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# Technologies for Natural Gas Industry

## Company Presentation

2009



EMER Group is a multinational company specialised in co-designing with its Customers solutions for optimising safety, comfort and performance of alternative fuel engines

EMER Group, founded by Gobbi bros. in 1975, is nowadays a leading company and full system provider in the CNG and LPG industry with a significant track record in turnover, technology, operation and business development.

OES for Fiat since 1997, VW, Iveco, Maruti India, Toyota Japan and several other customers grant the quality and sustainability of the relationship

Over 200 refuelling stations worldwide are equipped with SICOM compressors

The patented solutions, production competencies and reliability made of VALTEK injectors the absolute market leader

In 2008 the company was acquired by a private equity fund

## Facts and figures

<i>Turnover</i>	<i>approx 100 ml € in more than 50 countries all over the world</i>
<i>Employees</i>	<i>&gt; 220</i>
<i>Sales organisation</i>	<i>sales offices, agents and several distributors in &gt; 60 countries</i>
<i>Production</i>	<i>6 production plants in Italy, Iran, Argentina</i>
<i>R&amp;D investments and expenditures</i>	<i>6% of total turnover is devoted to R&amp;D</i>

# OUR HEADQUARTER



- ✓ SICOM produces its own technology for CNG compressors package and complete CNG stations
- ✓ SICOM has high talented engineers with the best available knowledge about CNG industry
- ✓ SICOM is capable to offer a “plug and play” product fully tested and ready to operate at site
- ✓ Compressors are designed for a heavy duty work
- ✓ Reference list covers a wide range of application in a large number of countries at different conditions from Russia to Bangladesh, from Europe to South America
- ✓ SICOM is a single stop shop for the CNG applications and can act as Main Contractor for the entire station procurement



# SICOM Compressor

- ✓ SICOM design, produce and sell compressors based on its own design.
- ✓ For **CNG applications**, SICOM offers compressor's technology with:

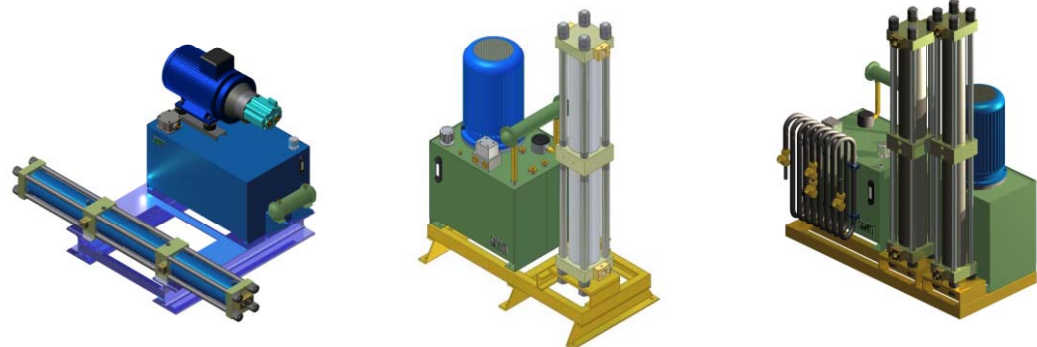
- **RECIPROCATING**: "W-type" or "H-type" with 2 and 3 cylinders.



- **Home Compressors**



- **OLEODYNAMIC Boosters**



# ADVANTAGES

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- Covering one of the largest **range of capacities** available in the Industry
- **Small overall size**: compressors require small spaces for installation
- **Easy access for maintenance**: SICOM compressor's cylinders are easier to access.
- The production line includes compressors in upto four stages to cover **any possible gas pressure conditions** present in a gas pipeline from 0,1 barg up to 100 barg
- **Low level of vibrations**
- **Very Low Oil consumption**, less than 2 g/hours
- **Long life** of the components mechanical principals
- **No special tools** or special equipment are required

