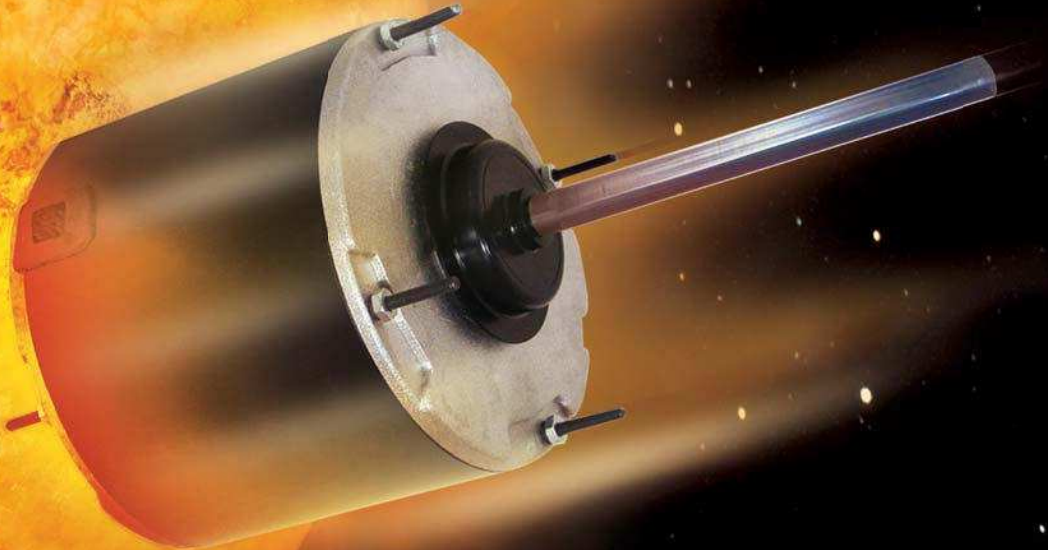




# HeatMaster® Ultra

“The Future is Now”



A Regal Brand

**REGAL**

# HeatMaster® Ultra – Features

- 1. 80°C (176°F) Max Ambient**  
UL and CSA rated for 80°C max ambient temperatures
- 2. Class F Insulation**  
UL and CSA approved, non-hygroscopic Class F insulation system achieves superior dielectric strength for long thermal life
- 3. Bearings**  
Double sealed anti-friction ball bearings packed with ultra high temperature synthetic grease for long reliable life
- 4. Speed Engineered®**  
Suitable for use with most speed control devices
- 5. Windings**  
100% copper windings and optimum winding design minimize losses resulting in higher efficiencies, increased motor life and lower operating cost
- 6. Rheem and Trane Mounting**  
Supplied with pre-drilled holes in the shell and lead end, end frame for easy mounting. Mounting screws are supplied as an added convenience
- 7. TEAO**  
Totally Enclosed motors suitable for all angle mounting
- 8. Reversible**  
Supplied with water resistant reversing plugs for quick and easy rotation change
- 9. High Temperature**  
UL and CSA approved automatic overload reduces nuisance trip outs
- 10. Leads**  
48" color coded high temperature leads for easy identification and installation
- 11. Water Seal**  
Water resistant rubber grommet at lead opening eliminates water seepage into the motor
- 12. Efficiency**  
Conservationist: energy-efficient PSC designs
- 13. Bearing Protection**  
Large high temperature nylon glass filled shaft slinger keeps water and dirt out of the motor bearings
- 14. Rotor Coating**  
Corrosion resistant coating on rotor core for longer motor life
- 15. Drain Plugs**  
Easy-to-remove drain plugs in each end frame allows accumulated condensation to be expelled quickly
- 16. Mounting Bolts**  
Adjustable thru-bolts with extensions on each end provide maximum mounting versatility
- 17. Fasteners**  
Extra mounting nuts are supplied to allow for quick installations
- 18. Diagrams**  
Large, easy-to-read connection diagrams are attached to each white lead wire
- 19. High Torque**  
Ultrahigh torque designs handle even the heaviest loads
- 20. Service Factor**  
Designed with up to 50% more horsepower for replacing motors with large high-pitch fan blades or motors in low voltage applications
- 21. Extended Warranty**  
All HeatMaster motors carry a 3-year warranty from date of manufacture or 2 years from the date of installation
- 22. Approvals**  
UL recognized and CSA certified

