

INLET FILTER SILENCERS

MODELS 5Z660, THRU 5Z663

Installed on Air Compressor 10/19/94

FORM 5S3270
03071
0691/193/1M

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 Speedaire intake filter and silencer is designed to effectively remove contaminants from incoming air and to reduce the noise level of your compressor.

Specifications

MODEL	DIA	CFM	HEIGHT	(M) NPT
5Z660	6"	20	2-1/2"	3/4"
5Z661	6	20	2-1/2	1
5Z662	6	60	5	1-1/4
5Z663	6	60	5	1-1/2

General Safety Information

1. Always disconnect power source before installing the intake filter.
2. Always disconnect power source before changing or servicing the filter element.
3. Compressors run at a high temperature. Do not touch compressor or motor while in operation.
4. Allow the compressor to cool down before servicing any part of the compressor.

Installation

Screw the proper size filter into the compressor by hand until snug. A pipe wrench may be used on the pipe portion of the base assembly to further snug the filter assembly to the compressor intake. Do Not Over Tighten.

Maintenance

A clean cool, dry air supply is essential to satisfactory operation of the compressor. IF the NPT of the compressor intake manifold is the same size as the filter, you are then installing the proper filter for your compressor. Remove and clean intake air filters periodically. Paper-type filter elements **SHOULD NOT BE** washed in solvent; instead, should be blown out with compressed air and replaced periodically. Polyester cloth elements, as well as the foam pre-filter, can be washed in a mild detergent, blown dry, and replaced periodically.

Polyester Replacement Elements

Model Filter	Replacement Elements
5Z660	1R416
5Z661	1R416
5Z662	1R417
5Z663	1R417

MODEL 5Z660



Figure 1

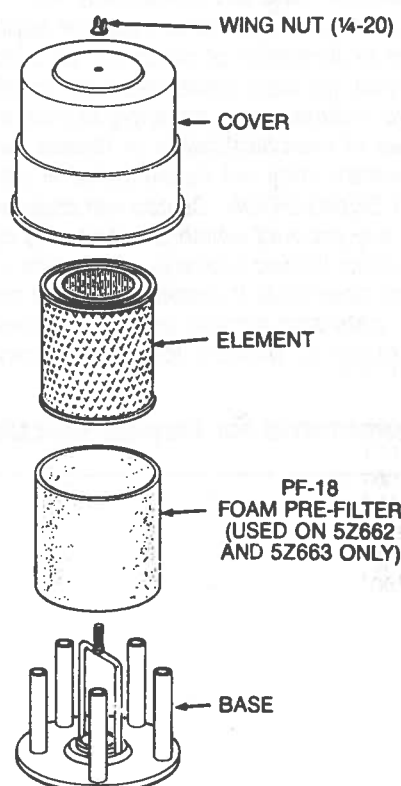


Figure 2—Assembly

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Manufactured for Dayton Electric Mfg. Co., 5959 W. Howard St., Chicago, IL 60648

Dayton® Circulator Pump Motors

*HOT WATER
CIRC. PUMP
MOTOR REPLACED
2/15/95*

Installation

NOTE: An Allen-head 1/8" wrench will be required for the coupler setscrew when making installation.

Follow wiring diagram on side of motor.

MOTOR REPLACEMENT

Refer to Figures 2 & 3.

1. Shut OFF electric power supply to pump. Disconnect power supply at motor. With motor still in place, rotate coupler by hand for access to setscrew.
2. Loosen setscrews holding coupler to shaft of motor so that setscrews clear recess in shaft. A 4-spring coupler may not be on pump. If a 3-piece flanged coupler is on the pump, simply loosen setscrews in coupler flange installed on motor shaft.
3. Remove motor assembly by removing four capscrews.
4. Connect coupler to shaft of new motor by placing thumb of one hand behind coupler-half to be attached and sliding it onto shaft. (If shaft has a dimple, use

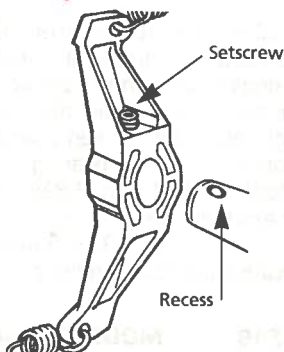


Figure 2 — Shaft Mounting

care to line up setscrew with recess in shaft.) Securely tighten setscrew in recess and attach motor assembly to bearing assembly with four capscrews.

