

20646



OPERATING INSTRUCTIONS & PARTS MANUAL

BLOWERS

MODELS 2C646A AND 2C647

FORM 5S1411
02280
0393/036/5M

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.

Description

The Dayton blower, finished in black enamel, is a single speed unit designed specifically for heating, cooling, exhausting, ventilating and drying. It is field interchangeable with most direct-drive blowers and can be mounted in any discharge position.

Model 2C646A is driven by a brush-type permanent magnet DC motor. The negative ("−") lead is 36" long and the positive ("+") lead is 8" long.

Model 2C647 is driven by a shaded pole motor and is equipped with automatic reset thermal protection which automatically shuts off the motor should excessive temperatures develop.

CAUTION: Reversing the polarity will cause the wheel to run backwards and cause damage to the motor.

MODELS 2C646A AND 2C647

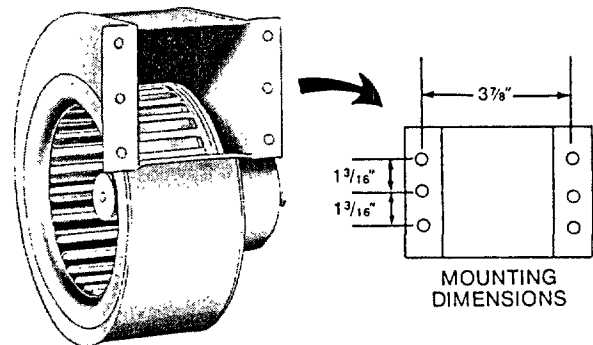


Figure 1

Specifications

MODEL	WHEEL SIZE		MOTOR			OUTLET OPENING		OVERALL DIMENSIONS▲			CFM AIR DELIVERY AT RPM AND STATIC PRESSURE (SP) SHOWN						WATTS *	AMPS *	
	DIA	W	HP	SPD	PWR REQD	H	W	H	W	D	FREE AIR	0.1" SP	0.2" SP	0.3" SP	0.4" SP	0.5" SP			RPM
2C646A	5 1/4"	2 1/2"	1/35	1	12V (DC)	3 1/8"	3"	8"	6"	7 7/16"	FREE AIR	0.1" SP	0.2" SP	0.3" SP	0.4" SP	0.5" SP	RPM	62	5.1
											176	170	165	159	153	148	1875		
2C647	5 1/4"	2 1/2"	1/70	1	115V 50/60 Hz	3 1/8"	3"	8"	5 7/16"	7 7/16"	FREE AIR	0.1" SP	0.2" SP	0.3" SP	0.4" SP	0.5" SP	RPM	62	0.65
											134	126	117	107	96	79	1500		

(▲) See Figure 1 for mounting dimensions. *At Free Air
(△) Wheel rotation is clockwise when facing motor shaft.

NOTE: FOR MODEL 2C647 ONLY — All data based on 60 Hz operation. When operated on 50 Hz, a decrease of approximately 20% will occur in flow rate performance.

General Safety Information

- Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).
- Motor must be securely and adequately grounded. This can be accomplished by wiring with a grounded, metal-clad raceway system, by using a separate ground wire connected to the bare metal of the motor frame, or other suitable means.
- Always disconnect power source before working on or near a motor or its connected load. If the power disconnect point is out-of-sight, lock it in the open position and tag to prevent unexpected application of power.
- All moving parts should be guarded.
- Be careful when touching the exterior of an operating motor — it may be hot enough to be painful or cause injury. With modern motors this condition is normal if operated at rated load and voltage — modern motors are built to operate at higher temperatures.
- Protect the power cable from coming in contact with sharp objects.
- Do not kink power cable and never allow the cable to come in contact with oil, grease, hot surfaces, or chemicals.
- Make certain that the power source conforms to the requirements of your equipment.
- When cleaning electrical or electronic equipment, always use an approved cleaning agent such as dry cleaning solvent.
- Do not use blower where explosive fumes or gases are present.