

TECHNICAL MANUAL

Installation, Operation and Maintenance Instructions

AQUASCRUBBER

Wash System

Insinger Machine Company 6245 State Road Philadelphia, PA 19135-2996

800-344-4802 Fax: 215-624-6966 www.insingermachine.com



Thank you for purchasing this quality Insinger product.

On the space provided below please record the model, serial number and start-up date of this unit:

Model:_

Serial Number:_____

Start-Up Date:_____

When referring to this equipment please have this information available.

Each piece of equipment at Insinger is carefully tested before shipment for proper operation. If the need for service should arise please contact your local Authorized Insinger Service Company.

A Service Network Listing is provided on our web site, www.insingermachine.com or call Insinger at 800-344-4802 for your local authorized servicer.

For proper activation of the *Insinger Limited Warranty* a SureFire[™] Start-Up & Check-Out Service should be completed on your machine. Refer to the Introduction section in this manual for an explanation of Insinger SureFire[™] Start-Up & Check-Out Program.

Please read the Insinger Limited Warranty and all installation and operation instructions carefully before attempting to install or operate your new Insinger product.

To register your machine for warranty by phone, fax or the internet or for answers to question concerning installation, operation, or service contact our Technical Services Department:

TECHNICAL SERVICE CONTACTS

Toll-Free	800-344-4802
Fax	215-624-6966
E-mail	service@insingermachine.com
Web	www.insingermachine.com

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STANDARD FEATURES

- Heavy duty pump with a 2 hp TEFC motor
- Basket style high capacity lever action waste drain
- Easy clean seamless front skirt
- Fast flow mixing faucets
- Single point electrical connection: motor, controls, heater
- Stainless steel utensil basket
- Dual water temperature settings 110 low/130 high
- 2.5 kW heater with low water protection and dual temperature control
- Welded support legs with s/s feet
- 300 series stainless steel
- NEMA 4X control panel enclosure

Project	
Item	
Quantity	
Approval	
Date	

AquaScrubber Pot and Pan Washing System

- Automatic scrub sink reduces labor costs up to 56%.
- Innovative angled corners with 2 jets in each corner keep the ware moving
- No corners = No jams
- 2 hp TEFC pump
- Custom build to your application or choose from 2 pre-engineered systems

OPTIONS

- □ Undershelf on clean end drain board
- □ Sink overflows
- □ 1 to 8 hour pump timer
- □ Scrap trough in drain board
- Overshelf with mounting brackets (12" increments, 60" and up)
- □ End splash
- Disposal and cone (in soiled drain board, 48" minimum length)
- □ Hot water sanitizing booster heater
- Scrapper drain board with pre-rinse faucet
- Shelves (cantilevered or wall mounted)

SPECIFIER STATEMENT

Specified unit will be an Insinger AquaScrubber pot and pan washing system. Featured include heavy duty pump with 2-HP TEFC motor, basket style high-capacity lever action waste drain, fast flow mixing faucets, 2.5kW heater with low water protection and dual temperature control, and 300 series stainless steel construction.



Additional Information

Motor Size	2 hp
Heater Size	2.5 kW
Shipping Weight	Dash 109- 557 lbs. Marathon 140- 650 lbs.

Current Draw A	mps		
	Heater	Pump & Controls	Total
208/1/60	12.0	9.6	21.6
220-240/1/60	10.9	8.9	19.8
208/3/60	6.9	5.9	12.8
220-240/3/60	6.3	5.6	11.9
440-480/3/60	3.1	2.8	5.9

SPECIFICATIONS

CONSTRUCTION- Entire unit constructed of 300 series polished stainless steel.

SINKS AND DRAINBOARDS- Constructed of 14 gauge s/s. All interior corners are coved to 3/4" radius. Top is 14 gauge s/s all welded with 11" high splash on front and sides with a 1 3/4" rolled edge.

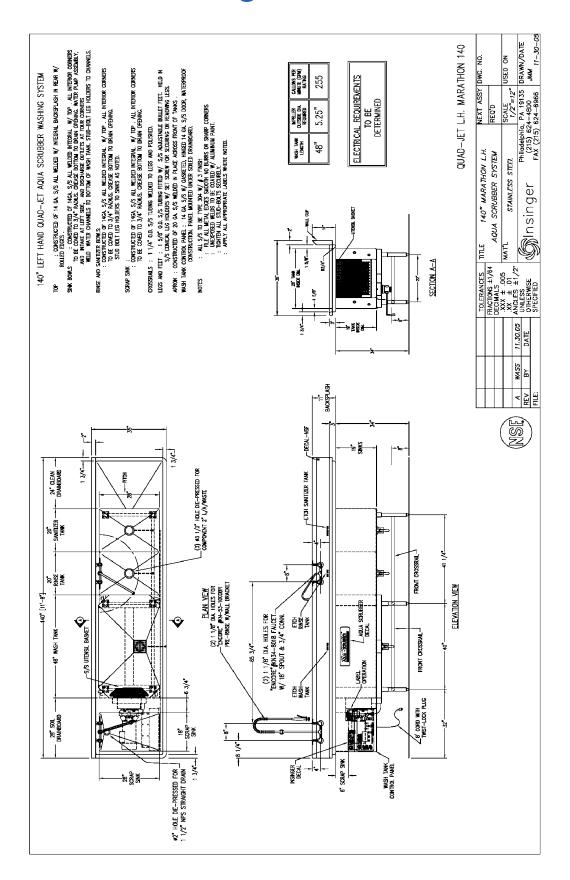
WASH SINK- Consists of side mounted intake manifold and specially designed nozzles strategically placed in corners for maximum scrubbing action. Intake manifold includes hinged access panel to facilitate cleaning of the intake chamber, heater and probes.

