

editorial

First Quarter 2010

Dear Customer,

The first quarter of 2010 is showing a recovery in terms of volumes and turnover with regard to 2009. An improvement has already been seen during the last quarter of 2009 and this improvement has been consolidated during this first part of 2010. There is still uncertainty over the world economy but at Cubigel Compressors we are optimistic because during the last year we have been working to be ready and take advantage of this recovery.

We see an increasing demand of “green compressors”, high efficiency or natural refrigerants or the combination of both. We have always been convinced that this is the future of commercial refrigeration; that is why we started some years ago to develop our High Efficiency and propane ranges with some innovative solutions. This allows us now to be able to announce that we have the most efficient ranges in the market for Commercial Refrigeration. The next step are the electronically controlled compressors, we are once again ahead of our competitors in this case. As this is the trend we will continue developing more and more efficient compressors in order to contribute to a sustainable environment.

Pedro Olalla
 Sales Director

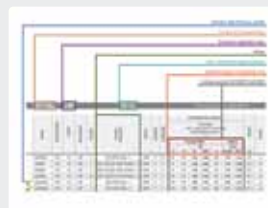

mknews

Cubigel Compressors' New Catalogues



Cubigel Compressors refreshed the look of its catalogues and technical documentation. The objective of this new publications' system is to standardize and make all documents easy to read and more accessible to customers.

Based on a standard format design, all documents will be clearly identified at the top of each cover, providing further content details on the main title.



General Catalogue tables also have a different look, compressors models are separated by refrigerant, application and frequency, and sorted by displacement. This configuration makes it easier to find the model and its comprehensive information.



In order to promote our High Efficiency products, those models are marked by a “green leaf”.

Catalogues' tables and further documents are available to download on our web site.

COnews

COMPANYnews

We are pleased to announce that Mr. Vicenç Guilabert has been promoted to Responsible for R&D and Engineering Application Department at Cubigel Compressors. Mr. Guilabert is an Industrial Engineer at UPC, PDD at IESE, and counts on an extended professional career within the Industrial Refrigeration sector. Before joining our organization, he had been working for five years as the responsible person for the Customer Service at Hitachi Air Conditioning and, during his ten years of career at Cubigel Compressors, his responsibilities had always been linked to technical assistance for customers. For this reason, Mr. Guilabert's strengths are supported by an outstanding technical knowledge combined with detailed customer needs and market trend information, which will be reflected in a positive way for our customers.



The refrigerant propane (R290) is being gradually introduced in commercial appliances as a replacement of CFCs, H-CFCs and HFCs refrigerants which have a high impact on the environment.

R290 has no direct contribution to global warming (GWP = 3) and null Ozone Depletion Potential (ODP = 0). Its energy consumption is around 15% lower than a similar application with R404A. Additionally, propane has a better dynamic behavior showing a lower increase of energy consumption with increasing ambient temperatures.

Cubigel Compressors offers a wide range of standard and high efficiency compressors prepared to work with R290. The R290 high efficiency compressors are equipped with electrical motors which are designed with the "optional running capacitor" concept so that the COP can be even higher.

The major environmental benefits are obtained combining the use of the R290 with the design criteria of high efficiency range. This combination can save up to 35% energy consumption in a cabinet with a high efficiency R290 compressor if it is compared with a R404A standard efficiency compressor in the same cabinet.

Have a look at the complete catalogue of R290 Compressors at: www.cubigel.com

APPLIANCE TEST: CHEST FREEZER



This real test in a chest freezer shows the results of using a high efficiency R290 compressor with a running capacitor (NLY60LAb) in comparison to a R404A standard efficiency compressor (ML60FB). The results are directly connected to the better efficiency of the R290 vs R404A and the high efficiency mechanics and electrical motor design.

Type of cabinet: Chest freezer	
Internal net volume	195 Liters
Cabinet load	Empty
Ambient temperature / RH	25°C / 50%
Average internal temperature	-18°C

Table n° 1: Characteristics of tested Chest Freezer

Data	ML60FB	NLY60LAb	Difference
Compressor type	R404A std eff.	R290 high eff.	-
Evaporating temperature	-33,5°C	-32,1°C	-
Condensing temperature	43,5°C	42,5°C	-
Duty cycle	54%	51%	-3,0%
Energy consumption	3,24 kWh/24h	2,17 kWh/24h	-33,0%

Table n° 2: Results comparing ML60FB and NLY60LAb

Table n° 2 shows a 33% energy saving with the R290 high efficiency compressor (NLY60LAb) only by means of changing the R404A standard efficiency compressor (ML60FB).

The Cubigel Compressors' R&D department is continuously working on new developments in order to reach the complete range of products in this refrigerant.

Next R290 product launches will be:

- R290 Condensing units range for European market (220-240V 50Hz).
- Complete High Efficiency R290 Compressors range for USA market (115V 60Hz). Market in USA with R290 has just been opened, as UL has recently approved the use of R290.

tips

How to get the spare parts list for compressors and condensing units from the Cubigel Compressors' web site

1. Go to www.cubigel.com.
2. Click on "Products" → "Spare Part List" → and click on "Compressors" or "Condensing Units".

By clicking on "Compressors" option, you can download the spare part list in an Excel spreadsheet file. At the last column of this file you can identify the name of the FTE electrical diagram assembly which corresponds to each compressor model. These diagrams are also downloadable from the same link.

If you click on "Condensing Units" you will also find the corresponding spare part file in excel format. The diagrams in pdf format which you will find in this link (condensing units design, condensing units' components and condensing units wiring diagrams) will help you to select the part number you are looking for.

