



Automatic Cylinder Filling Systems



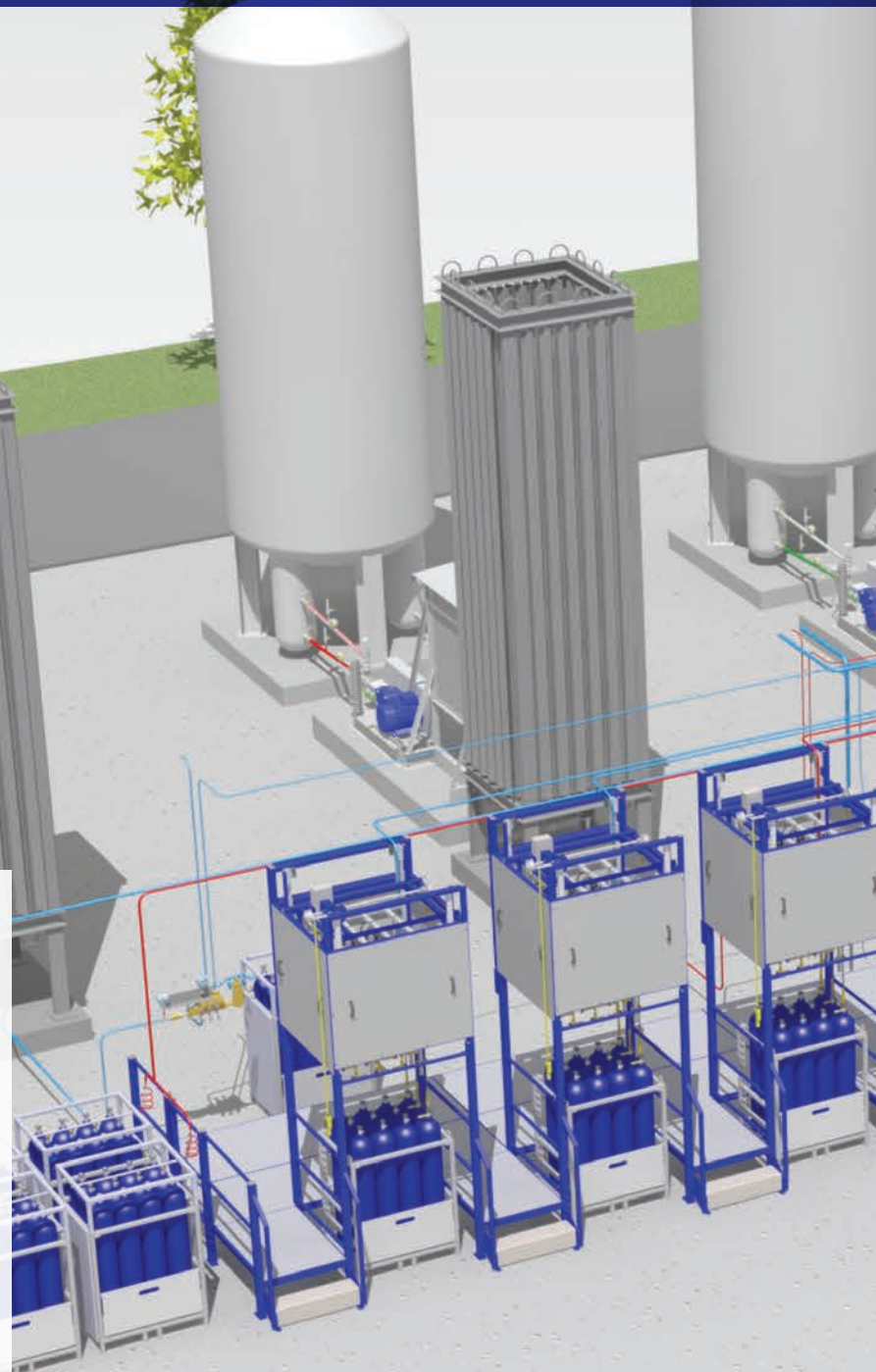
Introduction

As International / Global experts within the Cylinder Filling sector we recognise the importance of “flexibility” when delivering solutions to our customers. We also recognise the core “intelligent” elements of the solution and those which can be sourced “locally” with our help and guidance.

Based on this requirement from our customers, we have developed a “standard”, pre-engineered package which enables our global customer, irrespective of their location to take ownership of the most sophisticated Automatic Cylinder Filling Plant at a cost to suit their budget.