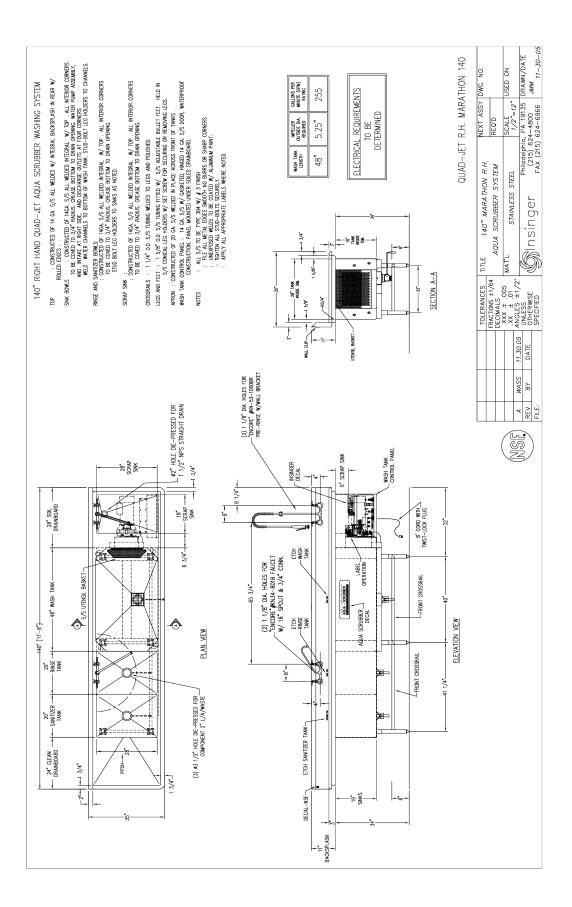
PUMP- The pump is heavy duty stainless steel construction with a 4" diameter intake and 3" diameter discharge. The motor is 2 hp totally enclosed, fan cooled with permanently sealed bearings.

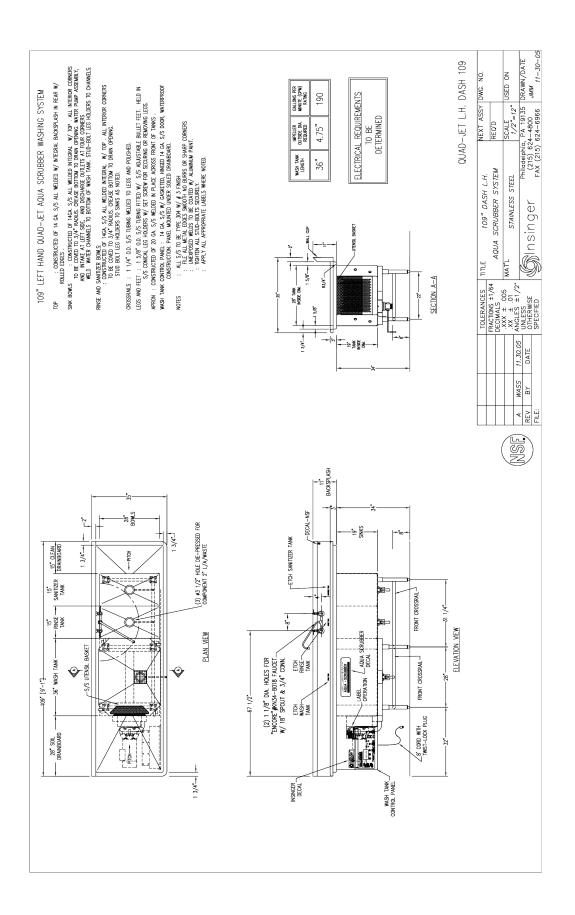
SUPPORT- The wash sink is supported by heavy gauge stainless steel channels welded to the underside of the sink. H frame leg assemblies are removable and have stainless steel adjustable bullet feet.

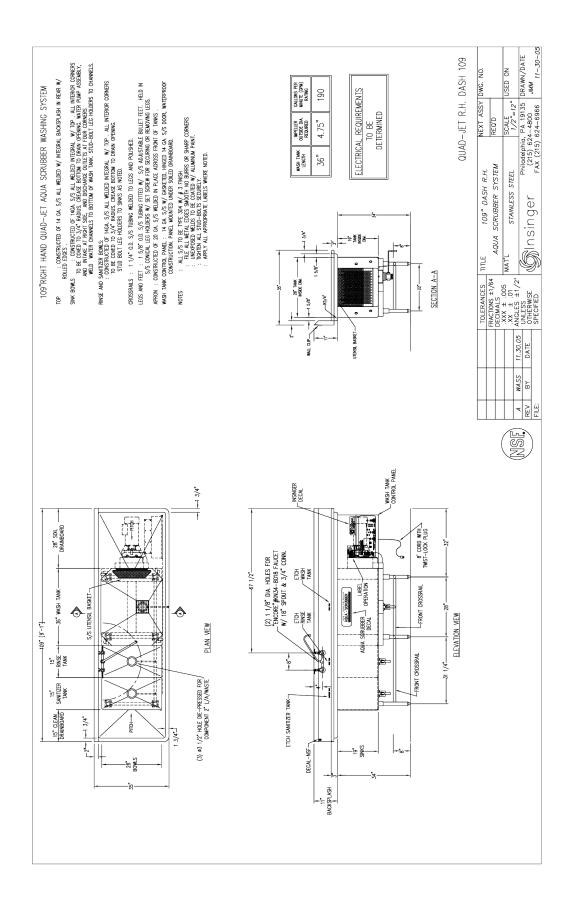
CONTROL PANEL- Control enclosure is made of 300 series stainless steel, completely welded and waterproof (NEMA 4X). On/off power switch, dual water temperature switch (low and high), on/off pump motor switch and reset switch. Heavy duty pump contactor and overload. Heavy duty grounded plug. Controls labeled in English and Spanish.

PRE-ENGINEERED SYSTEMS- The Dash 109 and Marathon 140.











INSINGER MACHINE COMPANY LIMITED WARRANTY

Insinger Machine Company, Inc. (Insinger) hereby warrants to the original retail purchaser of this Insinger Machine Company, Inc. product, that if it is assembled and operated in accordance with the printed instructions accompanying it, then for a period of either 15 months from the date of shipment from Insinger or 1 year (12 months) from the date of installation, that said Insinger product shall be free from defects in material and workmanship. Whichever one of the two aforestated limited warranty time periods is the longest shall be the applicable limited warranty coverage time period.

Insinger may require reasonable proof of your date of purchase; therefore, you should retain your copy of invoice or shipping document.

