

GGMC

Green Group

Machinery Compact



About GGMC

GGMC is mobile machinery developed and manufactured by the GREEN GROUP, experts in industrial refrigeration since 2006. Talking with clients we noticed that not all of them have the opportunity to build new compressor rooms. We suggest this solution, which does not require a lot of preparation from the client and can be easily integrated into any systems.

All equipment is built in sections mounted inside 45 ft shipping container and on a special platform on top of the container. Depending on logistical factors, the platform can be demounted and easily assembled again at the customer's location.

Advantages

- Simple installation
- Saving footprint
- Reinforced frame
- Liquid resistance floor
- Ventilation system
- Inside temperature control
- Leakage sensor and other safety systems
- Water treatment system
- Fully insulated pipes and components
- PED 2014/68/eu and CE approval
- Remote service support 24/7

Options

- Heat recovery
- Heat Pump
- CO₂/NH₃ cascade solution
- Low charge ammonia volume
- Tropic version



EVAPCO OR BAC CONDENSER

Designed for industrial refrigeration, evaporation condensers lower system condensing temperatures thereby reducing compressor horsepower, saving up to 15% energy compared to traditional air-cooled systems.



SIEMENS FREQUENCY CONVERTER

Leading manufacturing electric drive technology, perfectly regulating electric motors in refrigeration applications.



SIEMENS CONTROLLER

Simatic S7-1500 CPU controller with high-resolution, 12" touch-screen control panel HMI. Remote monitoring. Safe and secure.



DRY COOLER EC

EC motors provide better performance than AC motors, and use less electricity. They are also generally much more compact, and speed can easily be controlled using commutation electronics, for example via pulse width modulation.

LOW-PRESSURE VESSELS

Pressure vessels are available for almost all refrigeration applications. Our technology guarantees reliable refrigerant separation with a maximum operating refrigerant volume of 5 m³ per unit.

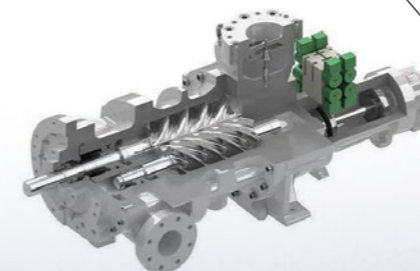


DANFOSS ICF VALVE STATION

- Lower operating refrigerant charge
- Low power consumption
- Lower operating weight
- Small plan area
- ICAD precision dosing

EFFECTIVE VENTILATION

Each GGMC comes with a complete ventilation system, including exhaust air ducts and ventilation fans.



MAYEKAWA/MYCOM SCREW COMPRESSOR

Innovative new motor profile and automatic Vi regulation ensuring energy efficiency with high coefficient of performance (COP) at various loads.



