

TECO



together, we empower the **Future** 

Company Profile

Company Profile



Company Vision

**The Key Driver
in realizing global
electrification, intelligence, and
green energy.**

since 1956

Years of excellence in the
industry sector

≈100

Affiliate companies globally

40+

Countries with business
operation

NTD 55B+

Revenue in 2024

14,000

Global employees

Group Business Achievements

Green Mechatronic Solution



No. 1 in market share of industrial motors in Taiwan
Top 5 in global market share of small low-voltage and medium to high-voltage motors



Acquisition of Shenchang Electric Co. in 2024, accelerating Entry into the Global Transformer Market

EV Products



First local company to receive DMIT (designed and made in Taiwan) Qualification in Taiwan



Intelligence Energy



Offshore wind farm substation: No. 1 in market share with approximately 2.5GW built/under construction
 Equipment supplied: Gas insulated switches, medium/low-voltage distribution panels, emergency generators, air-conditioning systems



Data Center MEP Engineering and EPC Projects : 700MW
Track records across Southeast Asia

Energy Storage and O&M



Energy storage system capacity 104MW
Battery energy storage system capacity 168MWh
 Including Taipower's Longtan Site which is Taipower's largest energy storage system



Solar power plants projects
Approximately 23MW constructed

Air & Intelligent Life





No. 1 in market share of domestic brands in the "All classrooms to be air conditioned-Elementary and Middle School " program
No. 1 in market share in Taiwan for commercial applications' water-cooled/air-cooled chillers
No. 1 in market share in Taiwan for Inverter Window Air Conditioners
No. 1 in market share in Taiwan for mini fridges (under 100 liters)
First domestically produced - Low GWP environmentally friendly chiller (R407H)

Corporate Governance Achievements

TECO Electric & Machinery Co., Ltd. 東元電機
Electrical Components & Equipment

Sustainability Yearbook Member

S&P Global Corporate Sustainability
Assessment (CSA) Score 2023

Member of

Dow Jones Sustainability Indices

Powered by the S&P Global CSA

MSCI
ESG RATINGS



CCC B BB BBB A **AA** AAA

RATING ACTION DATE: March 20, 2023

LAST REPORT UPDATE: April 03, 2023

- Selected as a constituent of the Dow Jones Sustainability Indices (DJSI) for 5 consecutive years
- Included in the S&P Sustainability Yearbook for 5 consecutive years
- Received AA in the MSCI ESG Ratings
- Received the Taiwan Corporate Sustainability Awards for 11 consecutive years
- Received Top 5% of the corporate governance evaluation for 9 times in recent years



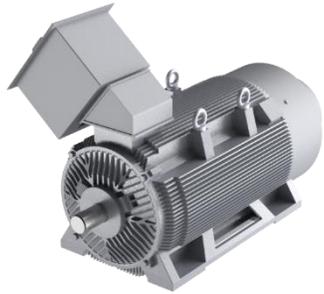
Green Mechatronic Solution Business Group

Overview of Main Products

- **Low-Voltage Motors**



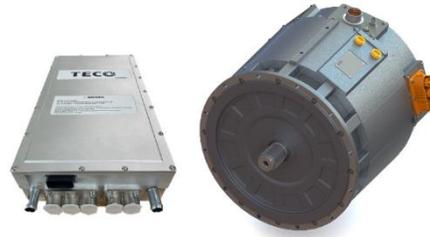
- **Medium and High Voltage Motors**



- **Reducers**



- **Electric Vehicle Motors**



- **Servo Drives**



- **Medium and High Voltage Variable Frequency Drives**



- **Low Voltage Variable Frequency Drives**



Diverse High-Efficiency (IE5) Low-Carbon Environmentally Friendly Motor Driver Systems

Leadership

Only manufacturer in Taiwan:

Complete IE5 product family satisfies all application demands

Innovation

First in Taiwan:

IE5 efficiency synchronous reluctance without magnet assistance

- Not affected by sources of rare earths (strategic materials)
- High reliability with no degaussing issues at high temperature

