

# GREEN COOLING EXTENDED RANGES: R290

More than 35 new compressor models  
designed for our customers



**cubigel**<sup>®</sup>  
compressors  
by  
HUAYI  
COMPRESSOR  
BARCELONA

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## Extending the Green Cooling Ranges: R290

In recent years, concern for the environment has become more and more present in our society as shown by the new regulations on the use of HFC's. Both in Europe and the US, propane is already used in several light commercial applications in the market.

Huayi Compressor Barcelona is aware of this change and is continuously improving the range, for this reason, during last year 2016; it launched to 35 new compressors for all refrigeration needs and type of applications, extending our offer of products for the ranges B, U and S.

### New R290 B range: Efficiency & Compactness

The **New R290 B range** is covering the lower part of the catalogue in terms of displacement, increasing the range from 2.20 cc to 4.50 cc, offering better efficiency and size reduction.

#### R290 LBP models

MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	Refrigeration Capacity	
						Ashrae -23,3° C	
						kcal/h	W/W
NBC25CA (**)	2.60	LBP	S	220-240V 50Hz ~1	RSIR	86	1.30
NBG25CA (**)	2.60	LBP	S	220-240V 50Hz ~1	RSCR	86	1.52
NBC35CA (**)	3.50	LBP	S	220-240V 50Hz ~1	RSIR	125	1.30
NBG35CA (**)	3.50	LBP	S	220-240V 50Hz ~1	RSCR	125	1.55
NBC41CA (**)	4.10	LBP	S	220-240V 50Hz ~1	RSIR	155	1.30
NBG41CA (**)	4.10	LBP	S	220-240V 50Hz ~1	RSCR	156	1.55
NBC45CA (**)	4.50	LBP	S	220-240V 50Hz ~1	RSIR	173	1.30
NBG45CA (**)	4.50	LBP	S	220-240V 50Hz ~1	RSCR	173	1.50

(\*\*) Model Under Development

#### R290 HMBP models

MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	Compressor Performance ASRHA conditions	
						-23,3° C	
						kcal/h	COP
NBC22RA (**)	2.20	HMBP	F	220-240V 50Hz ~1	CSIR	230	2.30
NBC30RA (**)	3.10	HMBP	F	220-240V 50Hz ~1	CSIR	330	2.40

(\*\*) Model Under Development

### Main benefits R290 B range:

- **Compactness** versus the current D range.
- **Better efficiency.**
- **More cost effective.**

## New U Range Compressors: Redefining efficiency

The range that redefined the efficiency is now more extended. Huayi Compressor Barcelona extends the catalogue with new models of energy-optimized compressors for different appliances and refrigerants.

### R290 LBP models

MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	Refrigeration Capacity	
						Ashrae -23,3° C	
						kcal/h	W/W
NUT55CAa	5.50	LBP	F	220-240V 50Hz ~1	RSIR	227	1.64
NUT55CAb	5.50	LBP	F	220-240V 50Hz ~1	RSCR	227	1.80
NUT55CAc	5.50	LBP	S	220-240V 50Hz ~1	RSIR	227	1.64
NUT55CAd	5.50	LBP	S	220-240V 50Hz ~1	RSCR	227	1.80
NUY60LAa	5.98	LBP	F	220-240V 50Hz ~1	CSIR	250	1.56
NUY60LAb	5.98	LBP	F	220-240V 50Hz ~1	CSR	255	1.64
NUT60CAa	6.00	LBP	F	220-240V 50Hz ~1	RSIR	261	1.68
NUT60CAb	6.00	LBP	F	220-240V 50Hz ~1	RSCR	261	1.82
NUT60CAc	6.00	LBP	S	220-240V 50Hz ~1	RSIR	261	1.68
NUT60CAc	6.00	LBP	S	220-240V 50Hz ~1	RSCR	261	1.82
NUT70CAa	6.70	LBP	F	220-240V 50Hz ~1	RSIR	288	1.68
NUT70CAb	6.70	LBP	F	220-240V 50Hz ~1	RSCR	288	1.80
NUY90LAa	9.09	LBP	F	220-240V 50Hz ~1	CSIR	388	1.55
NUY90LAb	9.09	LBP	F	220-240V 50Hz ~1	CSR	388	1.64
NUT55LRa	5.50	LBP	F	115-127V 60Hz ~1	CSIR	280	1.60
NUT55LRb	5.50	LBP	F	115-127V 60Hz ~1	CSR	285	1.73
NUT55LRc	5.50	LBP	F	115-127V 60Hz ~1	CSIR	280	1.60
NUT55LRd	5.50	LBP	F	115-127V 60Hz ~1	CSR	285	1.73
NUT60LRa	6.00	LBP	F	115-127V 60Hz ~1	CSIR	307	1.60
NUT60LRb	6.00	LBP	F	115-127V 60Hz ~1	CSR	315	1.73
NUT60LRc	6.00	LBP	S	115-127V 60Hz ~1	CSIR	307	1.60
NUT60LRd	6.00	LBP	S	115-127V 60Hz ~1	CSR	315	1.73

### R290 HMBP models

MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	Refrigeration Capacity	
						Ashrae -23,3° C	
						kcal/h	W/W
NUY45RAa	4.56	HBP	F	220-240V 50Hz ~1	CSIR	529	2.77
NUY55RAa (**)	5.50	HBP	F	220-240V 50Hz ~1	CSIR	680	2.82
NUY60RAa (**)	5.98	HBP	F	220-240V 50Hz ~1	CSIR	740	2.75
NUY70RAa	6.70	HMBP	F	220-240V 50Hz ~1	CSIR	836	2.75
NUY70RAb	6.70	HMBP	F	220-240V 50Hz ~1	CSR	836	2.90

(\*\*) Model Under Development

### Main benefits of New U range:

- **Maximum Efficiency.** Designed using the most advanced technologies to minimize energy consumption.
- **Low noise and less vibration** due to the new shell configuration.
- **Compact solution.**

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## S range in R290: Extension Range

Huayi Compressor Barcelona increases the S range displacement in R290 up to 34cc, offering wider capacity in propane for LBP applications and the most efficient solution in its size.

### R290 LBP models

MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	Refrigeration Capacity	
						Ashrae	
						-23,3° C	
						kcal/h	W/W
NS26FB (**)	25.93	LBP	F	220-240V 50Hz ~1	CSR	875	1.40
NS34FB (**)	34.42	LBP	F	220-240V 50Hz ~1	CSR	1164	1.39

(\*\*) Model Under Development

### Main benefits of R290 S range:

- **Wider Capacity** for LMBP propane compressors.
- **Most efficient** compressor of its size.



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