



FINISH THOMPSON INC.

S SERIES MOTORS OPERATION & PARTS MANUAL

for EF Series Pumps

Models S1, S2, S3, S4

P/N 107318 R5



S1, S2, S3



S4



FINISH THOMPSON INC.

921 Greengarden Road • Erie, PA 16501-1591 U.S.A.
Ph 814-455-4478 • Fax 814-455-8518
Email fti@finishthompson.com • www.finishthompson.com

EU Declaration of Conformity



Finish Thompson Inc. hereby declares that the following electrical equipment fully complies with the applicable health and safety requirements as specified by the EU directives listed. The product may not be taken into service until it has been established that the driven Drum and Container Pump complies with the provisions of all relevant EU Directives provided pumps manufactured by Finish Thompson are used.

This declaration is valid provided that the devices are fully assembled and no modifications are made to these devices.

Type of Device:

Electric Motors for Driving Drum
and Container Pumps

Models:

M3V-UK M5 M5T M5V M5X M10X
M13 M59P M59H S2 S3

EU Directives (and their applicable amendments):

Low Voltage (2014/35/EU)
Electromagnetic Compatibility (2014/30/EU)

Specific standards applied:

EN 60335-1 EN60335-2-41
EN 55014-1 EN 55014-2
EN 60529

Signed,

Casey D. Bowes
CEO and President

16 March 2020

Person(s) Authorized to Compile Technical File: Finish Thompson GmbH
Otto-Hahn-Strasse 16
Maintal, D-63477 DEU
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EU Declaration of Conformity



Finish Thompson Inc. hereby declares that the following machine(s) fully comply with the applicable health and safety requirements as specified by the EU Directives listed. The product may not be taken into service until it has been established that the driven Drum and Container pump complies with the provisions of all relevant EU Directives. The complete product complies with the provisions of the EU Directive on machinery safety provided pumps manufactured by Finish Thompson Inc. are used.

This declaration is valid provided that the devices are fully assembled and no modifications are made to these devices.

Type of Device:

Air Motors for Driving Drum and Container Pumps

Models:

M6	M6X	M18	M19	M20	M57
	M65	M66	S4	S4A	

EU Directives:

Machinery Safety (2006/42/EC)

Applied Harmonized Standards:

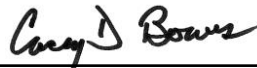
EN ISO 12100

EN 983

Manufacturer:

Finish Thompson Inc.
921 Greengarden Road
Erie, Pennsylvania 16501-1591 U.S.A

Signed,



President

16 March 2020

Person(s) Authorized to Compile Technical File: Finish Thompson GmbH
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Introduction

This manual pertains to S Series drum pump motors. Finish Thompson Inc. thanks you for choosing our products. We believe that the use of our products will be fully satisfactory. When properly installed and operated, your Finish Thompson motor and pump will provide long, trouble-free service; therefore, please read this manual carefully before carrying out any operations on the pump/motor unit. Any use other than that described herein is considered incorrect; consequently, Finish Thompson Inc. shall not be held responsible for any damages to people or things. In case of doubt or enquiries, please apply to our Technical Service department directly at the following address:

Finish Thompson, Inc.
921 Greengarden Rd.
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Warranty, General Terms & Conditions

1. The following terms and conditions apply to the sale of machinery, components and related services and products, of Finish Thompson Inc. (hereinafter “the products”)
2. Finish Thompson Inc. (the manufacturer) warrants only that:
 - a) its products are free of defects in material, design and workmanship at the time of original purchase;
 - b) its products will function in accordance with Finish Thompson Inc. operation manuals; Finish Thompson Inc. does not guarantee that the product will meet the precise needs of the Customer, except for those purposes set out in any invitation to render documents or other documents specifically made available to Finish Thompson Inc. before entering into this agreement;
 - c) high quality materials are used in the construction of the motors and that machining and assembly are carried out to the highest standards. Except as expressly stated above, Finish Thompson Inc. makes no warranties, express or implied, concerning the products, including all warranties of fitness for a particular purpose.