This limited warranty shall be limited to the repair or replacement of parts which prove defective under normal use and service and which on examination shall indicate, to Insinger's satisfaction, they are defective. Any part that is claimed to be defective and covered by this limited warranty must be returned to Insinger, this may be done through an Authorized Service Agency. Furnish serial number of machine with shipment and send to:

> Insinger Machine Company 6245 State Road Philadelphia, PA 19135-2996

If Insinger's inspection confirms the defect and the claim, Insinger will repair or replace such part without charge and return it to you freight or postage prepaid.

This limited warranty does not cover any failure or accident, abuse, misuse, alteration, misapplication, improper installation, fire, flood, acts of God or improper maintenance or service, or failure to perform normal and routine maintenance as set out in the instruction booklet (operating instructions) or for improper operation or failure to follow normal operating instructions (as set out in the instruction booklet). Insinger is not responsible nor liable for any conditions of erosion or corrosion caused by corrosive detergents, acids, lye or other chemicals used in the washing and or cleaning process.

Service must be done by either Insinger Appointed Service Agencies or agencies receiving prior authorization from Insinger.

All warranty work must be done during normal working hours, unless purchaser receives prior authorization from Insinger.

There are no other express warrants except as set forth herein and any applicable implied warranties of merchantability and fitness are limited in duration to the period of coverage of this express written limited warranty. This limited warranty supersedes all other express warranties, implied warranties of merchant-ability and fitness or limited warranties as of this date, January 1, 1998. Some states do not allow limitation on how long an implied warranty lasts so this limitation may not apply to you.

Insinger is not liable for any special, indirect or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation nor exclusion may not apply to you.

Insinger does not authorize any person or company to assume for it any other obligation or liability in connection with the sale, installation, use, removal, return or replacement of its equipment: and no such representations are binding on Insinger.



INSINGER MACHINE COMPANY LIMITED WARRANTY COMMERCIAL MARINE USE

Insinger Machine Company, Inc. (Insinger) hereby warrants to the original retail purchaser of this Insinger Machine Company, Inc. product, that if it is assembled and operated in accordance with the printed instructions accompanying it (installation manual), then for a period of 18 months from the date of installation on board the vessel, that said Insinger product shall be free from defects in material and workmanship.

Insinger may require reasonable proof of your date of equipment install, therefore, you should retain your copy of invoice or shipping document.

This limited warranty shall be limited to the replacement of parts which prove defective under normal use and service and which on examination shall indicate, to Insinger's satisfaction, they are defective. Any part that is claimed to be defective and covered by this limited warranty must be returned to Insinger. Furnish serial number of machine with shipment and send to:

> Insinger Machine Company, Inc. 6245 State Road Philadelphia, PA 19135-2996

If Insinger's inspection confirms the defect and the claim, Insinger will repair or replace such part without charge and return it to you freight or postage prepaid. If part damages are not covered, Insinger will contact the customer and advise.

If a factory trained authorized technician is required to repair or replace defective parts or material during the 18 month warranty period, the cruise line will be responsible for the payment of travel expense and a minimum of four hours labor. Labor will be billed to the customer at a reduced rate of \$40.00 per hour. If sailing with a vessel is required, then an eight hour per day minimum will apply.

This limited warranty does not cover accident, abuse, misuse, alteration, misapplication, improper installation, fire, flood, or improper maintenance or service, or failure to perform normal and routine maintenance as set out in the instruction booklet (operating instructions) or for improper operation or failure to follow normal operating instructions (as set out in the instruction booklet).

Insinger is not responsible nor liable for any conditions of erosion or corrosion caused by corrosive detergents, acids, lye or other chemicals used in the washing, caring and or cleaning process.

Warranty service must be done by either Insinger Appointed Service Agencies or agencies, customers galley engineers receiving prior authorization from Insinger.

There are no other express warrants except as set forth herein and any applicable implied warranties of merchantability and fitness are limited in duration to the period of coverage of this express written limited warranty. This limited warranty supersedes all other express warranties, implied warranties of merchantability and fitness or limited warranties as the above date.

Insinger does not authorize any person or company locally or overseas to assume for it any other obligation or liability in connection with the sale, installation, use, removal, return or replacement of its equipment; and no such representations are binding on Insinger.



INTRODUCTION

Purpose

The purpose of this technical manual is to provide installation, operation, cleaning and maintenance directions.

A section is provided for replacement parts.

Scope

This manual contains all pertinent information to assist in the proper installation, operation, cleaning, maintenance, and parts ordering for the QuadJet Aqua-Scrubber Warewashing System.

The installation instructions are intended for qualified equipment installers. The operation and cleaning instructions are intended for the daily users of the equipment. The maintenance and parts sections are intended for qualified service and/or maintenance technicians. Replacement parts may be ordered directly from our factory or from your local Insinger Authorized Service Agency. You can speak to the **Insinger Technical** Services Department, 800/344-4802, or e-mail us at service@insingermachine.com. When calling for warranty information or replacement parts please provide the model and serial number of your Insinger Equipment. These important numbers should be noted in this manual on the spaces provided on the opening page.

Surefire[™] Start-up & Check-out Program

Insinger is proud to offer our exclusive Surefire[™] Start-up & Check-out Program to our commercial customers. This service is included in the purchase price of your new Insinger dishwasher. We will provide an authorized factory service technician for the initial start-up of your new Insinger dishwasher to ensure it is running at optimum levels from the very first pass. Please call the factory or your local Insinger Sales Representative to schedule this service.

NSF 3-2003 requirements for detergent and chemical sanitizer dispensers.

This machine must be operated with an automatic detergent dispenser and, if applicable, an automatic chemical sanitizer feeder, including a visual means to verify that detergents and sanitizers are delivered or a visual or audible alarm to signal if detergents and sanitizers are not available for delivery to the respective washing and sanitizing systems. Please see instructions for electrical and plumbing connections located in this manual and in the feeder equipment manual.

Definitions

Throughout this guide you will find the following terms: WARNING, CAUTION, & NOTE.

WARNING indicates potential physical danger. **CAUTION** indicates potential equipment damage. **NOTE** indicates helpful operating hints or tips.

You will visually be able to identify each as shown below:



WARNING: Indicates potential physical danger.

b

NOTE:

Indicates helpful operating hints or tips.

CAUTION:

Indicates potential equipment damage.