5. Reconnect electric power supply and test for proper operation.

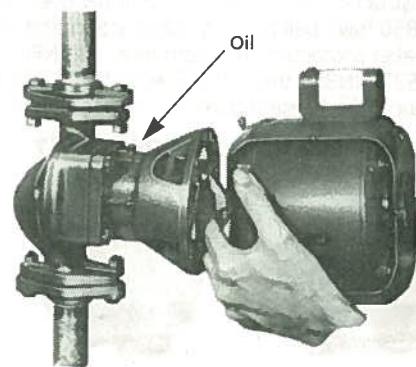


Figure 3 — Mounting Motor Assembly

Replacement Parts List

Description	Part No.	Qty.
Mounting Ring	810120-050	1

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Motor does not run	1. Disconnect switch or circuit breaker OFF 2. Wire(s) not connected	1. Check and turn ON 2. Reconnect wire leads
No liquid delivered	Coupler broken or loose	Replace or tighten coupler
Motor trips overload	1. Pump shaft binding 2. Voltage too low or too high	1. Check, repair or replace 2. Check voltage

Limited Warranty

Dayton One-Year Limited Warranty. Circulator pump motors, Models 3K515 thru 3K522, 3N824 thru 3N826 and 3N850, are warranted by Dayton Electric Mfg. Co. (Dayton) to the original user against defects in workmanship or materials under normal use for one year after date of purchase. Any part which is determined to be defective in material or workmanship and returned to an authorized service location, as Dayton designates, shipping costs prepaid, will be, as the exclusive remedy, repaired or replaced at Dayton's option. For limited warranty claim procedures, see PROMPT DISPOSITION below. This limited warranty gives purchasers specific legal rights which vary from state to state.

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Manufactured for Dayton Electric Mfg. Co., 5959 W. Howard St., Niles, Illinois 60714 U.S.A.

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Niles, Illinois 60714 U.S.A.**

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Dayton®

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® Circulator Pump Motors

Description

Dayton Circulator Pump Motors are designed to replace original equipment motors on hot and chilled Water Circulator Pumps manufactured by Bell & Gossett, Armstrong, and Teel. Models 3K515 thru 3K522 motors are supplied with resilient rings and mounting brackets assembled. Models 3N824 thru 3N826 and 3N850 are C-Face and do not require rings or mounting brackets. Motors feature Class B insulation with high service factors, red enamel finish and drip-proof enclosure. Models 3K515 thru 3K522 motors have sleeve bearing construction with automatic thermal overload protection. Models 3N824 thru 3N826 and 3N850 have ball bearing construction and must be used with external fuse or circuit breaker protection in accordance with NEC and local electrical codes. Models 3K515 thru 3K522, 3N824 thru 3N826 and 3N850 are permanently lubricated and do not require lubrication. These models are listed by CSA and UL.

MODEL 3K515



MODEL 3K517



MODEL 3K519



MODEL 3N850

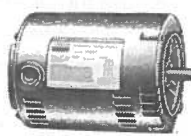


Figure 1

Specifications

Model	Volts 60 Hz	HP at 1725 RPM	Phase	F/L Amps
3K515	115	1/12	1	2.5
3K516	115	1/6	1	3.6
3K517	115	1/4	1	5.0
3K518	115	1/4	1	5.0
3K519	115/208-230	1/2	1	5.8/2.8-2.9
3K520	115	1/6	1	3.6
3K521	115	1/3	1	5.4
3K522	115/208-230	3/4	1	8.8/4.5-4.4
3N824	208-230/460	3/4	3	2.9-3.0/1.5
3N825	208-230/460	1	3	3.5-3.6/1.8
3N826	208-230/460	1 1/2	3	4.8/2.4
3N850	208-230/460	1/2	3	2.3-2.4/1.2

Dimensions

Model	Mounting*	Shaft Dia.	Overall Length +0 —1/8"
3K515	4 3/8"	1/2"	7 1/16"
3K516	5	1/2"	8 7/16"
3K517	5 7/8"	1/2"	8 3/8"
3K518	5	1/2"	8 7/16"
3K519	5 7/8"	5/8"	10 3/16"
3K520	4 3/8"	1/2"	8 3/8"
3K521	5 7/8"	1/2"	8
3K522	5 7/8"	5/8"	11 1/2"
3N824	5 7/8"	5/8"	10
3N825	5 7/8"	5/8"	10 1/2"
3N826	5 7/8"	5/8"	10 1/2"
3N850	5 7/8"	5/8"	9 3/4"

(*) Center line of bolt holes.

Unpacking

When unpacking unit, inspect carefully for any damage that may have occurred during transit. Check for damage by rotating motor shaft. Shaft should turn freely.

General Safety Information

⚠ WARNING Disconnect power before servicing or installing motor. Should disconnect switch be out-of-sight, tag and lock in the open or off position. Failure to do so could result in fatal electrical shock.

1. Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).
2. Motor must be securely and adequately grounded. Refer to NEC Article 250 (Grounding) for additional information.
3. Make sure all moving parts are guarded.
4. Be careful when touching the exterior of an operating motor; it may be hot enough to be painful or cause injury. Modern design motors normally run hot.
5. Protect the motor's wire leads from coming in contact with sharp objects or moving parts.
6. Make sure the power source conforms to the specified rating on the motor nameplate.
7. If motor shaft has a recess or dimple, be sure setscrew on motor end coupler-half of pump is securely fastened into motor shaft recess or dimple.