This warranty shall not be applicable in circumstances other than defects in material, design, and workmanship. In particular warranty shall not cover the following:

- d) Periodic checks, maintenance, repair and replacement of parts due to normal wear and tear;
- e) Damage to the product resulting from:
 - i. Tampering with, abuse or misuse, including but not limited to failure to use the product for its normal purposes as stated at the time of purchase or in accordance with Finish Thompson Inc. instructions for use and maintenance of the product, or the installation or improper ventilation or use of the product in a manner inconsistent with the technical or safety standard in force;
 - ii. Repairs performed by non-authorized service workshop, or opening of the unit by non-authorized personnel, or use of non genuine Finish Thompson Inc. parts;
 - iii. Accidents, force majeure or any cause beyond the control of Finish Thompson Inc., including but not limited to lightning, water, fire, earthquake, and public disturbances, etc.
3. The warranty shall cover the replacement or repair of any part, which is documented to be faulty due to construction or assembling, with new or repaired parts free of charge delivered by Finish Thompson, Inc. Parts subjected to normal wear and tear shall not be covered by the warranty. Finish Thompson Inc. shall decide as to whether the defective or faulty part shall be replaced or repaired. Transportation charges are prepaid to Finish Thompson.
4. The warranty of the products shall be valid for a period of **12 months** from the date of delivery, under the condition that notice of the alleged defect to the products or parts thereof be given to Finish Thompson, Inc. within the term of 8 days from the discovery.
5. Repair or replacement under the terms of this warranty shall not give a right to an extension to, or a new commencement of, the period of warranty. Repair or replacement under the terms of this warranty may be fulfilled with functionally equivalent reconditioned units. Finish Thompson Inc. qualified personnel shall be solely entitled to carry out repair or replacement of faulty parts after careful examination of the motor. Faulty parts or components when replaced by Finish Thompson Inc. will become the property of Finish Thompson Inc. If this warranty does not apply, the purchaser shall bear all cost for labor, material and transportation.
6. Finish Thompson Inc. will not be liable on any claim, whether in contract, tort, or otherwise, for any indirect, special, incidental, or consequential damages, caused to the customer or to third parties, including loss of profits, process down time, transportation costs, costs associated with replacement or substitution products, labor costs, installation or removal costs. In any and all events, manufacturer’s liability shall not exceed the purchase price of the product and/or accessories.
7. **Return Policy.** Should you have any problems with this product, please contact the distributor in your area. The distributor will determine if a return to the factory is necessary and will contact the factory for a Return Authorization Number. Otherwise, contact our Technical Service Hotline (1-800-888-3743) or email techservice@finishthompson.com if you have any questions regarding product operation or repair.

Warranty Registration

Thank you for your purchase of this quality Finish Thompson product. Be sure to take a minute to register your pump at Finishthompson.com/warranty. Simply provide the model number, serial number and a few other pieces of information.

Order Online: www.PumpCatalog.com

Safety

1. Introduction

This manual contains all the information needed for the correct installation, use and maintenance of your new Finish Thompson motor. It should be read and understood by all the personnel involved in installation, operating and servicing of the pump before it is started.

2. Operator Qualification and Training

The personnel in charge of the installation, the operation and maintenance of the pump/motor must be qualified and able to perform the operations described in this manual. Finish Thompson Inc. shall not be held responsible for the training level of personnel and for the fact that they are not fully aware of the contents of this manual.

3. Safety Instructions

FOR YOUR OWN SAFETY

BEFORE using or servicing your pump, please make sure to wear the proper clothing, eye protection and follow standard safety procedures when handling corrosive or personally harmful materials.

GENERAL DANGER

NEVER use a plastic pump or an open, splash-proof, TEFC or non-ATEX motor when pumping or mixing flammable or combustible material.

ALWAYS use a Model EFS 316SS pump tube with Model S4 air motor and static protection kit with grounded discharge hose, P/N 107429, when pumping or mixing flammable or combustible material. Follow Assembly, Installation & Operating Instructions from manual, P/N J102721, included with the static protection kit or it can be accessed online at www.finishthompson.com/downloads.

ALWAYS use and store the pump and motor in an upright position.

DANGER: POWER SUPPLY

NEVER perform any maintenance operation on the motor while it is running or before it has been disconnected from the power supply. Avoid any possible hazard that might be caused by electric power.

ALWAYS check the electrical specifications on the motor data plate and make sure they correspond to the power supply to which it will be connected.

ALWAYS place motor in the OFF position prior to connecting the power source.

NEVER immerse the motor in liquid.

4. Noise Level

S1, S2, and S3 electric motors in normal operating conditions produce a sound level equal to or less than 74 dBA at a distance of three feet (~ one meter). S4 Air motor produces a sound level equal to or less than 78 dBA at a distance of three feet (~ one meter)

5. Modifications and Spare Parts

Any changes concerning the service of the motor/pump as originally purchased can be executed only after written approval from Finish Thompson Inc. It is recommended to use only genuine Finish Thompson Inc. spare parts and approved accessories. The use of non-original spare parts or non-approved accessories will void warranty and remove any responsibility on the manufacturer's behalf for any damage caused to people or things.

Sécurité

1. Introduction

Ce manuel donne toutes les instructions nécessaires pour assurer l'installation, l'utilisation et l'entretien adéquats du moteur de pompe Finish Thompson. Ces instructions doivent être lues et comprises par tout le personnel participant à l'installation, à l'utilisation et à l'entretien de la pompe avant son démarrage.