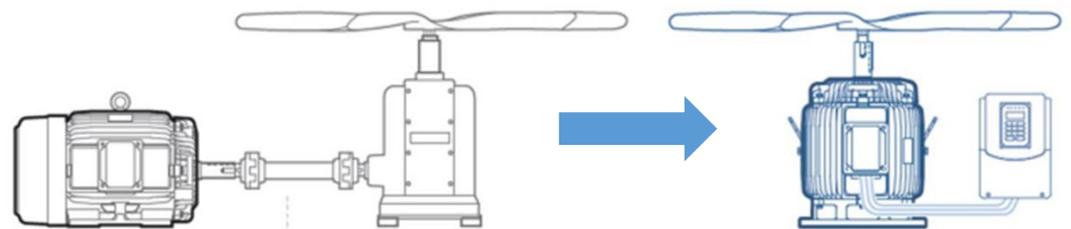
Low-carbon

Carbon Lite series (medium to high-voltage systems):

Reduce product carbon footprint by 30% (power density 10% higher than average global leading brands)

- Environmental protection: Exclusive patent insulation system with 22% lower VOC emissions
- Energy conservation: Suitable for variable frequency operations

					
IE5 efficiency	Induction motor	Synchronous reluctance motor	Permanent-magnetic motor	EC motor	Permanent magnet direct-drive system
Application areas	Industrial applications	Energy conservation applications for factories	Process equipment/factory equipment Energy conservation applications	Air conditioning and ventilation	Cooling tower



System Energy-Saving Solutions

Zero Carbon Energy Saving Solution Development



Alliances between business groups and industries
Intelligent energy and carbon asset management system

System solutions
Air compressor system/air-conditioning system
Pump system/ventilator system

Motors + inverters
IE3/IE4/PM/INV/MVD

Energy conservation improvement

Average energy conservation rate

Intelligent energy and carbon asset management system facilitates energy conservation and carbon reduction data collection for subsequent energy efficiency improvement

14.5%

Air compressor system
Air-conditioning system
Pump system
Ventilator system

25%
20%
25%
25%

Replace IE1 motors with IE4 motors
New inverters (LVD/MVD)

4%
30%

- ◆ Whole factory energy conservation improvements for large energy consumers in electronics and manufacturing industries and promotion of high-efficiency products
- ◆ Energy conservation promotion for Taiwanese businesses in Mainland China and Southeast Asia

Industry Electrification Solutions



TECO VB-skid



TECO E-house

◆ According to the U.S. government policy to support electrification, TECO Westinghouse has been actively tapping into this business opportunity. By replacing diesel engines to reduce carbon footprint, our application mainly focuses on compressors in O&G industry and the results have been promising.

Vehicle Electrification Products

Applications

Drones



Light commercial vehicles



Buses, medium to large, commercial vehicles, construction vehicles



Electric boats



600~2000 tons



2000~3300 tons

TECO power system



National Drone Team

2 in 1
400V
TP90/TP130



700V 250kW gear box



(M+I+G)

DMIT



350KW+SiC
3,000Nm~3,300 Nm
(M+I)

T Power+250



100-250kW _



690V 1250kW



Medium-voltage
inverters

Taiwan's first **SiC High Efficiency Drive**:

👍 Maximum efficiency
of 99.5%

👍 Power density
increased by 2.5 times



Electric vehicle charging stations produced and sold by TECO-Westinghouse Motor Company

DW-30



Solution: 30kW wall-mounted charging station + foundation

Application: School bus

DO-360



Solution: 360kW integrated charging station

Application: Charging station

TECO Transformer Product Portfolio



With the newly acquired transformer company ShenChang (Taiwan) and strategic alliance company SINTRA (Indonesia), TECO could offer Oil-immersed transformers voltage range up to 150/161KV, 150MVA, which has been supplied to Taipower (Taiwan Stated-owned utility company) & PLN (Indonesian State owned utility company) for decades with excellent quality and reputation.