# HeatMaster® Ultra – Specifications

## Features:

- 80°C (176°F) max ambient
- Speed Engineered®, for speed control duty
- Double sealed ball bearings with high temperature synthetic grease
- Energy-efficient PSC design
- 3-year warranty from date of manufacture date code, or 2 years from the date of installation
- High-temperature UL/CSA approved overload protector
- UL/CSA approved Class F insulation
- Water-resistant reversing plug
- All-angle mount
- Mounts by belly band, adjustable extended thru-bolts, or Rheem/Trane mounting holes, with screws supplied
- Lead length 48"
- 60 Hertz
- Totally enclosed
- Continuous duty, air over

## Class F Insulation – 80°C (176°F) MAX AMBIENT

Stock No.	HP	Volts	Amps	RPM	Speeds	Frame Size	Rotation	Capacitor	Bearings	Shell Length	Shaft	Wt.
<b>825 RPM - 208-230 Volts</b>												
FE1028SU	1/4	208-230	1.2	825	1	48	Reversible	5MFD / 370V	Ball	4.61"	1/2" x 6-1/2"	15.0
FE1038SU	1/3	208-230	1.6	825	1	48	Reversible	7.5MFD / 370V	Ball	5.11"	1/2" x 6-1/2"	15.3
FE1058SU	1/2	208-230	2.3	825	1	48	Reversible	10MFD / 370V	Ball	5.61"	1/2" x 6-1/2"	15.4
<b>1075 RPM - 208-230 Volts</b>												
FE1026SU	1/4	208-230	1.9	1075	1	48	Reversible	5MFD / 370V	Ball	4.36"	1/2" x 6-1/2"	13.0
FE1036SU	1/3	208-230	2.5	1075	1	48	Reversible	7.5MFD / 370V	Ball	4.86"	1/2" x 6-1/2"	15.9
FE1056SU	1/2	208-230	3.8	1075	1	48	Reversible	10MFD / 370V	Ball	5.36"	1/2" x 6-1/2"	18.0
FE1076SU	3/4	208-230	5.1	1075	1	48	Reversible	15MFD / 370V	Ball	5.61"	1/2" x 6-1/2"	18.3
<b>1075 RPM - 460 Volts</b>												
FEH1026SU	1/4	460	0.9	1075	1	48	Reversible	7.5MFD / 370V	Ball	4.74"	1/2" x 6-1/2"	12.7
FEH1036SU	1/3	460	1.2	1075	1	48	Reversible	7.5MFD / 370V	Ball	5.24"	1/2" x 6-1/2"	15.4
FEH1056SU	1/2	460	1.5	1075	1	48	Reversible	10MFD / 370V	Ball	5.61"	1/2" x 6-1/2"	19.0

## 4-in-1®

### Multi-horsepower Replacement Motors

Easy installation, one capacitor (7.5MFD / 370V) and two leads.

Stock No.	HP	Volts	Amps	RPM	Speeds	Frame Size	Rotation	Capacitor	Bearings	Shell Length	Shaft	Wt.
ORM5488BU	1/3-1/8	208-230	1.8	825	1	48	Reversible	7.5MFD / 370V	Ball	4.86"	1/2" x 6-1/2"	15.8
ORM5458BU	1/3-1/6	208-230	1.9	1075	1	48	Reversible	7.5MFD / 370V	Ball	4.11"	1/2" x 6-1/2"	11.8

**Note:** Suitable for use with most solid state speed control devices.

It is the responsibility of the installer to properly adjust the speed control to the motor for the specific application. The correct voltage settings are application specific and unique to each motor. Failure to perform proper set up can lead to substandard performance and/or failure of the system components. Do not set the voltage at the motor to less than ½ the motors rated voltage.

# HeatMaster® Ultra

“The Future is Now”

## The HeatMaster Story

When we introduced our original HeatMaster line of 70°C motors in 2006, they were met with great enthusiasm by our customers. HeatMaster motors are manufactured with class F insulation which allows us to rate them for 70°C max ambient conditions. HeatMaster motors were also built with many other contractor friendly features such as extra-long line leads, easy to read connection labels and extra mounting nuts and screws supplied with each motor. The HeatMaster line has proven to be so popular that it is used in condenser fan applications from Alaska to Florida and it's not just for high ambient applications but can be used anywhere a dependable, reliable motor is desired.