2. Qualifications et formation des opérateurs

Le personnel en charge de l'installation, de l'utilisation et de l'entretien de la pompe et de son moteur doit être qualifié et capable d'effectuer les tâches décrites dans ce manuel. Finish Thompson Inc. n'est pas responsable du niveau de formation du personnel et du fait qu'ils n'aient pas pris entièrement connaissance du contenu de ce manuel.

3. Consignes de sécurité

POUR VOTRE SÉCURITÉ

AVANT d'utiliser ou de faire l'entretien de votre pompe, s'assurer de porter les vêtements protecteurs adéquats, les protections oculaires (pour les yeux) et de suivre les procédures de sécurité standard pour manipuler les matières corrosives ou dangereuses pour la santé.

DANGERS GÉNÉRAUX

NE JAMAIS utiliser de pompe en plastique ni de moteur ouvert, étanche aux éclaboussures, de type TEFC ou non conforme à la norme ATEX, pour pomper ou mélanger des matières inflammables ou combustibles.

TOUJOURS utiliser une pompe vide-fût de Modèle EFS en acier inoxydable 316 avec moteur pneumatique de Modèle S4 et kit de protection statique avec boyau de refoulement mis à la terre (pièce no 107429), pour pomper ou mélanger des matières inflammables ou combustibles. Suivre les instructions d'assemblage, d'installation et d'utilisation du manuel (pièce no J102721), fourni avec le kit de protection statique, ou le télécharger à l'adresse Internet : www.finishthompson.com/downloads.

TOUJOURS utiliser et remiser la pompe et le moteur en position verticale.

DANGER : ALIMENTATION ÉLECTRIQUE

NE JAMAIS effectuer aucune tâche d'entretien sur le moteur lorsqu'il est en marche, ou avant de le débrancher de son alimentation électrique. Éviter toute condition dangereuse en rapport avec l'alimentation électrique.

TOUJOURS vérifier les spécifications électriques sur la plaque signalétique du moteur et s'assurer qu'elles correspondent à l'alimentation électrique à laquelle il est raccordé.

TOUJOURS mettre le moteur en position d'arrêt («OFF») avant de le raccorder à l'alimentation électrique.

NE JAMAIS immerger le moteur dans un liquide.

4. Niveau de bruit

En conditions normales d'utilisation, les moteurs électriques S1, S2 et S3 génèrent un niveau de bruit égal ou inférieur à 74 dBA à une distance de 3 pieds (env. 1 mètre). Le moteur pneumatique S4 génère un niveau de bruit égal ou inférieur à 78 dBA à une distance de 3 pieds.

5. Modifications et pièces de rechange

Toute modification concernant l'entretien du moteur/pompe, tels qu'achetés initialement, peut être exécutée seulement après en avoir obtenu l'autorisation écrite de Finish Thompson Inc. On demande d'utiliser seulement les pièces de rechange originales de Finish Thompson Inc. et les accessoires approuvés. Le fait de ne pas utiliser les pièces de rechange originales de Finish Thompson Inc. ou les accessoires approuvés annulera la garantie et dégage le fabricant de toute responsabilité liée aux blessures ou dommages matériels.

IMPORTANT SAFETY INFORMATION FOR PUMPING FLAMMABLE OR HAZARDOUS SUBSTANCES

Read these instructions before operating the pump and motor equipment. The manufacturer will not be responsible for any damage to property or to persons caused by improper use of the equipment.

⚠ WARNING: It is the responsibility of the user to operate the pump in conformance with OSHA rules for dispensing liquids. Pump containers should be grounded when using with flammable or combustible liquids to avoid static electricity.

1. Use only an explosion-proof rated electric or non-electric (air) motors on stainless steel pump tubes with a Static Protection Kit when transferring flammable or combustible liquids.

⚠ WARNING: Never use an open, splash-proof, TEFC, battery-operated or non-explosion-proof rated motor or a plastic pump tube when transferring flammable or combustible liquids.