	Pole Mount	Pad Mount	Distribution	Power	Power
Cooling	Oil Immersed	Oil Immersed	Oil Immersed	Oil Immersed	Oil Immersed
Voltage	<34.5KV	<34.5KV	<34.5KV	34.5~69KV	Up to 150/161KV
Capacity	<167KVA	<167KVA	20MVA	20~25MVA	60~150MVA
Efficiency	*99.19%	*99.19%	*99.19%	*99.19%	*99.19%
Standard	ANSI, IEC, IEEE	ANSI, IEC, IEEE	ANSI, IEC, IEEE	ANSI, IEC, IEEE	ANSI, IEC, IEEE
Customers	TaiPower, PLN	TaiPower, PLN	Formosa Plastic, Siemens,	PLN, Siemens	PLN, Siemens



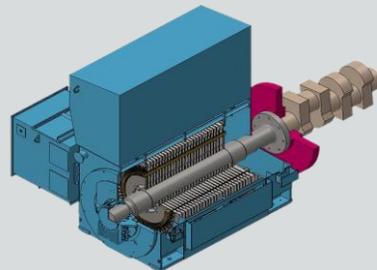
Carbon capture, utilization and storage (CCUS)

- **Direct air capture (DAC):** Taiwan's first carbon capture motor "Carbon Cutter" Corrosion-resistant and reduces time and cost for system maintenance



1-15000hp Carbon Cutter motors

- **Disintegration after combustion:** Investment in the development of small-scale modular carbon capture equipment (capacity of 2-5 tons CO₂ per day) Resolves carbon emission issues of major manufacturing plants (fuel cell or natural gas power generation)
- **Hydrogen compression:** Special motor for compressors for hydrogen production and transportation to terminal hydrogen stations (H₂Z)



Single-bearing hydrogen compressor motor series

Intelligence Energy Business Group

Key Areas for Growth



**Onshore Substations for
Offshore Wind Power**



**Energy Storage Systems
Engineering**



Data Center MEP Engineering

Onshore Substations for Offshore Wind Power

Total: 2.5GW



Achievements

- Onshore Substation of Changfang & Xidao Offshore Wind Farms
- Onshore Substation EPC Project of China Steel Power Offshore Wind Farm

- Onshore Substation EPC Project of Hai Long Offshore Wind Farms
- FengMiao offshore wind farm onshore substation

Energy Storage System EPC Project

Projects Capacity
Energy Storage System: 104MW
Battery: 168MWh



Prospects:

Completing the EPC project of energy storage system of 60MW in Taipower Longtan Substation

The Taoyuan Longtan Substation is the largest energy storage site in Taiwan, with a capacity of up to 60MW/96MWh. Once completed, it will take up 37.5% of the Taipower self-built capacity, and play a key role in stabilizing Taiwan's power supply.

Data Center MEP Engineering



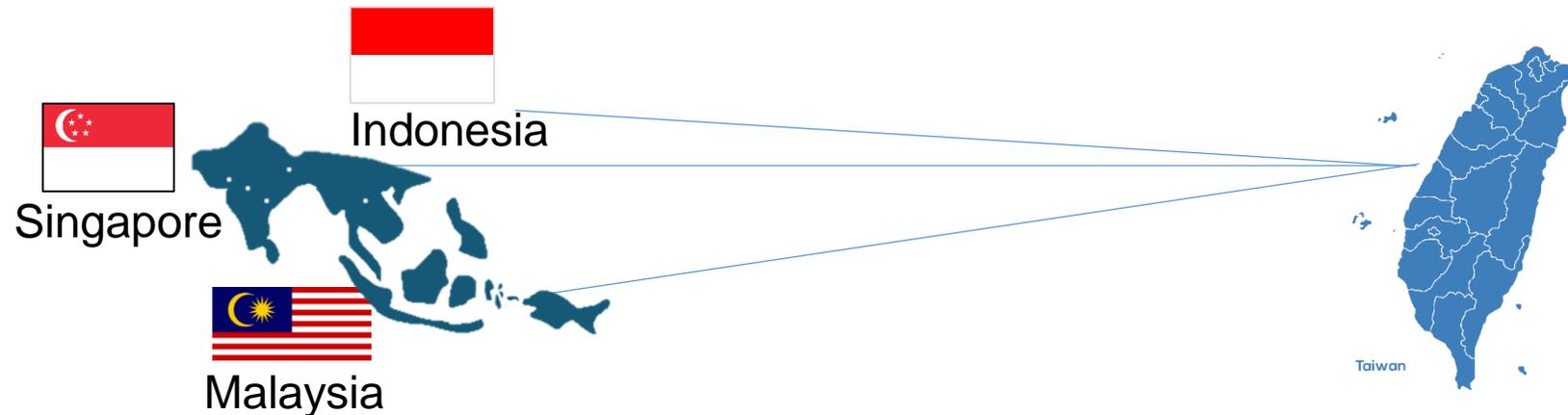
Project Capacity : 700MW

Integrate with affiliated companies and work with cloud service providers

Become a strategic alliance partner with telecommunication companies and cloud providers, and take the opportunity to cooperate with overseas affiliated companies to internationalize our DC engineering business, and develop power engineering and products based on fiber optic engineering.

