



East West

# **MOTOR** SOLUTIONS



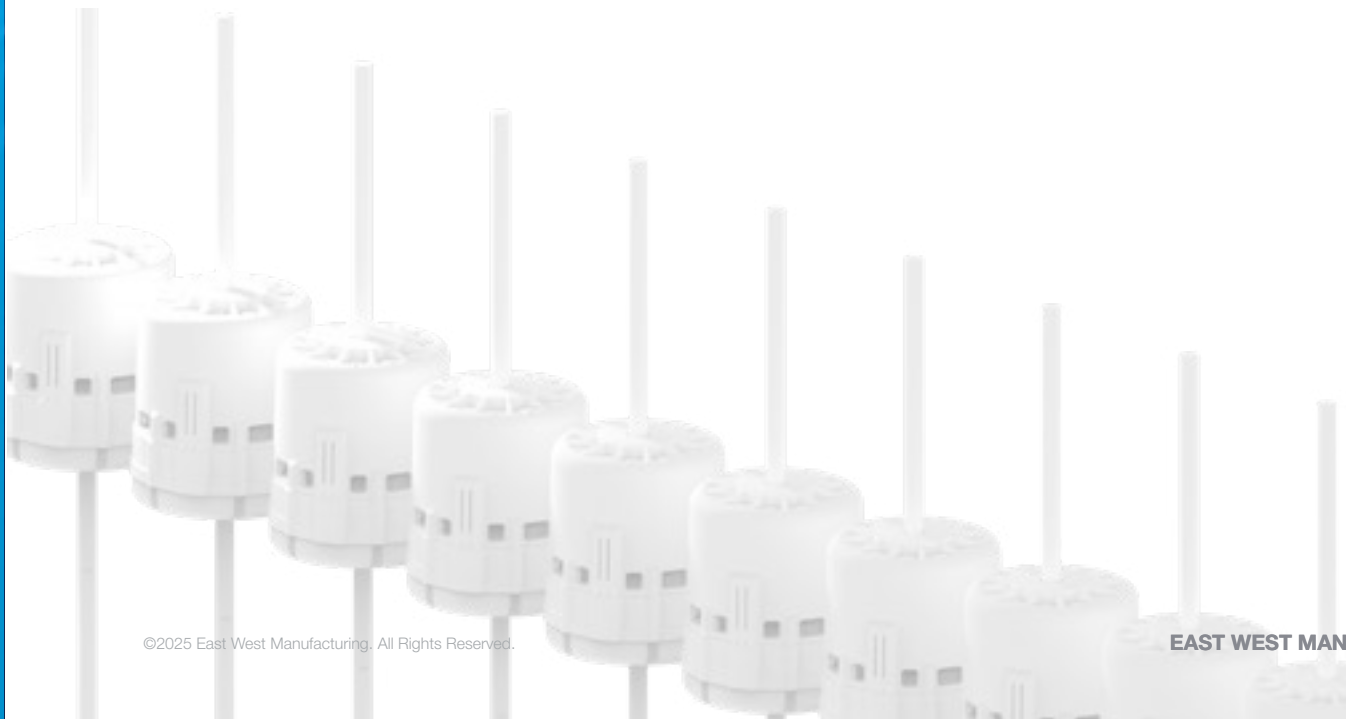
# Table of Contents

|    |                              |
|----|------------------------------|
| 1  | ABOUT EAST WEST              |
| 2  | VERTEX® EC MOTORS            |
| 8  | PCB STATOR TECHNOLOGY        |
| 10 | EC MOTORS AND FANS           |
| 14 | AC MOTOR SOLUTIONS           |
| 20 | FAN, BLOWER & PUMP SOLUTIONS |

# About East West



**SINCE 2001**, East West Manufacturing® has been a trusted, concept-to-scale partner for some of the world's most recognizable brands and new disruptors. Over the past 25 years, East West has combined our deep expertise in motor manufacturing with specialized contract manufacturing capabilities to deliver complete end-to-end product solutions. Our motors facilities produce millions of customized motors each year - AC, DC, and EC - developed to meet precise performance and cost requirements. East West offers a unique solution for customers as we not only engineer OEM-customized motor, air, and water-moving parts, but can also design, manufacture, and deliver the entire finished product. Backed by more than 2,500 employees across nine facilities in seven countries, East West provides the expertise, scale, and global resources to take your idea from concept to production - efficiently, reliably, and with exceptional quality.