2. When operating a drum pump (especially when pumping flammable, combustible or hazardous liquids) follow all electrical and safety codes.
 - a) In the United States: the United States Occupational Safety and Health Act (OSHA), most recent National Electrical Code (NEC), National Fire Protection, Inc. (NFPA) Code 30 (Flammable and Combustible Code), NFPA 77 (Static Electricity), NFPA 251 (Standard Method of fire Test of Building Construction), NFPA 704 (Identification of the Fire Hazards of Materials), and other NFPA codes, local codes and ordinances.
 - b) Outside the United States: the ATEX equipment directive 2014/34/EU where applicable, the ATEX workplace 99/92/EC directive where applicable, in addition the precautions of the U.S. codes listed herein and all other local codes and ordinances.
3. Pumping hazardous, flammable, or combustible liquids should only be done in buildings, rooms, or areas suited for this purpose. (See NFPA 30, NFPA 78, NFPA 80, NFPA 251, NFPA 704, other suitable NFPA codes, OSHA, ATEX workplace 99/92/EC directive insurance companies, and other local codes and ordinances.)
4. When filling cans, drums, etc. with combustible or flammable liquids, both container pumping from and container pumping to, should be bonded and grounded to dissipate possible accumulations of static electricity, and minimize sparks caused by static electricity (refer to NFPA 77 and CLC/TR 60079-32-1 for specific details).

⚠ WARNING: Avoid splashing. Splash filling can create static electricity and is extremely hazardous. Reduce motor speed to prevent splashing.

⚠ WARNING: Fluid velocity must be 3 feet/.9 meter/second maximum (7 gpm/26.5 lpm in 1" hose and 4 gpm/15 lpm in ¾" hose) to reduce risk of static electricity. Reduce motor speed to reduce the fluid velocity.

5. Before using, confirm that the pump and any accessories (hose, nozzle, flow meter, etc.) materials of construction are suitable for the material to be pumped and that the maximum temperature is not exceeded.

INFORMATIONS IMPORTANTES SUR LA SÉCURITÉ DURANT LE POMPAGE DE SUBSTANCES INFLAMMABLES OU DANGEREUSES

Veuillez lire attentivement ces instructions avant d'utiliser la pompe et l'équipement du moteur. Le fabricant ne sera pas tenu responsable des dommages matériels ou corporels causés par une utilisation inappropriée de l'équipement.

⚠ AVERTISSEMENT: Il est de la responsabilité de l'utilisateur de faire fonctionner la pompe conformément aux règles OSHA (Santé et Sécurité au Travail) relatives à la distribution de liquides. Les conteneurs de pompes doivent être électriquement mis à la terre lors de l'utilisation de liquides inflammables ou combustibles afin d'éviter toute électricité statique.

1. Lors du transfert de liquides inflammables ou combustibles, utilisez uniquement des moteurs électriques ou non électriques (pneumatiques) antidéflagrants sur des tubes de pompe en acier inoxydable dotés d'un dispositif de protection antistatique.

⚠ AVERTISSEMENT: N'utilisez jamais de moteur ouvert, à l'épreuve des éclaboussures, TEFC, alimenté par piles ou non antidéflagrant, ni un tube de pompe en plastique lors du transfert de liquides inflammables ou combustibles.

2. Lors de l'utilisation d'une pompe à tambour (en particulier lors du pompage de liquides inflammables, combustibles ou dangereux), respectez tous les codes électriques et les codes de sécurité.

a) Aux États-Unis : Loi américaine sur la sécurité et la santé au travail (OSHA); le code national de l'électricité (NEC) le plus récent; le code 30 de la NFPA (code d'inflammabilité et de produits combustibles); le code NFPA 77 (électricité statique); le code NFPA 251 (Méthode standard de test d'incendie de la construction de bâtiments); le code NFPA 704 (Identification des risques d'incendie des matériaux) et autres codes et règlements de la NFPA.

b) En dehors des États-Unis : La directive sur les équipements ATEX 2014/34 / EU, le cas échéant, la directive ATEX sur le lieu de travail 99/92 / EC, le cas échéant, ainsi que les précautions des codes des États-Unis énumérés dans la présente et de tous les autres codes, lois et règlements locaux.

3. Le pompage de liquides dangereux, inflammables ou combustibles ne doit être effectué que dans des bâtiments, des pièces ou des zones adaptées à cet usage. (Voir NFPA 30, NFPA 78, NFPA 80, NFPA 251, NFPA 704, autres codes NFPA appropriés, OSHA, les directives des compagnies d'assurance ATEX 99/92 /CE, et autres codes, lois et règlements locaux.)
4. Lors du remplissage de bidons, fûts, etc. avec des liquides combustibles ou inflammables, les conteneurs d'où le liquide est pompé et le conteneur recevant le liquide doivent être reliés et mis à la terre pour éviter toute accumulation éventuelle d'électricité statique et minimiser ainsi les étincelles causées par l'électricité statique (voir NFPA 77). et CLC / TR 60079-32-1 pour des détails spécifiques).

⚠ AVERTISSEMENT: Évitez les éclaboussures. Les éclaboussures peuvent créer de l'électricité statique et sont extrêmement dangereuses. Réduisez la vitesse du moteur pour éviter les éclaboussures.

