



Propane Compressors for Commercial Refrigeration

by Huayi Compressor Barcelona, S.L.

ATMOsphere Europe 2016
Technomercial
Barcelona, April 20th, 2016

 **ATMO** solutions for europe
sphere natural refrigerants

19 & 20 April 2016 in Barcelona

Corporate Video



Group Presentation



Product Presentation
Propane solutions



Huayi Compressor Co. Ltd

Leading compressor manufacturer. The company is held by Sichuan Changhong Electric Co. Ltd and has three subsidiaries:

- Jiaxipera Compressor Limited Company
- Huayi Compressor (Jingzhou) Co., Ltd.
- Huayi Compressor Barcelona, S.L.

It operates with trademarks Huayi and Jiaxipera with and annual sales of 39 MM units and has 7,200 employees.

Sichuan Changhong Electric Co., Ltd

Established in 1958, Changhong is one of the largest consumer electronic products manufacturer in China with a turnover of US\$ 15.000M and more than 90.000 employees worldwide.

Changhong brand is the No.1 best selling of TV in Chinese market for last 17 years. One-third of Chinese families is using Changhong TV.

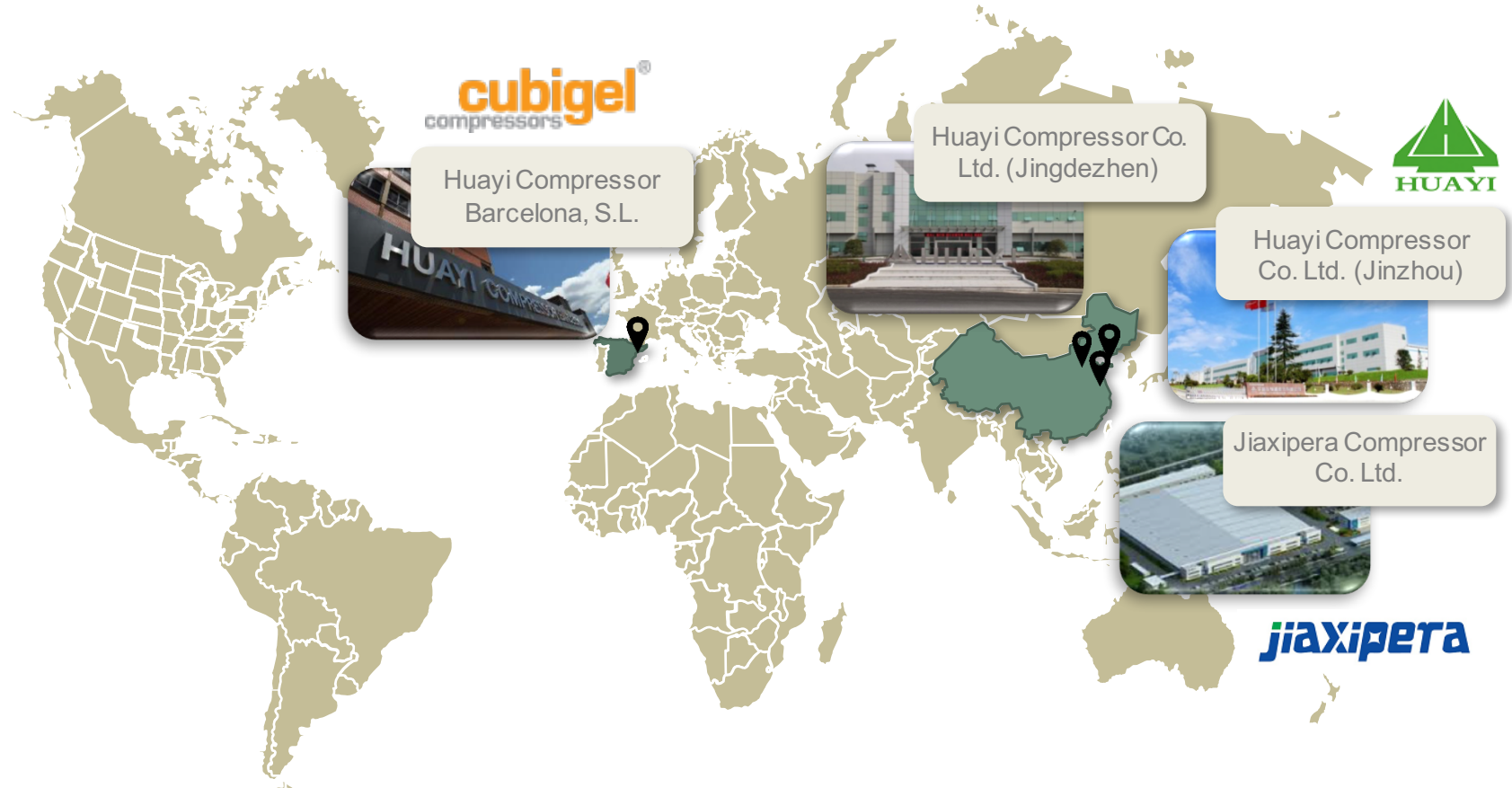
Changhong was listed among the world top 500 brands in 2014.