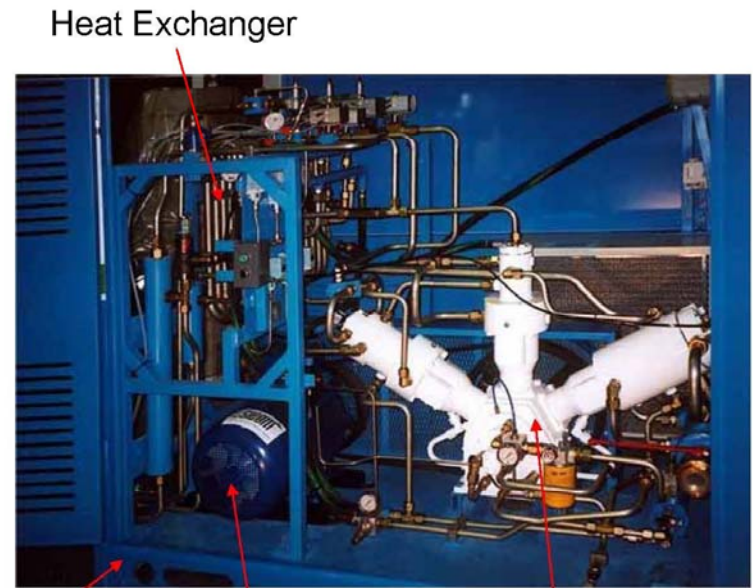
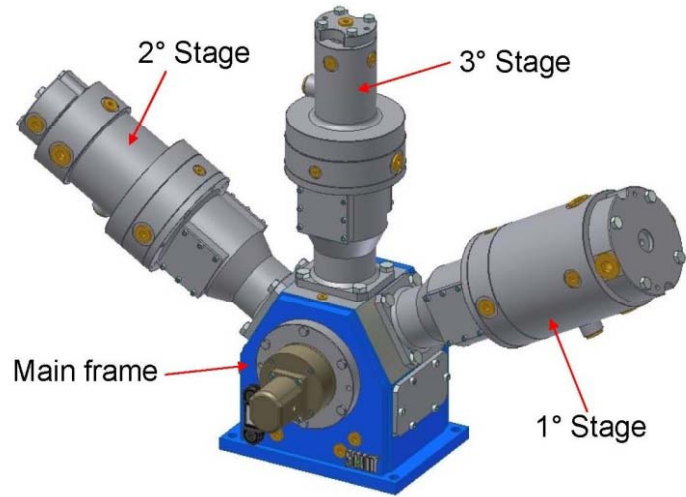
# Reciprocating Compressors



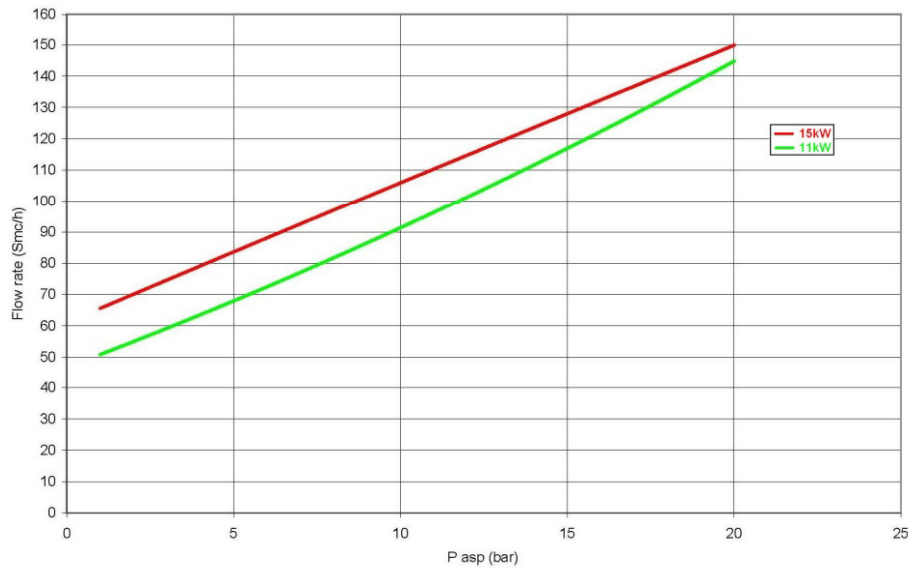
SICOM compressor model	Stages	Single Effect	Double Effect
220.SE	3	3	
360.SE	3	3	
360.DE.4	4	1	3
360.2DE.4	4	2	2
680.SE	3	3	
680.DE.4	4	1	3
680.2DE.4	4	2	2
750.SE	3	3	
750.DE.4	4	1	3
750.2DE.4	4	2	2
950.SE.4	4	4	