Safety Summary

The following are general safety precautions that are not related to any specific procedures. These are recommended precautions that personnel must understand and apply during many phases of operation and maintenance.

Keep Away From Live Circuits

Operating personnel must at all times observe all safety regulations. Do not replace components or make adjustments inside the equipment with the high voltage supply turned on. Under certain conditions, dangerous potentials may exist when the power control is in the off position. To avoid casualties, always remove power, red tag machine and ground a circuit before touching it.

Do Not Service or Adjust Alone

Under no circumstances should any person reach into or enter the enclosure for the purpose of servicing or adjusting the equipment except in the presence of someone who is capable of rendering aid.

Resuscitation

Personnel working with or near high voltages should be familiar with modern methods of resuscitation. Such information may be obtained from the Bureau of Medicine and Surgery.



INSTALLATION INSTRUCTIONS Aqua-Scrubber

Placement

Carefully uncrate machine. Take caution not to damage components which may be mounted on the top or sides of the machine. Set unit in place and adjust the bullet feet to level the machine. Turning the bullet foot clockwise will lower the unit. Turning the bullet foot counter-clockwise will raise the unit.

Electrical Connections

Connect electrical lines sized for the correct voltage, current and phase of the machine. These should agree with the machine requirements indicated on the nameplate and labels on the control panel.

A single-point electrical connection is provided for the pumps, control circuit, and wash tank heater.

CAUTION:

Connections must be made to a circuit breaker or fused disconnect as provided by the end-user and required by local codes.

A laminated wiring diagram is inside the control panel.

Fuse Siz	ing Chart
Model	208-240VAC/10
Aqua-Scrubber	30A

Mechanical/Plumbing Connections

Connect hot (140°F) water line and cold water line to the provided faucet. Both are 3/4" connections.

Connect the drain line $(1 \frac{1}{2})$.

CAUTION:

Drain lines must be as specified on installation drawing.

Drain line must be properly vented and have fall of not less than ¼" to the foot of proper flow. Some area plumbing codes require drains to flow into an open gap with an opening twice the diameter of the pipe.

Check with your local plumbing codes for the type of drain connection required.

CAUTION:

All lines must be flushed prior to use to remove debris.

CAUTION:

Do not reduce the size of lines as specified in installation drawings. All lines are sized to facilitate necessary flows, pressures, etc.

For best washing results, use only Insinger Aqua Wash detergent in the wash tank. Three prepackaged pouches have been provided with your new Aqua Scrubber Warewashing System.

Open the Aqua Wash detergent pouch and dump into the wash tank. One packet will last 2-4 hours, depending on the soil load.

NOTE:

Contact Insinger for our exclusive AQUA WASH prepackaged detergent for use in your Aqua Scrubber Warewashing System. Toll-free, 800.344.4802 or on the internet, parts@insingermachine.com

Use any approved chlorine or iodine based foodgrade sanitizer in the sanitizing basin. Dilute to manufacturers specifications. Consult your local chemical supplier.

The unit should be regularly de-limed to avoid excessive limescale build-up in the tank and on components. Any approved limescale removal chemical



Operation & Cleaning Instructions Aqua-Scrubber

Follow these operation procedures and general cleaning procedures to ensure your Insinger warewasher will give you years to trouble free service.

Operation Instructions

Close the tank drain valve

All water lines must be open. All electrical circuits must be on.

Fill the tank(s) by opening the faucet. Each tank has a "Tank Fill" indication on the back wall. Fill to this level. The tank should be filled with HOT water.

On the control panel, move the power toggle switch to the "ON" position. The power light will illuminate.

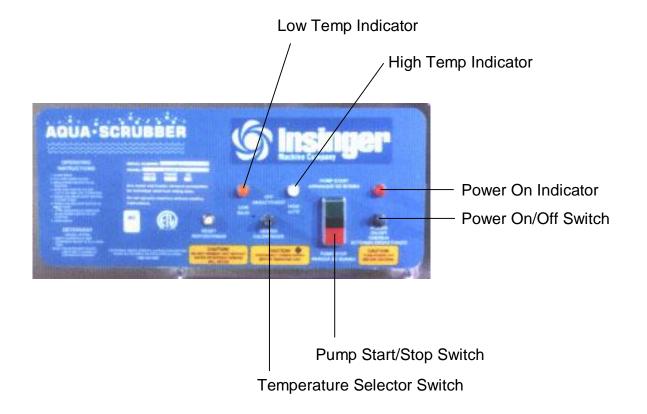
The Aqua Scrubber has two heat levels, high and low, controlled by the TEMPERATURE SELECTOR switch. Move the TEMPERATURE SELECTOR switch to the desired temperature. The appropriate indicator light will illuminate indicating that the tank is heating.

- Low Temperature is factory set to approximately 110°F
- High Temperature is factory set to approximately 140°F



WARNING:

Scalding occurs at 113°F. Do not remove ware from the Aqua-Scrubber with bare hands. Use a tool to aid in ware removal.





Operation & Cleaning Instructions Aqua-Scrubber

Operation Instructions (continued)

Place soiled ware into the Aqua-Scrubber wash tank.

Press the green pump start button to start the wash pump. Press the red pump stop button to stop the wash pump.



NOTE:

Overloading the wash tank will minimize the proper cleaning of ware.

When ware is clean, dip it into the rinse tank for rinsing and into the sanitizing tank for sanitizing.

Upon completion of ware cleaning move the power toggle switch to the "OFF" position.

Open the drains to allow the tanks to drain.

Refer to the cleaning procedures for proper cleanup of the Aqua-Scrubber.

Report any unusual occurances to qualified service personnel.

The following cleaning procedures should be done daily, at the end of the shift.

Cleaning procedures, daily:

Clean the hinged pump scrap strainer.

Flush the insides of each tank.



NOTE:

Improper cleaning of pump scrap strainers will cause the pumps to cavitate. This will cause poor washing results. Clean tank level probe (located under hinged pump scrap strainer).

