

# AIRIUS

## THE THERMAL EQUALIZER

US Patent No. 7381129B2

Design Patent 514,688

Other US & Foreign Patents Pending

[www.airius.us](http://www.airius.us)

### AIRIUS Model **45** INFORMATION

READ AND SAVE THESE IMPORTANT  
*OPERATION INSTRUCTIONS*

THIS MODEL IS SUITABLE FOR:  
COMMERCIAL OR INDUSTRIAL USE ONLY

**For installation information please refer to the ‘Installation Guide’  
which can be found on the Airius website - [www.airius.co.uk](http://www.airius.co.uk)**

#### **THE MOTOR IS THERMALLY PROTECTED**

SHUT OFF is AT 275°F (135°C) & RESET is AT 255°F (125°C)

**Use common sense when using this product  
and /or any electrical device**

ALWAYS WEAR EYE PROTECTION WHEN SERVICING THIS  
OR ANY ELECTRICAL APPLIANCE.

#### **ELECTRICAL INFORMATION**

MODEL No.-Voltages-Motor Type /// WATTS @ 50 / 60 Hz

45- 45-115V (230V, 277V)-PS-P4 /// 42 W / 45 W

45- 45-115V (230V, 277V)-PS-P2 /// 125 W / 150 W

115V (230V, 277V)-EC (0-10vdc variable speed) /// 0 – 150 W

115V (230V, 277V)-EL (LISA variable speed) /// 0 – 150 W

**THE AIRIUS<sup>®</sup> THERMAL EQUALIZER**  
**MODELS: 10, 15, 25, 45, 60 & 100: ALL VOLTAGES**

**120V MODELS:**

ARE SUPPLIED WITH A POLARIZED/GROUNDED PLUG MOLDED TO A 6 FT (1.8 M) CORD. TO REDUCE THE RISK OF ELECTRICAL SHOCK, THIS PLUG IS INTENDED TO FIT IN A POLARIZED/GROUNDED OUTLET ONLY ONE WAY. IF THE PLUG DOES NOT FIT FULLY IN THE OUTLET, CONTACT A QUALIFIED ELECTRICIAN.

**DO NOT ATTEMPT TO DEFEAT THIS SAFETY FEATURE.**

**230V & 277V MODELS:**

ARE SUPPLIED WITH A 6 FT (1.8 M) CORD WITH A 3-WIRE PIGTAIL FOR ATTACHMENT TO A SINGLE PHASE PLUG RATED FOR THE CORRECT VOLTAGE; NEMA TYPE: # L6-230V, #L7-277V, WIRE COLOR CODE: UL / CSA: BLACK-LIVE /WHITE-NEUTRAL /GREEN-GROUND CE: BROWN-LIVE /BLUE-NEUTRAL /GREEN-YELLOW-EARTH.

**WARNING!** TO PREVENT ELECTRICAL SHOCK AND/OR INJURY, **UNPLUG/DISCONNECT** UNIT FROM POWER SOURCE **BEFORE** YOU MOVE UNIT, SERVICE UNIT, OR REMOVE ANY PART OF HOUSING.

**WARNING!** TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT USE MODELS 10, 15 & 25 EQUIPPED WITH SHADED POLE MOTORS OR MODELS 45, 60 & 100 W/ PERMANENT SPLIT CAPACITOR MOTORS (P.S.C.) WITH ANY UNAPPROVED *SOLID-STATE* SPEED CONTROL DEVICE. MODELS 45, 60 & 100 WITH ELECTRICALLY COMMUTATED MOTORS (LABELED AS EC or EL) ARE CAPABLE OF VARIABLE SPEEDS WITH THE PROPER CONTROLS. CONTACT THE MANUFACTURER FOR ADDITIONAL INFORMATION REGARDING VARIABLE SPEED CONTROLS AND OPTIONS.

**DO NOT** CARRY THE AIRIUS UNIT BY THE CORD. **DO NOT** USE THE CORD AS A HANDLE. **DO NOT** USE THE CORD TO ATTACH OR HANG THE PRODUCT. BE SURE TO GRASP THE PLUG, NOT THE CORD, WHEN DISCONNECTING THIS UNIT FROM AN ELECTRICAL OUTLET.

**DO NOT** USE THIS PRODUCT IF IT HAS A DAMAGED CORD, FAULTY PLUG, OR ANY BROKEN HOUSING OR MOTOR COMPONENT. IF THE SUPPLY CORD, PLUG, MOTOR OR HOUSING IS DAMAGED, IT MUST BE SERVICED OR REPLACED BY THE MANUFACTURER, ITS SERVICE AGENTS OR SIMILARLY QUALIFIED PERSONS TO AVOID A **HAZARD**.

**TO PREVENT DAMAGE, WHICH MAY RESULT IN FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR DIRECT MOISTURE. DO NOT IMMERSE PRODUCT INTO WATER OR ALLOW WATER TO DRIP INTO THE MOTOR HOUSING. DO NOT INSTALL OUTDOORS OR IN AN AREA OPEN TO THE WEATHER. SHUT-OFF POWER TO A WET MOTOR AT SOURCE BEFORE SERVICING.**

SPINNING BLADES MAY INFLICT EYE OR PHYSICAL INJURY. ALWAYS REPLACE A DAMAGED BLADE. **DISCONNECT** UNIT FROM POWER SOURCE FIRST. CONTACT MANUFACTURER FOR REPLACEMENT BLADES. BLADES ARE METAL , SHARP AND FAST.