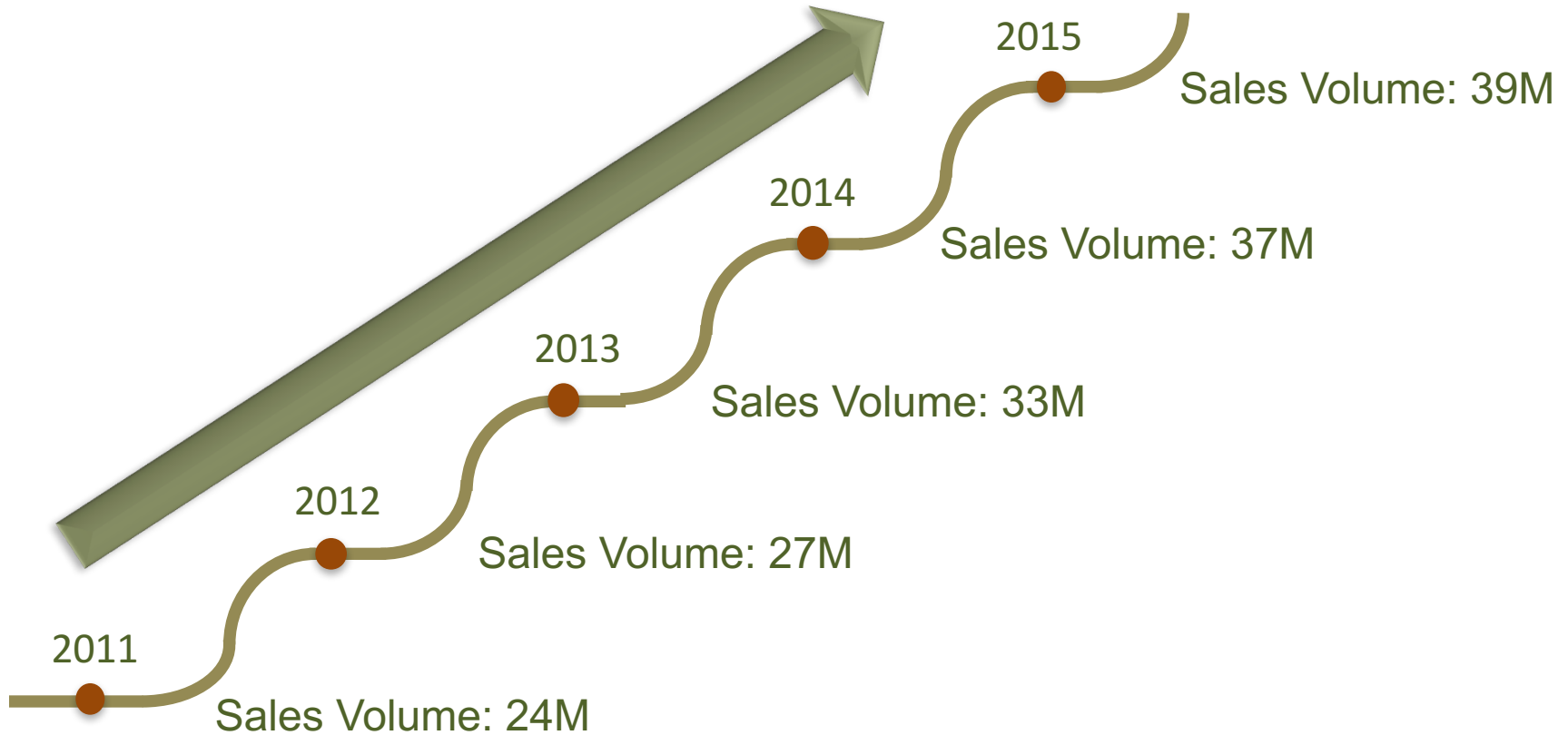
Huayi Compressor Barcelona, S.L.

