
Refuelling Solutions

Natural Gas, Biogas, Hydrogen



GREENFIELD is your specialist for high-pressure systems. With a century of experience in this business we have been able to maintain and even improve our strong market position providing total solutions – from a single compressor to complete systems, including dispensing, storage, enclosure and other accessories required for a successful installation.

Today, GREENFIELD is the technology leader worldwide with its high-end premium products engineered in Switzerland.

With a century of experience in high-pressure technology and the fact of thousands of compressors installed worldwide, GREENFIELD is ready to serve your needs for peak performance and success in the market.

As part of the Atlas Copco Group GREENFIELD has global access to over 150 markets, which are served through our production facilities either in Switzerland or in the United States.

This comprehensive Sales and Service Network assures our customers direct access to the most reliable and technologically advanced equipment available.

Natural Gas (CNG/NGV), Biogas and H₂ Refuelling

GREENFIELD's modular refuelling stations are compact high-performance installations designed for the refuelling of:

- Passenger cars
- Indoor utility vehicles
- Light duty vehicles
- Buses and Heavy duty trucks
- Ferries, canal boats and special vehicles

If fast-fill, slow-fill or mother-daughter systems, we have the perfect solution for our customers, who can choose from our standard program or from our customized stations.

Total Solution Provider



Being a total solution provider GREENFIELD, apart from the complete range of equipment, offers customers services like pre planning and station layouts, preparation of specifications, assistance with authorities approval procedures, project management, and more ...

GREENFIELD Compressors – the Heart of Peak Performance Compression Systems and Refuelling Stations.

GREENFIELD compressors offer field-proven efficiency and reliability. The gas and pressure-tight crank-case design ensures no gas losses to atmosphere. Our D-Series oil-free units assure that oil neither contaminates the gas nor does oil disposal contaminate the environment. GREENFIELD's compressors are available up to 501 bara. Higher pressure applications on demand.

C-Series

Lubricated trunk-piston compressors.
Air- and water-cooled execution available.
Gas tight up to 19 bara (260 psig):

- Type CT up to 1 600 Nm³/h (1 000 scfm)
- Type CU up to 850 Nm³/h (500 scfm)
- Type CC up to 250 Nm³/h (150 scfm)
- Type CN up to 80 Nm³/h (50 scfm)

