



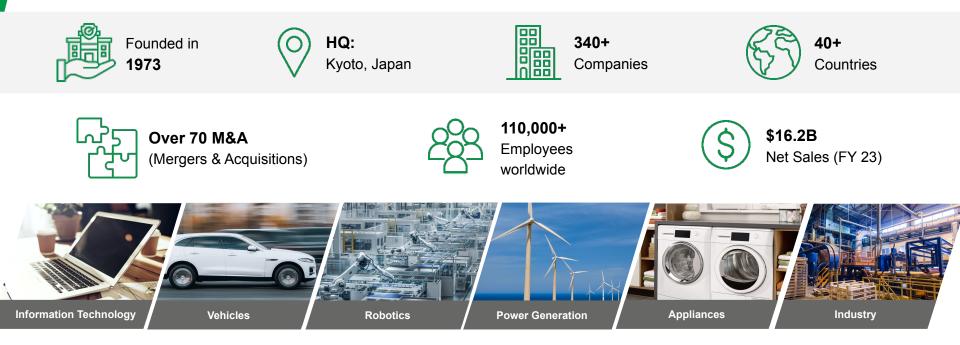






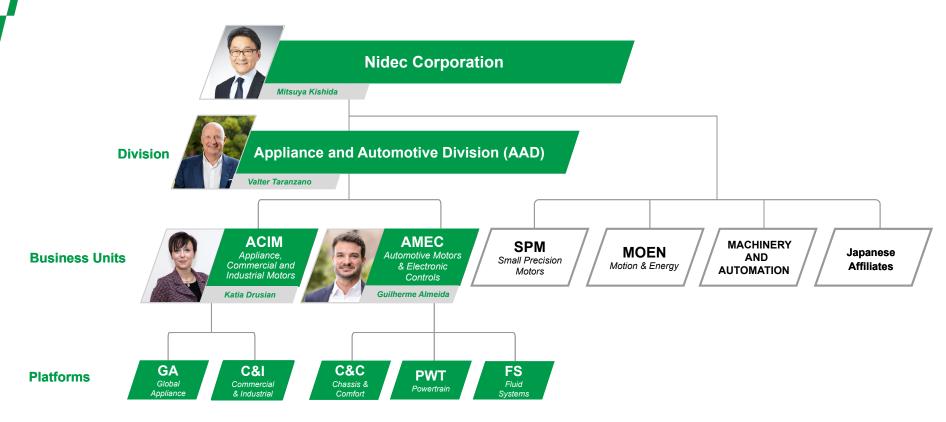


We are part of Nidec Corporation



Appliance and Automotive Division inside Nidec structure





ACIM AT A GLANCE

We develop highly-efficient solutions

that empower people and industries to move towards a more sustainable world.



37 manufacturing sites



~30 business offices



+25 countries



+18,000 people



Headquarters in Pordenone (Italy)