⚠ AVERTISSEMENT: La vitesse du fluide doit être au maximum de 3 pieds / 0,9 mètre / seconde (7 gpm / 26,5 lpm dans un tuyau de 1"; et 4 gpm / 15 lpm dans un tuyau de ¾") afin de réduire le risque d'électricité statique. Réduisez la vitesse du moteur afin de réduire ainsi la vitesse du fluide.

5. Avant utilisation, assurez-vous que les matériaux de la pompe et des accessoires (tuyau, ajutage, débitmètre, etc.) sont compatibles avec le fluide et que la température maximale n'est pas dépassée.

INSTALLATION

1. Unpack motor and pump tube from carton. Check for shipping damage. If damage is detected, save the packaging and notify the carrier immediately.
2. If motor and pump tube are boxed separately, the motor will need to be fastened to the pump tube. See figures 1 & 2.



Figure 1



Figure 2

3. Place the motor upside down on a tabletop surface with the coupling facing upwards and place the yellow coupling insert (item 1 from the pump manual) onto the motor's coupling. See figures 3 & 4.



Figure 3

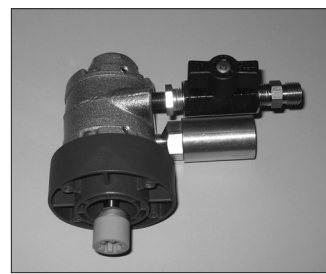


Figure 4

4. Position the pump tube upside down onto the motor. For electric motors, align the discharge spout of the pump facing away from the handle of the motor. See figure 5. For air motors, the ball valve & muffler should be aligned with the discharge spout for ease of operation. See figure 6.

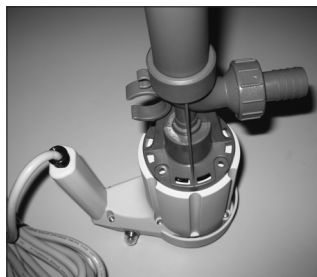


Figure 5



Figure 6

5. Firmly press the pump tube onto the motor until it is fully seated. A slight twist may be necessary for the coupling splines to line up properly.
6. Align the 4 bolt holes in the pump to the 4 holes in the motor, and fasten with 4 flat washers (item 7) and 4 screws (item 8). Tighten using a # 2 Phillips head screwdriver. See figures 7 & 8. **[Note: The EFS (316SS) model does not use the 4 flat washers. Hand-tighten, being careful not to over-torque and strip the plastic.]**

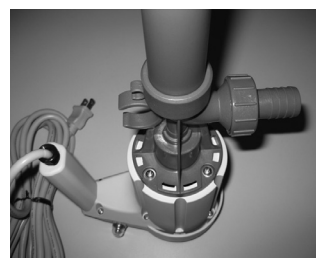


Figure 7



Figure 8

7. Using a SS hose clamp, secure a 3/4" ID chemically compatible reinforced hose to the discharge spout of the pump.

OPERATION

Electric motor - Check that the motor switch is in the center “0” OFF position, and then plug the power cord into an outlet. Insert the pump tube into the fluid to be dispensed and the discharge hose into the container to be filled. While holding the motor handle and hose, switch the motor to the “I” low speed. The fluid will begin to pump. If more flow is desired, switch the motor to the “II” high speed setting. See figure 9 below. If the motor stops working and the reset button has popped out, press the switch to the off position “0”. Review your application to make sure it is within the capabilities of the pump (reset button pops typically from an overloading situation). Allow the motor to cool down for at least 30 minutes and then press in the reset button located on the side of the motor handle. See figure 9.

Air motor – Turn the air motor ball valve to the closed position. Attach the air motor to an air supply line filtered, lubricated (use detergent SAE #10 oil) and regulated to 40 psi and 27 CFM using a ¼” FNPT fitting. (Note: Finish Thompson offers an optional Filter / Lubricator, P/N A100003.) Insert the pump tube into the fluid to be dispensed and the hose in the container to be filled. While holding the air motor ball valve and hose, slowly turn the valve to the desired flow rate. (Note: Pump performance will vary depending on air pressure & volume.) See figure 10 below.



Figure 9

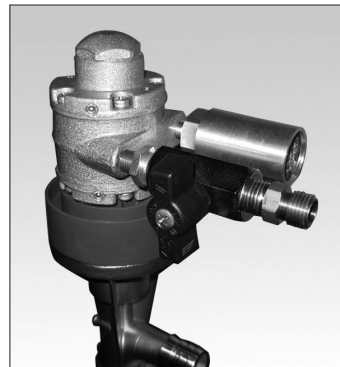


Figure 10

Pump – The EFP & EFV model pumps have a built in hose & cord clip. You can use these clips to store your hose and keep the plug off the floor free of damage & corrosion. When selecting a discharge hose you should use a ¾” ID reinforced chemically compatible hose secured with a SS hose clamp. See figures 11 & 12 below.







