

RENO

CO₂ MONOBLOCK PLUG & PLAY SOLUTION FOR COMMERCIAL AND INDUSTRIAL REFRIGERATION

Heat rejection capacity from 110 kW to 570 kW



The Reno CO₂ monoblock configuration is a **plug & play solution** for commercial and industrial refrigeration integrating the **refrigeration rack**, the **gas cooler** and the **intercooler**.

MONOBLOCK CONFIGURATION ADVANTAGES

Installation

- Outdoor installation – saves precious indoor space
- Compact design – reduced footprint vs separate rack + gas cooler + intercooler
- Plug & play – reduces installation time & cost (piping, valves, baseframe, labour, pressure test)
- Simpler on site PED certification – only low-pressure piping
- Ideal for retrofit – can be installed outdoor while the old system is still running
- Ductable axial fans (with optional oversized fans)
- All connections on one side
- Integrated intercooler – no need for additional connections

Service

- Full accessibility to all components for service
- Access to the back of the rack from the fan compartment

Performance

- 140 bar pressure rating – operation up to 115 bar high maximizes capacity at high ambient
- Flexible selection – fan speed can be adjusted to match capacity and noise requirements
- Integrated intercooler – protects compressors from high temperatures and increases efficiency
- Low noise and vibration – rack mounted on antivibration mounts

	PS120 bar (standard for split)	PS130 bar (option for split)	PS140 bar (standard for monoblock)	PS120 bar Adiabatic*
Operating pressure @ 43°C [barg]	99,4	107,4	115,4	83,7
Tout gas cooler @43°C [°C]	45,0	45,0	45,0	35,2
Pack capacity MT @43°C	95%	80%	68%	67%

* Adiabatic system used >25°C. Water cost not considered

PS140 extra capacity at high ambient = peace of mind in hot climates!

FEATURES

- 7 models with heat rejection capacity from 100 to 450kW
- 140 bar pressure rating for rack & gas cooler as standard
- Stainless steel piping
- Robust sheetmetal frame in galvanized steel
- Electrical panel with double door
- EC fans

Compatible racks:

- Dual temp MT/LT or single temp MT:
 - Senna XS (S & M chassis)
 - Senna (if width <1000 mm)
 - Neva (if width <1000 mm)
 - Elba (if width <1000 mm)
- Single temp LT:
 - AT with (if width <1000 mm)

Options

- Gas cooler coil with or without integrated intercooler (with bypass valve)
- Intercooler bypass valve
- Oversized axial fans with 150 Pa external static pressure
- Coil corrosion protection
 - Aqua Aero
 - Epoxy
- Acoustic insulation

NOMENCLATURE

M	Monoblock
0100	Reference heat rejection capacity
G	G=only gas cooler I=gas cooler+intercooler
A	A=aluminium fins P= epoxy coated fins Q=Aqua Aero
0	0=standard lenght 1=length extended by 1 module
S	S= standard fans D= ductable fans

TECHNICAL DATA

Frame		M0100GA0S	M0100GA1S	M0100GA2S	M0140GA0S	M0140GA1S	M0140GA2S
No intercooler, max capacity							
Heat rejection capacity ⁽¹⁾	kW	140,66	140,66	140,66	181	181	181
Power consumption	kW	5,2	5,2	5,2	5,4	5,4	5,4
fan speed	rpm	1120	1120	1120	1120	1120	1120
Sound power (fans only)	dB(A)	85	85	85	85	85	85
Sound pressure @ 10m (fans only) ⁽²⁾	dB(A)	53	53	53	53	53	53
No intercooler, low noise							
Heat rejection capacity ⁽¹⁾	kW	110,72	110,72	110,72	138,58	138,58	138,58
Power consumption	kW	1,3	1,3	1,3	1,3	1,3	1,3
fan speed	rpm	693	693	693	693	693	693
Sound power (fans only)	dB(A)	72	72	72	72	72	72
Sound pressure @ 10m (fans only) ⁽²⁾	dB(A)	40	40	40	40	40	40
No. Fans		2	2	2	2	2	2
secondary surface	m ²	237,1	237,1	237,1	316,17	316,17	316,17
Width (P)	mm	2300	2300	2300	2300	2300	2300
Height (H)	mm	2517	2517	2517	2517	2517	2517
Lenght (L)	mm	3200	4270	5335	3200	4270	5335
Weight (without rack)	kg	1250	1500	1750	1250	1500	1750