# VERTEX<sup>®</sup> EC MOTORS

The First of its Kind

The Vertex<sup>®</sup> EC Motor Series is the first of its kind. This motor has been developed with composite material for optimized geometry, competitive pricing, and lower weight. Interior permanent magnets (IPMs) – which are less likely to detach due to centrifugal force – allow for higher torque/speed and significant energy savings.

# The Most Innovative Motor Yet

East West developed a distinctly unique motor solution, incorporating a plastic injected housing that packs increased power density into a frame that is smaller in size and lighter in weight than other ½ HP EC motors on the market.

## YOUR SINGLE SKU SOLUTION

This ideal single SKU motor offers an extremely wide peak efficiency range with maximum efficiency of 88%. One motor SKU can be used to cover a range of application duty points while optimized electro-magnetics enable maximum output power to be achieved from 1,200 to 2,000 RPM covering both standard 4-pole and 6-pole applications. Vertex 1/2 HP can be used for 120/208-277 VAC, 50/60 Hz input with consistent performance throughout the nominal voltage range without manual configuration.

We offer a range of solutions to meet your unique motor needs. Each Vertex model is available in three flexible efficiency tiers. Key motor features of all efficiency tiers include:

- Over-temperature protected electronics including motor derating
- Control interface is SELV (Safety Extra Low Voltage)
- Soft start allowing for controlled ramp-up to full speed (programmable)
- Over current protection
- Locked rotor protection
- Control method – torque control, speed control
- Direction of rotation – programmable and reversible
- Internal fusing
- Sensorless motor – uses FOC (Field Oriented Control)
- Approvals – UL 1004-7, UL 60730-1, UL CCN LZGH2/8, CAN CSA E60730-1, CSA C22.2 NO. 77-14, CSA C22.2 NO. 100-14



## PATENTED ACTIVE COOLING

East West's patented active cooling system (illustrated above) helps the motor achieve a significant increase in power density. For the Vertex 1/2 HP, this means providing the same performance as a typical 48-frame EC motor but in a 42-frame package size.\*

\*S. Andrew Semidey, "Electronically commutated DC motor," U.S. Patent 11552 520, Jan. 10, 2023.

# Learn more about Vertex

## FEATURES

- High voltage inputs (120/208–277 VAC) for 3-speed/torque operation
- Low voltage inputs (12–30 VAC or 3.3–30 VDC) for 4-speed/torque operation
- 0–10 VDC/PWM (pulse width modulation) for variable speed/torque operation
- Tachometer output/diagnostic output (1-pulse/rev)
- 3.3 VDC output (50 mA max) to power digital inputs when external controller does not have this output as an option
- Motor configuration via serial communication for PC and Bluetooth dongle for smartphone
- Possible elimination of interface modules when connecting to 3rd party controllers
- Soft start allowing for controlled ramp-up to full speed
- Control interface is a SELV (Safety Extra Low Voltage) system
- Over-temperature protected electronics

## MOTOR SPECIFICATIONS

|                                   |                                                                                                               |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Tri Voltage</b>                | 120/208–277 VAC<br>50/60 Hz                                                                                   |
| <b>Speed Range</b>                | 300 to 2000 RPM                                                                                               |
| <b>Insulation</b>                 | Class F                                                                                                       |
| <b>Bearing Type</b>               | Sealed ball bearing                                                                                           |
| <b>Controller</b>                 | Integrated                                                                                                    |
| <b>Direction of Rotation</b>      | Reversible via user configuration<br>Default direction is CCWDE                                               |
| <b>Electronic Safety Features</b> | Locked rotor<br>Over-current<br>Over-temperature protection                                                   |
| <b>Mounting Options</b>           | Belly band: single shaft<br>Resilient mount: dual shaft<br>Custom mounting: upon request                      |
| <b>Approvals</b>                  | UL 1004-7, UL 60730-1,<br>UL CCN LZGH2/8<br>CAN CSA E60730-1,<br>CSA C22.2 NO. 77-14,<br>CSA C22.2 NO. 100-14 |

## MOTOR MATERIALS

|                                                                   |                                                 |
|-------------------------------------------------------------------|-------------------------------------------------|
| <b>Motor Casing, Electronics Housing &amp; Over-molded Stator</b> | PET composite with flammability rating UL94-5VA |
| <b>Mounting Bracket</b>                                           | G30 zinc plated steel                           |
| <b>Shaft</b>                                                      | #45 steel coated with SR70 rust proof oil       |