Figure 11




Figure 12

MOTOR SPECIFICATIONS

SPECIFICATIONS	ELECTRIC MOTORS (2 SPEED)			AIR MOTOR
	MODEL S1	MODEL S2	MODEL S3	MODEL S4
Nominal Voltage	115 Volts	230 Volts	115 Volts	N/A
Hertz	60	50/60	50/60	N/A
Rated Amps	2.0 Amps	1.1 Amps	2.0 Amps	N/A
Input Power	1/3 HP (230 Watts)	250 Watts	230 Watts	1/2 HP
Duty Cycle	Continuous	Continuous	Continuous	Continuous
RPM (low / high speed)	8,000 / 14,000	8,000 / 14,000	8,000 / 14,000	300 - 11,000
Max. Flow	17.0 GPM (64 l/m)	17.0 GPM (64 l/m)	17.0 GPM (64 l/m)	15.0 GPM (57 l/m)
Max. Head	20 Ft. (6M)	20 Ft. (6M)	20 Ft. (6M)	17 Ft. (5.2M)
Max. Air Pressure / CFM	N/A	N/A	N/A	40 psi / 27 CFM
Enclosure	Double Insulated, ENC 3 Splash-Proof	Double Insulated, IP24 Splash-Proof	Double Insulated, IP24 Splash-Proof	N/A
Certificates or Approvals				

ELECTRIC MOTOR IDENTIFICATION

(S1 Sample Label)



FINISH THOMPSON INC.
921 Greengarden Road • Erie, PA 16501-1591 U.S.A.
Ph 814-455-4478 • Fax 814-455-8518
Email: Sales@finishthompson.com • www.finishthompson.com

MODEL: S1
PART NO: 107324-1
SERIAL NO: XXXXXX AXXX
1/3 HP, 115 VAC, 60 HZ, 2.0 AMPS
INPUT: 230W
ENCLOSURE: TYPE 3
DOUBLE INSULATED
DATE OF MFG.: MM/DD/YY

 LR1566


BAR CODE

WARNING! THIS EQUIPMENT IS NOT EXPLOSION PROOF
AVERTISSEMENT! CET EQUIPEMENT N'EST PAS ANTIDÉFLAGRANT
DO NOT use this equipment in or near flammable or combustible liquids
DO NOT submerge this motor in fluid
DO wear eye and skin protection
DO read proper operation and safety precautions in instruction manual

CAUTION: DISCONNECT POWER BEFORE SERVICING.
ATTENTION: COUPER L'ALIMENTATION AVANT L'ENTRETIEN ET LE DÉPANNAGE.

DO NOT STORE UPSIDE DOWN 

AIR MOTOR IDENTIFICATION

(S4 Sample Label)



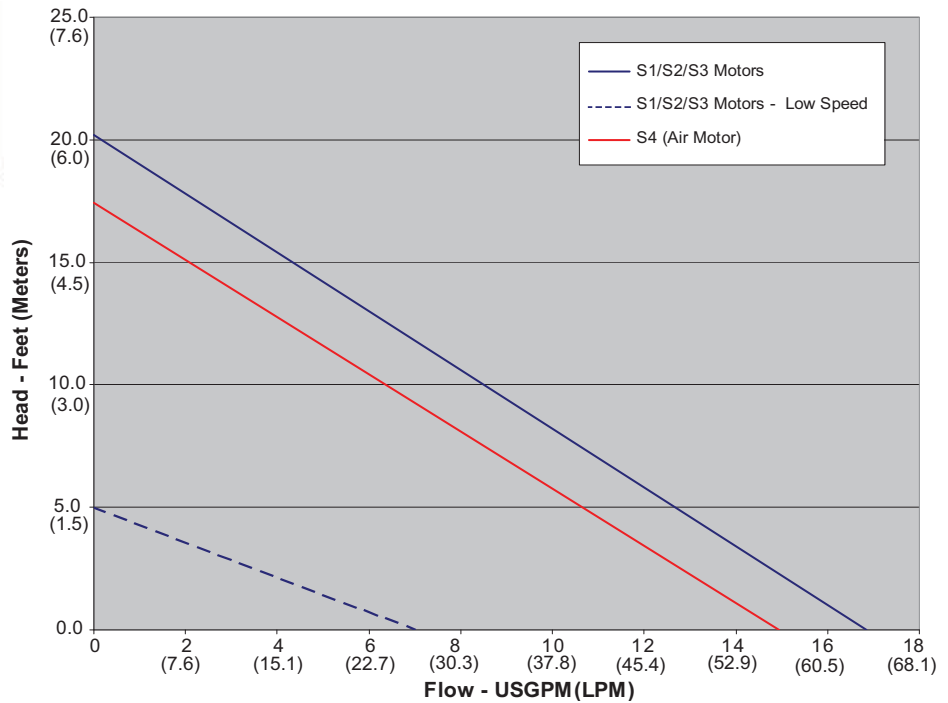
FINISH THOMPSON INC. Produced: Month 99 9999
Made in the U.S.A.