Frame		M0140GA3S	M0170GA0S	M0170GA1S	M0170GA2S	M0225GA0S	M0225GA1S
No intercooler, max capacity							
Heat rejection capacity ⁽¹⁾	kW	181	236,32	236,32	236,32	302,97	302,97
Power consumption	kW	5,4	7,8	7,8	7,8	8,1	8,1
fan speed	rpm	1120	1120	1120	1120	1120	1120
Sound power (fans only)	dB(A)	85	87	87	87	87	87
Sound pressure @ 10m (fans only) ⁽²⁾	dB(A)	53	55	55	55	55	55
No intercooler, low noise							
Heat rejection capacity ⁽¹⁾	kW	138,58	175,91	175,91	175,91	217,66	217,66
Power consumption	kW	1,3	1,4	1,4	1,4	1,5	1,5
fan speed	rpm	693	632	632	632	632	632
Sound power (fans only)	dB(A)	72	72	72	72	72	72
Sound pressure @ 10m (fans only) ⁽²⁾	dB(A)	40	40	40	40	40	40
No. Fans		2	3	3	3	3	3
secondary surface	m ²	316,17	360,14	360,14	360,14	480,26	480,26
Width (P)	mm	2300	2300	2300	2300	2300	2300
Height (H)	mm	2517	2517	2517	2517	2517	2517
Lenght (L)	mm	6400	4270	5335	6400	4270	5335
Weight (without rack)	kg	2000	1550	1800	2050	1550	1800

(1) Tamb=40°C Tgcin=110°C, Tgcout=42°C, p=107 barg

(2) Free field, Q=2, box method ISO3744

For selections at different operating conditions and fan speeds, please contact Enex

Frame		M0225GA2S	M0300GA0S	M0300GA1S	M0360GA0S	M0400GA0S
No intercooler, max capacity						
Heat rejection capacity ⁽¹⁾	kW	302,97	405,71	405,71	488,97	571,4
Power consumption	kW	8,1	10,7	10,7	13,4	14
fan speed	rpm	1120	1120	1120	1120	1120
Sound power (fans only)	dB(A)	87	88	88	89	89
Sound pressure @ 10m (fans only) ⁽²⁾	dB(A)	55	56	56	57	57
No intercooler, low noise						
Heat rejection capacity ⁽¹⁾	kW	217,66	282,44	282,44	330,34	373,05
Power consumption	kW	1,5	1,8	1,8	1,9	2
fan speed	rpm	632	602	602	571	571
Sound power (fans only)	dB(A)	72	72	72	71	72
Sound pressure @ 10m (fans only) ⁽²⁾	dB(A)	40	40	40	39	40
No. Fans		3	4	4	5	5
secondary surface	m ²	480,26	644,36	644,36	808,91	1011,24
Width (P)	mm	2300	2300	2300	2300	2300
Height (H)	mm	2517	2517	2517	2517	2517
Lenght (L)	mm	6400	5335	6400	6400	6400
Weight (without rack)	kg	2050	1850	2150	2200	2200

DIMENSIONS



TECHNICAL FEATURES

Access for maintenance

Heat Recovery 2

LT / MT Suction

Compressor rack

Emergency backup
cooling unit

CO2 air cooler

Weatherproof enclosure
with internal lighting

Vibration
dampers

Control panel

Liquid

Heat Recovery 1

Gas cooler coil

EC Fans

Receiver
safety valves

Robust sheet
metal structure

Intercooler coil

Intercooler
bypass

Gas cooler
bypass

Power supply

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