# 220 series



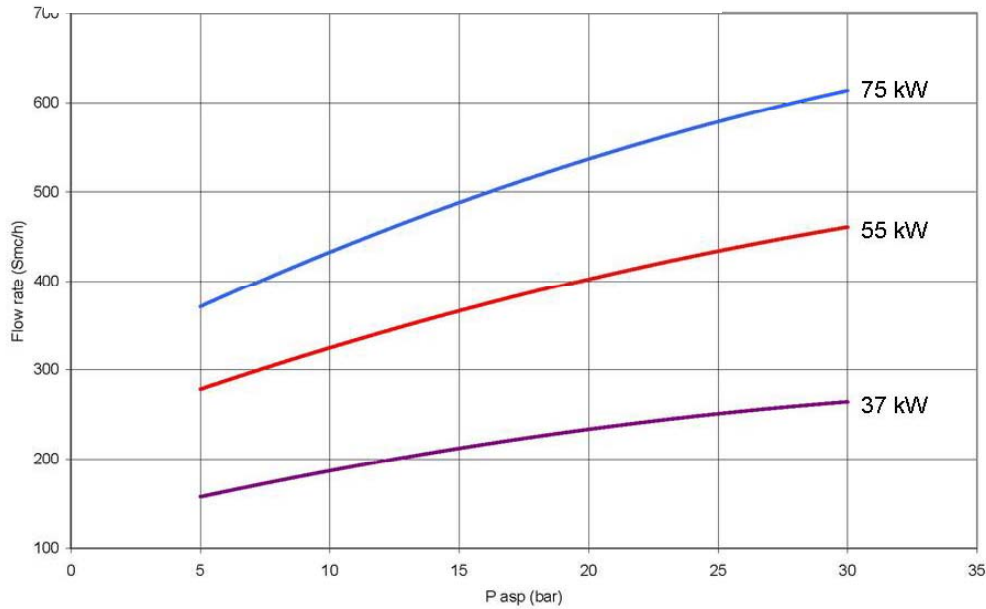
Flow rate SICOM compressor 220



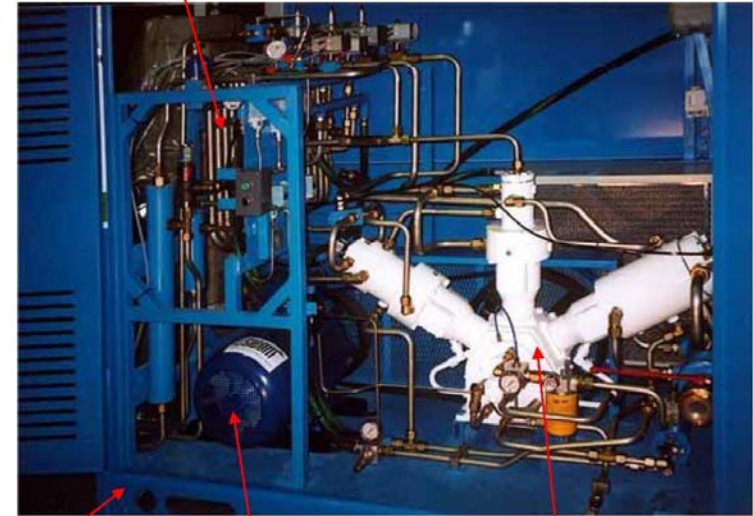
Skid Electrical motor Compressor unit