+4k

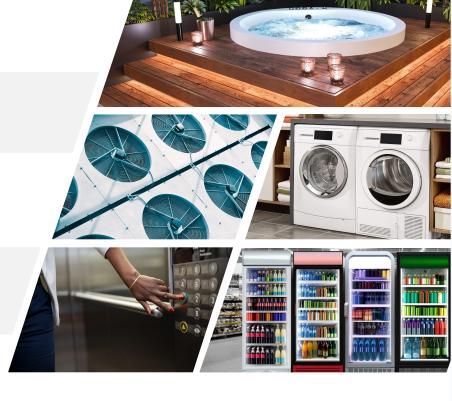


70,000,000 products sold/year



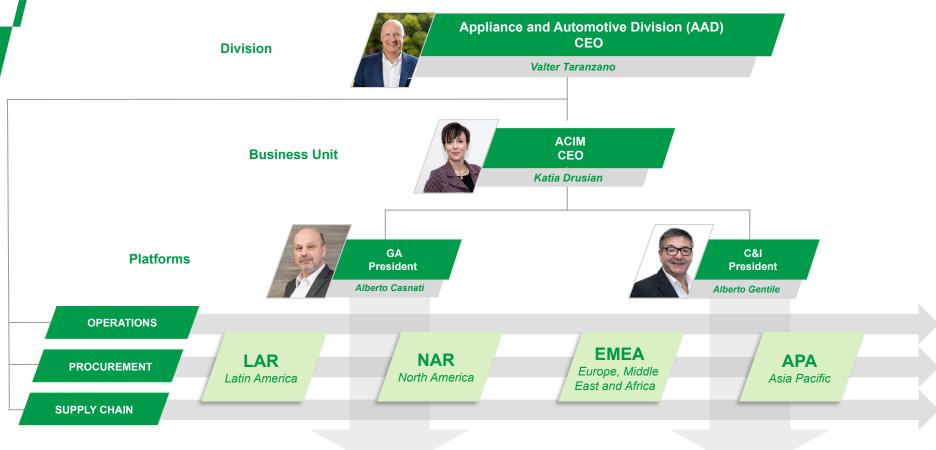
customers worldwide





ACIM STRUCTURE







ABOUT NIDEC GA

NIDEC GLOBAL Appliance

ABOUT NIDEC GA





HQs: Joinville (Brazil)



13,000 employees



18 manufacturing plants and 5 business offices across **9** countries



Annual production capacity of **80 million** motors and compressors



8 R&D Centers worldwide and around 500 engineers



90 countries served by our products



\$1.5B (FY23) sales/year









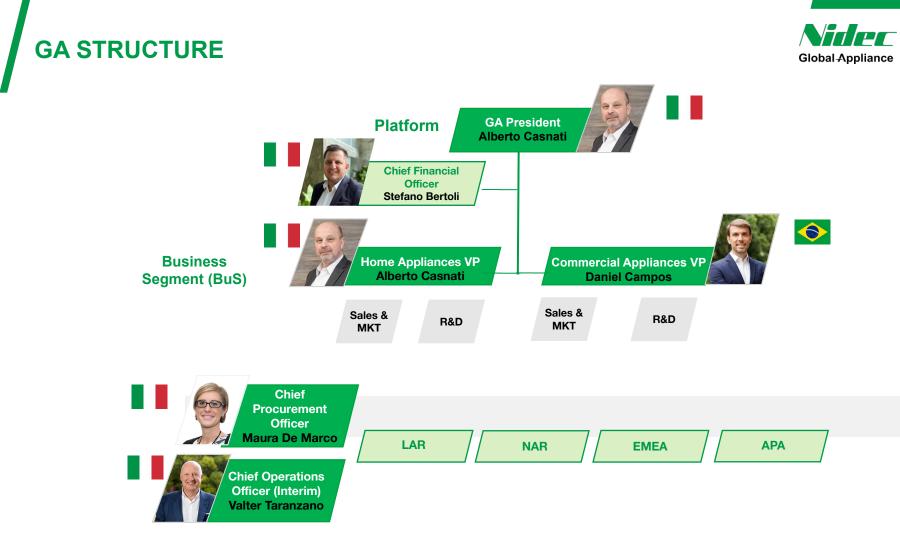
GLOBAL APPLIANCE PLATFORM



We are a global partner for home and commercial appliances industries

Complete portfolio of **motors, compressors, condensing units and electronics** designed to deliver the best-in-class performance, differentiated by high energy efficiency, low noise and reliability.





GA GLOBAL PRESENCE

NAR



St. Louis, Missouri (USA) -Sales Office

Atlanta (USA) Sales Office

Reynosa (Mexico) Manufacturing

Monterrey (Mexico) 4 manufacturing facilities Fürstenfeld (Austria) Manufacturing,

EMEA

GBS Košice (Slovakia) Shared Services Center

Moscow (Russia) Sales Office

Spišská Nová Ves (Slovakia) Manufacturing,

Pitesti (Romania) Manufacturing

APA

Beijing (China)Manufacturing,

Qingdao (China) 2 manufacturing facilities

Joinville (Brazil)

Casalmaggiore

Manufacturing

Manufacturing

Chieri (Italy)

Sales Office

Varano

LAR

Pordenone (Italy)

de'Melegari (Italy) Manufacturing

Foundry)

(Italy)

Itaiópolis (Brazil) Manufacturing Changzhou (China) Manufacturing

Manufa

NAR: North America; LAR: Latin America; EMEA: Europe, Middle East, and Africa; APA: Asia Pacific.

GA INNOVATION DRIVERS





Technology that enables **reduction of energy** consumption.



Low noise in motors and compressors is key to keep the consumer experience positive.



Natural be Refrigerants un

Portfolio designed to deliver the **best in class performance**, under the safest conditions with natural refrigerants.