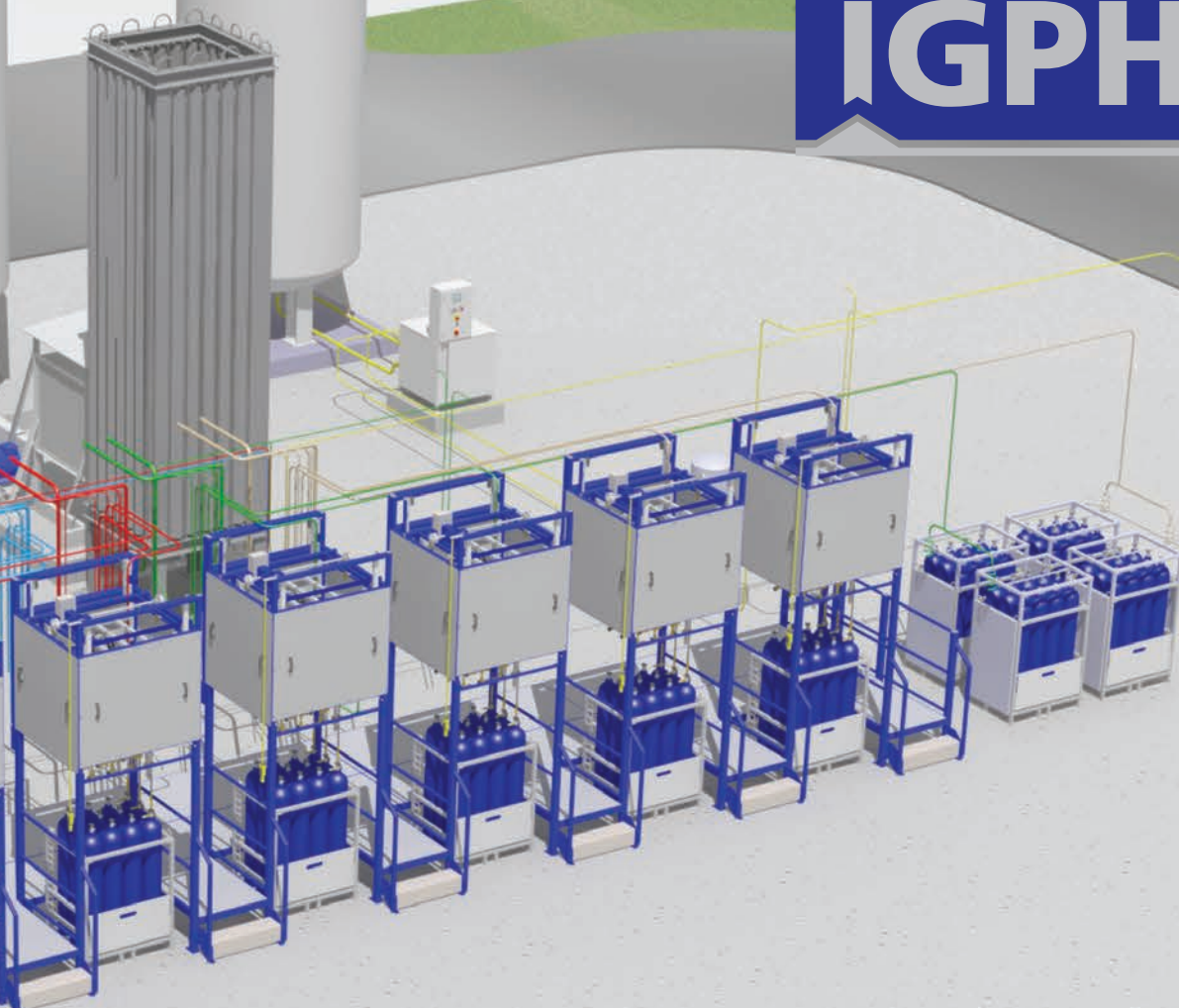
What does this package include;

- Automatic Cylinder Filling skids
- Line safety manifolds
- **AiFill** Control System with remote support feature
- Process design package
- Mechanical and electrical design package
- Support and guidance in equipment selection for other parts of the system
- 1 x site visit at Engineering / design phase
- 1 x Installation management visit during plant build phase
- On site commissioning and operator training



Safety, Quality & Technology

- European engineering and manufacture
- 100 years combined experience in Cylinder Filling Solutions
- AiFill leading edge plant control and automation
- ISO 9001 - Project process (iProject) and manufacture
- Design authority
- ATEX/IECEX
- Safety requirements specification to comply with IEC 61511
- Oxygen shock tested product (420bar BAM)



Line Safety Manifolds

The purpose of this unit is to protect the downstream system from damaging particles, excess pressures and cold temperatures exit the vaporiser. Includes the facility for an online buffer system, designed for thermal expansion, pump over-run and additional capacity for productivity gains.

This is of modular construction therefore is delivered fully factory tested and ready for installation.



Automatic Cylinder Filling Modules

The purpose of this unit is to prepare (vent and vacuum), fill (automatically) mono & mixtures gas into cylinders and bundles to the correct pressures, utilising pressure/temperature compensation as the filling technique.

Standard products;

- 5 gas Mixtures Cylinder Filling module.
- Mono gas Cylinder Filling module

Common features;

- Integrated vacuum systems
- "Fine Fill" proportional filling
- 420 bar design
- Settled pressure filling to 300 bar
- Dual pressure filling
- Cleaned for O2 service
- Adiabatic shock tested valves for O2 service
- Interface control panel
- AiFill Control system – multi language, HMI & SCADA
- Factory tested ready for installation / hook up



Turnkey projects and additional equipment from the IGPH Group

Cryogenic Equipment

- Reciprocating pumps for both Cylinder Filling and Process applications
- Vaporisers
- Valves and Instruments

CO2/N2O Filling and Pumping;

- Gravimetric liquid filling modules
- Integrated pump skids

Filling stations;

- Pallet filling including platforms
- Linear rack (fixed and mobile)
- Bundle filling
- Single Cylinder (Gravimetric filling)
- Analysis systems

Valves and Valve Manifolds

Hose & Cylinder Connectors



Our Project Locations



The IGPH Group has more than 100 years' combined expertise in the engineering, design and manufacture of equipment and full turnkey plant solutions for global cylinder filling clients. Each member is a specialist in its' own right delivering world leading **Cylinder Filling** equipment & solutions.



www.aeroflex.co.uk



www.filltech.de



www.igas-ts.com



www.krytem.com



www.m-tech-gmbh.com

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