220 series	
Inlet Pressure range (bar)	Flow Rate (smc/h)
1 - 20	50 - 150

# 360 series

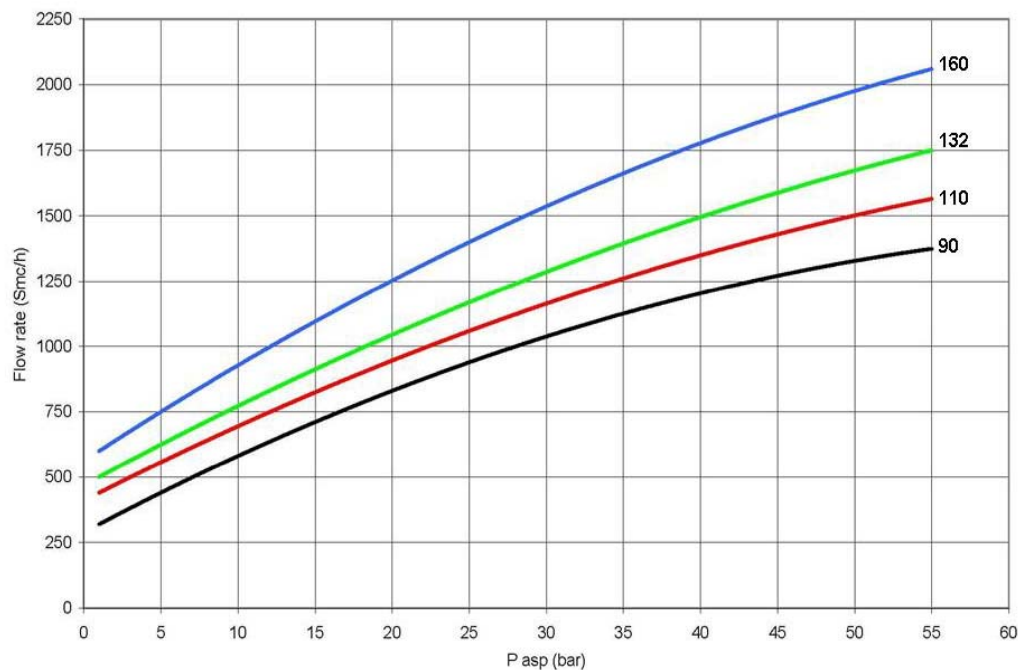
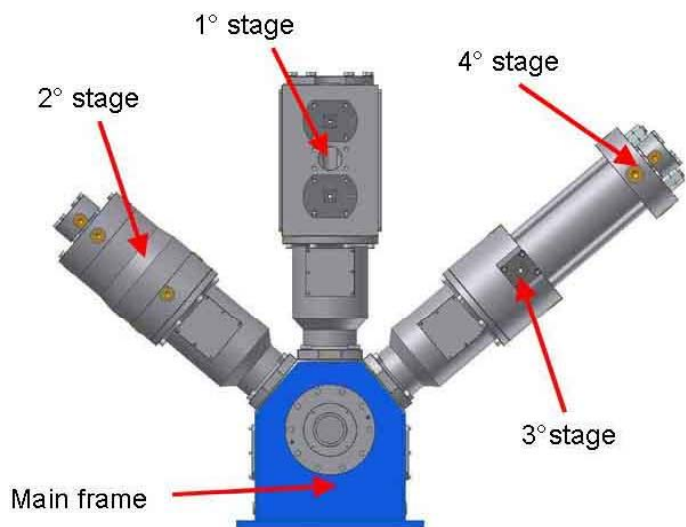