Design and production of inverters, controllers and EC fans for better performance and optimized total cost of ownership.



Size reduction combined Miniaturization with embedded technology.



Motors

Integrated Motors & Drives with Synchronous Technology

GA RESEARCH & DEVELOPMENT



We are differentiated by a **deep expertise in Research & Development**, capable of **delivering technology and innovation** that anticipates trends.



Robust structure for innovation

with 8 Research & Development Centers

Partnerships with Universities

in different regions in the world

Local engineering support teams

with labs and application engineers available worldwide +570 valid patents and +4,500 in the history

Innovation is a continuous process



ABOUT GA

BUSINESS SEGMENTS AND BRANDS

GA Business Segments and Brands









GA BUSINESS SEGMENT

HOME APPLIANCES

HOME APPLIANCES SEGMENT



Two steps ahead of the trends to drive appliances to a more sustainable future





Motors for residential washing machines, dryers and dishwashers.





Nider

Motors and pumps for food service, professional appliances and medical applications.

embraco

Compressors for refrigerators and freezers.



HOME APPLIANCES BUSINESS SEGMENT

PORTFOLIO FOR RESIDENTIAL LAUNDRY AND KITCHEN

SOLUTIONS FOR RESIDENTIAL LAUNDRY AND KITCHEN APPLIANCES



We offer innovation through a complete portfolio of motors for washing machines, dryers and dishwashers

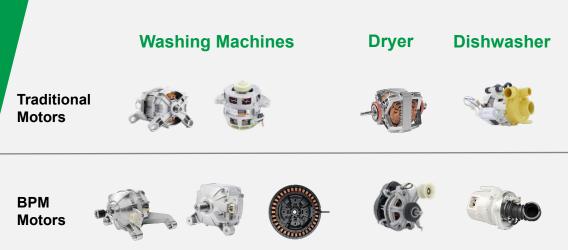
Excelling in technologies for **low noise**, **compact and energy efficient** solutions



PORTFOLIO FOR WASHING MACHINES, DRYERS AND DISHWASHERS



- Experts in the OEM process
- Deep understanding of the market regulations worldwide
- Highly advanced R&D
- Tailored solutions



THE RIGHT SOLUTION FOR EACH CUSTOMER'S NEED



We are differentiated by our co-development methodology with customers, which means:

- Cost savings and improvements in the customer's production line.
- Working closely with customers in the product development process to provide proposals with high added value.
- Formulate the **best solution** for each of our customers' products.



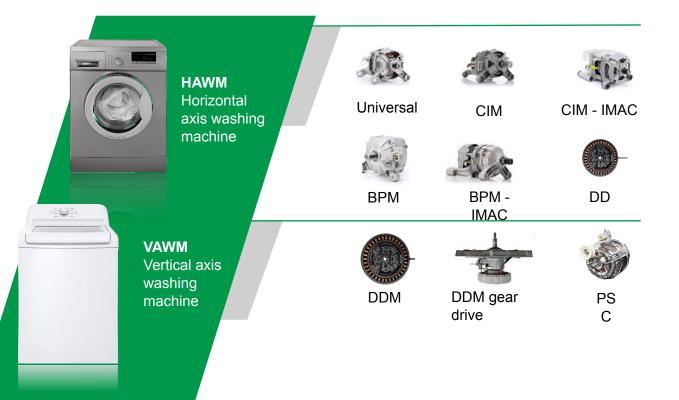


PRODUCTS FOR WASHING MACHINES

Washing machine motors in all types of technologies

Our range of motors for washers covers the requirements for all regions and types of appliances.

Available also as IMAC (Integrated Motor and Control).



PRODUCTS FOR DRYERS



From classic solutions to second generation BPM models





PRODUCTS FOR DISHWASHERS

Complete portfolio of motors for dishwashers

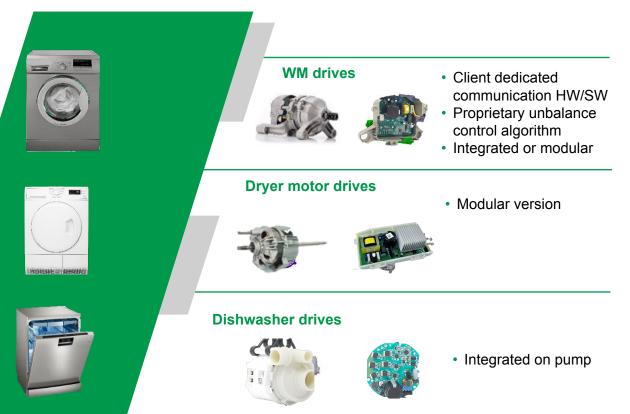
Also available with electronic board and integrated heater