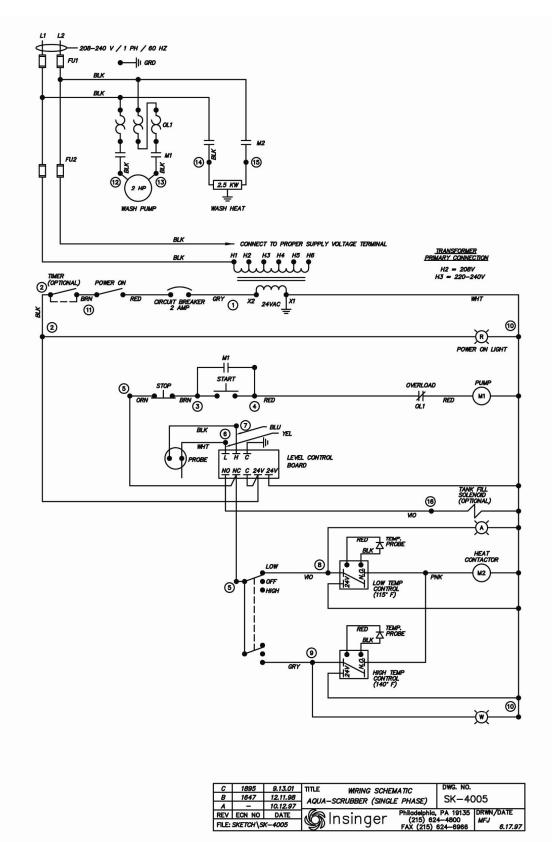
CAUTION:

Level probe must be cleaned daily. Build-up of scale or grease will cause faulty operation of the heat system.



	Basic Service Guide	
SYMPTOM	POSSIBLE CAUSE	SOLUTION
1. Machine will not operate	a. No power b. Blown fuse or tripped breaker c. Motor overload tripped	a. Check power supply b. Replace fuse; reset breaker c. Reset overload
2. Tank will not hold water	a. Drain not closed b. Pump petcock opened	a. Close drain b. Close pump petcock
3. Tank fills beyond overflow	a. Level probe dirty b. Level control system not operating correctly	a. Clean level probe b. Troubleshoot level control sys- tem
4. Weak wash	a. Clogged spray nozzles b. Obstruction in pump	 a. Clean spray nozzles b. Clear obstruction through pump inspection plate
5. Water hammer	a. Excessive water line pressure	a. Install shock arrestor
6. Tank not filling	a. Faucet turned off b. Ball valve turned off	a. Turn faucet on b. Turn ball valve on
7. Tank heat not working; temperature too low or high	 a. Heat switch not in LOW or HIGH position b. Level probe dirty c. Heat circuit not working d. Thermostat not adjusted e. Breaker turned off/tripped or blown fuse f. Element limed up 	 a. Move heat switch to desired position b. Clean level probe c. Troubleshoot heat circuit d. Adjust thermostat e. Turn on/reset breaker; replace fuse f. De-lime unit

