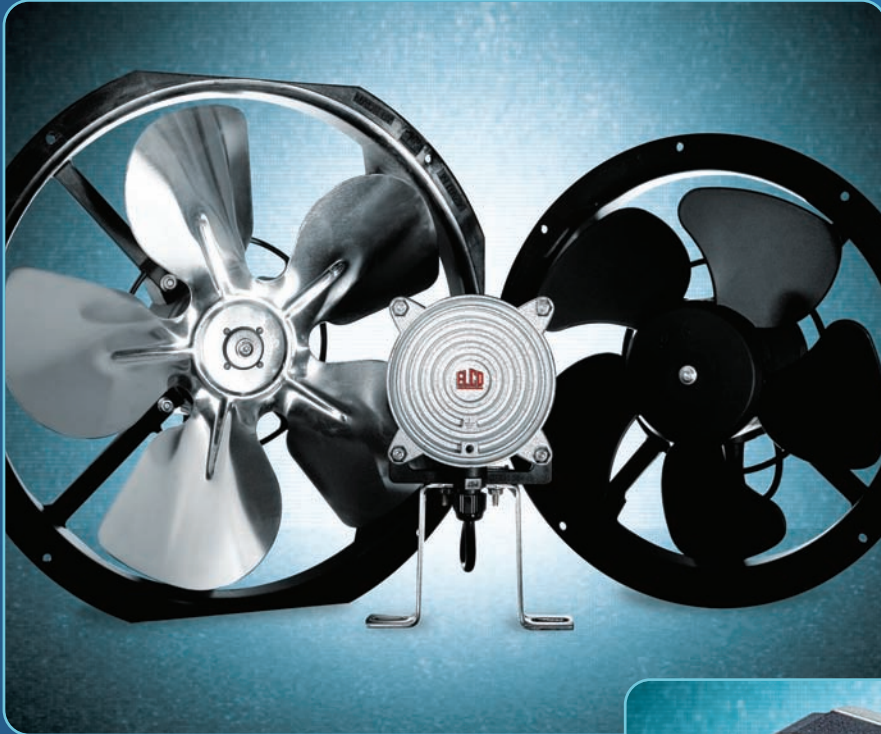


Motors & Fans

For the Refrigeration & HVAC industry



Motors & Fans for the commercial refrigeration industry

Widely used in supermarket display cases, bottle coolers, reach-in coolers & freezers, walk-ins, condensing units etc. Elco offers several models to cover a wide range of applications and fan motor efficiency.

ECM IP series—Electronically Commuted Motors

New generation of high efficiency motors with exceptional energy savings, compact design, high moisture protection and cooler operation. With an efficiency of up to 70%, 4-5 times higher than a traditional shaded pole, the ECM-IP motor is a drop-in replacement to the NU series, so an upgrade for higher efficiency is a snap.

Reduces your carbon footprint and electricity bill at the same time!

Main features:

- Output up to 20Watt (1/35HP)*, 115V or 230V, 60/50Hz, 1450/1550/1850rpm
- High life expectancy: lifetime lubricated sleeve bearings or sealed ball bearings (60,000+hrs)
- Insul. class B. Std. oper. temp. -22°F to 122°F (-30°C to 50°C), up to 140°F (60°C) on request
- Moisture Protection Class: IP65 & IP66, the best in the industry
- Mount standard or compact fan blades from 6 to 10in (154mm to 254mm) diameter

*up to 50Watt (1/15HP) model coming soon



NU series—Shaded Pole motors

Our most popular and long running motor. Backed by a 3 years limited warranty, the highest in the industry, it replaces standard unit bearing motors.

Main features:

- Output from 2 to 34 Watt (1/350 to 1/20 HP), 115V or 230V, 60/50 Hz, 1550/1350 rpm
- Lifetime lubricated sleeve bearings, ball bearings on request
- Insul. class B. Std. oper. temp. -40°F to 104°F (-40°C to 40°C). Insul. Class F available on request
- Mount std 5 petal aluminum or plastic fan blades, 6 to 12in (154mm to 300mm) diameter



BTM series—Permanent Split Capacitor motors (PSC)

Drop-in replacement for the NU Series. Available with sleeve or ball bearings, with multiple mounting options. Twice efficient than a shaded pole motor.

