

RNG

Biogas

**Sustainable application
for a green energy transition**



Biogas Compression System

WHAT IS BIOGAS?

Biogas is a gaseous biofuel obtained through the anaerobic digestion of residual materials of organic, animal or plant origin. The International Institutions consider it a reliable and clean source of energy: biogas gives the opportunity to re-purpose waste materials by ensuring their economic, environmental and social value.

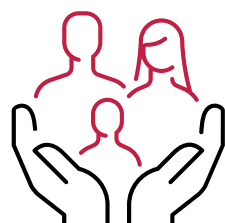
The entire production process takes place in a temperature-controlled environment thanks to the work of active microorganisms that convert the raw material into biogas. The end result is 50-70% methane and the remainder mainly CO₂ with other components.

THE DECARBONISATION OF THE PLANET STARTS FROM MAYEKAWA

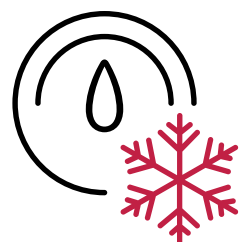
Biogas will play an important role to achieve an emission-free of CO₂ and as alternative to natural gas.

MAYEKAWA solutions are available for the compression of biogas before the upgrading, and for the processing of CO₂ compression and liquefaction. **MAYEKAWA sustainable solutions designed for the future.**

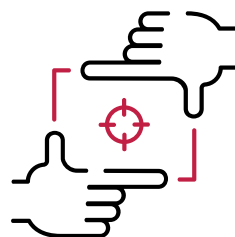
WHO MAYEKAWA IS?



MAYEKAWA is a family-owned business founded by Kisaku Maekawa in 1924 with an history of 100 years.



MAYEKAWA has grown to become a world-leading company within industrial refrigeration, Oil&Gas and today with Light Chemical applications. Since the release of our first compressor, **MAYEKAWA** has continued to develop and improve the MYCOM screw oil injected compressor technology to become the strongest brand worldwide.