921 Greengarden Road • Erie, PA 16501-1591 U.S.A.
Ph 814-455-4478 • Fax 814-455-8518

Model: S4, 1/2 HP, 40 psi max, 27 CFM max
Part No: 107325

S/N: 999999 A99 

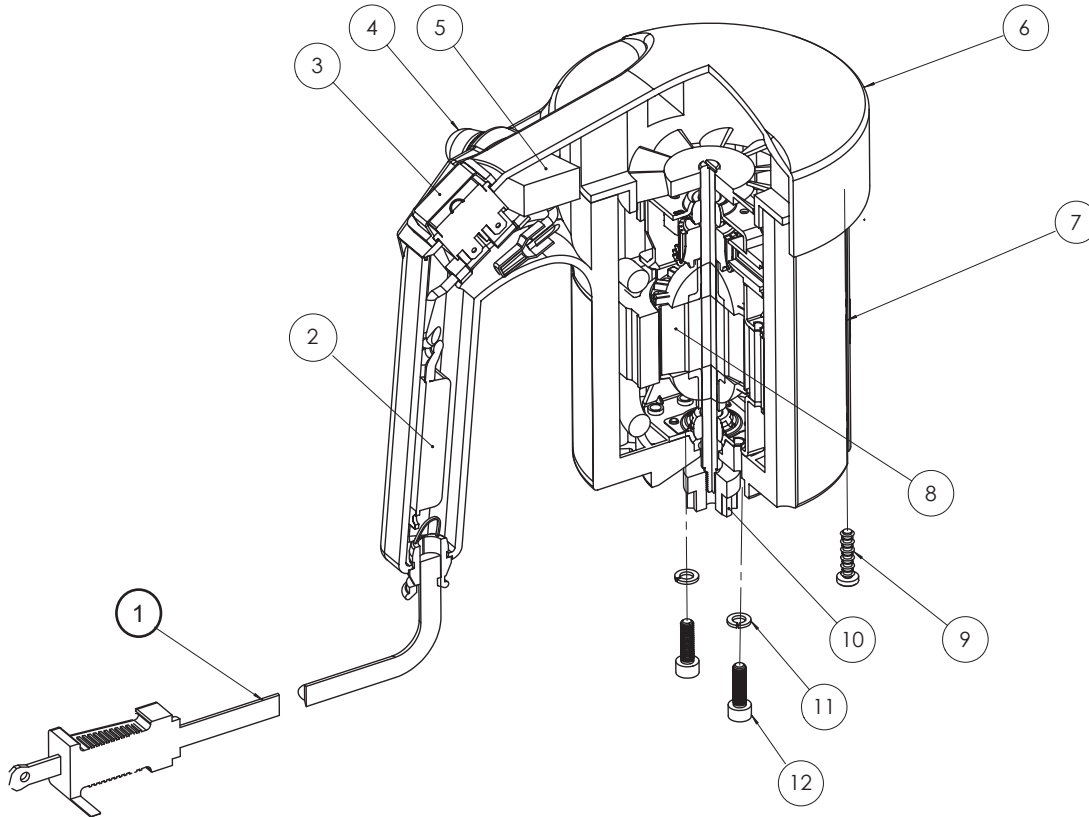
EF Performance with Electric and Air Motors



Viscosity	100 cP		200 cP		300 cP	
Max. Flow	7 gpm	27 lpm	5 gpm	19 lpm	3.7 gpm	14 lpm
Max. Head	16 feet (4.9 m)					