Strengthen EPC & management abilities

Considering the changing nature of international companies (such as IPT), and emerging forms of construction such as modularization and standardization, TECO's engineering advantage and the growing IDC team are well-positioned for EPC management.



Industrial Control Products

DC 1000/1500V



MCCB MCB DS SPD FUSE Isolating switch

AC 380~1000V



MCCB ACB VCB Multi-functional distribution box

Generator 20-3000kW



PCS 250~1500kW



Isolating switch

Schneider Electric



Inverters Ezc CVS TVS

UPS/high-voltage power products



Uninterruptible power supply system (UPS) Automatic transfer switch (ATS) GIS 161KV

Energy Storage Business Development Division

PV Power Plants and Battery Energy Storage Systems



New target sites

The Company focuses mainly on large-scale ground-based PV systems (Land usage) as well as aquaculture and rooftop sites.

Focus on PV+BESS and microgrids

23MW solar power plants has been constructed

PV+BESS site (PV system + Battery energy storage system)

Creation of one of Taiwan's first few PV and BESS projects (6MW)

Implement time shift for the use of electrical energy to store solar energy during the day for use in the evening



Microgrid construction (EMS + PV system + energy storage system)

TECO developed its own on-site energy management system to integrate electrical energy from different sources (Including the battery energy storage system); it dispatches electricity, adjusts Power frequency, stabilizes voltage dips and spikes, and prevents equipment damage