Under the umbrella of Huayi Group, Huayi Compressor Barcelona (HCB) is dedicated to design, manufacture, sell and distribution of compressors and condensing units for the light commercial refrigeration market worldwide with its brand Cubigel Compressors:

The company has consolidated as a leading manufacturer of commercial Refrigeration Compressors with more than 50 years of experience developing compressors and satisfying the market refrigeration needs.









jiaxipera

cubigel[®]
compressors



Capacity of 46 Million compressors



7.000 employees



R&D Centers in Jingzhou/Jingdezhen, Jiangxing and Barcelona
Professional Engineers: 420
R&D investment >3,45% of net sales



6 Factories located in Jingzhou, Jingdezhen, Jianxing and Barcelona



Turnover over 966 Million €



The Product

Sustainable compressors for commercial refrigeration applications



High Efficiency

These ranges get to improve the compressor COP between 20% and 30%.

Propane as Natural Refrigerant

Refrigerants like **R290** and R600a with no direct effect on global warming increases the compressor's performance, and applications' energy consumption.

Variable Speed Compressors

The VSC offers the lowest energy consumption by adopting electronically controlled running modes.

D range

With a very compact design, **D range** goes from **2,4 to 4,03 cc** and offers a low weight, extra silent solution for small applications like Water Coolers, Bottle Coolers, Can Coolers and Small refrigerators and freezers. The models are developed for **R134a** and **R600a** refrigerants.



L range

With the most extended models and 3 levels of efficiency - **Standard, High and Very High** - using the optional run capacitor concept, the **L range** offers a solution for all cooling applications like refrigerators, freezers, bottle coolers, can coolers, ice cream freezers, vending machines, beer dispensers, soft drink dispensers and ice makers, among others with displacement from **4 to 10,7 cc** in **R134a, R404A, R600a, R290, R507** refrigerants.



P range

Together with the L range, our **P range** are the most used models offering 3 levels of efficiency - **Standard, High, Very High** - using the optional run capacitor concept, and Variable Speed. Our P range offers a solution for all cooling applications such as refrigerators, freezers, bottle coolers, can coolers, ice cream freezers, vending machines, beer dispensers, soft drink dispensers, ice makers and heat pumps, among others with displacement from **12 to 18 cc** in **R134a, R404A, R600a, R290, R507** refrigerants.



X range

The **X range** performs with high reliability and efficiency, with displacements from **16.0 to 23.0 cc**. Designed to work under heavy-duty conditions for applications such as large refrigerators and freezers, display cabinets, display islands, supermarket refrigeration equipment and blast chillers among others, working with refrigerants **R134a, R404A, R290, R407C, R507**.



S range

The **S range** are the top-capacity range of Cubigel Compressors® that goes from **18.0 to 34.4 cc**, with an optimized design to reduce vibration in **R134a, R404A, R407c, R507** refrigerants for applications like large freezers and refrigerators, supermarket refrigeration equipment, blast chillers and heat pumps among others.



Condensing units

Huayi Compressor Barcelona offers high quality hermetic condensing units with a wide range of options for most commercial refrigeration applications in LBP, HBMP and HBP, most of them being able to work under **tropical temperature** conditions. The range of condensing unit models covers both **standard** and **customized versions**.