In our unending pursuit to develop the best replacement motors for our partners, we set our engineers to work to take HeatMaster to the next level of performance and application versatility. The result of this pursuit is HeatMaster Ultra. HeatMaster Ultra has all the features that made the original HeatMaster motors so popular combined with several new features to make it even more versatile and dependable.

## Superior Features

In addition to all the features and benefits of the original HeatMaster motor HeatMaster Ultra motors also have the following added features:

- UL and CSA tested for **80°C (176°F) ambient conditions...** another first from Century.
- Ultra High temperature **synthetic bearing grease** in double sealed ball bearings to make sure the bearings can stand up to the most severe conditions.
- **Rheem and Trane holes** pre-drilled in the end frame with mounting screws provided. As manufactures change their mounting configurations it's important for replacement motor designs to remain current.

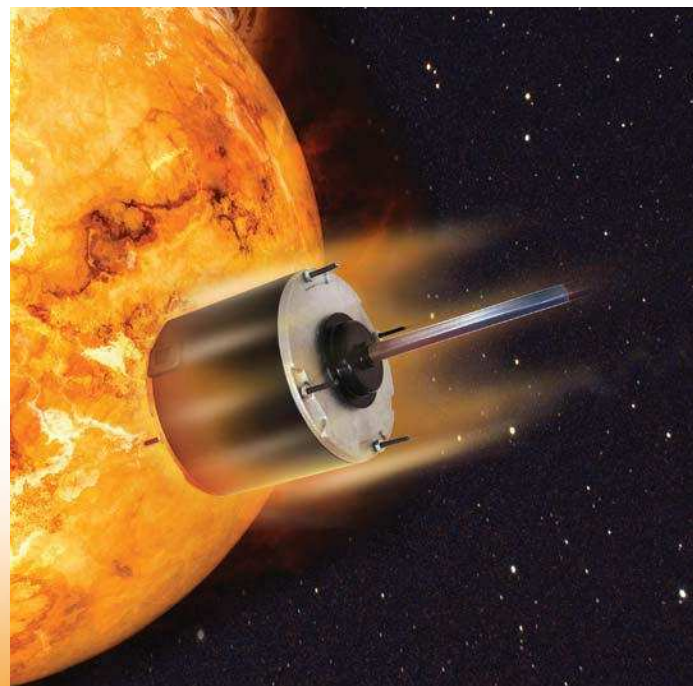
- Speed Engineered®, HeatMaster Ultra motors are designed to operate with most **speed control devices** frequently used with head pressure sensors.
- Class F insulation, high temperature thermal overload protectors and high torque designs mean HeatMaster Ultra motors will handle even the most extreme applications.

## New HeatMaster Ultra Line

Our customers realize that when they purchase a Century motor, they have purchased a “field-proven” motor that will meet, and often exceed, their installation and performance needs. It's that special combination of experience, expertise and matchless workmanship that has allowed us to offer the most advanced replacement motor available in the industry. The new HeatMaster Ultra line is now available exclusively from your authorized Century® distributor.

## 3-Year Warranty

We are so confident in the design and quality of the HeatMaster® Ultra line that we back it with a 3-year warranty.



# HeatMaster® Ultra – Features

Designed and Engineered  
**FOR THE TOUGHEST** Applications!



# HeatMaster® Ultra

## Key Features



### CLASS F INSULATION

80°C (176°F)



### SPEED ENGINEERED®

For use with speed controls



### SYNTHETIC BEARING GREASE

For High Temp Applications



### RHEEM/TRANE

Mounting Holes



Formerly A. O. Smith Electrical Products Company

Regal Beloit America, Inc.  
1325 Heil Quaker Blvd.  
LaVergne, TN 37086  
PH: 800-672-6495  
FAX: 800-468-2062

[www.hvac-motors.com](http://www.hvac-motors.com)

©2013 Regal-Beloit Corporation Bulletin 6025-U 5/2013

A Regal Brand

**REGAL**