Air and Intelligent Life Business Group

Wide Range of Air-Conditioning Products



Frozen system



Direct Expansion Air Conditioning Unit

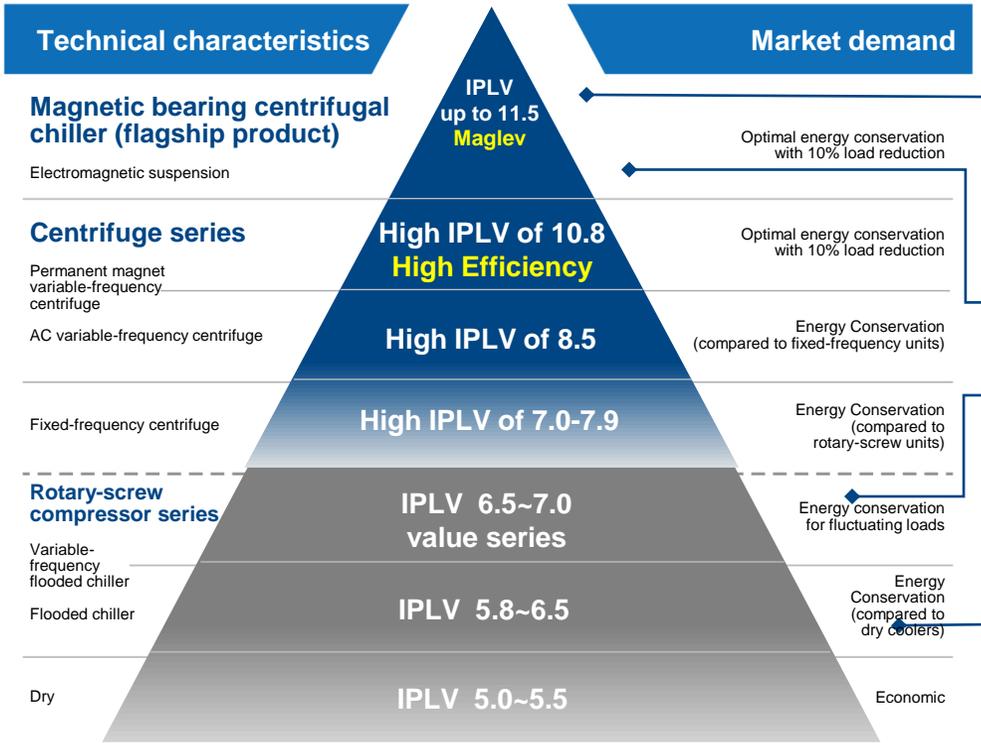


chiller system

Air-Conditioning System Solution—One-Stop Service

TECO Advantages Full product range to satisfy different requirements

Energy-saving Water-cooled chiller options



Product Combinations

- Highest Efficiency**
 Comply with green building standards
 maglev centrifuge + variable-frequency peripheral system:
 0.58 kW/RT
- Maximum Synergy** Good value for money
 maglev centrifuge + variable-frequency flooded + peripheral system:
 0.66 kW/RT
- Basic Capacity** Low entry costs
 flooded + fixed-frequency peripheral system: 0.98 kW/RT

Our collections covers various models and capability, suitable for different fields or needs, with high energy conservation, maximum synergy, and the lowest cost of installation. We also provide health diagnosis system, as well as one-stop system integration services such as visualization of electricity management and indoor air quality monitoring.