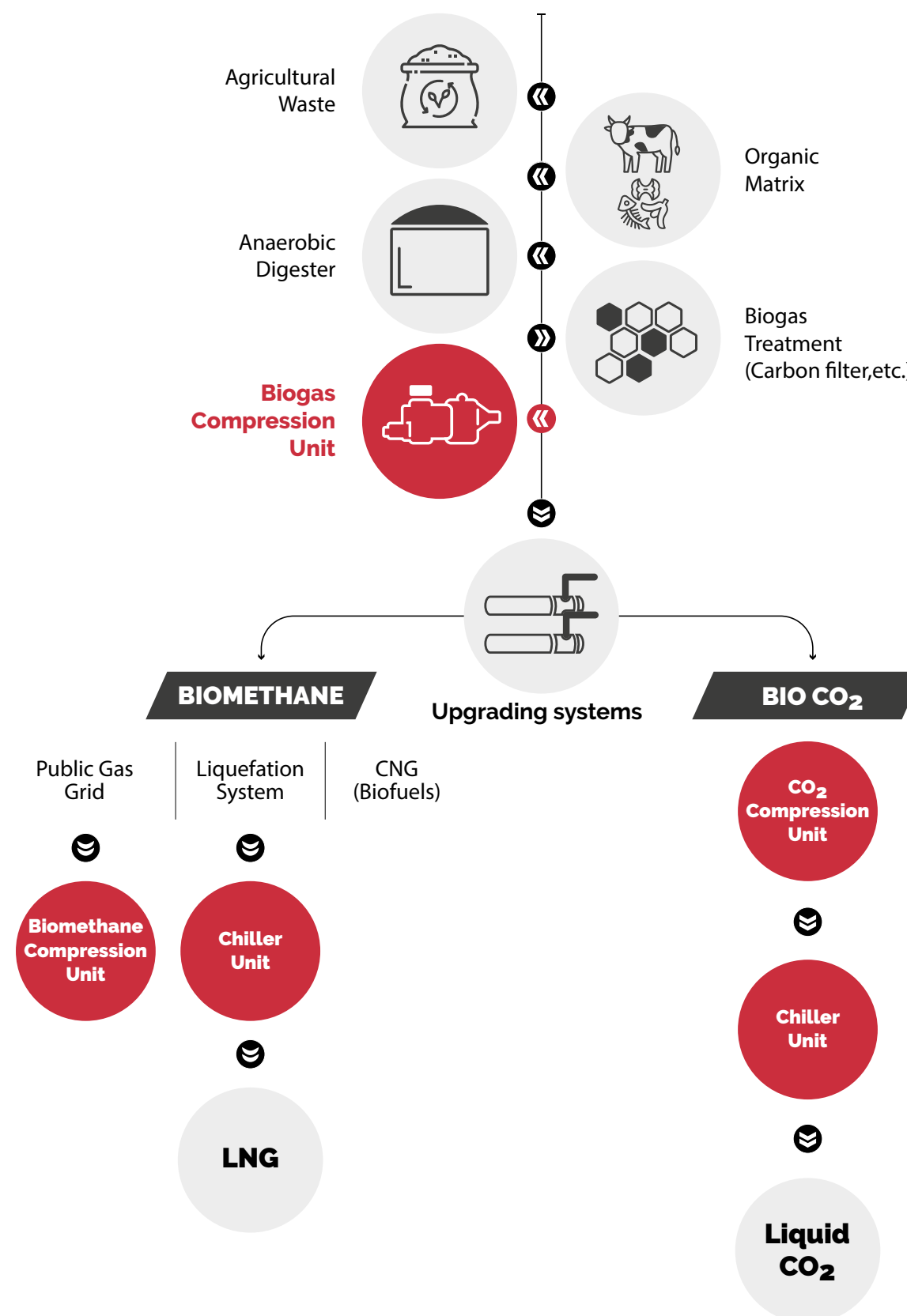


The focus of **MAYEKAWA** has always been for natural refrigerant-based solutions, driven by sustainable action towards our environment's protection.



MAYEKAWA works for the next generation with sustainable solutions for a green energy transition. We are your solution provider!

WHERE MAYEKAWA FITS IN



BIOGAS COMPRESSION UNITS

SCREW COMPRESSORS



COMPOUND

SIX FRAME SIZES

1610, 1612, 2016,
2520, 3225 & 4032



SINGLE

SEVEN FRAME SIZES

125, 160, 200, 250,
320, 360 & 400



i - SERIES

TWO FRAME SIZES

125 & 160



Biogas Unit
assembled
in Italy

2520SSC compound compressors

- 2750 Nm³/hr
- 0,05 - 9,5 barG
- Main driver 250 kW
- Control power panel complete with PLC and VFD
- Dry cooler and sound proofing container
dim 11000x2400x3000
- Codes JIS, ASME B31.3, PED 2014/68/EC
- ATEX 2014/34/EU



Biogas Unit
assembled
in Belgium

3225MSC compound compressor

- 3830 Nm³/hr
- 0,2 - 17 barG
- Main driver 600 kW
- Codes JIS, DIN, AD2000, PED 2014/68/EU
- ATEX 2014/34/EU

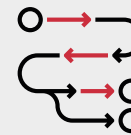


Biogas Unit
assembled
in U.S.A.

3225SSC compound compressor

- 3500 Nm³/hr
- 0,05 - 9,5 barG
- Main driver 670 kW
- Codes JIS, ASME VIII, ASME B31.3, NEC 505

Working pressure
up to 27 bar G



Flow rates managed
200-6000 Nm³/hr and above



Standard Oil carry
over 5 ppm



Upon request our units can be
delivered with several options:

- » Dry cooler
- » Heat recovery system
- » Control Panel with PLC
- » Power supply cabinet with VFD
- » Noise reduction container
- » Additional oil recovery system
for reducing the oil carry over value
to fit customer's needs

At the Moriya plant, we continuously manufacture innovative products.

The Moriya plant is the heart of the MAYEKAWA Group. MAYEKAWA continues to develop its unique business activities in industrial refrigeration systems, manufacturing and sales of various gas compressors and plant engineering in multiple fields.



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Peru
Venezuela

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Spain
Switzerland
U.K.
Ukraine

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Bangladesh
China
India
Indonesia
Korea
Malaysia
New Zealand
Philippines
Singapore
Taiwan
Thailand
Vietnam

MIDDLE EAST

Saudi Arabia
Turkey
U.A.E.

AFRICA

South Africa

we are here



MAYEKAWA
MYCOM

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