Global Appliance

ELECTRONIC DRIVES

Deep expertise in electronic drives





HOME APPLIANCES BUSINESS SEGMENT

PORTFOLIO FOR PROFESSIONAL APPLIANCES AND MEDICAL APPLICATIONS

SOLUTIONS FOR PROFESSIONAL APPLIANCES



FR

Traditional brand of **motors and pumps** for professional appliances with worldwide presence.

Products marked by energy-efficiency, reliability, high performance and customization.

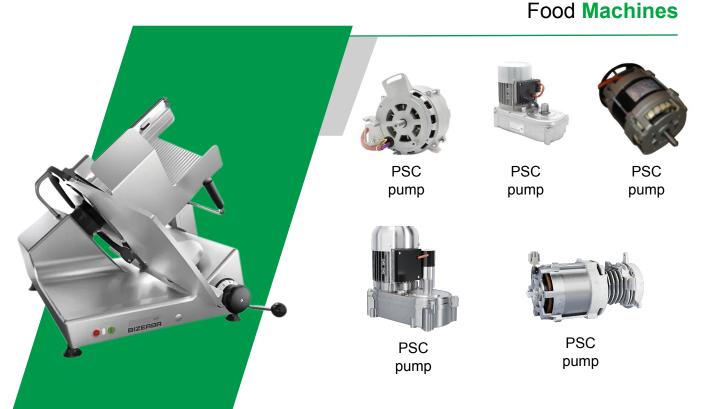




SOLUTIONS FOR PROFESSIONAL KITCHENS



Low noise, customized and thermally optimized **motors for food machines** (slicers, coffee grinders etc).



SOLUTIONS FOR PROFESSIONAL KITCHENS



Compact and energy efficient **pumps for professional dishwashers**, with optimized hydraulic performances.



SOLUTIONS FOR PROFESSIONAL KITCHENS



Professional **Ovens**



Energy efficient motors for professional ovens developed for the best

ventilation performance.

SOLUTIONS FOR MEDICAL APPLICATIONS



State of the art **motors for disinfection machines** used in hospitals, dental clinics and laboratories.

High **reliability** to withstand aggressive cleaning chemicals.



SOLUTIONS FOR PROFESSIONAL LAUNDRY



High efficiency and low noise **motors for professional washing machines:** high reliability.





HOME APPLIANCES BUSINESS SEGMENT

PORTFOLIO FOR RESIDENTIAL REFRIGERATION

SOLUTIONS FOR RESIDENTIAL REFRIGERATION





embraco Nider



High-quality and high-performance

Efficiency through constant innovation

Low noise

Small size solutions



Cost Competitive

PORTFOLIO FOR HOME APPLIANCES



Nider

An **innovative** and efficient portfolio authores 1000 30 liters liters **Reliability:** Extended product FIXED-SPEED life EL EM EG ES Highest efficiency standards **VARIABLE-SPEED** and world class low noise FMX VES VEM VEG FMS **FUTURE:** Standardization to cover all High performance with applications' range portfolio simplification FMS FMX VES