**CAUTION!** SOME AIRIUS PRODUCTS HAVE AN UNGUARDED IMPELLER/FAN BLADE. **DO NOT** USE IN LOCATIONS READILY ACCESSIBLE TO PEOPLE OR ANIMALS. BLADES MAY INFLICT INJURY WHEN MOVING OR STATIONARY.

TO REDUCE THE RISK OF INJURY TO PERSONS, INSTALL PRODUCT SO THAT **BOTTOM** OF MOVING FAN BLADE OR THE **LOWEST MOVING PART** IS AT LEAST 8.2 FT (2.5 M) ABOVE THE FLOOR OR GRADE LEVEL.

THE MOTOR IS **THERMALLY PROTECTED**; OVERHEATING WILL CAUSE THE MOTOR TO STOP OPERATING. THE MOTOR **MAY** RESTART ONCE NORMAL OPERATING TEMPERATURES ARE ACHIEVED. IF MOTOR FAILS TO RESTART, DISCONNECT MOTOR FROM ELECTRIC SOURCE AND CONTACT MANUFACTURER. **DO NOT** DISABLE THIS SAFETY DEVICE OR OVERRIDE THIS SAFETY FEATURE, DOING SO WILL **VOID** THE WARRANTY.

**DO NOT** POSITION PRODUCT NEAR FURNACES, FIREPLACES, STOVES, OR OTHER HIGH TEMPERATURE HEAT SOURCES. **DO NOT** POSITION AIRIUS UNIT SUCH THAT THE DOWNWARD AIR COLUMN CREATED BY THE AIRIUS WILL BE DIRECTLY BISECTED BY ANOTHER SOURCE OF AIR FLOW, SUCH AS FROM ANOTHER FAN OR FROM AN OPEN SUPPLY REGISTER. **DO NOT** POSITION THE UNIT CLOSE TO OTHER OBJECTS THAT WILL INTERFERE WITH FAN OPERATION. **DO NOT** ALLOW FAN BLADES TO COME INTO CONTACT WITH OBJECTS THAT CAN LOCK OR INHIBIT THE ROTOR OPERATION.

[WWW.AIRIUS.US](http://WWW.AIRIUS.US)

FOR ADDITIONAL INFORMATION ABOUT  
**THE AIRIUS® THERMAL EQUALIZER**  
AND OTHER PRODUCTS /ACCESSORIES

**SERVICE AND INSTALLATION:** NO LUBRICATION IS REQUIRED. BEARINGS ARE SEALED. BAIL ADJUSTMENT CAN BE MADE WITH A T-30 TORX DRIVER/WRENCH, OR A 5/32" HEX WRENCH MAY BE USED. OTHER TOOLS FOR SERVICE: T-20 TORX (7/64" HEX) & T-25 TORX (1/8" HEX). & A # 2 PHILLIPS SCREW DRIVER

THE AIRIUS UNIT IS DESIGNED TO BE USED WITH ONLY THE ELECTRICAL VOLTAGE IDENTIFIED ON THE LABEL LOCATED IN THE NOZZLE AND ON BOTTOM OF THE MOTOR. ANY OTHER VOLTAGE COULD DAMAGE THE MOTOR AND CREATE AN ELECTRICAL HAZARD.

**VARIABLE SPEED CONTROLS:** SEE ADDITIONAL INSTRUCTIONS FOR VARIABLE SPEED CONTROLS, WIRING AND PROGRAMMING INCLUDED WITH THIS PAMPHLET. CONTACT THE MANUFACTURER FOR ADDITIONAL INFORMATION REGARDING VARIABLE SPEED CONTROLS FOR MODELS 45, 60 & 100.

**IMPORTANT:** PLEASE INSTALL WITH HANGING DEVICE OR FASTENER RATED FOR A MINIMUM **60 POUNDS (27 KGS)**. USE CARE WHEN POSITIONING THE UNIT. MAKE SURE THE AIRFLOW IS UNOBSTRUCTED INTO THE TOP OF THE UNIT AND THAT THE DOWNWARD AIRFLOW IS UNOBSTRUCTED AND ALLOWED TO REACH THE FLOOR TO MAXIMIZE PERFORMANCE.

**MODEL NUMBERS** REFERENCE MAXIMUM MOUNTING HEIGHTS IN FEET; 10 FT = APROX 3 METERS. EACH UNIT IS DESIGNED TO COVER APROX 1000-2000 SQ FT (93-185 M<sup>2</sup>) OF FLOOR AREA OR A MAX 50 FT (15 M) DIAMETER CIRCLE.

**CLEANING: DISCONNECT** UNIT FROM POWER SOURCE FIRST TO PREVENT ELECTRICAL SHOCK AND TO AVOID INJURIES FROM SPINNING BLADES. **CAUTION:** STATIONARY BLADES CAN CAUSE INJURY! YOU MAY CLEAN THE PLASTIC HOUSING WITH A DAMP WARM CLOTH, USING A MILD DETERGENT ONLY.

**DO NOT** USE PETROLEUM PRODUCTS, THINNERS, SOLVENTS, AMMONIA, ALCOHOLS, OR OTHER CHEMICALS TO CLEAN ANY PART OF THE AIRIUS UNIT.

**Manufactured/Distributed in USA/NA by AIRIUS® LLC**

811 South Sherman St, Longmont, CO 80501 USA

Tel: (303) 772-2633 Fax: (303) 772-8276 [www.airius.us](http://www.airius.us)

**Distributed in the Europe (EU) by AIRIUS EUROPE LTD**

Holwell Farm, Cranborne, Dorset BH21 5QP - UK

Tel: +44 (0) 1202 554200 [www.airius.co.uk](http://www.airius.co.uk)