Main features:

- Output: from 6 to 50 watts (1/125 to 1/15 HP), 115 V or 230V, 60/50 Hz, 1550/1350 rpm
- Insul. class B. Std. oper. temp. -40°F to 104°F (-40°C to 40°C). Insul. Class F available on request
- Protection class IP20, IP42, IP44.
- Mount std 5 petal aluminum or plastic fan blades, up to 14in (350mm) diameter

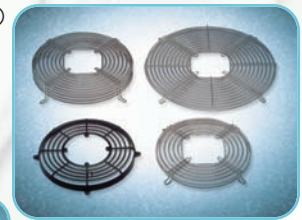
Accessories—For ECM, NU or BTM motors

- ① 5 petal aluminum and plastic fan blades, Ø 6 to 12in (154 to 300mm), 19° to 34° pitch, suction or blowing. Plastic model profile is designed to reduce airflow noise.
- ② Elco's plastic and metal shrouds (rings) are designed to improve fan performance and to support the motor. Allow cost reduction by replacing the ventury and the mounting bracket.
- ③ Elco's plastic and metal finger guards protect from fan blade rotation on motor side and act as support. Widely used on condensing units.



①

③



②

Motors & Fans for the HVAC industry

PSC motors

The Elco PSC motors are designed for fan coils, ducted air conditioning units and air moving applications. Available with open, air over or totally enclosed steel or aluminum shell, sleeve or ball bearings, 2, 4, 6 or 8 poles, single or multispeed, standard insulation class B or F, single or three phase. They come with single or double shaft, Intrusion Protection grade IP20, IP42 or IP44 and with multiple mounting options for direct driven blower or axial fan applications. All models are thermally protected.



BT series

Frame □ 3.2in (82mm)

- Output: 1/80 to 1/12HP (10 to 60 Watt)
- For direct driven centrifugal blowers
- Or axial fan blades up to 14in diameter



RG series

Frame Ø 4in. (102 mm)

- Output: 1/20 to 1/6HP (15 to 100Watt)
- For direct driven centrifugal blowers
- Or axial fan blades up to 16in diameter



FG series

Frame Ø 4.8in (122 mm)

- Output: 1/12 to 1/2HP (60 to 375Watt)
- For direct driven centrifugal blowers
- Or axial fan blades up to 18in diameter



HO series

Frame Ø 5.7in (145 mm)

- Output: 1/2 to 1.5HP (375 to 1100Watt)
- For direct driven centrifugal blowers
- Or axial fan blades up to 20in diameter

Axial Fans

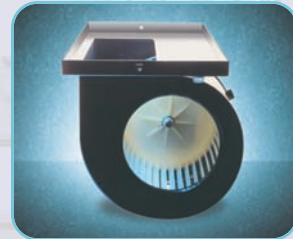


CF series

This Compact Fan series includes 5 petal fan blades from 12 to 16in diameter (300 to 400mm) and features a choice of motors ranging from 1/12 to 1/6 HP (60 to 120 watt), 4, 6 or 8 poles, single or three phase. Intrusion Protection class IP42 or IP55, insulation class B or F. Standard features include aluminum end shields and ball bearings. Comes with optional metal finger guard and connection box. Ultra efficient and whisper quiet thermoplastic fan blade model is also available.

Centrifugal blowers

These direct driven centrifugal blowers are powered by ELCO's PSC motors. Designed for fan coils units, air conditioning and air handling units. Powered by multiple speeds, single or three phase motors, they cover a wide range of airflow requirements.



CO series

Double inlet with aluminum or thermoplastic wheels and thermoplastic or galvanized steel housings. This particularly low noise range can be fitted with 1 to 4 blowers mounted on a single galvanized steel tray. Suitable for fan coil or ducted units with air flow from 100 to 2,500 CFM (170 to 4,500 cu.m./h).

Other products



FR series — Gear Motors

These custom built gear motors are designed for slow and powerful motion such as for slush machines and cold drink dispensers. Shaft speed of 3 or 30 RPM and an output torque of 22 lbf.ft. (30 Nm) or 5 lbf.ft. (7 Nm). This product range is specially designed and customized for each OEM application. Ask us if we can help you!



CN series

C-Frame 2 pole shaded pole motor. Designed for small size fans for evaporating and condensing units. 1 to 10W output, 115V or 230V. Standard moisture protection IP20, NO Frost IP44 version also available. CE certified.