GGMC modifications

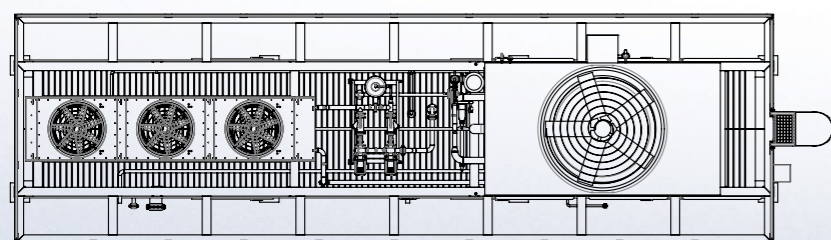
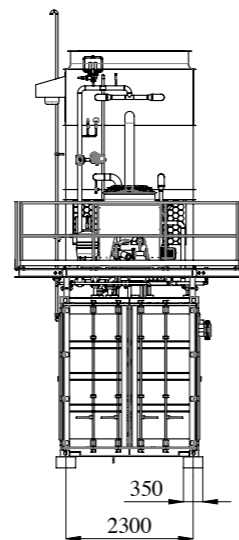
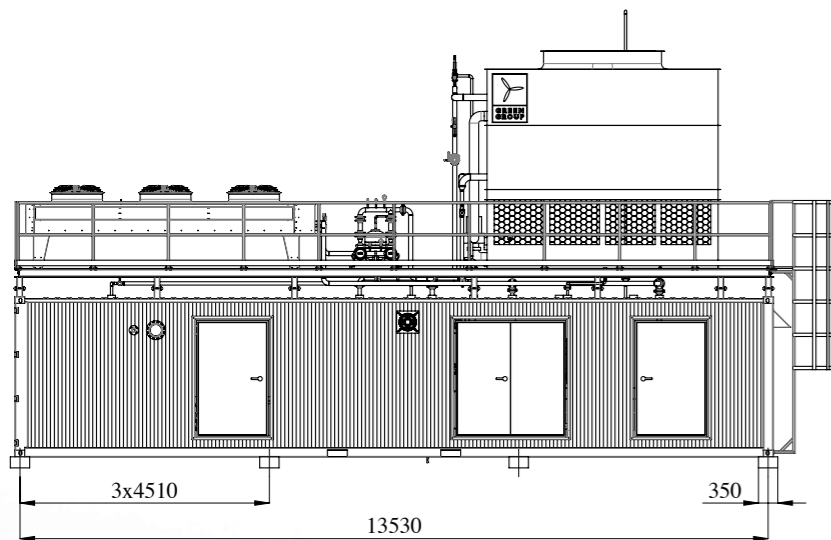
Model (ammonia)	FREEZING Max refrigeration capacity kW at -40°C	COOLING Max refrigeration capacity kW at -10°C	CHILLING Max refrigeration capacity kW at +2°C
GGMC 120	117	452	691
GGMC 160	153	580	881
GGMC 200	197	750	1146
GGMC 300	282	1028	1194
GGMC 400	370	1335	1537
GGMC 500	485	1735	2596

GGMC dimensions and weight

The 45ft HC (high cube) container standard dimensions are: L=13716 mm; W=2438 mm; H=2896 mm. Overall characteristics are shown in next table.*