# No one solution fits all

That’s why we designed our Vertex motors in three efficiency tiers, which offer you the flexibility to choose the option best suited to your needs.

|                   | PREMIUM                                | HIGH                                 | STANDARD                             |
|-------------------|----------------------------------------|--------------------------------------|--------------------------------------|
| Peak Efficiency   | 88%                                    | 87%                                  | 85%                                  |
| Max. Output Power | 450 W                                  | 373 W                                | 373 W                                |
| Max. Power Input  | 570/560–544 W                          | 480/477–466 W                        | 510/508–492 W                        |
| Current Draw      | 6.5/4.0–3.0 A                          | 5.5/3.4–2.5                          | 5.6/3.6–2.9 A                        |
| Operating Temp.   | -20 °C to 60 °C **                     | -20 °C to 50 °C **                   | -20 °C to 40 °C **                   |
| Rated Torque      | 3.6 Nm @ 1200 RPM<br>2.2 Nm @ 2000 RPM | 3 Nm @ 1200 RPM<br>1.8 Nm @ 2000 RPM | 3 Nm @ 1200 RPM<br>1.8 Nm @ 2000 RPM |
| Winding Material  | Copper                                 | Copper                               | Aluminum                             |
| Magnet Material   | Neodymium-Ferrite                      | Ferrite                              | Ferrite                              |

1/2 HP  
EFFICIENCY TABLE

|                   | PREMIUM                                | HIGH                                 | STANDARD                             |
|-------------------|----------------------------------------|--------------------------------------|--------------------------------------|
| Peak Efficiency   | 87%                                    | 85%                                  | 84%                                  |
| Max. Output Power | 299 W                                  | 249 W                                | 249 W                                |
| Max. Power Input  | 341/335–334 W                          | 300/296–295 W                        | 320/314–313 W                        |
| Current Draw      | 4.1/2.6–2.0 A                          | 3.6/2.3–1.8 A                        | 3.8/2.4–1.9 A                        |
| Operating Temp.   | -20 °C to 60 °C **                     | -20 °C to 50 °C **                   | -20 °C to 40 °C **                   |
| Rated Torque      | 2.4 Nm @ 1200 RPM<br>1.4 Nm @ 2000 RPM | 2 Nm @ 1200 RPM<br>1.2 Nm @ 2000 RPM | 2 Nm @ 1200 RPM<br>1.2 Nm @ 2000 RPM |
| Winding Material  | Copper                                 | Copper                               | Aluminum                             |
| Magnet Material   | Neodymium-Ferrite                      | Ferrite                              | Ferrite                              |

1/3 HP  
EFFICIENCY TABLE

|                   | PREMIUM                                | HIGH                                   | STANDARD                               |
|-------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Peak Efficiency   | 86%                                    | 84%                                    | 81%                                    |
| Max. Output Power | 225 W                                  | 187 W                                  | 187 W                                  |
| Max. Power Input  | 253/256–250 W                          | 238/234–233 W                          | 261/255–254 W                          |
| Current Draw      | 3.2/2–1.6 A                            | 2.9/1.8–1.5 A                          | 3.0/2.0–1.6 A                          |
| Operating Temp.   | -20 °C to 60 °C **                     | -20 °C to 50 °C **                     | -20 °C to 40 °C **                     |
| Rated Torque      | 1.8 Nm @ 1200 RPM<br>1.1 Nm @ 2000 RPM | 1.5 Nm @ 1200 RPM<br>0.9 Nm @ 2000 RPM | 1.5 Nm @ 1200 RPM<br>0.9 Nm @ 2000 RPM |
| Winding Material  | Copper                                 | Copper                                 | Aluminum                               |
| Magnet Material   | Neodymium-Ferrite                      | Ferrite                                | Ferrite                                |