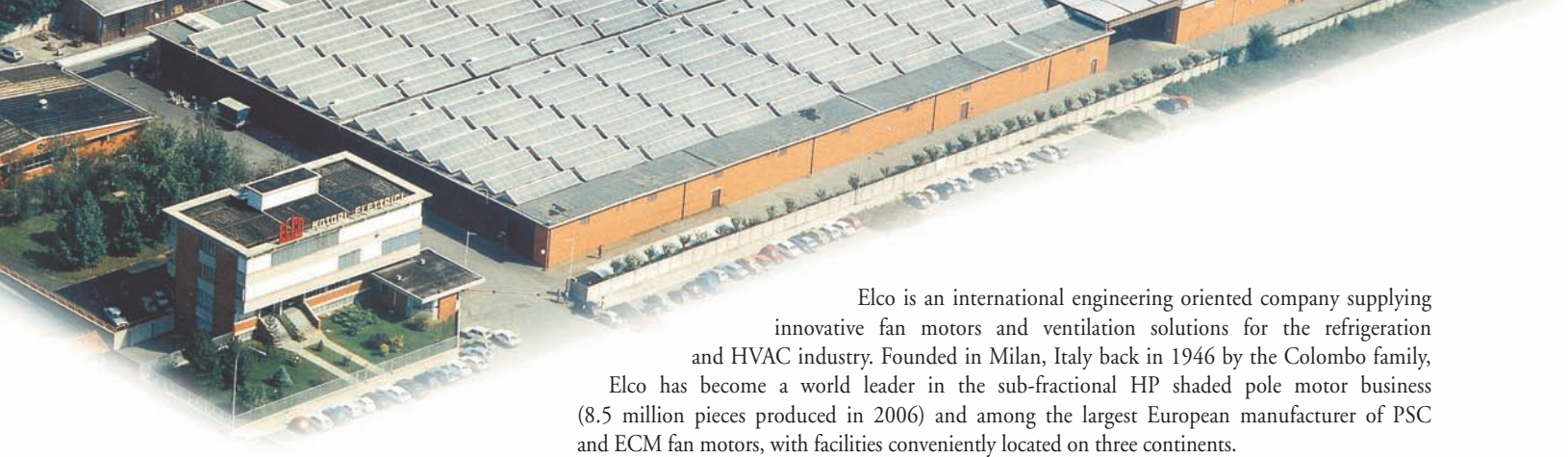
M58 series

2 pole shaded pole motor with thermoplastic housing, used in specific evaporating applications (gelato freezers, etc) with low CFM requirements. 1 - 2W output, 115V or 230V, for 4 to 6in fan blades. CE & VDE certified.



DD series

Our DD series feature forward curved wheels. With models ranging from 7/7 to 12/12 in. and air flow up to 4,000 CFM (7,000 cu.m./h); motors from 1/12HP to 1.5HP. Mounting feet, bolts and rubber vibration dampers are included. Air outlet coupling flanges available as option.



Elco is an international engineering oriented company supplying innovative fan motors and ventilation solutions for the refrigeration and HVAC industry. Founded in Milan, Italy back in 1946 by the Colombo family, Elco has become a world leader in the sub-fractional HP shaded pole motor business (8.5 million pieces produced in 2006) and among the largest European manufacturer of PSC and ECM fan motors, with facilities conveniently located on three continents.

- CANADA:** ELCO MOTORS INC.
- MEXICO:** ELCO MOTORES DE MEXICO S. DE R.L. DE C.V.
- BRASIL:** ELCO DO BRASIL LTDA
- ITALY:** ELCO S.p.A.
- U.K.:** ELCO DIRECT LIMITED
- SPAIN:** ELCO MOTORES ESPAÑA SA
- U.A.E.:** ELCO MOTORS FZCo
- SINGAPORE:** ELCO MOTORS ASIA PTE LTD
- CHINA:** ELCO CHINA LIMITED
- RUSSIA:** ELCO MOTORS LTD
- AUSTRALIA:** ELCO MOTORS AND FANS PTY LTD

Committed to continuous product development and innovation, Elco is proudly offering its 2nd generation of high efficient electronically commuted fan motors (ECM-IP Series) especially designed for commercial refrigeration applications, an effective contribution to energy saving and Carbon Dioxide emissions reduction.

Elco Motors Inc., North American division of the Elco Group, was founded in the early nineteen nineties as a sales branch to tap into the North American market and provides product customization, logistics, customer service and sales support from its Canadian facility, conveniently located near the US border.

Elco is your global supplier of fan solutions covering over 80 countries around the world through a global network of sales branches, agents and distributors. The notion of a quality product at a competitive price has not been forgotten over the years. To this day, Elco operates with the same principles of excellence that were established back in 1946.



ELCO Motors Inc.

Distributor:



275 Liberte Ave., Candiac (Quebec) Canada J5R 3X8
 Toll free: **1-877-FAN-ELCO** (1-877-326-3526)
 Local Ph.: **450 633-1515** • Fax.: 450 633-0851
sales@elcomotors.com • www.elcomotors.com