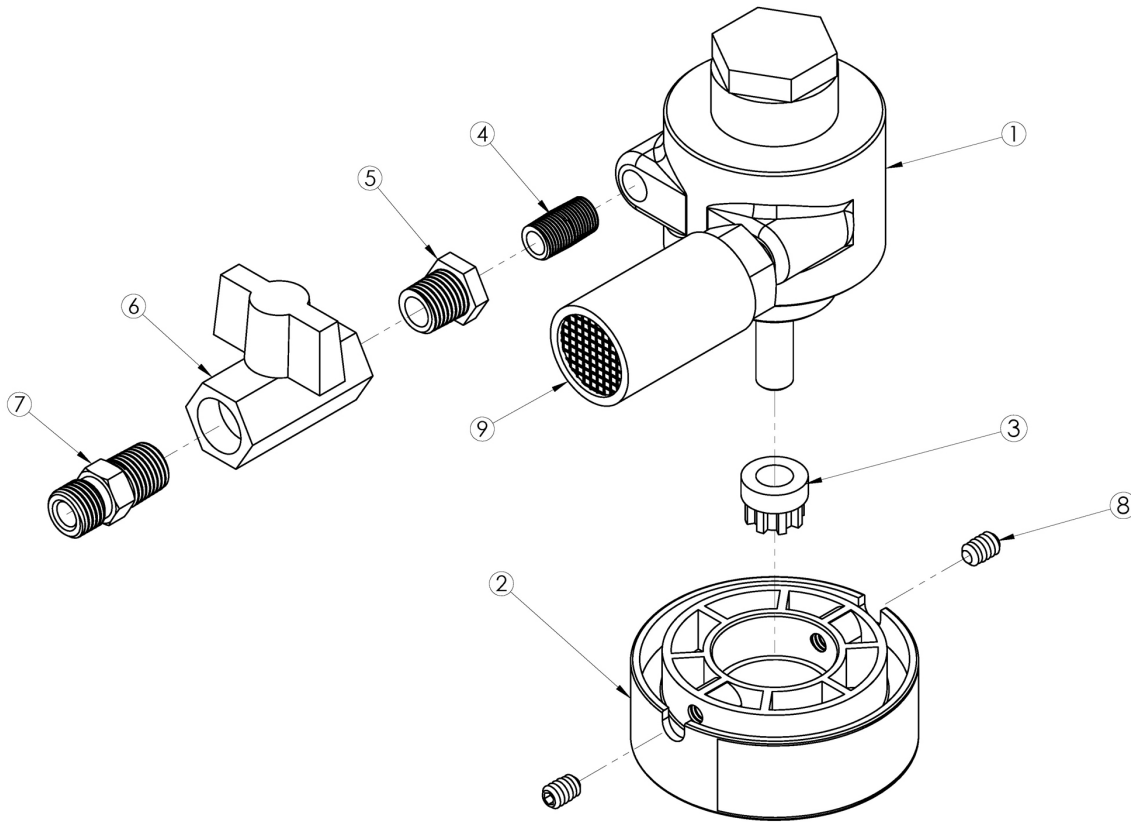
Note: All testing was performed with water at 68°F. Actual performance can vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity. Viscosity and performance are based on electric motor at high speed.

PARTS LIST – ELECTRIC MOTORS
Models S1, S2 & S3



ITEM	QTY	DESCRIPTION	PART NUMBER		
			MODEL S1	MODEL S2	MODEL S3
1	1	115V US CORD	107215	N/A	N/A
		230V EU CORD	N/A	107216	N/A
		115V UK CORD	N/A	N/A	107216-1
2	1	TRIAC ASSEMBLY - 115V	107265-1	N/A	107265-1
		TRIAC ASSEMBLY - 230V	N/A	107265-2	N/A
3	1	ON/OFF SWITCH	107304	107304	107304
4	1	CIRCUIT BREAKER COVER	J100789	J100789	J100789
5	1	CIRCUIT BREAKER - 115v	107326	N/A	107326
		CIRCUIT BREAKER - 230v	N/A	107327	N/A
6	1	MOTOR COVER	107065	107065	107065
7	1	MOTOR CANISTER	107066	107066	107066
8	1	MOTOR - 115V	107301	N/A	107301
		MOTOR - 230V	N/A	107302	N/A
9	6	HI-LOW SCREW - SS	J101020	J101020	J101020
10	1	COUPLING HALF	107300	107300	107300
11	2	LOCK WASHER - SS	106322	106322	106322
12	2	SOCKET HEAD CAP SCREW - SS	107303	107303	107303
N/S	1	COUPLING INSERT	J103422	J103422	J103422
N/S - Not Shown			N/A - Not Applicable		

PARTS LIST - AIR MOTOR
Model S4



MODEL S4 PARTS LIST			
ITEM	QTY	DESCRIPTION	PART NO.
1	1	AIR MOTOR ONLY	J100032
2	1	AIR MOTOR ADAPTER	107073
3	1	COUPLING HALF	J103934
4	1	NIPPLE	J100107
5	1	HEX REDUCER BUSHING	J100057
6	1	BALL VALVE	J100073
7	1	UNION - BRASS	J100036
8	2	SET SCREW	J100040
9	1	MUFFLER	J100033
N/S	1	AIR MOTOR REPAIR KIT	J100060
N/S	1	OPTIONAL - FILTER / LUBRICATOR	A100003
N/S	1	COUPLING INSERT	J103422
N/S - NOT SHOWN			



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