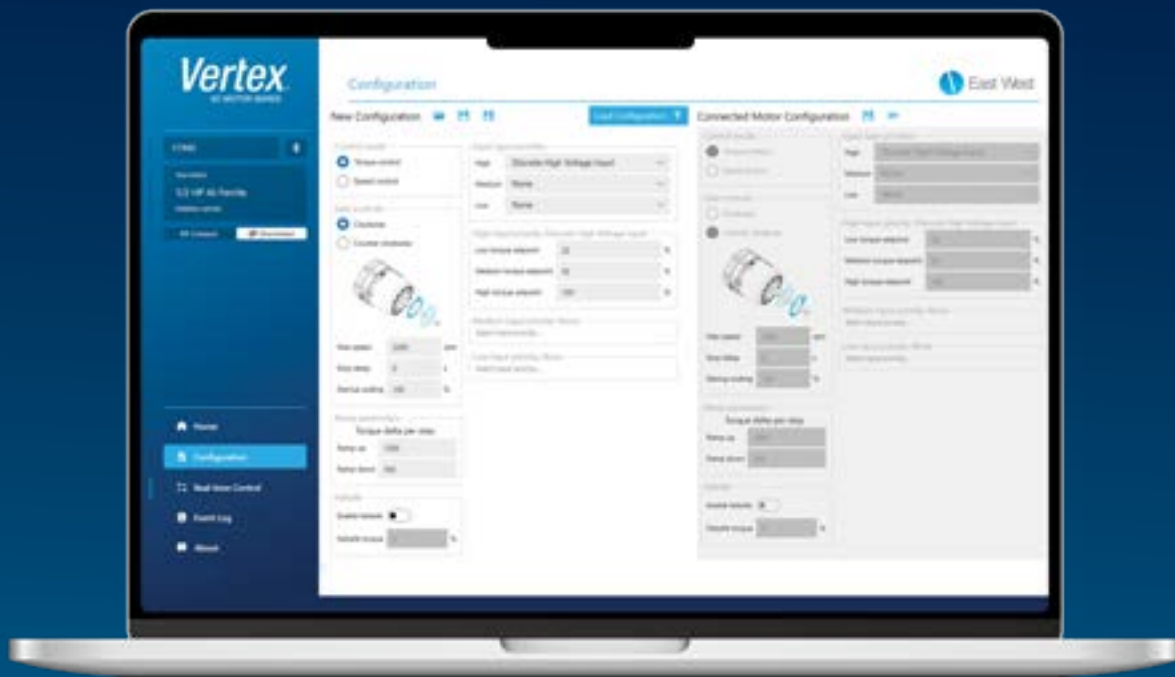
1/4 HP  
EFFICIENCY TABLE

\*\*Higher max. ambient temperature possible depending upon application requirements. Consult with your EW Account Manager for further details.

# VERTEX<sup>®</sup>

## DATA MANAGEMENT

Real Data in Real Time



The Vertex app's real-time control capability provides real data in real-time, empowering users to fine-tune performance and make decisions with speed and precision. This ensures engineers can focus on optimizing motor performance without unnecessary complexity.

**Vertex**<sup>®</sup>  
EC MOTOR SERIES

# Effortless User Experience



## EFFORTLESS DATA CAPTURE

Our app collects wireless data via Bluetooth, allowing for seamless testing in the application and eliminating the need for cumbersome wiring. By enabling an unobstructed performance analysis, our app enhances usability and ensures accuracy under real-world conditions.



## SIMPLIFY YOUR WORKFLOW

Easily migrate final setpoints from the lab to production-ready files, generate barcodes for seamless production line scanning, and automatically trigger label printing - all through a user-friendly interface with supervisor controls.



# PCB STATOR TECHNOLOGY



East West

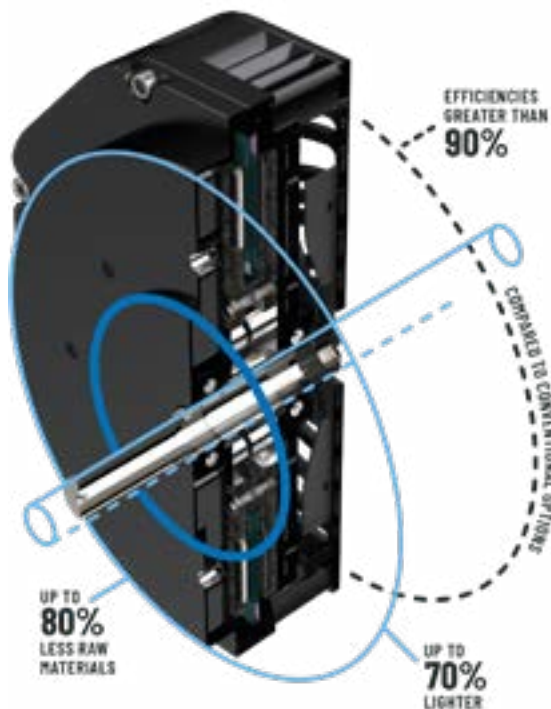


ecm | PCB STATOR TECH

Our East West Motors business unit has strategically partnered with ECM PCB Stator Tech to leverage ECM's award-winning PrintStator Motor CAD optimization platform. PCB Stator technology eliminates the need for copper windings used in conventional machines, creating a new type of axial flux electric motor for the next 100 years of electrification.