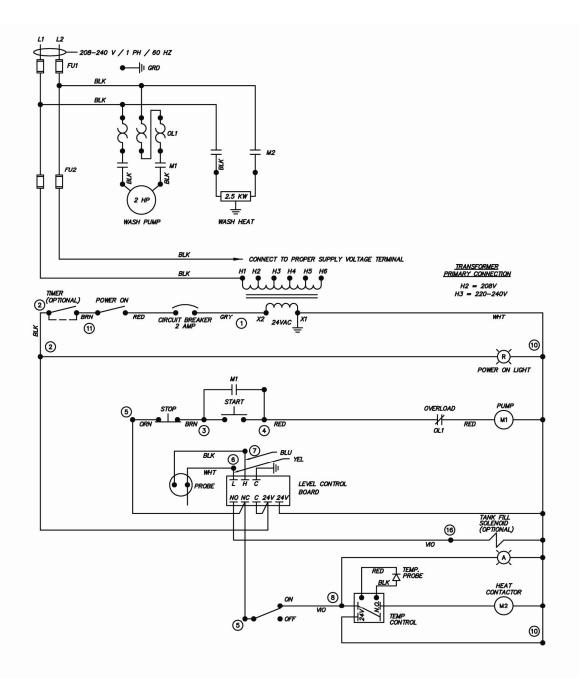






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13 RGE 268-247/760 RO-R-30 269-227 1 TERMINI, BLOK 269-207 269-227 1 TERMINI, BLOK 267-94 209-207 1 TERMINI, BLOK 267-94 209-207 1 TERMINI, BLOK 200-00-66-67 2000-66-67 1 TERMINI, BLOK 2000-66-67 2000-66-67 1 TERMINI, BLOK 2000-66-67 2000-66-67 1 TERMINI, BLOK 2000-66-67 2000-66-67 1 2000-66-67 2000-66-67 2000-66-67 1 2000-66-67 2000-66-67 2000-66-67 1 2000-66-67 2000-66-67 2000-66-67 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>FUSE BLOCK, 2 POLE</td><td>DE9-185</td><td></td></t<>									2	FUSE BLOCK, 2 POLE	DE9-185	
200-240//50 FIO-R-30 D5-227 11 ERMMA BLOK DC-R-30 D5-227 12 EXMAN BLOK DC-R-30 D5-227 13 ERMMA BLOK DC-R-30 D5-26-98 14 ERMMA BLOK DC-R-30 D5-26-98 15 ERMMA BLOK DC-R-30 D5-26-98 16 ERMMA BLOK DC-R-30 D5-26-98 17 LOCKWSER, 1/4 D0-00 18 ERMMA BLOK DC-R-30 D5-26-98 18 ERMMA BLOK DC-R-30 D5-26-98 19 ERMMA BLOK DC-R-30 D5-26-98 19 ERMMA BLOK DC-R-30 D5-26-98 19 ERMMA BLOK DC-R-30 D5-26-98 10 ERMMA BLOK DC-R-30 D5-27 10 ERMMA BLOK DC-R-30 D5-									13	FUSE		2
1 Телими влок 0 1 Телими влок 0 1 Телими влок 0 1 Соскизнек 0 <td></td> <td>DE9-227</td> <td></td>											DE9-227	
1 TERMINAL BLOCK DE-94 15 TERMINAL BLOCK END DE-94 16 0 0 17 LOCKWASHER 1/4 D306-cc-46 18 HEX NUT, 1/4-20 D302-cc-22 19 0 0 10 0 0 11 LOCKWASHER 1/4 D306-cc-46 12 0 0 13 0 0 14 0 0 10 0 0 11 LOCKWASHER 1/4 D306-cc-46 12 0 0 14 0 0 15 HEX NUT, 1/4-20 D312c-6c-2 16 0 0 17 LOCKWASHER 1/4 D312c-6c-2 18 HEX NUT, 1/4-20 D312c-6c-2 20 0 0 21 0 0 22 0 0 23 0 0 24 0 0 25 0 0 25 0 0 25 0 0 26 0 0 27 0 0 28 0 26 0 <td></td> <td></td> <td>(9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			(9									
17 10000000 174-20 1000000 1000-00-00-00-00-00-00-00-00-00-00-00-00		(-			Ģ	(12/13)			4	TERMINAL BLOCK	DE3-9A	16
1 1 <td></td> <td></td> <td>)-</td> <td></td> <td>-)</td> <td>3</td> <td></td> <td></td> <td>15</td> <td>TERMINAL BLOCK END</td> <td>DE3-9B</td> <td></td>)-		-)	3			15	TERMINAL BLOCK END	DE3-9B	
17 LOCKMASHER, 1/4 D313C-6C-2 18 HEX NUT, 1/4-20 D312C-6C-2 19 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 10 0			_						16	GROUNDING STUD, 1/4-20	D309C-GC-4	-
13 13 14 14 22 23 0 </td <td></td> <td></td> <td></td> <td>┝</td> <td></td> <td>F</td> <td></td> <td></td> <td>17</td> <td>LOCKWASHER, 1/4</td> <td>D313C-65</td> <td>1</td>				┝		F			17	LOCKWASHER, 1/4	D313C-65	1
				J Ľ					18 20 22	HEX NUT, 1/4-20	D312C-6C-2	-
The AQUA-SCRUBBER (14)(5) CONTROL PANEL LAYOUT - SINOLE PHASE (14)(5) CONTROL PANEL PHASE (14)(5) CONTROL PA		10000000000000000000000000000000000000	c									
		T									PUACE DUACE	
1857 2.15.07 FILE:SAFTON/SW-4006 1689 6.17.99 SCALE 1872 4.25.89 SCALE FOR M DATE SK-4006		(11)								Insinger (23)	PA 19135 DRWN 4-4800 MFJ	/DATE
1688 6.17.99 SCALE 1 1672 4.26.99 1=4 FCN NO DATE										1857 2.15.01	SK-4006	10:110
										1688 6.17.99 SCALE 1672 4.26.99	SK-4006	





9 12 13 14 15 NOT USED

			TITLE WIRING SCHE	MATIC	DWG. NO.	
			AQUA-SCRUBBER (FAST		SK-42	246
A	1895	9.13.01	AQUA-SCRODDER (FAST	· · · · · · · · · · · · · · · · · · ·		
REV	ECN NO	DATE	l Consinaer	Philadelphia,		DRWN/DATE
FILE:	SKETCH\S	K-4246	Machine Company	(215) 624 FAX (215) (MFJ 2.3.99

