Cryobox - Nano LNG Technologies
Osvaldo del Campo
CEO & Chief of Technology
2013
LNG
- LONG DISTANCES
- INTERURBAN TRANSPORTATION
- MARINE SOLUTIONS
- Railways

CNG
- SHORT DISTANCES
- URBAN TRANSPORTATION
- DOMESTIC VEHICLES
The Actual LNG Model
Transported LNG – An unsustainable model
• Restricted to areas close to LNG sources
• Complex Logistic
• Very High Investments
• Higher Fuel Cost
• High Operative Costs
• High Storages
  – High Boil Off emissions
  – Restricted to non-urban areas by safety distances
The Galileo LNG Model
Our Solution

- LNG has to be produced as closed as possible from the users.
- Small production plants
- Easy and fast installation
- Easy to be maintained
- Easy to be operated
- Modular
- Scalable
- Capable to be relocated
- Efficient
- Low CAPEX/OPEX
THE FIRST LNG NANO LIQUEFACTION PLANT AVAILABLE IN THE WORLD
Main Features

- Up to 16 Tons of LNG / day
- 40,000 Nm³ CNG / day
- 500 Kw installed power
- Gas or Electric Driven
- No Emissions
- Remote monitored
- Low Operative cost
- Low Maintenance
- Compliant with all the International Standards
- 100% proven technology
## MODELS

### CRYOBOX - MODELS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CRYOBOX-500-11</th>
<th>CRYOBOX-600-15</th>
<th>CRYOBOX-600-4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INLET PRESSURE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 bar R</td>
<td>15 bar R</td>
<td>4 bar R</td>
<td></td>
</tr>
<tr>
<td>156 bar R</td>
<td>213 bar R</td>
<td>57 bar R</td>
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<tr>
<td><strong>LNG PRODUCTION CAPACITY</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>520 kg/h</td>
<td>660 kg/h</td>
<td>560 kg/h</td>
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</tr>
<tr>
<td>12 Ton/day</td>
<td>16 Ton/day</td>
<td>13 Ton/day</td>
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<tr>
<td>29091 l/day</td>
<td>36923 l/day</td>
<td>31329 l/day</td>
<td></td>
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<tr>
<td>7683 gal/day</td>
<td>9751 gal/day</td>
<td>8274 gal/day</td>
<td></td>
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<tr>
<td><strong>CONSUMED POWER</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>444 kw</td>
<td>493 kw</td>
<td>472 kw</td>
<td></td>
</tr>
<tr>
<td>450 kw</td>
<td>494 kw</td>
<td>494 kw</td>
<td></td>
</tr>
<tr>
<td><strong>INSTALLED POWER</strong></td>
<td></td>
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</tr>
</tbody>
</table>

**NOTES:**
- Performance parameters are referred to a natural gas composed with 100% Hydrocarbons and a reference specific gravity of 0.65 kg/m³. Inert gases portions has to be deducted. Deviations in the Specific Gravity may modificate the performance.
- Performance values are referred to an average ambient temperature of 22 °C (72 °F). For other temperatures performance has to be corrected by temperature correction charts.
- All the parameters contained in this datasheet have a tolerance of ± 10%.

**CRYOBOX 600 AVAILABLE MARCH 2014**
One Equipment – Two Fuels

- Cryobox produces at the same time LNG & CNG
Based on Our Microbox Modular Platform
Natural Gas Technologies
Easy Installation
Easy Installation
Applications
Aplications

Sources

Natural gas from pipelines

Stranded / associated gas from gas wells

Biomethane

Applications

Virtual pipeline®

LNG for vehicles

LBG

Bunker fuel for ships

Gas distribution
Marine Applications
Modular & Scalable
Modular & Scalable

Natural Gas Technologies

CRYOBOX®
Operative Costs
Capex / Opex

- Nitrogen Based Liquefaction Cycle
- Cryobox 500-11
- Cryobox 600-15
- Cryobox 600-4

USD/MMBTU

OPEX

CAPEX
About Us

Compression Stations up to 2000 HP
Virtual Pipeline Systems
About Us

Small CNG Stations
Ultra Fast filling stations for Buses
Daughter Stations
About Us

Hidrogen Stations
A Global Company

- EXPORTS TO 65 COUNTRIES ALL AROUND THE WORLD
- 90% OF OUR PRODUCTION IS EXPORTED
- HEADQUARTERS IN BUENOS AIRES - ARGENTINA
- SPARE PARTS AND TRAINING CENTER IN LOS ANGELES - USA
- WORLDWIDE SERVICE NETWORK
• Thank You