# PCB Stator Technology Innovations

PCB Stator technology innovations allow for the optimization of copper geometries and winding patterns that ensures high efficiency with minimal environmental impact. PCB Stator motors designed via PrintStator are up to 70% lighter than conventional options while achieving efficiencies in the excess of 90% and requiring just 20% of the raw materials. PCB Stator motors can achieve power of up to 20kW, speeds up to 30,000 RPM, and torque ratings of up to 100Nm.



The advantage of PCB Stator Technology is vast. Key PCB Stator motor features include: .

- **High Efficiency** – PCB Stator technology achieves efficiencies exceeding 90%; this integration results in reduced operating costs, extending battery life and lowering carbon footprint
- **Streamlined Motor Design** – ECM's PrintStator software streamlines motor design by rapidly generating prototype-ready designs so engineers can move quickly from concept to testing
- **Increased Durability** – PCB Stator's continuous coil design and fully encapsulated windings prevent common failures found in traditional motors, boosting overall durability (rigorous HALT testing validates their reliability)
- **Superior Quality of Motion** – PCB Stator motors offer unparalleled motion quality, free from cogging while delivering smooth torque, and eradicating cogging through their innovative air core design and utilization of iron-free PCB Stators
- **High Torque Density** – Powered by PrintStator software, efficient copper utilization yields torque-dense machines that enable high-power density with minimal axial length and weight (multiple PCB motors can be stacked on a single shaft)
- **Low Noise & EMI** – The encapsulation of PCB Stator coils within a composite structure effectively eliminates acoustic noise and reliability issues caused by vibration and other forces affecting traditional stator windings (results are up to 30dB quieter)
- **Increased Thermal Performance** – PCB Stator motors feature patented thermal management for safe continuous operation; using a continuous copper path, heat is conducted from the stator's center to the case's edge and then dissipates into the environment
- **Sustainable** – Through meticulous optimization of magnet and steel mass, plus the use of PCB Stators requiring less copper, these motors set a new standard for resource efficiency (PCB Stator motors reduce material usage by up to 80%)



# EC MOTORS AND FANS

Our ECR2 motor is designed to be a drop-in replacement for shaded pole motors in commercial refrigeration and uses  $\frac{2}{3}$  less power than shaded pole motors making the motor up to 70% energy efficient. ECR2 motors have a design life of 10 years and offer near silent operation. The motor is also available in a integrated axial fan assemblies featuring patented 3D sculpted blades to guide the air gently with reduced edge noise.

# Advanced Refrigeration Motors

For 25 years, East West has been building EC motors to withstand the demanding conditions of commercial refrigeration while providing the engineering expertise and manufacturing precision needed to ensure every motor meets exacting performance and durability standards.



## LET'S START A CONVERSATION

We offer motor solutions from our catalog of products, or we'll partner with you to develop semi to fully customized designs that meet both cost and performance requirements. No matter how unique the project, East West can help you solve it.



## THE ECR2 SERIES

Get the most advanced refrigeration motor. Using a smart-control programming device, an ECR2 can be programmed to cover multiple SKUs that allows for customization of power range, dual voltage, variable speed, and other features such as reversibility or three-speed operation.

The ECR2 is used in bottle coolers, reach-in display cases, vending machines, under counter cabinets, and other refrigerated equipment. Key ECR2 features include:

- High efficiency – up to 70%
- High power factor – up to 0.95
- RoHS and REACH compliant
- SKU reduction – reduces inventory and boots economies of scale
- Highly reliable – design life L10 of 90,000 hours

## INTEGRATED AXIAL FAN ASSEMBLIES

Our axial fan assemblies allow a single product to supply the required airflow for any application at high efficiency. Benefits for using integrated axial fan assemblies include aerodynamic blade and basket, high efficiency, and low noise.