New U Range

Made for U
Thinking of U



The most efficient
Compact size
Extremely silent
Green Cooling

The new U Range offers to the market the most efficient compressors in its series.

This U Range has been designed using the most advanced technologies to minimize the energy consumption while offering a high cooling capacity.

Thanks to its new shell, more compact and rounded, the U range offers a very low noise level.

Models available in R290, R134a and R600A.



Completely
Silent



Minimum
size

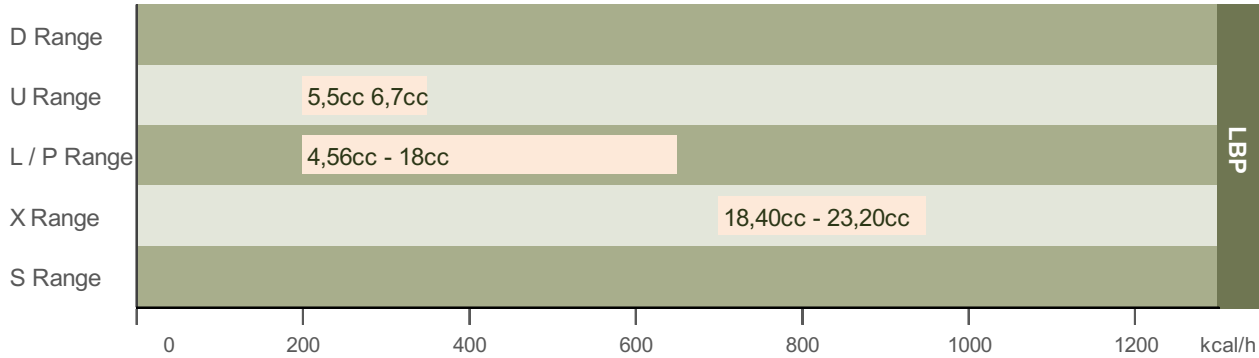


Maximum
Efficiency

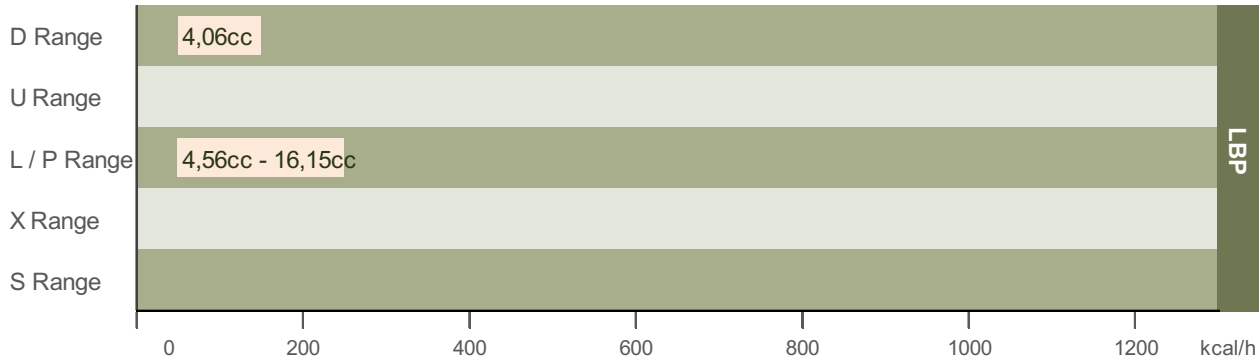


green
cooling

Compressors Ranges LBP for R290

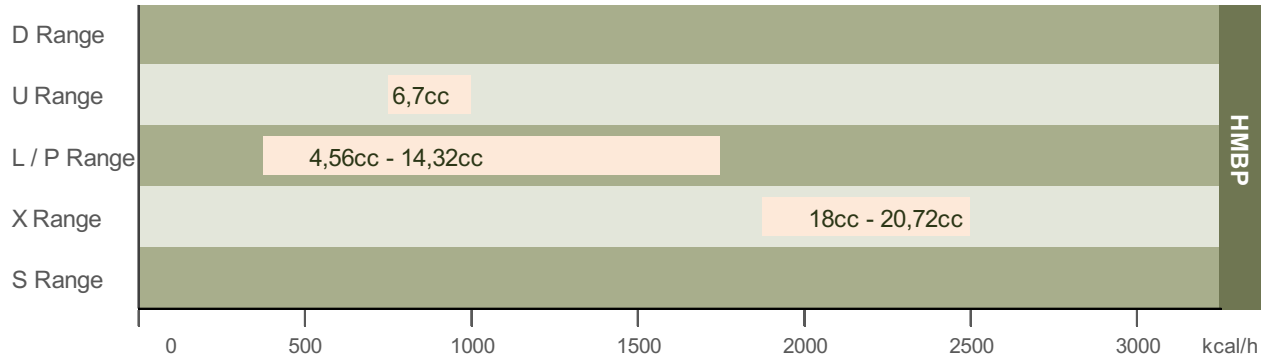


Compressors Ranges LBP for R600a

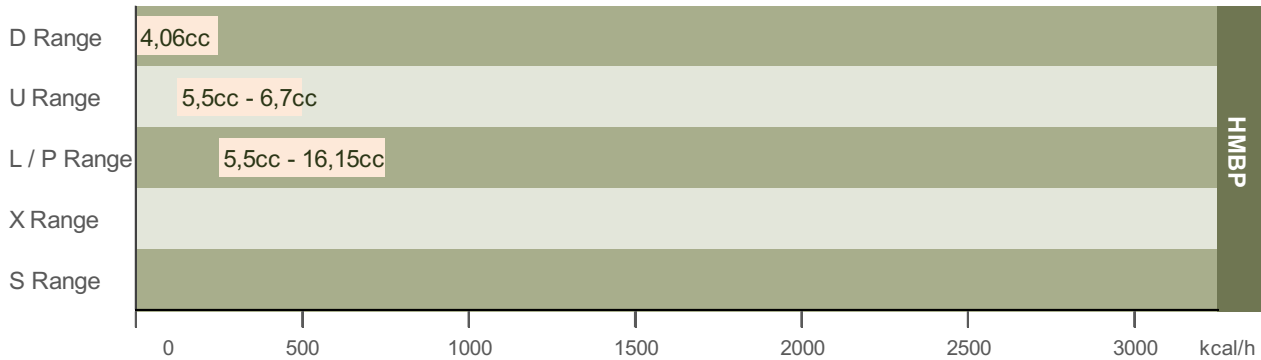


Voltagess 220-240V 50/60Hz 115V 60Hz

Compressors Ranges HMBP for R290



Compressors Ranges HMBP for R600a



Voltagess 220-240V 50/60Hz 115V 60Hz

REFRIGERANTS

R134a
R404A
R290
R600a
R507

RATED VOLTAGES

220-240V
100V
115V
200-240/220-230V
200-220/230V

50Hz
50/60Hz
60Hz
50/60Hz
50/60Hz

EU
JAPAN
USA
} 50Hz unstable net
and 60Hz net

APPLICATIONS

LBP
HMBP
VHBP
AC

MOTOR

RSIR
RSCR
CSIR
CSR

MORE
than **500 MODELS**
1.500 OPTIONS

DISPLACEMENT

2.4 cm³ – 34.24 cm³

STARTING TORQUE

HST
LST

EFFICIENCY

STANDARD
MEDIUM
HIGH

COOLING CAPACITY

35 kcal/h – 4,100 kcal/h (Ashrae)

APPROVALS

VDE
UL
CE
CCC

Saso
Kucas
KLT
GOST



The company is dedicated to develop the best compressors for commercial refrigeration applications to be reliable, efficient, with the best cooling conservation, suitable design and product visibility.

In collaboration with the key customers, HCB provides a high level of technical support aimed to help OEMs to improve their products.

- Freezers
- Cases (vertical and horizontal)
- Vending machines
- Bottle coolers
- Beverage dispensers
- Beer dispensers
- Wine coolers
- Ice Makers
- Chillers
- Others



Thank you

End of presentation
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