Refrigeration and Freezer Technologies

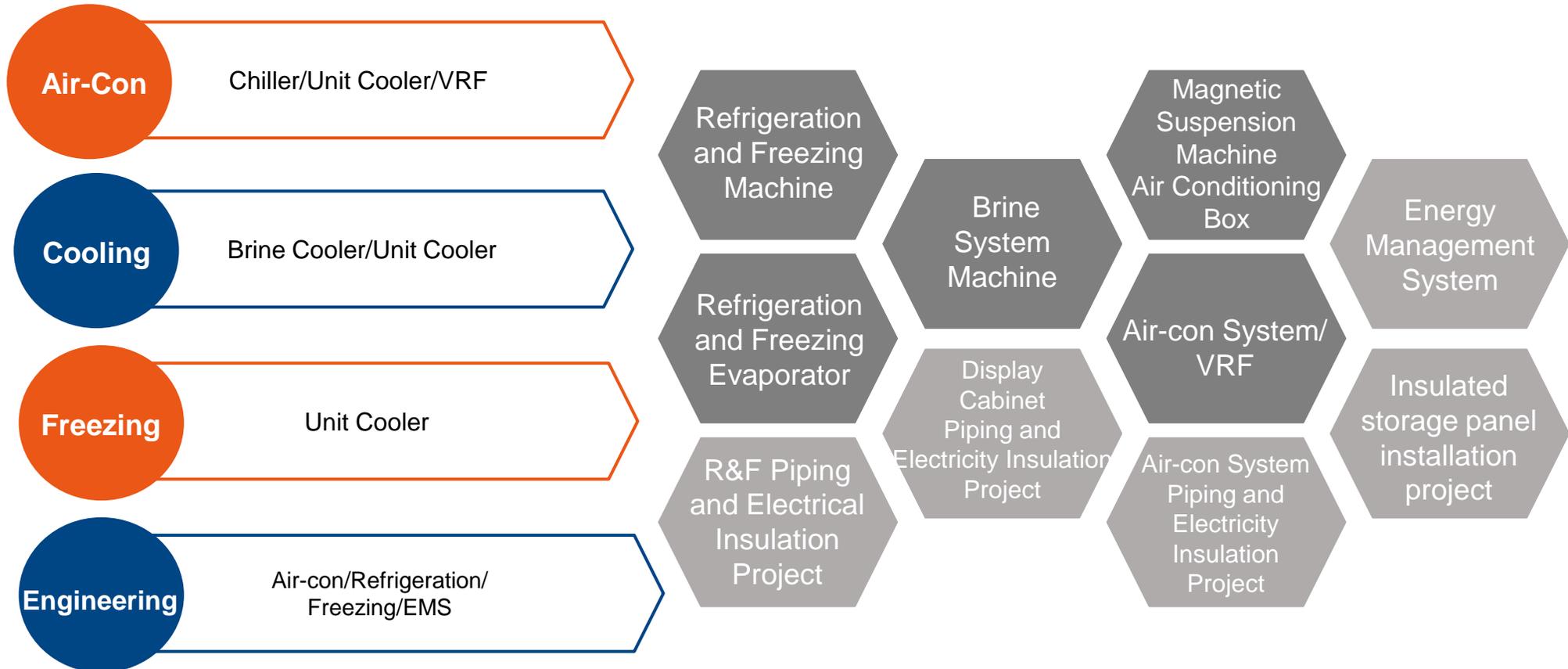


food warehouses/
agriculture and
fisheries
associations

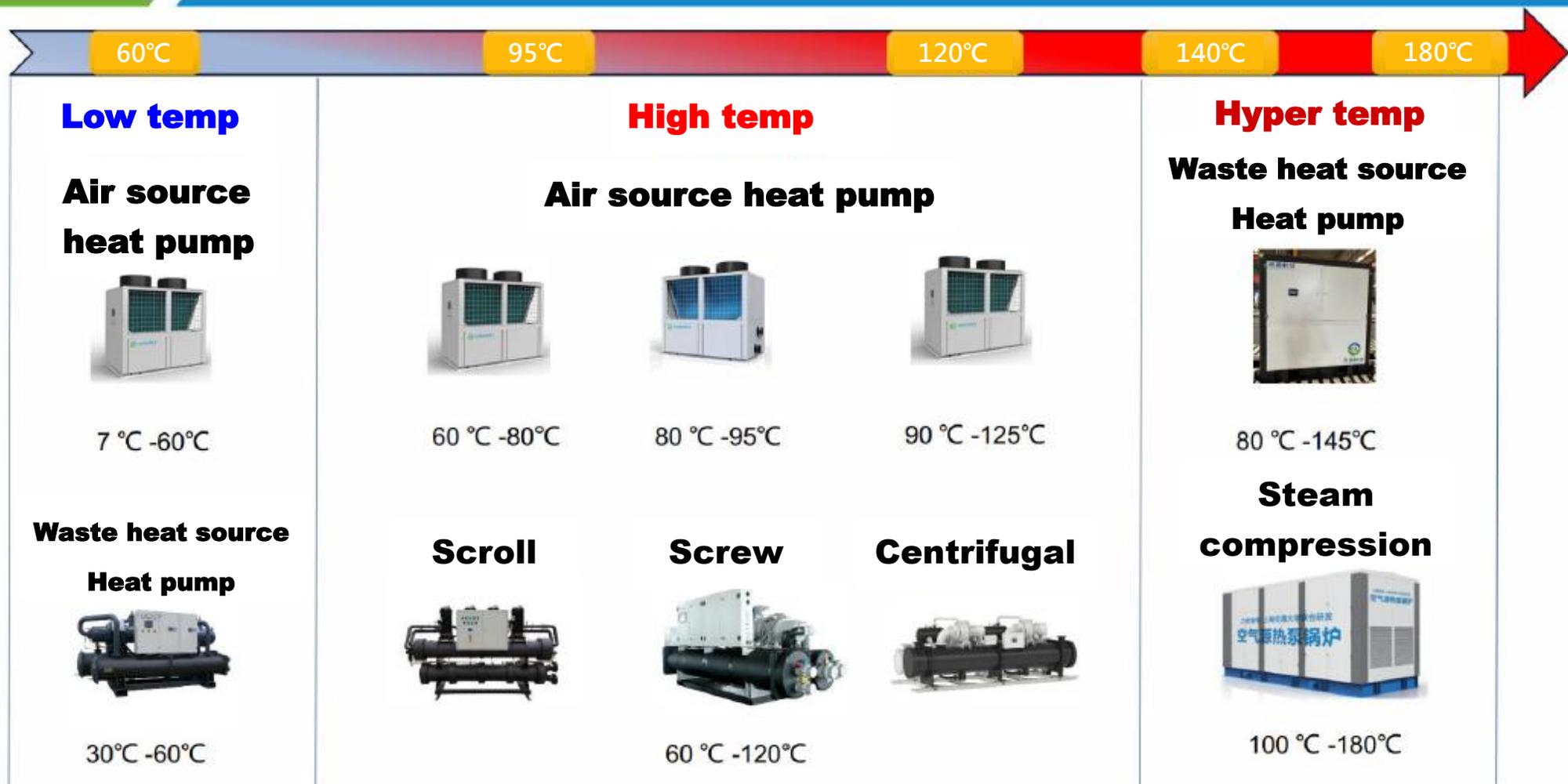
food processing/
low-temperature
factories