FIXED-SPEED PORTFOLIO

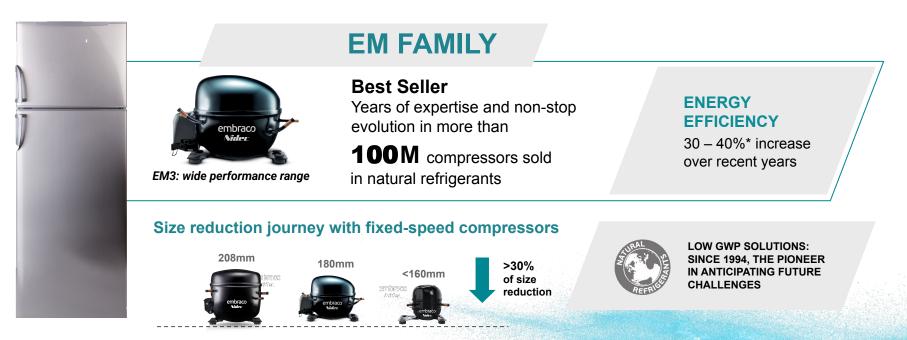


Renowned fixed-speed

EG

Portfolio differentiated by low noise, reliability and high efficiency levels

EM3



ES

VARIABLE-SPEED PORTFOLIO



Nider

Extra efficiency and temperature stability for refrigeration



Lowest energy consumption: up to 50%* reduction

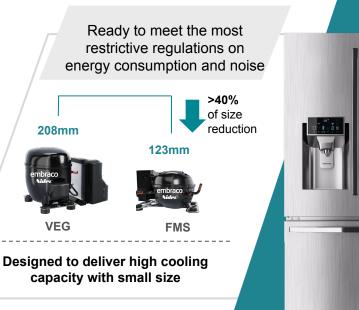
Miniaturization: small on size, but large on its application range



Fast Cooling: target temperature reached faster, ensuring better food preservation



_ow noise



*in comparison to conventional compressor. Efficiency indexes based on internal tests.

MINIATURIZATION JOURNEY

Discover the Versatility: Comparing dimensions across our products





50% smaller and 60% lighter*

FUTURE: ATOM



VES

217 mm



Weight ~6.8kg

FMS

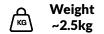


178 mm



Weight ~3.5kg





*comparison to VES



GA BUSINESS SEGMENT

COMMERCIAL APPLIANCES

SOLUTIONS FOR COMMERCIAL APPLIANCES















Naturally efficient: solutions with ultra low GWP

Energy efficiency: robust portfolio with low energy consumption



Innovation: tailor-made solutions for the system needs.



