

BEIJER REF

Beijer Ref India – Embraco Training (2020)

Scheme of Presentation

- **Embraco Profile**
- **Embraco In India**
- **USP**
- **Refrigerant**
- **Applications**
- **Electrical configuration**
- **Nomenclature**
- **Stock Models**
- **New Developments**
- **How to select a compressor**

Embraco Profile

- **Started in 1971**
- **Global production capacity of 60 million units of motors and compressors per year**
- **Sales presence in more than 80 countries**
- **Around 14,000 employee**
- **Physical presence in 8 countries across the globe, with 11 manufacturing plants**
- **More than 50 laboratories dedicated to Research and Development**
- **More than 1200 valid patents.**

Embraco in India

- **Patton India started its relationship with Embraco in India in 2011.**
- **Established Embraco with 100+ customers across India.**
- **Major market share in key segments like ultra low freezing application (up to -80 Deg C)**
- **Focus on R134a & R404a refrigerants**

BEIJER REF

USP (Unique selling point)

1. **High Energy Efficiency**
2. **Compact Size**
3. **Low noise level**

Application – Based on Temperature

- 1. HBP (High Back Pressure) : +15 Deg C to 0 Deg C SST**
- 2. MBP (Medium Back Pressure) : 0 Deg C to -15 Deg C SST**
- 3. LBP (Low Back Pressure) : -15 Deg C to -40 Deg C SST**
- 4. Cascade Applications : -40 Deg C to -86 Deg C SST**

Applications – Based on equipment

- **Visi Coolers / Bottle Coolers**
- **Display cabinets**
- **Open Deck Chillers / Freezers**
- **Island Coolers**
- **Water Coolers**
- **Deep Freezers / Chest Freezers / Glass Top freezers**
- **Eutectic / Ice lined freezers**
- **Reach-in chillers / freezers**
- **Under counter chillers / freezers**
- **Blood bank freezers / Ultra Low Freezers**
- **Lyophilizers /Freeze Dryers**
- **Panel AC**
- **BOD incubators**

Refrigerants

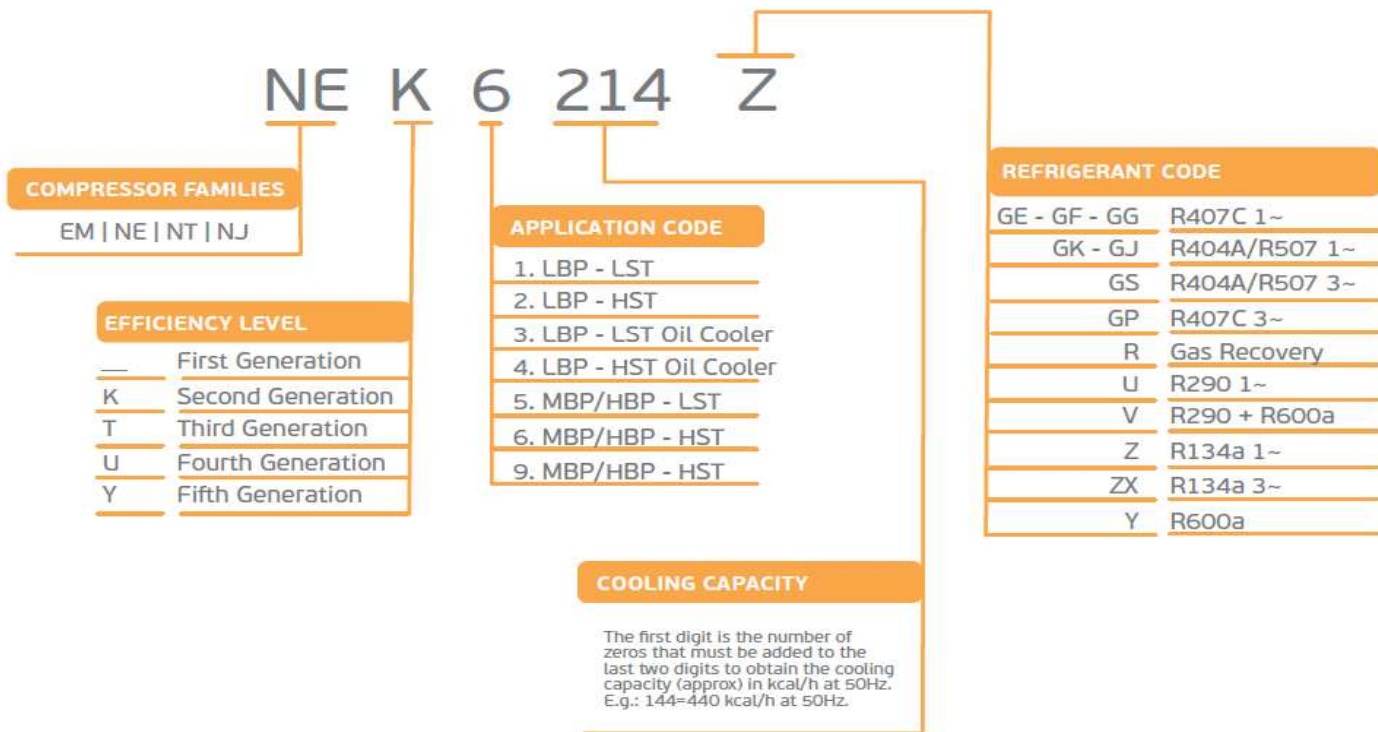
- R134a – HBP / MBP / LBP Applications
- R404a – HBP / MBP / LBP Applications
- R290 – LBP Applications only
- R22 – Not available (equivalent models available in R134 or R404a)
- R23 / R508b – only for Cascade applications

Electrical Configurations

1. **RSIR** – Resistive Start Inductive Run
2. **CSIR** – Capacitive Start Inductive Run
3. **CSCR** – Capacitive Start Capacitive Run

Nomenclature

EM/NE/NT/NJ



BEIJER REF

Stock Models

HBP / MBP – R134a

- EM45 HHR
- EM55HHR
- EM65HHR
- FFI8.5HBK
- FFI12HBK
- FFUS100HAK
- NEU6212Z
- NEU6214Z
- NT6220Z
- NJ6226ZX (3 phase)

Stock Models

LBP – R 134a

- EGAS100HLR
- EGU 110HLC
- EGU130HLR
- FFI12HBK
- FFU130HAX
- FFU160HAX
- NEK2140Z

Stock Models

HBP / MBP – R404a

- **NEK6217GK**
- **NT6222GK**
- **NT6226GK**
- **NJ9226GK**
- **NJ9232GK**
- **NJ9238GK**

Stock Models

LBP – R404a

- EMT 2125GK
- NEU 2140GK
- NEU 2155GK
- NEU 2168GK
- NEU 2178GK
- NT2180GK
- NT 2192GK
- NT 2210GK
- NJ2192GK / GJ
- NJ2212GK
- NJ2212GS

New Developments

There are 2 new models launched in last 6 months.

- 1. NJX 2219GS – LBP , R404a, 380 V/50Hz**
- 2. NJX6250GS - HBP / MBP , R404, 380V/ 50 Hz**

How to select a compressor

The following inputs are required for selection.

- **Refrigerant (R134a/ R404a / R290)**
- **Voltage (Single phase / 3 Phase)**
- **Application (HBP / MBP/ LBP)**
- **Cooling Capacity (BTU/H, Watts, Kcal)**

Thank you