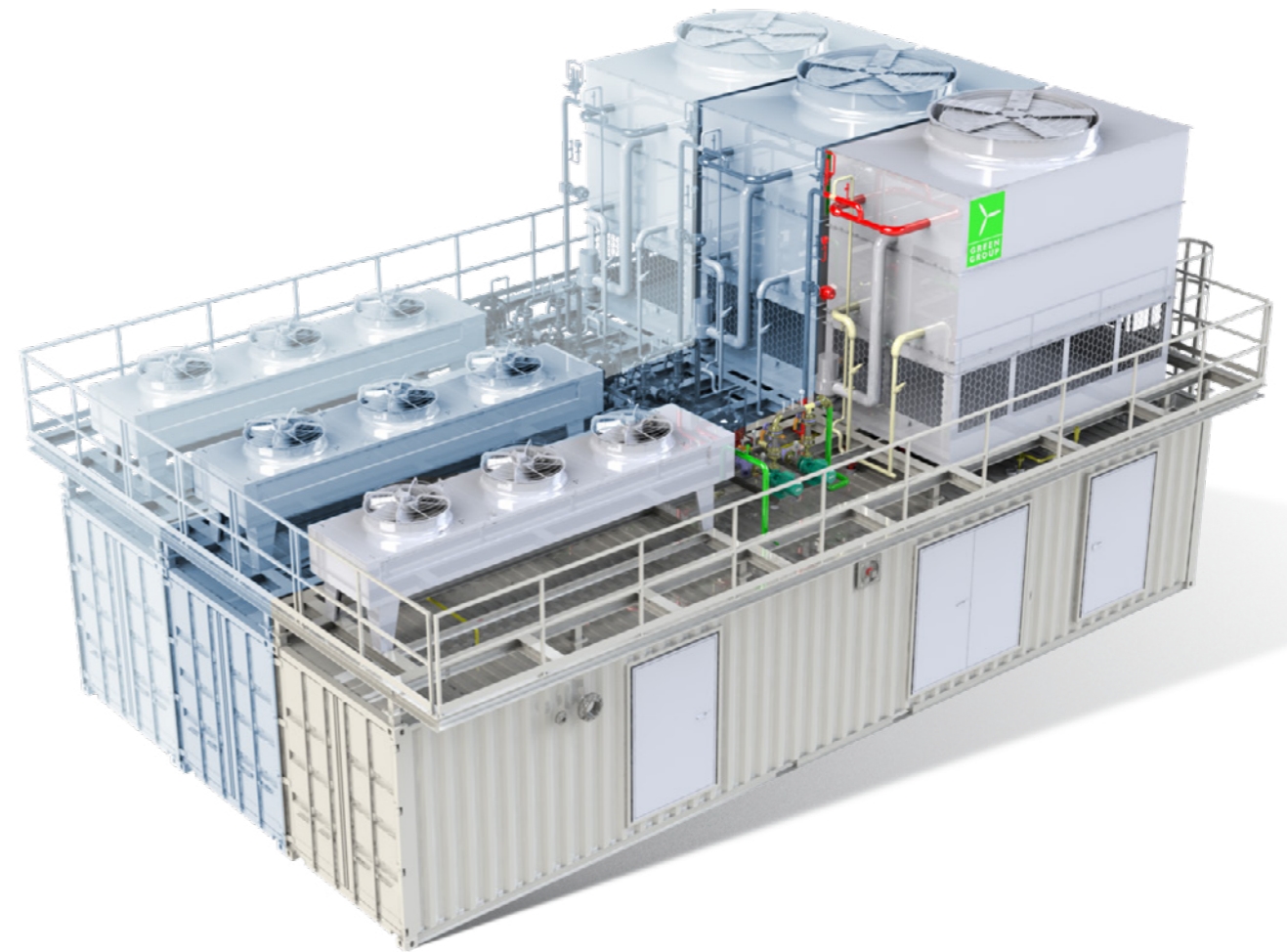
Measurement	Dimension, mm	Weight, t
Length	14802	
Width	4130 (2065×2)	Up to 25 (18+7)
Height	6374 (3187×2)	

* All dimensions can be adjusted according to individual customer requirements.



Modular design

Modular design keeps your options open and gives flexibility, too. A unit can be expanded by adding extra modules to the existing one.



5 things for Installation

Everything we need – few conditions for installation:



8 poles foundation



Water inlet



Drainage



Electricity



Internet – Profinet cable

About the Company

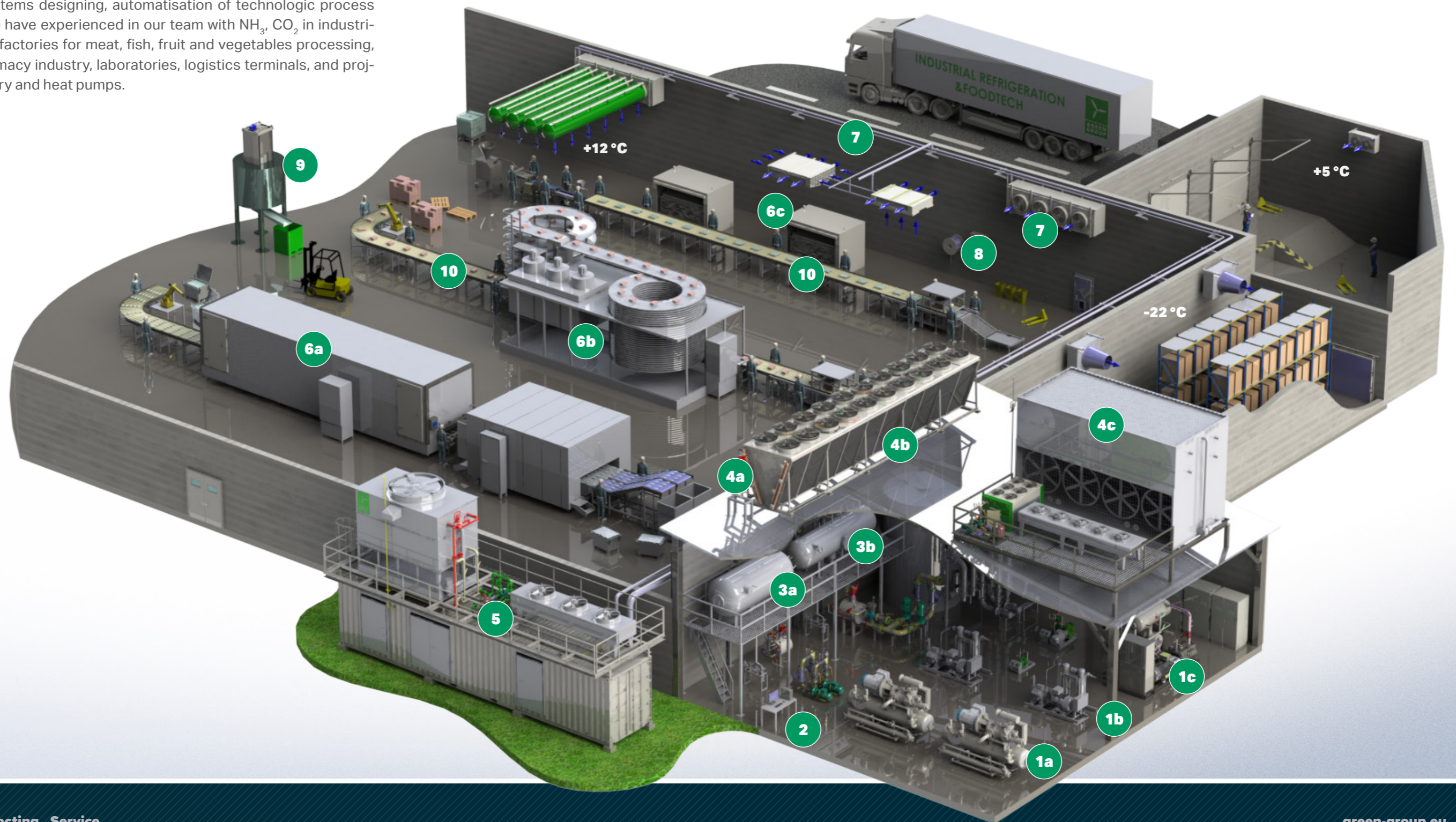
The joint stock company GREEN GROUP was founded in 2006 and it attracted people with great experience in engineering and servicing refrigeration and air conditioning systems. The philosophy of the company is based on harmony of the environment with new ecotechnologies and our task is to ensure that the words ENVIRONMENT, ECOLOGY and the GREEN GROUP are related.

The main activities of the GREEN GROUP are refrigeration, air treatment, renewable energy systems designing, automatisaton of technologic process and contracting. We have experienced in our team with NH₃, CO₂ in industrial projects, such as factories for meat, fish, fruit and vegetables processing, breweries, the pharmacy industry, laboratories, logistics terminals, and projects for heat recovery and heat pumps.

Equipment

- 1 **Machinery:** a) NH₃ screw compressor, b) CO₂ reciprocating compressor, c) NH₃ heat pump
- 2 **Monitoring**
- 3 **Low pressure vessels:** a) CO₂, b) NH₃
- 4 **Condensers:** a) Heat recovery (desuperheating), b) Dry, c) Adiabatic

- 5 **Mobile Machinery**
- 6 **Freezers/Chillers:** a) Tunnel/IQF, b) Spiral, c) Plate
- 7 **Coolers/Evaporators**
- 8 **Washing solutions**
- 9 **Ice machine with a storage**
- 10 **Conveyors**



Contact us



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