# ECR2 Series

## Our premier EC Motor for Refrigeration

### TYPICAL APPLICATIONS

- Bottle coolers
- Vending machines
- Heat pump water heaters
- Reach-in display cases
- Ice machines
- Other refrigeration equipment

### KEY FEATURES

- High efficiency—up to 70%
- High power factor—up to 0.95
- RoHs & REACH compliant
- SKU reduction—reduces inventory & boosts economies of scale
- Highly reliable—design life L10 of 90,000 hours



### MOTOR SERIES SPECIFICATIONS

|                           |                                                                                                                                                                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Speed Options             | 3-speed, reversible or timed reverse options                                                                                                                                                                                                                              |
| EMC Protection            | 4000 V (per EN61000-6-2)                                                                                                                                                                                                                                                  |
| Noise                     | SWL 37 dBA @ 1300 RPM (per ISO1680)                                                                                                                                                                                                                                       |
| Insulation                | Class A (105°C)                                                                                                                                                                                                                                                           |
| Motor Protection          | Electronic protection, locked rotor, automatic thermal derating                                                                                                                                                                                                           |
| Refrigerant Compatibility | HFC, CO2 and hydrocarbon (per IEC60335-2-89 Annex BB)                                                                                                                                                                                                                     |
| ATEX (EX)                 | IEC 60079-15 Group 2, Category 3G                                                                                                                                                                                                                                         |
| IP rating                 | IP67 (wash-down duty)                                                                                                                                                                                                                                                     |
| Operating Range           | -30°C to +50°C<br>(-22°F to +122°F)                                                                                                                                                                                                                                       |
| Storage Temp. Range       | -40°C to +80°C<br>(-40°F to +176°F)                                                                                                                                                                                                                                       |
| Approvals                 | CE   RoHS  |



## ECR2 13W MOTOR SPECIFICATIONS

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| <b>Dual Voltage</b>       | 115/230 VAC, 100-240 VAC, 50/60 Hz (all models) |
| <b>Output Power</b>       | 13 W max.                                       |
| <b>Speed Range</b>        | 300 to 2400 RPM                                 |
| <b>Max. Efficiency</b>    | 70%                                             |
| <b>Weight</b>             | 0.54 kg (1.2lb)                                 |
| <b>Max. Input Current</b> | 0.10 A (@ 230 VAC)<br>0.20 A (@ 115 VAC)        |
| <b>Power Factor</b>       | Up to 0.95 depending on load and voltage        |

## ECR2+ 26W MOTOR SPECIFICATIONS

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| <b>Dual Voltage</b>       | 115/230 VAC, 100-240 VAC, 50/60 Hz (all models) |
| <b>Output Power</b>       | 26 W max.                                       |
| <b>Speed Range</b>        | 300 to 2300 RPM                                 |
| <b>Max. Efficiency</b>    | 74%                                             |
| <b>Weight</b>             | 0.69 kg (1.5lb)                                 |
| <b>Max. Input Current</b> | 0.35A (@115 VAC)                                |
| <b>Power Factor</b>       | Up to 0.96 depending on load and voltage        |

## ECR2 13W SUITABLE FANS

| Speed    | 150MM (6")<br>172MM (7") | 200mm (8") |     |     |     | 230mm (9") |     |     | 254mm (10") |     |
|----------|--------------------------|------------|-----|-----|-----|------------|-----|-----|-------------|-----|
|          | All Pitches              | 22°        | 28° | 34° | 40° | 22°        | 28° | 19° | 22°         | 28° |
| 1300 rpm | +                        | +          | +   | +   | +-  | +          | +   | +   | +           | +-  |
| 1550 rpm | +                        | +          | +   | +   | +-  | +          | +-  | +-  | +-          | -   |
| 1800 rpm | +                        | +          | +   | +-  | -   | +-         | -   | -   | -           | -   |

## ECR2+ 26W SUITABLE FANS

| Speed    | 200mm (8") | 230mm (9") |     |     | 254mm (10") |     |     |
|----------|------------|------------|-----|-----|-------------|-----|-----|
|          | 34°        | 22°        | 28° | 34° | 22°         | 28° | 34° |
| 1300 rpm | +          | +          | +   | +   | +           | +   | +-  |
| 1550 rpm | +          | +          | +   | +   | +           | +   | -   |
| 1800 rpm | +          | +          | +   | -   | +           | +-  | -   |
| 2100 rpm | +          | +          | +-  | -   | +-          | -   | -   |

Achieve rated rpm  
 Does not achieve rated rpm  
 May not achieve rated rpm at all back pressures

# ECF2

## Our EC Fan Assembly for Refrigeration



### TYPICAL APPLICATIONS

- Bottle coolers
- Vending machines
- Heat pump water heaters
- Reach-in display cases
- Other refrigeration equipment