Heat Exchanger



Skid      Electrical motor      Compressor unit

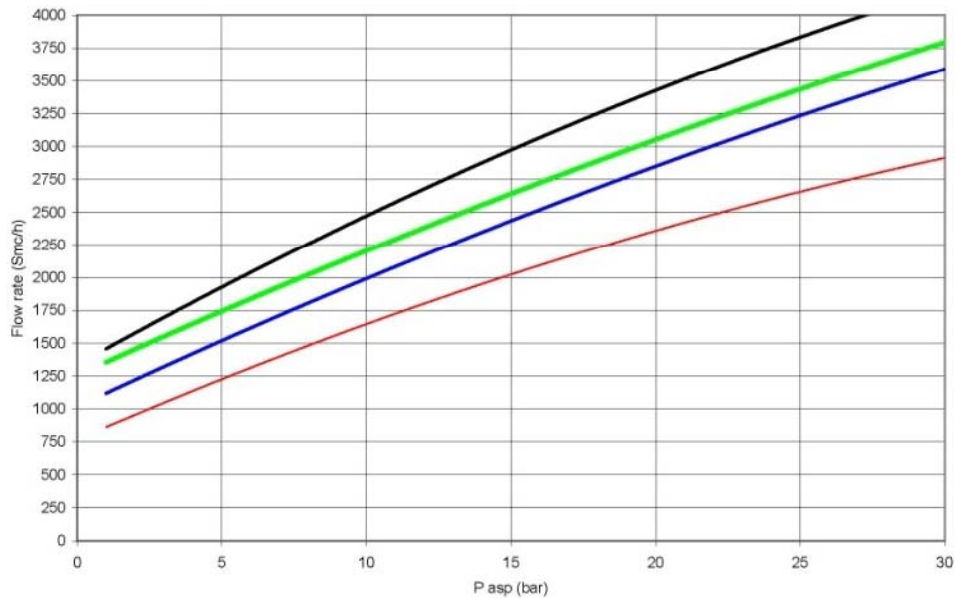
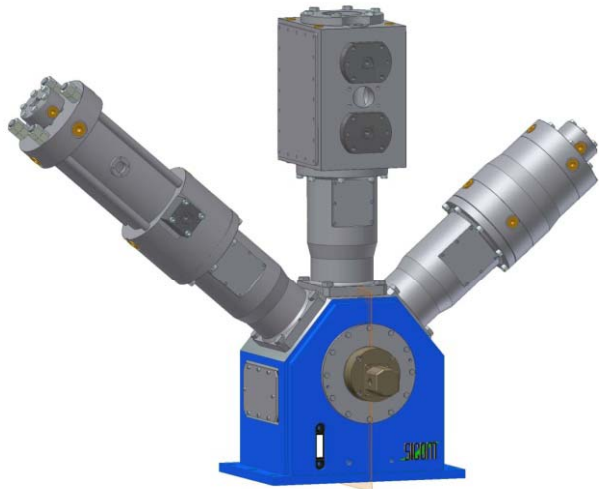
360 series	
Inlet Pressure range (bar)	Flow Rate (smc/h)
5 - 30	150 - 600