logistics centers/
low-temperature
transfer station

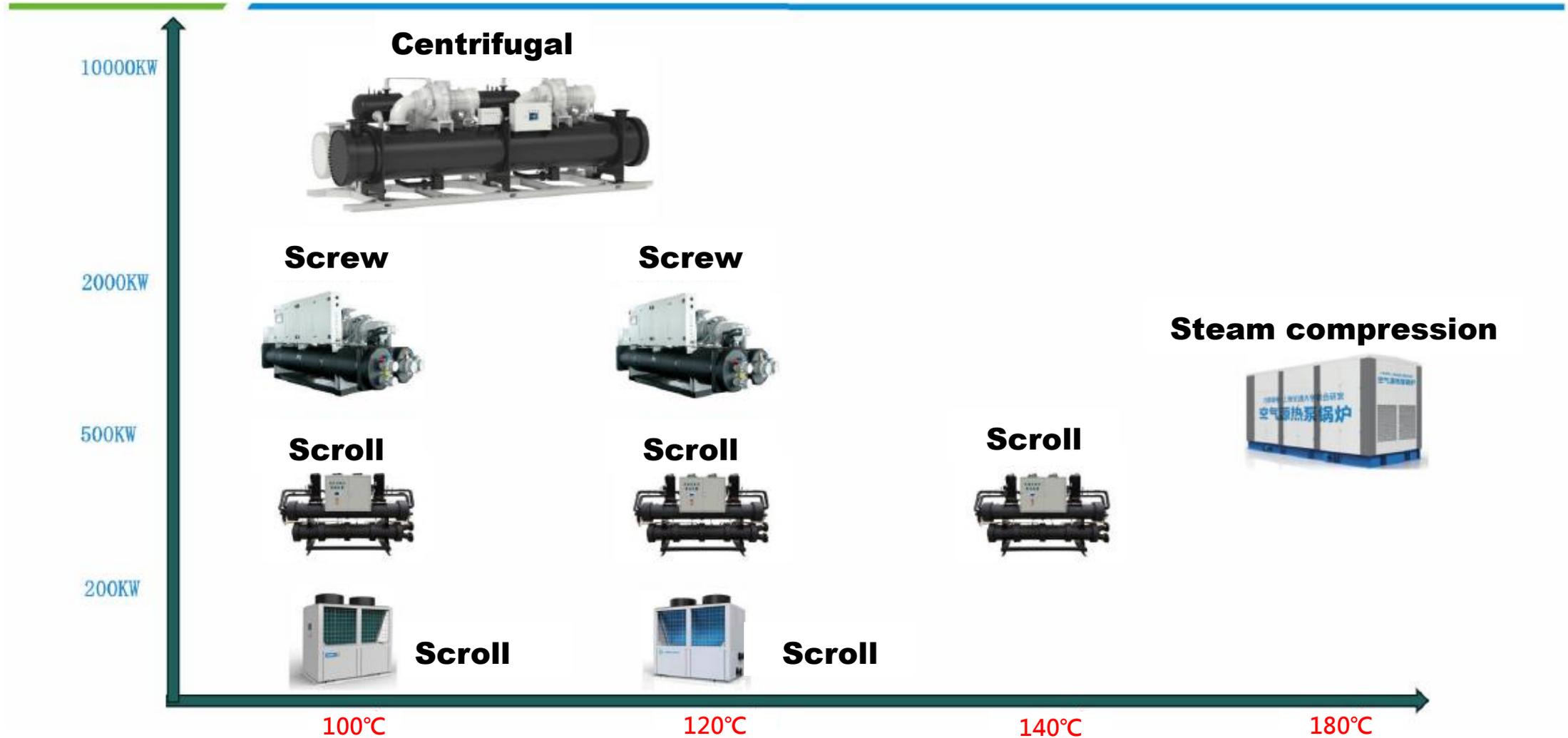
Supermarkets/
convenience stores



TECO industrial heat pump (Temperature zone)



TECO industrial heat pump (Capacity zone)



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