### KEY FEATURES

- High efficiency—up to 70%
- High power factor—up to 0.95
- RoHs & REACH compliant
- SKU reduction—reduces inventory & boosts economies of scale
- Highly reliable—design life L10 of 90,000 hours

### MOTOR SPECIFICATIONS

|                           |                                                                                                                                                                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dual Voltage              | 115/230 VAC, 100-240 VAC, 50/60 Hz (all models)                                                                                                                                                                                                                           |
| Output Power              | 0–13 W max.                                                                                                                                                                                                                                                               |
| CFM Range                 | 0–355 CFM (3 speed programmable)                                                                                                                                                                                                                                          |
| Speed Range               | 300–1800 RPM field programmable in 50 RPM increments                                                                                                                                                                                                                      |
| Speed Options             | 3-speed, reversible or timed reverse options                                                                                                                                                                                                                              |
| Max. Input Power          | 20.5 W                                                                                                                                                                                                                                                                    |
| Max. Input Current        | 0.10 A (@ 230 V)<br>0.20 A (@ 115 V)                                                                                                                                                                                                                                      |
| Power Factor              | Up to 0.95 depending on load and voltage                                                                                                                                                                                                                                  |
| EMC Protection            | 4000 V (per EN61000-6-2)                                                                                                                                                                                                                                                  |
| Insulation                | Class A (105°C)                                                                                                                                                                                                                                                           |
| Motor Protection          | Electronic protection, locked rotor, automatic thermal derating                                                                                                                                                                                                           |
| Refrigerant Compatibility | HFC, CO2 and hydrocarbon (per IEC60335-2-89 Annex BB)                                                                                                                                                                                                                     |
| ATEX (EX)                 | IEC 60079-15 Group 2, Category 3G                                                                                                                                                                                                                                         |
| IP rating                 | IP67 (wash-down duty)                                                                                                                                                                                                                                                     |
| Operating Range           | -30°C to +50°C<br>(-22°F to +122°F)                                                                                                                                                                                                                                       |
| Storage Temp. Range       | -40°C to +80°C<br>(-40°F to +176°F)                                                                                                                                                                                                                                       |
| Weight                    | 0.86 kg (1.9 lb)                                                                                                                                                                                                                                                          |
| Approvals                 | CE   RoHS  |

# SCS

## Refrigeration Controller



### KEY BENEFITS

- Advanced refrigeration controls
- Energy saving
- Smart connectivity
- Commercial performance
- Asset management
- Technical diagnostics
- Digital engagement

### CONTROLLER SPECIFICATIONS

|                             |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| Input Voltage Range         | 90-240 VAC 50/60 Hz                                                                    |
| IP Rating                   | Front panel IP68 (back IPx5)                                                           |
| Max. Power Consumption      | 3.5W                                                                                   |
| Relay ratings               | 1x UL: 7.2FLA & 34.8LRA, IEC: 8A<br>1x UL: 3A, IEC: 3A<br>2 x 0.4A (triac solid state) |
| Low Voltage Output Ratings  | 1 x 5Vdc 100mA<br>4 x 0-24Vdc, 1A per channel*                                         |
| EMC Protection              | 4000V (per EN61000-6-2)                                                                |
| Refrigerant Compatibility   | HFC, CO <sub>2</sub> , Hydrocarbon<br>(per IEC 60335-2-89)                             |
| Operating Temperature Range | IEC -20°C to +55°C (-4°F to +131°F)<br>UL -20°C to +50°C (-4°F to +122°F)              |
| Storage Temperature Range   | -40°C to +80°C (-40°F to +176°F)                                                       |
| Weight                      | 130g (4.6oz)                                                                           |
| Storage Temp. Range         | -40°C to +80°C<br>(-40°F to +176°F)                                                    |
| Weight                      | 0.86 kg (1.9 lb)                                                                       |

# AC MOTOR SOLUTIONS

East West's motors production facilities in China, just outside of Shanghai, and Thailand, near the Laem Chabang Port, were designed to produce quality and efficient motors. Our highly automated facility in China houses a UL-approved witness testing facility, dynamometer, and application test operations that enables reverse engineering of existing motors or custom design of new motors.



# Best-in-Class AC Motors

East West manufacturers millions of motors each year, specializing in designing custom motors geared specifically to any customer application.



## LET'S START A CONVERSATION

Today, East West manufacturers millions of motors each year. We offer motor solutions from our catalog of products, or we'll partner with you to develop semi- to fully customized designs that meet both cost and performance requirements. No matter how unique the project, East West can help you solve it.

