

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Dayton® AC Axial Fans

Description

Dayton AC Axial Fans are single speed units used for spot cooling where space is limited. They are widely used in computers, copy machines, electronic instrumentation, cabinet cooling, machine tool products, and solar systems. They are field interchangeable with most other axial fans. Ball bearing units are all position mount. Molded polycarbonate fan blade is driven by a thermally protected Permanent Split Capacitor, ball bearing motor. Operating ambient temperature ranges from -10° to +70°C. Optional finger guard and cord set are available as accessories (except 2RTK7, 2RTK8 have 12" leads and 3VU67 and 3VU71 have 27" leads) and can be ordered separately.

NOTE: Not for use with adjustable speed controls.

Specifications & Performance



Figure 1

Specifications							Performance						
Model	AC Volts Req'd	Overall Dimensions (in.)				Mounting Hole Dimensions on Center (in.)	Motor Type	Bearing Type	CFM Air Delivery†	RPM	Watts	Amps	* SIL db
		Dia.	H	W	D								
2RTE3	115	–	5 ¹¹ / ₁₆	6 ¹ / ₄	2	6 ¹ / ₈	PSC	Ball	239	3200	27	0.26	58
2RTK7	115	–	5 ¹¹ / ₁₆	6 ¹ / ₄	2	6 ¹ / ₈	PSC	Ball	200	2950	36	0.48	55
2RTK8	230	–	5 ¹¹ / ₁₆	6 ¹ / ₄	2	6 ¹ / ₈	PSC	Ball	200	2950	36	0.24	55
2RTK9	115	10	–	–	3 ¹ / ₂	9 ¹ / ₁₆	PSC	Ball	870	2900	120	1.10	70
3VU63	230	6 ¹ / ₄	–	–	2	6 ¹ / ₈	PSC	Ball	239	3200	26	0.11	58
3VU67	230	10	–	–	3 ¹ / ₂	9 ¹ / ₁₆	PSC	Ball	665	1600	30	0.13	52
3VU69	115	6 ¹ / ₄	–	–	2	6 ¹ / ₈	PSC	Ball	239	3200	27	0.23	58
3VU70	230	–	5 ¹¹ / ₁₆	6 ¹ / ₄	2	6 ¹ / ₈	PSC	Ball	239	3200	26	0.11	58
3VU71	115	10	–	–	3 ¹ / ₂	9 ¹ / ₁₆	PSC	Ball	665	1600	23	0.23	52
4WT42A	115	–	5 ¹¹ / ₁₆	6 ¹ / ₄	2	6 ¹ / ₈	PSC	Ball	239	3200	27	0.23	55
4WT43A	230	–	5 ¹¹ / ₁₆	6 ¹ / ₄	2	6 ¹ / ₈	PSC	Ball	239	3200	27	0.11	55
4WT44A	115	10	–	–	3 ¹ / ₂	9 ¹ / ₁₆	PSC	Ball	665	1600	23	0.23	52
4WT45A	230	10	–	–	3 ¹ / ₂	9 ¹ / ₁₆	PSC	Ball	665	1600	30	0.13	52

NOTE: All data based on 60 Hz operation. When operated on 50 Hz, a decrease of approximately 20% will occur in flow rate performance.

(†) At free air.

(*) SIL db - Speech interference Level in decibels. This figure represents an average of the sound pressure levels in the 500, 1000, and 2000 Hz octave bands.

General Safety Information

⚠ WARNING Disconnect power before installing or servicing

1. Follow all local electrical and safety codes, the National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA) in the United States.

2. Fan must be securely and adequately grounded. This can be accomplished by connecting a separate ground wire to the fan frame with a self-threading screw (not furnished) in the hole provided.

3. Lock and tag power disconnect to prevent unexpected application of power.

4. Guard all moving parts.

5. Protect the power cable from coming in contact with sharp objects.

6. Do not kink power cable and never allow the cable to come in contact with oil, grease, hot surfaces, or chemicals.

7. Make certain that the power source conforms to the requirements of your equipment.

Dayton® AC Axial Fans

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General Safety Information (Continued)

⚠ WARNING *Do not use in
explosive
atmospheres.*

Installation

1. Mount fan in the position most desirable to your needs.
2. Secure fan in place with screws and tinnerman clips or nuts and bolts (Mounting hardware not included.)

WIRING

Refer to Grainger Catalog for a complete list of cordsets. Plug cordset into fan and connect leads to 115 volt or 230 volt power source. Models 2RTK7 and 2RTK8 have 12" leads and 3VU67 and 3VU71 have 27" leads that connect to 115 volt and 230 volt power, as noted on nameplate.

⚠ CAUTION *Exposed wires
should not come in
contact with fan housing.*

1. Fan must be adequately grounded. This can be accomplished by connecting a separate ground wire to the fan housing with a #10 self-threading screw (not furnished) in the hole provided.

Operation

Dayton unit bearing axial fans are designed to operate optimally in horizontal airflow position. Arrows stamped on housing indicate direction of blade rotation and airflow. Ball bearing axial fans are designed to mount in any position.

Maintenance

⚠ WARNING *Always disconnect
power supply before
inspecting the axial fan or working with
the unit for any reason.*

Axial fan cannot be field serviced. Replace entire unit if defective.

NOTE: No replacement parts available.

Accessories

Refer to Grainger Catalog for complete list of axial fan accessories.