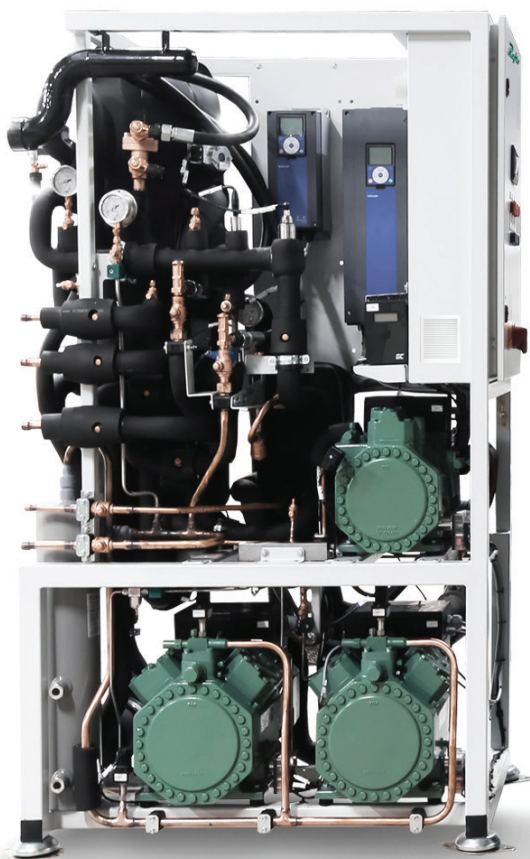


CO₂ LIGHT

TRANSCRITICAL CO₂ NATURAL REFRIGERANT SYSTEMS



NATURAL REFRIGERATION SYSTEMS SOLUTIONS
FOR A MORE SUSTAINABLE FUTURE

PRODUCT BENEFITS

- Suitable for small food retail stores or gas stations
- Provide up to 53 kW of cooling capacity, split between medium temperature and low temperature refrigeration
- Designed with reliable refrigeration technologies
- Maximum of 3 compressors on a welded and powder coated frame
- Reliable insulation material to ensure proper unit protection and noise reduction
- Designed to house the system indoors
- Can be made with a special protective frame, which allows you to install the equipment outdoors and connect it to the premises

STANDARD FEATURES

- Open type welded, powder coated frame
- Anti-vibration legs
- Carel controllers
- Reciprocating Bitzer compressors
- Frequency inverters on lead compressor
- Low level liquid switch
- Filters (strainers)
- Filter (drier) on LL (liquid line)
- 75L Liquid receiver
- Safety valves
- Manometers

CUSTOMISATION

- Can be manufactured with two different frame types - open type and closed type
- System can be easily serviced as it is equipped with both front and side doors

AVAILABLE SYSTEMS

- CO2 transcritical rack MT 2x0
- CO2 transcritical booster MT+LT 2x1

*Ambient temperature +35 °C, Gas Cooler outlet +37 °C, Evaporating temperature MT/LT -10/-30 °C.

*Sound pressure level at a distance of 10m in the free field and at the extended point, tolerance +/-2dB(A).

*Heat recovery simulation based on 60% mass flow, 110 °C, 80 bar. Capacity may vary with actual compressor pack.

**Additional Information**

All Dimensions shown in Millimetres (mm) unless otherwise stated. Dimensions and features are subject to change. Please obtain current technical information prior to order confirmation.

NOTE: We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or Shipped.