Reliability: extended product life



High-quality and high performance

WIDE APPLICATION RANGE FOR COMMERCIAL REFRIGERATION



embraco

Nider

Global Appliance

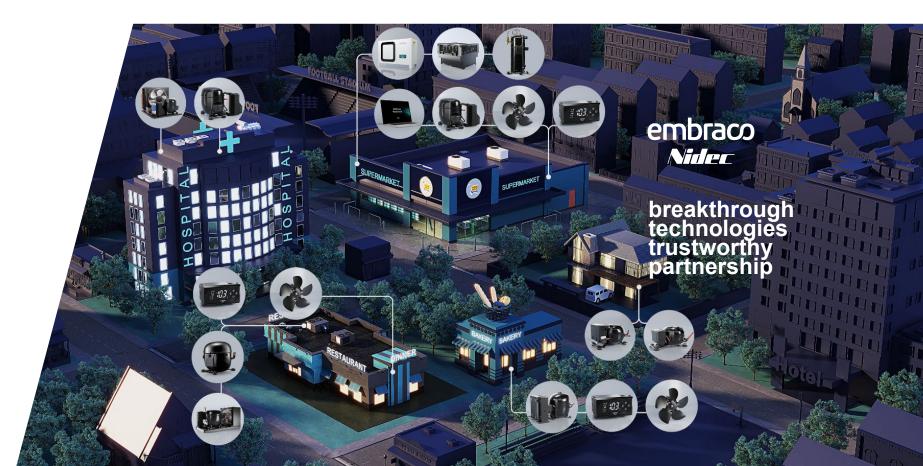
Controller

۲ I

Fan motor

PROVIDING EVERYTHING TO BE EVERYWHERE





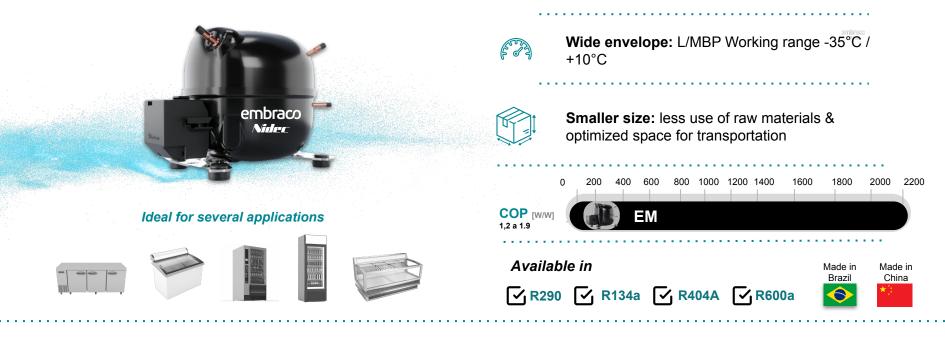
COMPRESSORS HIGHLIGHTS: EM SERIES



High efficiency: The most efficient reciprocating compressor in the market



The World's Best Selling Compressors



COMPRESSORS HIGHLIGHTS: NEX SERIES



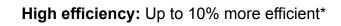


Robustness in smaller design



Ideal for several applications







Ş,

Smaller size: 10% less height and 30% less weight* + 24%* cooling capacity Lower noise level 600 800 1000 1200 1600 1800 2200 COP rw/wi NF 1.20 - 1.62 Ashrae LBP Available in Made in Slovakia Made in China **R290** 🖌 R134a 🖌 R404A

*Versus previous families

COMPRESSORS HIGHLIGHTS: FMF SERIES





The most efficient compressor for the commercial segment



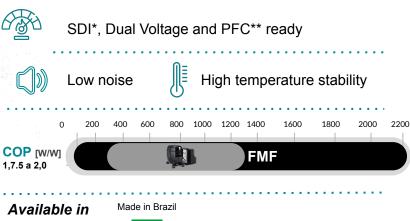
Ideal for supermarkets and special applications





Reduces energy consumption by up to 40 % in comparison to fixed (on-off) compressors

Extended cooling capacity allows reducing the quantity of SKUs





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*Smart Drop In **Power Factor Correction

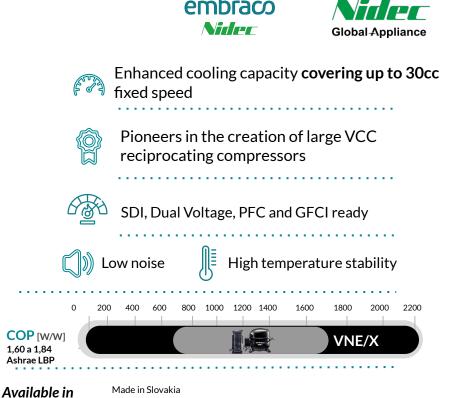
VNEX Series

The largest reciprocating variable speed compressor in the market



Ideal for supermarkets and special applications





COP [W/W]

R290

1,60 a 1,84 Ashrae LBP embraco

EMBRACO ORIGINAL COOLING SOLUTIONS







Complete portfolio for a diverse range of applications



Customization possibilities according to customer needs



Optimized condenser and compressor project for **improved performance and reliability**



With approved options for the use of natural refrigerants



All components feature Embraco quality



Complete compressor range to meet every solutions need



CONDENSING UNITS: STANDARD PORTFOLIO

Reliable portfolio of cooling solutions



Covering multiple applications





Display cases

LESS COMPLEXITY: complete

pre-assembled high pressure side solution simplifies production process and

embraco

Nider

maintenance.



Customization capabilities: standard portfolio covering a wide range of applications.



Optimized condenser-compressor design leading to improved performance and reliability.



Approved for natural refrigerants use



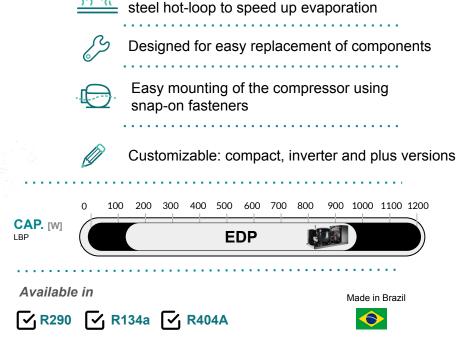
CONDENSING UNITS: EDP PORTFOLIO

EDP units: high efficiency in a compact and modular design



Main applications: Food Service





embraco

Nider

Removable evaporation tray with stainless

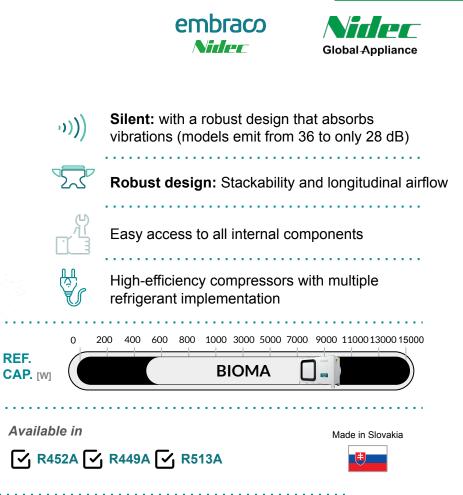
Global Appliance

CONDENSING UNITS: BIOMA

The world's quietest condensing unit in its capacity range



Main applications



NEW: SYNC IT ALL PORTFOLIO



No one controls Embraco better than Embraco

Embraco Sync

It works connected to You Control and manages the whole system for an optimized performance.