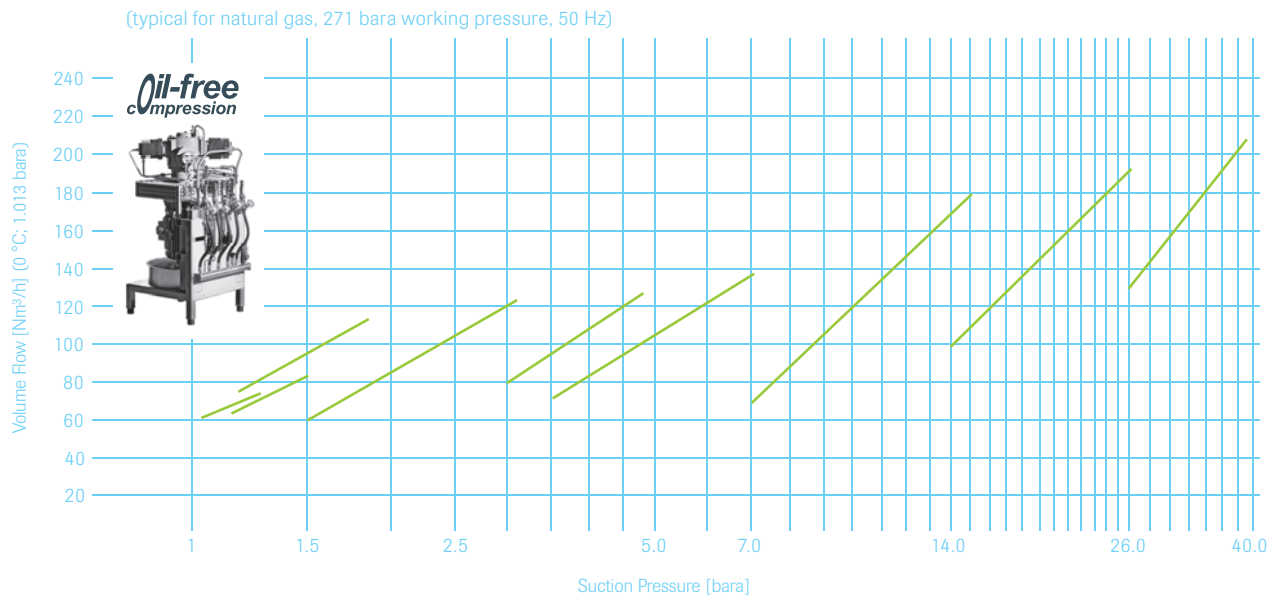
DM-Series

Totally oil-free, hermetically sealed compressors.
This compressor range utilizes GREENFIELD's revolutionary oil-free high-pressure technology.
Gas tight up to 40 bara (570 psig):

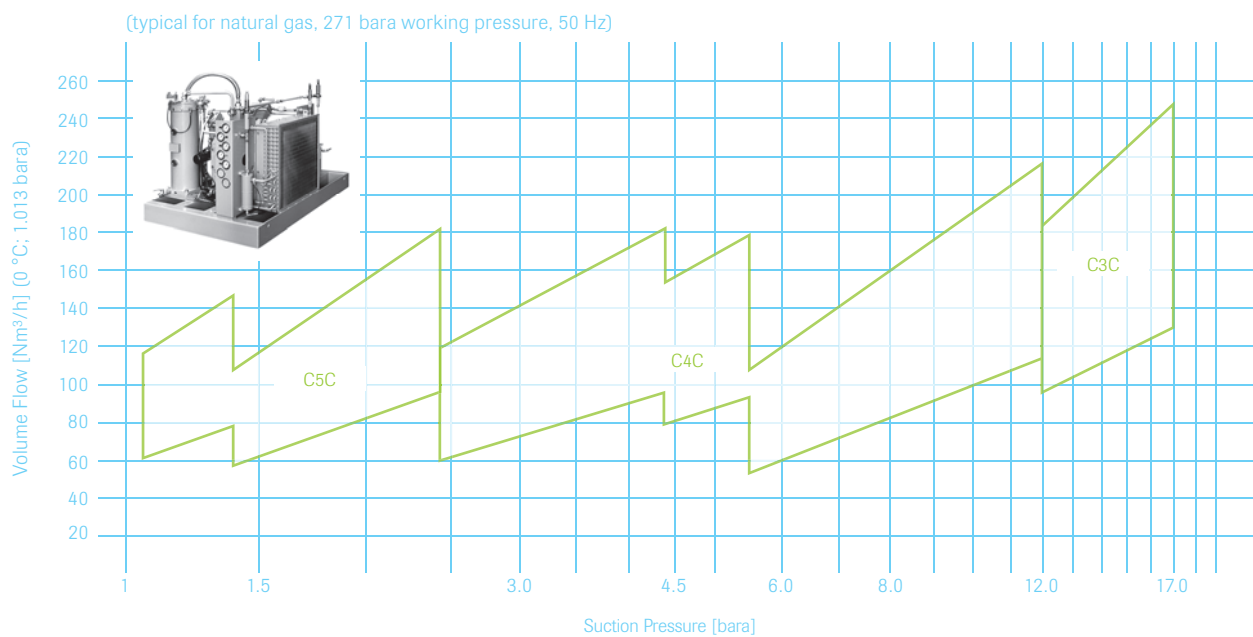
- Type DM up to 210 Nm³/h (125 scfm)