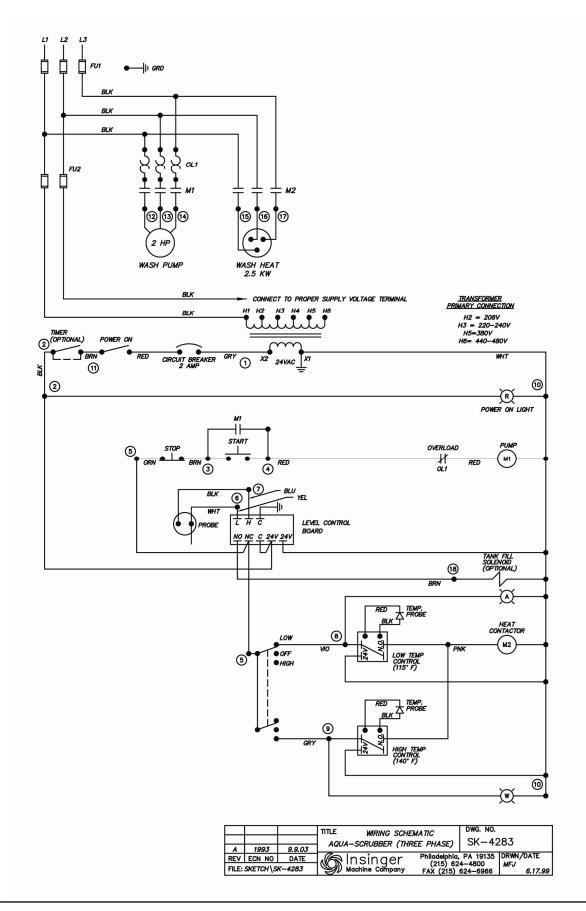


	THESE ITEMS SHIPPED LOOSE IN BAG	BAG			THESE ITEMS WIRED TOGETHER ON 18" PIGTAIL AND CONNECTED TO TERMINAL BLOCK.	ON 18" INAL BLOCK.			THESE ITEMS ATTACHED TO MOUNTING PLATE	UNTING PLATE	
34	BOOT (FOR DE5-32AE) ROOT (FOR TOCALE SWITCH)	DE5–69 DF9–13		ITEM	DESCRIPTION	PART NO.	аr	ITEM	DESCRIPTION	PART NO.	ar
36	HEX NUT (FOR TEMP PROBE)	D-337		23	PUSHBUTTON ASSY, START-STOP	DE5-32AE	1	1	COMPONENT MOUNTING PLATE	SK-4248	1
37				24	SWTCH (POWER ON)	DE5-8	-	~ '	TRANSFORMER (50 VA, 24 VAC)	DE6-8	1
				25	PILOT LIGHT (RED)	DE9-107		ω 4	FUSE BLOCK KIT (50 VA XFMR) FUSE (50 VA TRANSFORMER PRIMARY)	DE9-163	- 0
	ITEMS FOR REFERENCE ONLY			27	PILOT LIGHT (AMBER)	DE9-109	1		208 - 240 V FNQ-R75	DE9-166	I
			Т	28	CIRCUIT BREAKER (2A)	DE9-31		ŝ	4		1
ITEM	DESCRIPTION	PART NO.	ζLD	67 DE	SWICH (HEALEK) SENSOR (FOR TEMP CONTROL ROARD)	DE3-0			ZUG-Z4U/1/00 8-13 A	UEZ-37	
38	AQUA-SCRUBBER DECAL LOGO (INSINGER)	SK-4025-1	1	31	TIMER, 12 HOURS (OPTIONAL)	DE7-36					
	LIGHT BLUE	0 3007 10	,	32				1			5
	AQUA-SCRUBBER DECAL LUGU (NWS)	SK-4020-2	~					í a		DE2-60	1
39	DATA DECAL	SK-3715-1	1		THIS ITEM WRED ON 72" PIGTAIL WITH PUSH-ON	NO-HSH- HI		~ 00	CONTACTOR (PUMP) SP4 CONTACTOR (ELECT TANK HEAT) 30 A RES	DE1–93 ES DE1–109	
40	AQUA-SCRUBBER OVERLAY (INSINGER)	NEW	1		CONNECTORS AND CONNECTED TO TERMINAL BLOCK	RMINAL BLOCK.		0	DIN RAIL (35 mm)		1
	AQUA-SCRUBBER OVERLAY (NWS)	NEW		33	level probe assy (inc probe, nut, (D2470-31	<i>,</i>	10	TEMPERATURE CONTROL BOARD	DE9-251	1
41	WRING SCHEMATIC (FAST FOOD)	SK-4246	,		WASHER, & 2 GASKETS)	J	\ \	11	LEVEL CONTROL BOARD	DE9-85	1
								12	FUSE BLOCK, 2 POLE	DE9-185	1
						/					2
									208-240/1/60 FNQ-R-30	DE9-221	
		٩					/				
	0	e	6	(E	(2)(3)		/	14	TERMINAL BLOCK	DEJ-9A	6
	E	}	2	2)		/	15	TERMINAL BLOCK END	DE3-9B	1
							/		GROUNDING STUD, 1/4-20	D309C-6C-4G	0
			6				-	21	LOCK WASHER, 1/4	D313C-65	1
				(C)	(B)			19 20 21	HEX NUT, 1/4–20	D312C-6C-2	
			l în l				_	22			
		ີ	0 								
									IIILE AQUA-SCRUBBER CONTROL PANEL LAYOUT (FAST FOOD) 1 PHASE	ER T FOOD) 1 PHASI	
									Maringer (215) 624-4800 FXX (215) 624-4800 FXX (215) 624-6966	Philadelphia, PA 19135 DRW (215) 624–4800 MFJ FAX (215) 624–6966	DRWN/DATE MFJ 3.4.99
									1857 2.15.01 1672 4.26.99	DWG. NO. SK-4247	
									REV ECN NO DATE]



(1) 18 FOR 208-240 V (1) (1) 6 FOR 380-460 V (15) (16) 6 FOR 380-460 V (15) (17) 12 FOR 380-460 V (15)			Ũ	ITEM DESCRIPTION PART NO. QTY 29 SMTCH (HI-OFF-LOW) DE5-16 38 AQUA-SCRUBBER DECAL LOGO (INSINGER) SK-4025-1 1 31 TIMER, 12 HOURS (OPTIONAL) DE7-36 LIGHT BLUE 32 AQUA-SCRUBBER DECAL LOGO (NWS) SK-4025-2 1	PILOT LIGHT (MHITE) PILOT LIGHT (MHITE) CIRCUIT BREAKER (2A)	34 BOOT (FOR DE5-32AE) DE5-69 1 ITEM DESCRIPTION PART NO. 35 BOOT (FOR TOGGLE SWITCH) DE9-13 2 ITEM DESCRIPTION ASSY, START-STOP DE5-32AE 36 HEX NUT (FOR TEMP PROBE) D-337 2 23 PUSHBUTTON ASSY, START-STOP DE5-32AE 37 37 2 24 SWITCH (POWER ON) DE5-32AE	THESE ITEMS SHIPPED LOOSE IN BAG PIGTAIL AND CONNECTED TO TERMINAL BLOCK.
50 <			222			-	
		\$	THIS ITEM WIRED ON 96" PIGTAL W CONNECTORS AND CONVECTED TO TE EL PROBE ASSY (INC PROBE, NUT, 'HER, & 2 GASKETS)	TCH (HI-OFF-LOW) ISOR (FOR TEMP CONTROL BOARD) R, 12 HOURS (OPTIONAL)	DT LIGHT (MHITE) DT LIGHT (MHITE) DT LIGHT (AMBER) DUIT BREAKER (2A)	DESCRIPTION HBUTTON ASSY, START-STOP TCH (PORT ON)	PIGTAIL AND CONNECTED TO TERMINAL BL
			TH PUSH-ON RMINAL BLOCK. D2470-31	DE5–16 DE9–252 DE7–36	DE9-108 DE9-109 DE9-31	PART NO. DE5–32AE DE5–8	INAL BLOCK.
			1	- 10 -		атү 1	
	15 16 17 20 21 20 22		0 1 00 0	տ		ITEM	
ITTLE AQUA-SQUBER CONTROL PANEL LAYOUT - THREE PHASE In Singer In Singer Phadephia, PA 19135 Instantion In Singer Instantion Instantion	250/3/50 380/3/50 FIND-R-15 460/3/60 FIRMINAL BLOCK ERCUNDING STUD, 1/4-20 LOCKWASHER, 1/4 LOCKWASHER, 1/4 LOCKWASHER, 1/4 TERMINAL BLOCK (6) 380-460 V WLY	TEMPERATURE CONTROL BOARD LEVEL CONTROL BOARD FUSE BLOCK, 3 POLE FUSE 208/3/60 FNQ-R-20	SE PUMP) FLECT TA mm)	460 V FNO-R5 OVERLOAD RELAY (2 HP PUMP) 230/3/60 5.5-8 A 230/3/60 5.5-8 A 380/3/50 4-6 A	VA TRANSFO 230 V	DESCRIPTION COMPONENT MOUNTING PLATE TRANSFORMER (SO VA, 24 VAC)	
	×					PART N SK-400 DE6-8	
IA-SRUBBER LAYOUT - THREE PHASE Phibalphia, PA 19135 DRWN/DATE Phibalphia, PA 19135 DRWN/DATE FAC (215) 524-4800 MFJ FAK (215) 524-4806 MFJ FAK (215) 524-4806 MFJ FAK-KERN/SK-4280 MFJ 6.17. SCALI DWG. NO. SK-4280	DE3-181 DE3-94 DE3-98 D309C-6C-46 D313C-65 D312C-6C-2 D53-155 DE3-155	DE9–251 DE9–85 DE9–186 DE9–184	DE2–53 DE2–60 DE1–93 DE1–109 DE9–84	DE9–196 DE2–55 DE2–55 DE2–54	DE9-166 DE9-196	PART NO. SK-4009 DE6-8 DE6-163	