Variable Speed

The compressor **saves energy by adapting** its rotation speed to the cooling demand



Optimized performance, less energy consumption and set up time reduction from weeks to days.



With an electronic motor, the fan is **energy efficient** and works with **single, multi or variable speed**.

The exclusive design allows flexible assembly and fixation.



VouContro

An easy interface that allows **you** to define the system's parameters, with an automatic tuning feature.





GA BUSINESS SEGMENT

HVAC | Heating, ventilation and air conditioning



The RESCUE® line of HVAC motors is part of the U.S. MOTORS® brand product family. Ask for RESCUE®, The Ultimate Truck Stock Motor™.



Premium brand

Different technologies: ECM: 85% EFFICIENCY higher cost / premium material inside PSC: 60% EFFICIENCY price fighting motors

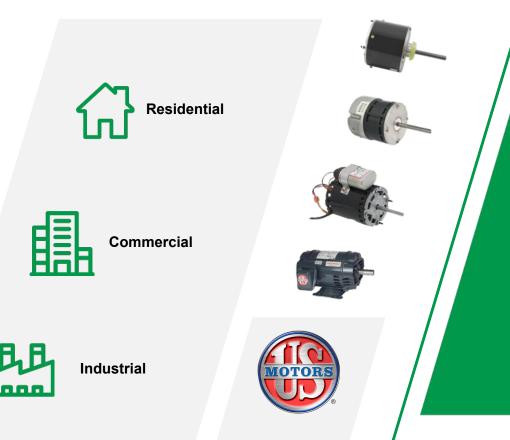




One of the oldest and most trusted brands in the motor industry, recognized worldwide as the mark of leadership and technological innovation

U.S. MOTORS brand encompasses a complete line of general and special purpose residential, commercial and industrial motors from 1/30 horsepower through 4000 horsepower for a wide variety of applications.

Since 1908, the brand has stood out for exceptional product reliability and performance.





Heating, Ventilation and **Air Conditioning (HVAC)**

Get to know the main attributes of our portfolio of components for the HVAC industry:



Technology & Innovation



Reliability





Low lead time









HVAC Tradition and Experience

With roots dating back to 1908, our motor brands are leaders in the North American market, offering a full complement of induction or EC motors designed for single or three phase applications.





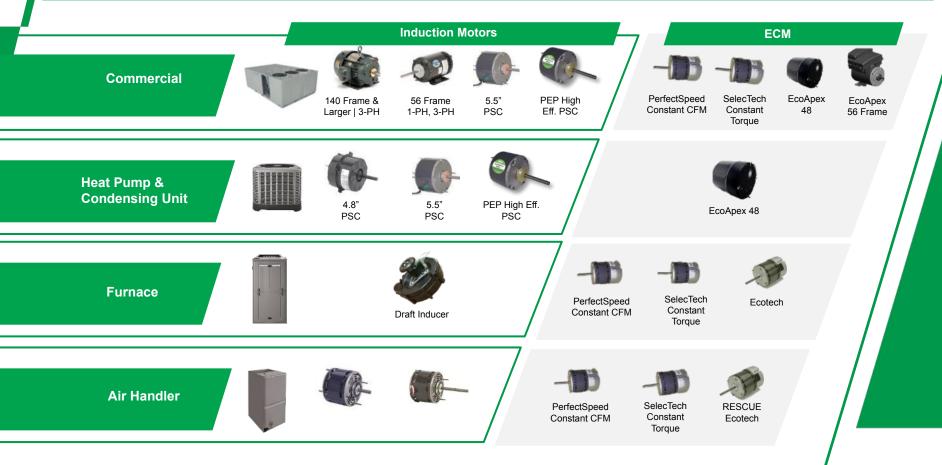


Multi-technology motors, gearmotors, brake motors, electronic drives for a variety of industrial applications.



PORTFOLIO TO SERVE ALL OEM MOTOR NEEDS





For an in-depth look about our company and solutions, follow our pages:







Global Appliance