Flow Rate Diagrams

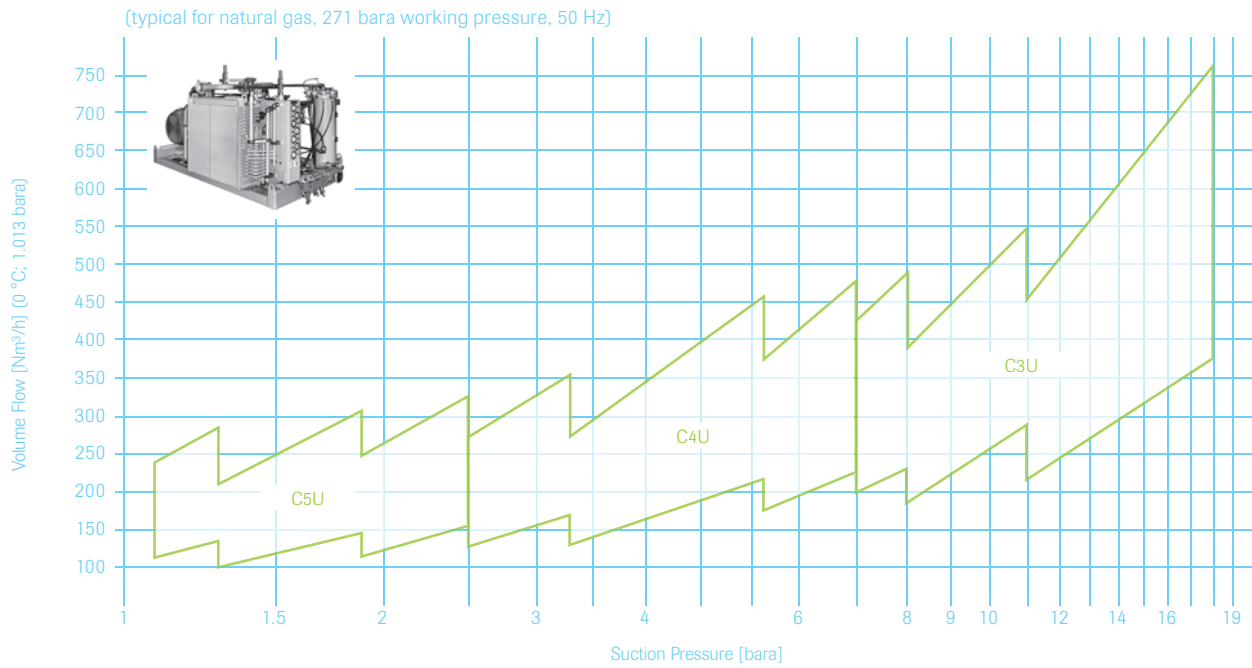
Type DM



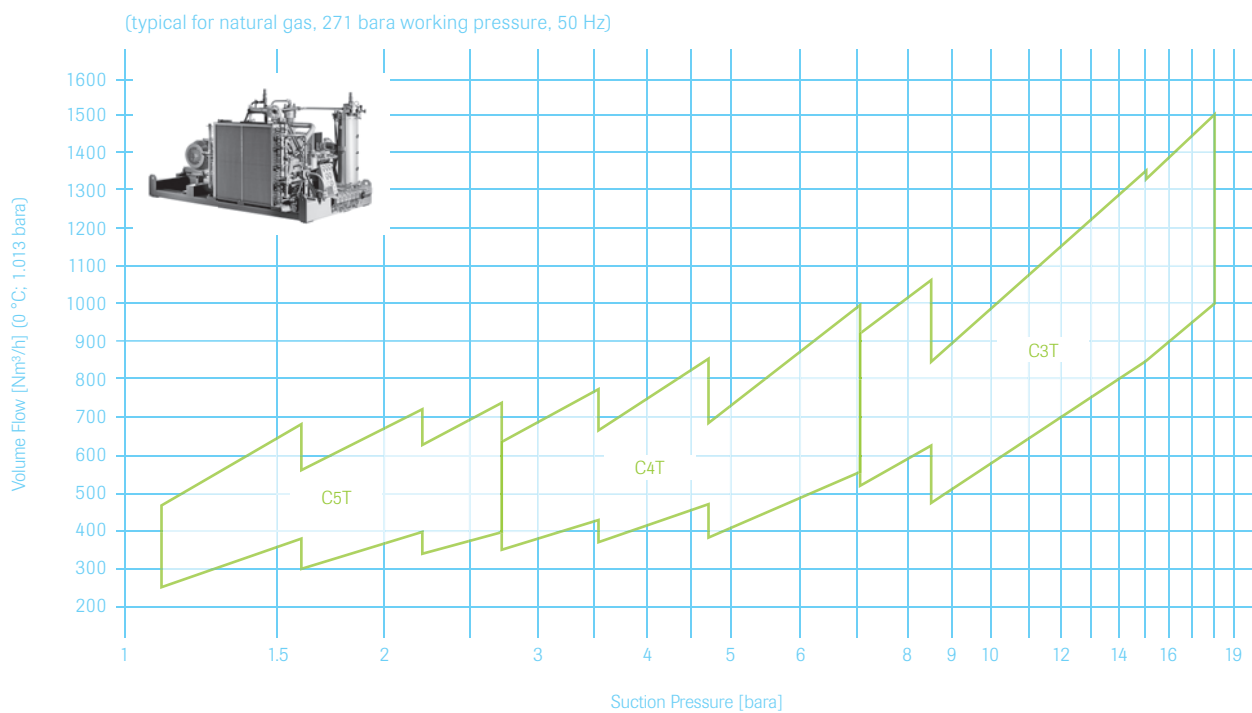
Type CC



Type CU



Type CT



GREENFIELD Standard Refuelling Stations – Peak Performance meets Compact Design



S100-DUO, featuring oil-free compression

Modular refuelling station, available in concrete or sheet metal housing. Equipped with one oilfree DM type compressor, prepared for the installation of a second compressor for a later phase of higher refuelling demand.

Capacity:
up to 250 cars, 50 trucks or 25 buses per day (2 compressors).



S250-SINGLE

Compact refuelling station, available in concrete housing. Equipped with one CC type compressor.

Capacity:
up to 150 cars, 30 trucks or 15 buses per day.



S750-SINGLE

Compact refuelling station, available in concrete housing. Equipped with one CU type compressor.

Capacity:
up to 450 cars, 90 trucks or 45 buses per day.



S250-SKID/S750-SKID

Compact refuelling station, available in sheet metal housing with separate storage module. Equipped with one CC or CU type compressor.

Capacity S250-SKID:
up to 150 cars, 30 trucks or 15 buses per day.

Capacity S750-SKID:
up to 450 cars, 90 trucks or 45 buses per day.

GREENFIELD Dispensers – Comprehensive Dispensing Control and Refuelling Technology.

Process-computer-controlled dispensers available in single-, dual- and multi-hose execution. Vehicle fill pressure: 200 bar (3 000 psig) or 250 bar (3 600 psig), temperature compensated. The FillMaster Series can be equipped with internal or external electronic sequencing, OptiFill® controlled filling process and interface to all commonly used station management systems.

FillMaster Series



FillMaster – COMPACT “The compact solution”

HighMast GF-standard housing with small footprint, available with the latest GREENFIELD technologies.

FillMaster – MODULAR “The flexible solution”

Housing available in various shapes for all station forecourts. SEKA II refuelling controls with OptiFill®. Remote monitoring capabilities.



FillMaster – TOP “The high flow solution”

High flow dispenser for rapid filling of heavy-duty trucks and busses.

OptiFill® Software

The maximum safety technology today to completely fill your NGV vehicle, achieved without danger of over-filling.

