# PSC Internal Capacitor
## Unit Bearing Motors

## Applications
Our PSC internal capacitor unit bearing motors are primarily used in commercial refrigeration applications, both evaporator and condenser, but can be used in any application demanding dependability with output ratings between 1 – 9 watts.

## Optimize your Performance
All of our PSC internal capacitor unit bearing motors can be sold with a variety of mounting brackets and fan blades in order to optimize airflow and system efficiency.

## Electrical Summary
- Voltage: 115 or 230 V
- Output: 1 – 9 watts
- Efficiency: ~45% peak
- Speed Range: 1300 – 1550 RPM
- Speeds: 1
- Rotation: CW, CCW, or reversible (determined from the lead end of the motor)

## Mechanical Summary
- Type: 3.3" PSC aluminum or cast iron frame unit bearing
- Shaft: 1/4" x 20 thread is standard. Optional features include flatted end, smooth end, and 5/16" diameter shaft. (in cast iron frame)
- Enclosure: Aluminum or Cast Iron (totally enclosed)
- Bearing: Unit bearing
- Bearing Oil: (ISO grades 15, 32, or 68) high quality paraffinic based oil selected for excellent oxidation resistance, wear protection, protection against rust and corrosion, and resistance to foaming. Also available, an oil with optimum flow characteristics at sub-sero temperatures. (ISO grades 10/15 or 68) synthetic diester-based lubricant formulated to offer extended lubrication over a wide temperature range and minimize wear.
- Mounting: Five .150" diameter cored holes on rear (alumimum only), three #8-36 tapped through holes (cast iron only), and optional 2 side mounting bosses for pedestal mounting (both aluminum and cast iron)
- Operating Position: Horizontal shaft (+/- 15°), optional all-angle, or vertical shaft up
- Leads: Standard 18 gauge, 2 conductor. Lead cord may be terminated with 1/2" stripped wire, in-house molded plugs, eyelets, 1/4" quick connects, or special terminals. Other customized lead options are available.
- Capacitor: Internal

## Environmental Summary
- Storage Temps: -40 to 80° C ambient (dependants on selected oil)
- Operating Temps: -40 to 55° C ambient (depends on selected oil)
- Design Life: 12 years, 100,464 hours on time