



Proven Solutions.  
**Cooling | Heating**  
Sustainable. Efficient.

# CO<sub>2</sub> MC

Indoor and outdoor CO<sub>2</sub> transcritical refrigeration system for convenience stores and small supermarkets



PFAS/TFA free refrigerant



80 bar service pressure



high efficiency with inverters for all compressors



Large receiver size (34 l–55 l)



Optimized footprint



Simple / intuitive display



Fully serviceable from the front



Heat reclaim for heating or sanitary hot water



Connect to BMS via modbus RS485



Low sound level

 **2–45 kW MT** cooling capacity

The CO<sub>2</sub>Y MC range is very versatile to best suits your needs, combining indoor/outdoor version, working for MT application

Item	Unit	Version	CO <sub>2</sub> Y MC					
			DY45*2	RY100*2	RY100*3	RY100*4	RY100*5	
Compressor Type* Number	-	For both outdoor and indoor						
Refrigerant	-		CO <sub>2</sub>					
Nominal capacity	KW		5,8	12,8	19,2	25,5	31,9	
Maximum capacity	KW		8,5	18,1	27,1	36,1	45,2	
SEPR	-		2,57	2,67	2,42	2,51	2,58	
Design pressure (MT suction/Receiver/Discharge)	Bar		80/80/120					
Receiver volume	L		Outdoor	34		50		
			Indoor	55				
Nominal sound level	dBA		Outdoor(with/without gascooler)	34/33	40/39	42/41	45/42	47/43
			Indoor	35	41	43	44	45
PED 2014/68/EU Risk Cat.	-	Outdoor	III		IV (80bar)			
		Indoor	IV (60/80bar)					
Length x Width x Height	mm	Outdoor (with/without gascooler)	2338/1540 x 922 x 1726			3089/2292 x 922 x 1726		
		Indoor	1200 x 800 x 1900					
Weight	Kg	Outdoor(with/without gascooler)	700/498	702/500	739/537	798/596	817/615	
		Indoor	350	355	370	390	410	

\*Condition: @ MT SST -8 °C/32 °C OAT; @ LT SST -32°C/32 °C OAT; Nominal frequency: 70 Rps; Maximum frequency: 100 Rps

### Options:

- Serial communication interface (compatible with the main monitoring systems)
- Suction line strainer
- Heat recovery (can have an impact on the length of some models)
- Rain protection for electrical components (Outdoor only)
- Shut-off valve suction line
- Coil coating
- Modulating valve for A/C loop (6kW max)
- Change of service pressure: PS 80/80/120bar -> PS 60/60/120bar
- Safety kit (controller+sensors as spare part - delivered separately)
- Water heat exchanger (gascooler relief/subcooling before HP-valve - Indoor only)

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