The unique OptiFill® software developed by GREENFIELD calculates the optimized filling degree under consideration of ambient and gas temperature as well as the heat of compression effect without

neglecting the necessary safety aspects specified by law. Verified and certified by independent authorities and testing labs in Europe and North America, and used around the world in the most stringent applications.

Sophisticated Components and Smart Controls.

We like it compact, easy to operate and maintenance friendly. Wherever possible we use multifunction blocks to save space and reduce fittings to a minimum. Our specially designed control system SEKA II combined with the alarm and information platform CSP offer highest flexibility in operation and equipment diagnostics.



Multifunction Blocks

High- and low-pressure multifunction blocks which incorporate various functions into a common compact block to minimize the number of potential leaks.



SEKA II System Controls

SEKA II (failsafe electronic compressor and system control) was developed specifically for the control of compressors and station components. The system allows failsafe solutions to be set up quickly and with minimal maintenance requirements. SEKA II is certified for AK3/SIL1 by TÜEV.



Customer Service Portal – CSP

CSP is an Alarm and Information platform allowing you to remotely access your GREENFIELD compressors and stations equipped with SEKA II controls from virtually anywhere via internet (SSL ICC secure login) with common web browsers. No additional hardware or software is required to monitor your equipment data in real time.

Customized Solutions



← Linz, Austria.
4 CT compressors, 4 TOP dispensers.

→ Langenrohr, Austria.
S100-DUO, Dispenser Type
MODULAR-X.



← Oldenburg, Germany.
4 CU compressors, 4 TOP dispensers.

→ Saarbrücken, Germany.
4 CU compressors, 5 TOP dispensers.



← Clermont Ferrand, France.
2 CU compressors, 64 slow-fill posts.

→ Lille, France.
2 CU/CT compressors, 50 slow-fill
posts.



← Basel, Switzerland.
2 (3) CU compressors, indoor refuel-
ling with 30 slow-fill-connections,
2 fast-fill dispenser.

→ Tomsk, Russia.
2 CU compressors, 2 COMPACT
dispenser.

Customer Services



GREENFIELD's local Service teams are providing and coordinating all major after-sales activities including installation, commissioning and testing of new equipment, maintenance and overhauls including service contracts, upgrades, recommended genuine GREENFIELD spare parts, valve repair, training for maintenance and operations, remote diagnosis of station installations.

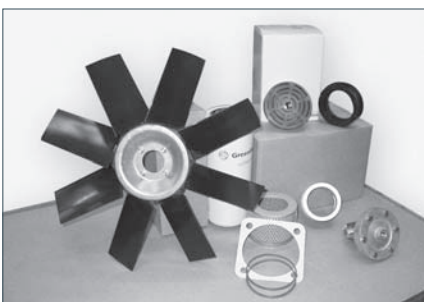
GREENFIELD's teams are strategically located around the world and expertly trained in compressors, controls and vehicle filling technology and are available for both preventive maintenance and emergency service worldwide.

Training



GREENFIELD engineers provide customer trainings for installation & commissioning, operation, monitoring or maintenance either in-house or at the customer's premises. 3 different training levels are available to provide highest flexibility to the customer.

Spare Parts



Genuine GREENFIELD Spare Parts.

To optimize the equipment performance during its life time GREENFIELD offers a wide range of spare parts for service and maintenance purposes. The large parts stock ensures our customers availability and shortest lead times.

GREENFIELD Refuelling Solutions – Benefits at a Glance:

- One-stop resource for compressors, dispensers, solutions and services
 - Leader in NGV refuelling technology
 - More than 1 800 NGV-installations in operation worldwide
 - Main supplier for most important European NGV-Programs
 - Standard and customized solutions
 - Energy efficient equipment – low total costs of ownership
 - High class production facilities in Switzerland
 - Global presence with local focus – Part of the Atlas Copco Group
 - PED/ATEX conformity
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GREENFIELD Europe
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