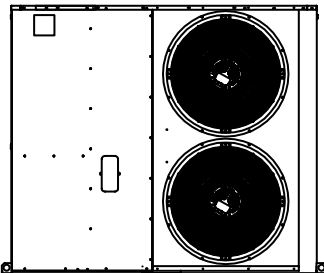


Fig 1

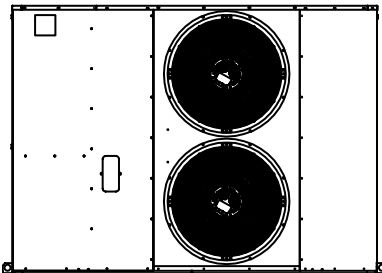


Fig 2

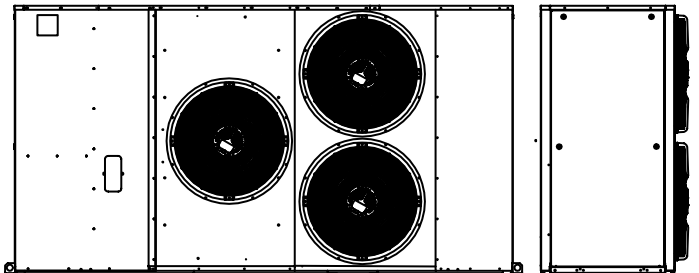


Fig 3

		CO2Y MC Series indoor Air cooled						
CO2Y Model		MCI 1	MCI 2	MCI 3	MCI 4	MCI 5	MCI 6	MCI 7
Drawing		Fig 1						
Refrigerant		CO2 (R744)						
MT Minimum capacity, KW* (-8°C) Suction 1		1,96						
MT Minimum capacity, KW* (+5°C) Suction 2		n/a					3,26	
Maximum Capacity, KW* (-8°C) Suction 1		48,5						
Maximum Capacity, KW* (+5°C) Suction 2		n/a					32,1	
Power Supply		400V/3ph/50HZ						
Fuse		3 x 10A+N+G				3 x 16A+N+G		
Design PS		120/80/80						
PED		Cat 3						
Compressor type		Rotary hermetic, BLDC motor						
Compressor nb.		2	2	2	3	3	4	5
Fans		n/a						
Piping MT	Suction Line (inch)	1/2"				5/8"		
	Liquid Line (inch)	3/8"				1/2"		
Piping HT	Suction Line (inch)	1/2"					5/8"	

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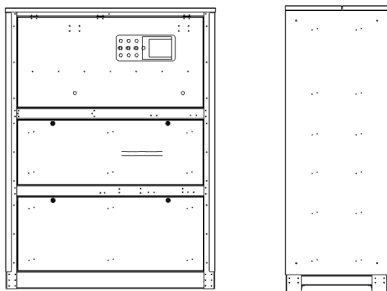


Fig 1



# Green & Cool leads the way

Green & Cool is a world-leading supplier of transcritical refrigeration systems that uses environmentally sustainable carbon dioxide (CO<sub>2</sub>) as a refrigerant. In addition to outstanding energy efficiency, the Green & Cool units offer superior lifetime economy and high reliability, as well as being very user-friendly. Green & Cool has developed modern CO<sub>2</sub> refrigeration systems to be a commercially-attractive alternative.

## Natural refrigerant – CO<sub>2</sub>

CO<sub>2</sub> as a natural refrigerant is one of the best available alternatives for the environment. The CO<sub>2</sub> in Green & Cool units does not contribute to global warming, while traditional alternatives such as fluorinated refrigerants (HFCs and HCFCs) are powerful greenhouse gases with a global warming effect far greater than CO<sub>2</sub>. In addition, comparative trials consistently show that units that use CO<sub>2</sub> as a refrigerant can be more energy efficient than those that use fluorinated refrigerants. Consequently, natural refrigerants such as CO<sub>2</sub> represent a sustainable technology and a long-term solution.

## Quality – at all stages

Green & Cool offers technically advanced refrigeration units on the market that use CO<sub>2</sub> technology. Green & Cool's many years of experience ensure that the customer will be offered the most efficient alternative – in both the short-term and the long-term.

## Low lifetime cost

Green & Cool offers low lifetime costs, thanks to efficient heat recovery (including tap water) and lower costs for operation and maintenance. A product lifecycle-based control system including COP metering is built in as standard.

## Risk management

The design stand-still pressure (PS) is the pressure a system is designed to withstand when the unit is shutdown – for maintenance, power outages, or other circumstances that might occur. In a Green & Cool pack, the design PS is always higher than the pressure that occurs in normal ambient conditions. This ensures that the refrigerant remains in the system, minimising the risk of losing valuable trading hours or production time. There is no need for additional safety features.

## User-friendly

Green & Cool has invested a high level of commitment in developing an intelligent control system that is also user-friendly. The control system can also be supervised remotely via the Internet and communicates seamlessly with control systems from other suppliers.

## Long-term, reliable partner

Long-term collaboration and development are key to Green & Cool's relationships. Naturally, high-quality training and rapid support are also included. Green & Cool's continuous product development process keeps you one step ahead on the path towards the solutions of the future.

