

Limited Warranty

All Wagner Motors manufactured by or for DiversiTech Corporation (the Company) and sold by the Company under the Wagner Motors brand are warranted to be free of defects in workmanship and materials for a period of 12 months from date of sale from the distributor to the contractor, or 18 months from the date of manufacture, whichever comes first. The Company will credit, repair or replace, at its option, any motor if deemed defective within this time period. All products returned to the Company must include a return authorization issued by the Company. The returned product should be suitably packaged and shipped prepaid from the point of shipment to the point designated in the Company's return authorization.

This warranty is a limited warranty and shall be in lieu of any other warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. There are no other warranties that extend beyond the description of the face hereof. The liability of the Company arising out of its supply of said products, or their use shall not in any case exceed the cost of correcting defects in the products as set forth above. The Company shall not be liable for any costs or damage incurred by its customers in the removal or replacement of defective products from units in which the products have been assembled. In no event shall the company be liable for loss of profits, indirect, consequential, or incidental damages.

NOTICE

INCORRECT CONNECTIONS OR
USE OF WRONG CAPACITOR
RATING WILL VOID WARRANTY

SAFETY WARNING

FOLLOW ALL SAFETY INFORMATION TO
REDUCE POTENTIAL ELECTRICAL SHOCK.
DISCONNECT POWER BEFORE SERVICING
UNIT. MOTOR MUST BE PROPERLY
GROUNDED. UNUSED LEAD WIRES MUST
BE INDIVIDUALLY INSULATED.



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Installation and Safety Instructions

Direct Drive Furnace Blower Motors



| Direct Drive Furnace Blower Motors | | | |
|------------------------------------|-----|---------|-----------|
| Model | HP | Voltage | Capacitor |
| WG840595 | 1 | 115 | 20 |
| WG840596 | 1 | 208-230 | 15 |
| WG840589 | 3/4 | 115 | 15 |
| WG840590 | 3/4 | 208-230 | 10 |
| WG840587 | 1/2 | 115 | 5 |
| WG840588 | 1/2 | 208-230 | 5 |
| WG840585 | 1/3 | 115 | 5 |
| WG840586 | 1/3 | 208-230 | 5 |
| WG840583 | 1/4 | 115 | 5 |
| WG840584 | 1/4 | 208-230 | 5 |



WAGNER
A Division of DiversiTech
MOTORS
www.wagner-motors.com

Initial Inspection

After opening carton, look for damage. If damage is found file a claim with the freight carrier. The motor shaft should rotate freely by hand. Verify that the carton and nameplate data match the motor you bought.

Storage

Motor should be stored indoors. The chosen location should be clean and dry.



General Information

This is a single-phase permanent split capacitor (PSC) motor designed for use as a direct drive furnace blower motor. Do not use this motor in the presence of spraying or standing water. This motor is suitable for use in Class III locations where airborne lint or fiber is present, as defined in article 500 of the National Electric Code (NEC). This motor is not suitable for use in Class I or Class II (explosive gas or dust locations). This motor is a continuous air over motor. For suitable operation, it must operate in the air stream of the furnace. This air stream helps cool the motor.

Power Supply

Supply voltage and frequency must match what is shown on the motor nameplate. Source voltages lower than rated supply can reduce performance and cause the motor to overheat.

Motor Protectors - Voltage

Wagner strongly urges the use of a line voltage monitor (similar to Wagner model DSP-1). These devices measure and monitor supply voltage, and if it ranges too high or too low, the motor circuit is "turned off" through the contactor circuit.

Motor Installation

All aspects of the installation must conform to requirements of the NEC, and any applicable local codes. The supply circuit must be of adequate capacity to maintain sufficient voltage during start and run periods. Supply wire size must be of adequate gauge to carry current as required by the motor. All electrical connections must be secure to prevent voltage drop and localized heating. If the motor is damp or wet, it may cause a shock hazard. Have the motor serviced by a qualified motor repair facility before installation and/or operation.

Motor Mounting

This motor must be mounted securely to prevent vibration and reduce noise. Motors with sleeve bearings should be mounted so oil ports are readily accessible. This motor is intended for direct coupling to a furnace blower. Carefully check the shaft and coupling alignments after mounting. Do not use a flexible coupling to compensate for misalignment. Do not strike the motor shaft. This may damage the bearings or other internal components.

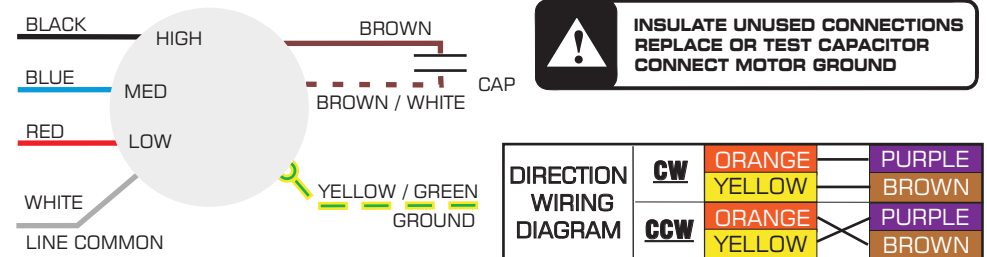
Motor Electrical Connection

Motor must be securely and adequately grounded with a method approved by the NEC and local codes. Insulate all connections to prevent grounding or short circuits. Reinstall all conduits, terminal box covers, and other electrical devices. Do not force connections. This is a multi-speed motor. There are multiple wires

for line voltage connection. If all wires are not used, be sure to INDIVIDUALLY insulate each wire. Do not connect unused wires together. Do not connect unused leads to other voltage sources.

Wagner recommends the replacement of the capacitor with this PSC motor. Be sure the replacement capacitor matches the rating requirement on the new motor.

The power supply must have fuses to provide short circuit protection as required by local codes. Any switching device used to control the motor must have a rating at least equal to the new motor. This motor is NOT designed for electronic speed control. DO NOT connect this motor to an electronic speed control.



Starting Motor

Be sure the motor is properly grounded. Remove any mechanical locks in the motor shaft or mechanically connected components. Start the motor briefly. Make sure the motor is rotating in the correct direction. Make sure the motor is not creating any unusual noises or vibration. Check the motor's current draw. It should be within ten-percent of the nameplate rating. As this motor is an air moving motor, all enclosures must be in place to take an accurate amp reading.

Motor Operation

Visually re-inspect the installation. Make sure all guards, housings, and other protective devices are in place. All covers and gaskets must be re-installed to minimize the introduction of dirt and moisture. The external case of the motor becomes hot enough to cause injury during normal operation. Use caution when working near an operating motor.

Motor Maintenance

Always disconnect power and allow the motor to completely stop and cool before performing maintenance. Discharge any capacitors for safety. Periodically inspect the motor installation to assure it is free of accumulated dirt. Also be sure the motor is free of unusual vibration and noise. Remove dirt accumulations by vacuuming any debris. Do not use solvent cleaners. Ball bearing motors are permanently lubricated. Sleeve bearing motors require periodic re-lubrication. Do not overlubricate.