680 series	
Inlet Pressure range (bar)	Flow Rate (smc/h)
0.5 - 50	300 - 2500



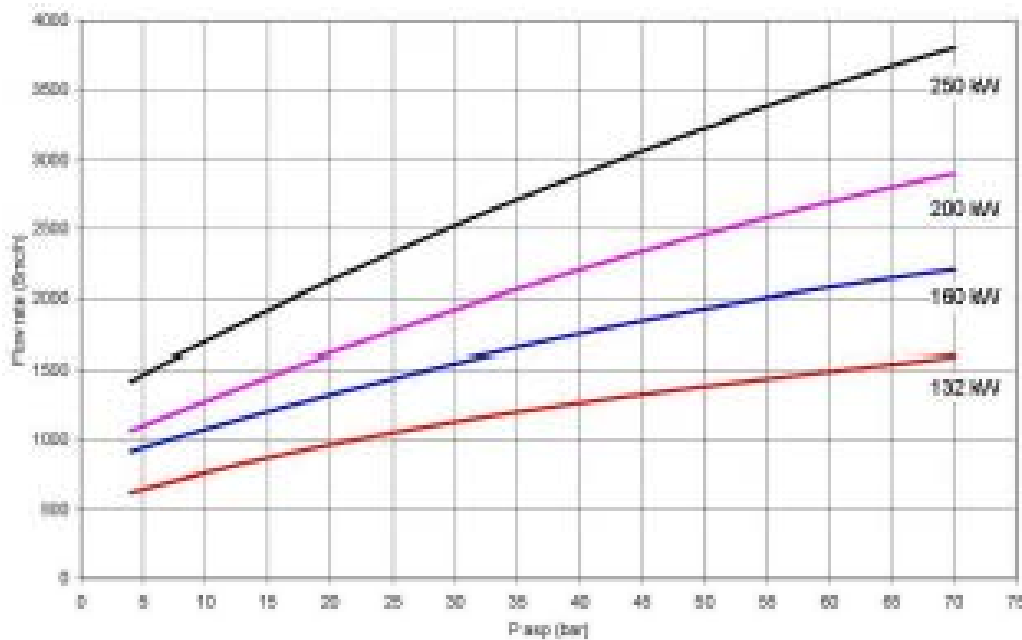
# 750



750 series	
Inlet Pressure range (bar)	Flow Rate (smc/h)
0.5 - 70	600 - 6000



Flow rate SICOM compressor 950

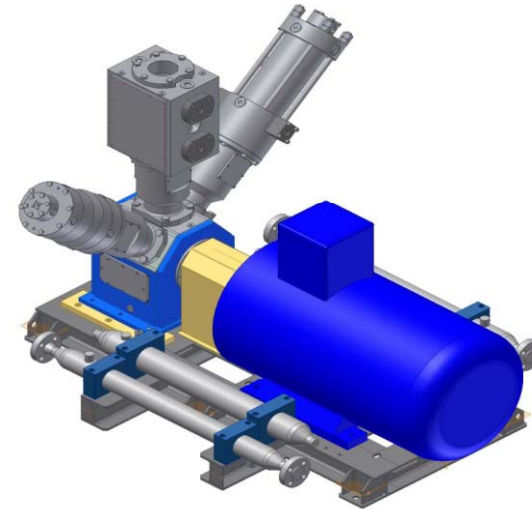
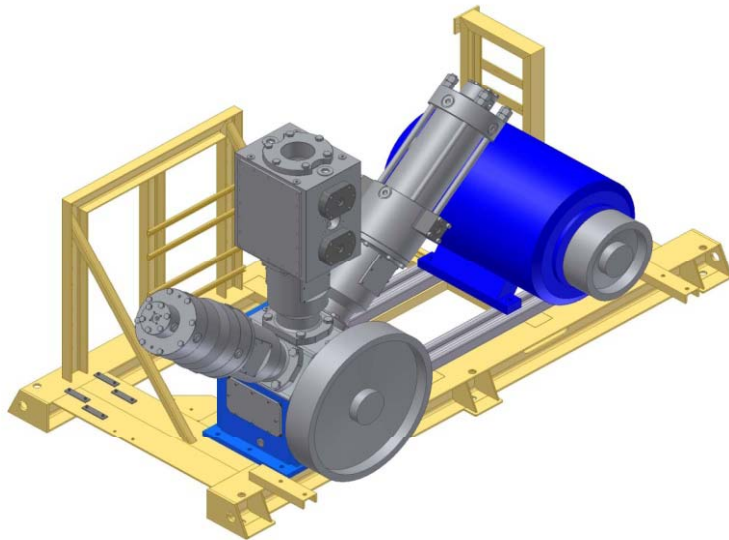


950 series	
Inlet Pressure range (bar)	Flow Rate (smc/h)
4 - 70	600 - 3000

# COUPLING with Electric Motor

The Compressor can be connected to the electrical motor in two ways:

## Belts Coupling



## Direct Coupling

# SICOM Products for CNG Stations

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Measurement Systems

Concrete and Steel Box

Dryers

Storage Packages

Dispensers

Chillers

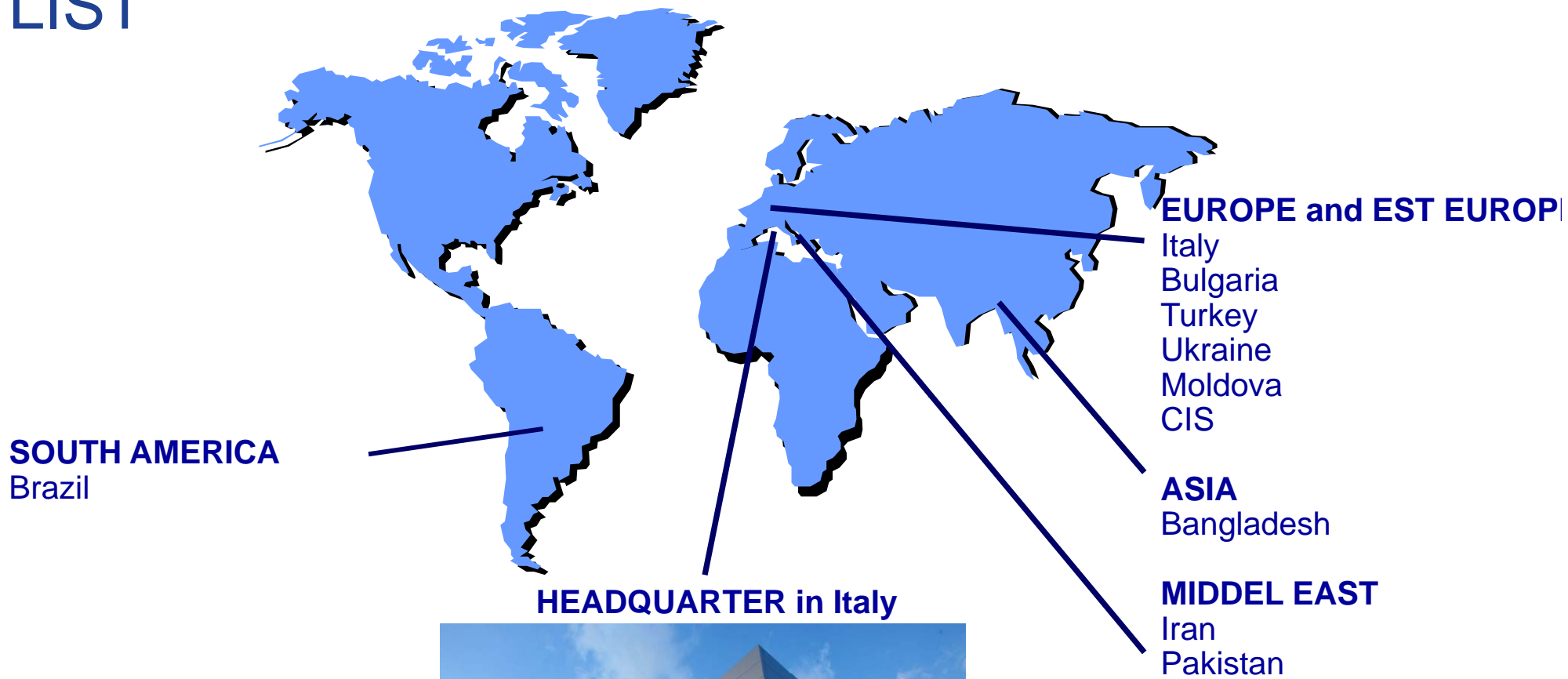
Control Panels

Priority Panels

SICOM can supply all equipments to operate  
complete CNG stations



# SICOM REFERENCE LIST



# The Way We Work

1

## Application Engineering

Dedicated team to define and configure the most suitable proposal for Tenders and direct Inquiries

2

## R&D

Constant Material and Solution research

3

## Customer Support

From RFQ to Delivery, Installation and Commissioning

4

## Service

Directly with our Engineers for Italy  
Authorized Service Centers  
Worldwide, with personel skilled and trained

SICOM is a Technological and Industrial Partner,  
focused on Product Performance and committed to  
**Reliability**

Q&A

Thank You for your Attention