## MOTOR DESIGN & MANUFACTURING

Available AC motors offered by East West include Permanent Split Capacitors (PSCs), 3.3 mm, 95 mm, 42 Frame, 48 Frame, and 56 Frame in fractional horsepower sizes up to 1.5 HP. Additionally, we provide testing expertise you can count on. Our engineering teams have years of experience with UL allowing us to manufacture products that meet UL standards the first time. Our testing capabilities include::

- Thermal shock
- Stop/start cycling
- Continuous run
- Locked rotor
- Acoustic
- Vibration
- Airflow testing
- Extreme temperature

# Customized Motor Offerings—

East West offers our customers a wide range of motors. In addition to the motors listed in this brochure, we can also provide custom developments to meet your unique needs.

## TYPICAL APPLICATIONS

- Condenser fan
- Direct drive furnace blower
- Evaporative coolers
- Fan coil units
- Filtration/room air cleaners
- Heat exchangers
- Heat pump water heaters
- Hot air convection fans
- Induced draft blowers
- Laboratory equipment
- Pump motors
- PTAC (packaged terminal air conditioner)
- Refrigeration
- Ventilation

Contact our East West  
OEM Motor Sales Team to  
learn more about what we  
can provide for you!

# Additional AC Motor Offerings—



## 3.3"-FRAME AC MOTOR

|               |                 |
|---------------|-----------------|
| Frame Size    | 3.3"            |
| HP Range      | 40 W to 1/12 HP |
| Voltage Range | 115–230         |
| Rpm Range     | 1325–3450       |
| No. of Speeds | 1 or 3          |
| No. of Shafts | 1               |



## 42-FRAME AC MOTOR

|               |             |
|---------------|-------------|
| Frame Size    | 42          |
| HP Range      | 1/30 to 1/2 |
| Voltage Range | 115–230     |
| Rpm Range     | 1075–3450   |
| No. of Speeds | 1 or 3      |
| No. of Shafts | 1 or 2      |



## 48-FRAME AC MOTOR

|               |            |
|---------------|------------|
| Frame Size    | 48         |
| HP Range      | 1/6 to 3/4 |
| Voltage Range | 115–230    |
| Rpm Range     | 825–3450   |
| No. of Speeds | 1, 2 or 3  |
| No. of Shafts | 1 or 2     |



## 56-FRAME SPLIT PHASE MOTOR

|               |           |
|---------------|-----------|
| Frame Size    | 56        |
| HP Range      | 1/3 to 1  |
| Voltage Range | 115–230   |
| Rpm Range     | 1140–1725 |
| No. of Speeds | 1 or 2    |
| No. of Shafts | 1         |



# FAN, BLOWER & PUMP SOLUTIONS

Customized Solutions

An East West partnership allows for Original Equipment Manufacturer (OEM) customized solutions that fit your specific air and water moving application.

# Fan, Blower & Pump Customized Solutions



East West offers extensive in-house capabilities to support complete OEM air and water moving solutions. From PCBA design and manufacturing to plastic injection molding, tooling, metal and rubber component production, and wire harness assembly, we deliver fully integrated, turnkey products from our strategically located facilities around world.

## ACROSS MULTIPLE APPLICATIONS

Today, East West manufacturers pumps for a variety of applications that include food service equipment, customer OEM pump assemblies, centrifugal pumps, and submersible pumps. We also have the ability to design custom blowers around existing systems. Typical assembly applications we manufacture include water heaters, OEM custom blowers, air purification, HVAC, and health and fitness.

## LET'S START A CONVERSATION

Today, East West manufacturers millions of motors each year. We offer motor solutions from our catalog of products, or we'll partner with you to develop semi- to fully customized designs that meet both cost and performance requirements. No matter how unique the project, East West can help you solve it.





**ABOUT EAST WEST.** With motor manufacturing operations in China, Vietnam, Thailand, and India, East West has been leveraging regional supply chains since 2001 to optimize costs down to the component level, delivering the most competitive solutions for our customers. Our global footprint of nine facilities in seven countries allows us to manufacture complete products, including fully integrated motor assemblies, with exceptional efficiency and value.

Contact our OEM Motor  
Sales Team to learn more!



[OEMmotorsales@ewmfg.com](mailto:OEMmotorsales@ewmfg.com)



[www.ewmfg.com](http://www.ewmfg.com)