TECHNICAL PARAMETERS

Calculations are made for basic units without additional options

Model		CL 140	CL 204	CL 274	CL 422	CL 530
Standard version						
Refrigerant	Type	R744				
Maximum MT capacity	kW	14	20,4	27,4	42,2	53
Number of MT compressors	n	2	2	2	2	2
Receiver volume	L	75	75	75	75	75

Design pressure

High pressure	bar	120	120	120	120	120
Receiver pressure	bar	80	80	80	80	80
MT suction pressure	bar	80/60/52/45	80/60/52/45	80/60/52/45	80/60/52/45	80/60/52/45
LT suction pressure	bar	80/60/30	80/60/30	80/60/30	80/60/30	80/60/30
Sound pressure level in 10m	dB	45	45	45	52	52

Power supply

Max. power consumption	A	30,2	41,2	49,8	70	85,2
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Open frame dimensions

Length	mm	1090	1090	1090	1090	1090
Width	mm	670	670	670	670	670
Height	mm	1845	1845	1845	1845	1845
Operating weight	kg	800	800	850	920	940

Technical parameters of additional options**Enclosed frame dimensions**

Length	mm	1200	1200	1200	1200	1200
Width	mm	800	800	800	800	800
Height	mm	2120	2120	2120	2120	2120
Operating weight	kg	920	920	970	1040	1060

Heat recovery module 30 plates

10-60 °C	kW	12	16	21	29	34
25-45 °C	kW	11	15	20	28	33

Heat recovery module 50 plates

10-60 °C	kW	15	21	27	38	45
25-45 °C	kW	14	19	25	36	43

Technical data for power selection | CO2 Light

LT Capacity kW	Model	-10°C MT Capacity kW*							
		32°C	33°C	34°C	35°C	36°C	37°C	38°C	40°C
0 kW	CL 140	15,9	15,5	15,0	14,7	14,3	14,0	13,7	13,0
0 kW	CL 204	23,0	22,5	21,9	21,4	20,9	20,4	19,9	18,9
0 kW	CL 274	31,2	30,4	29,5	28,8	28,1	27,4	26,7	25,4
0 kW	CL 422	47,3	46,2	45,1	44,1	43,1	42,2	41,2	39,3
0 kW	CL 530	59,8	58,4	56,9	55,6	54,3	53,0	51,9	49,5
4,2 kW	CL 140	10,9	10,5	10,1	9,7	9,4	9,0	8,7	x
4,2 kW	CL 204	18,1	17,5	16,9	16,3	15,8	15,3	14,8	13,9
4,2 kW	CL 274	26,3	25,4	24,6	23,8	23,1	22,4	21,6	20,3
4,2 kW	CL 422	42,4	41,2	40,1	39,0	37,9	36,9	35,9	34,1
4,2 kW	CL 530	54,8	53,3	51,8	50,4	49,1	47,7	46,5	44,2
6,7 kW	CL 204	15,2	14,6	14,0	13,5	13,0	12,5	12,0	x
6,7 kW	CL 274	23,3	22,5	21,7	20,9	20,2	19,5	18,8	x
6,7 kW	CL 422	39,5	38,3	37,2	36,1	35,1	34,1	33,1	31,2
6,7 kW	CL 530	51,9	50,4	49,0	47,6	46,2	44,9	43,6	41,2
9,1 kW	CL 204	12,3	11,8	11,2	10,7	10,1	9,7	x	x
9,1 kW	CL 274	20,4	19,6	18,8	18,0	17,3	16,6	15,9	x
9,1 kW	CL 422	36,5	35,4	34,2	33,2	32,2	31,2	30,2	28,4
9,1 kW	CL 530	49,0	47,5	46,1	44,7	43,4	42,1	40,8	38,4
11,9 kW	CL 274	17,4	16,5	15,8	15,0	14,3	13,5	x	x
11,9 kW	CL 422	33,4	32,2	31,1	30,1	29,0	28,1	27,1	25,3
11,9 kW	CL 530	45,9	44,4	43,0	41,6	40,3	39,0	37,8	35,3
14 kW	CL 422	30,9	29,7	28,6	27,6	26,6	25,6	24,6	22,8
14 kW	CL 530	43,4	41,9	40,5	39,1	37,8	36,5	35,3	32,9
17,8 kW	CL 422	26,6	25,4	24,4	23,3	22,3	21,3	20,4	x
17,8 kW	CL 530	39,0	37,6	36,2	34,8	33,5	32,2	31,0	28,6

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