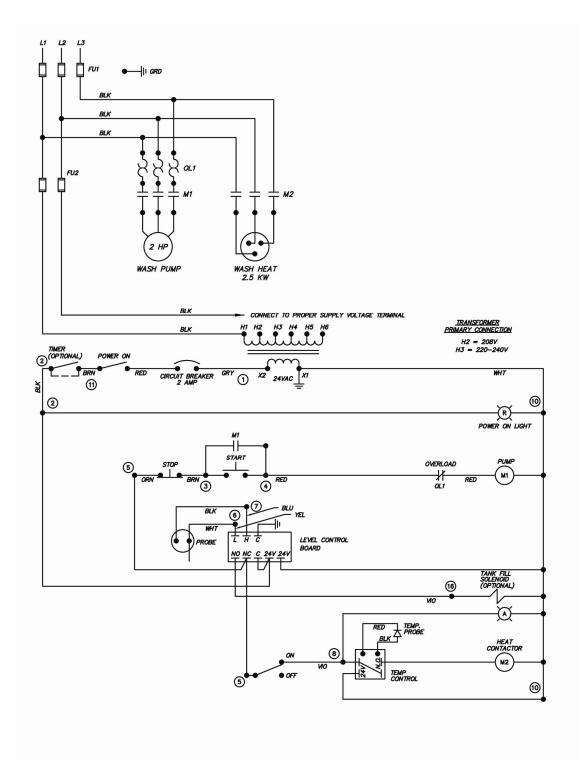






	these items shipped loose in bag	BAG			THESE ITEMS WRED TOGETHER ON 18" PIGTALL AND CONNECTED TO TERMINAL BLOCK.	ON 18" IINAL BLOCK.			THESE ITEMS ATTACHED TO MOUNTING PLATE	INTING PLATE	
35	BOOT (FOR DE5-32AE) BOOT (FOR TOGGLE SWITCH)	DE5-69 DE9-13	- 0	ITEM	DESCRIPTION	PART NO.	ar	ITEM	DESCRIPTION	PART NO.	ary
38	HEX NUT (FOR TEMP PROBE)	D-337	1 ~	23	PUSHBUTTON ASSY, START-STOP	DE5-32AE	1	1	COMPONENT MOUNTING PLATE	SK-4248	1
37				24	SWITCH (POWER ON)	DE5-8	1	~	TRANSFORMER (50 VA, 24 VAC)	DE6-8	1
				25	PILOT LIGHT (RED)	DE9-107	1	ς.	FUSE BLOCK KIT (50 VA XFMR)	DE9-163	1
				52			,	4	15+0		N
	ITEMS FOR REFERENCE ONLY			17	PILUI LIGHI (AMBER) CIRCUIT RREAKER (24)	DE9-109 DF0-31			208 - 230 V FNQ-R75 460 V FNO-P-5	DE9-166	
		010 1010	740	50	SWITCH (HEATER)	DE5-8		ŝ	RELAY (2 H	061-670	1
ILEM		FARI NO.		30	SENSOR (FOR TEMP CONTROL BOARD)	DE9-252			208/3/60 5.5-8 A	DE2-55	
38	AQUA-SCRUBBER DECAL LOGO (INSINGER)	SK-4025-1	1	31	TIMER, 12 HOURS (OPTIONAL)	DE7-36	1			DE2-55	
	FIGHT BLUE			32					460/3/60 2.5-4 A	DE2-53	
	AQUA-SCRUBBER DECAL LOGO (NWS)	SK-4025-2	1					Q		DE2-60	1
¢ ¥	DARK BLUE	CV 1715 1			THIS ITEM WIRED ON 72" PIGTAIL WITH PUSH-ON	NO-HSNA HI			CONTACTOR (PUMP) SP4		
64	ADIA-SCRIBBER OVERIAY (INSINGER)	NEW			CONNECTORS AND CONNECTED TO TERMINAL BLOCK.	ERMINAL BLOCK.		0 0	CUNIACION (ELECT TANK HEAT) JU A KES DIN PAN (75 mm)		- •
2	AQUA-SCRUBBER OVERLAY (NWS)	NEW		33	LEVEL PROBE ASSY (INC PROBE NUT	02470-31		01	TEMPERATURE CONTROL BOARD	DF9-251	
41	WIRING SCHEMATIC (FAST FOOD)	SK-4523	I		WASHER. & 2 GASKETS)	Ì		11	LEVEL CONTROL BOARD	DE9-85	1
						+		12	FUSE BLOCK, 3 POLE	DE9-186	1
									FUSE		۳
										DE9-184	
						_			230/3/60 FNQ-R-20	DE9-184	
		(460/3/60 FNQ-R-10	DE9-181	
		, ک	(((_		;			¢
	e	- -	<u>ک</u>	Ð	(12(1)			41	IERMINAL BLOCK	DEJ-9A	+ ת
	Z					-		15	IERMINAL BLOCK END	D 2000-00-00	
								2	COUNDING STUD, 1/4-20	D2420 0E	- •
	ΙL		0				-	2 9	LUCANASTER, 1/4	00100-00	- •
				(6(7(B)®			50 50	MEX NUI, 1/4-20	1312C-6C-Z	-
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		(°ĸ				_	1			
			2 24								
		ے ۔ ا	0 7 °						TTLE ADIA-SCRUBBER		
	14/15								CONTROL PANEL LAYOUT (FAST FOOD) 3 PHASE	FOOD) 3 PHAS	
	8								Insinger 244900	PA 19135 DRWN	DRWN/DATE MFJ
									Ē	024-0900 SK-4522	10.22.01
									SCALE	DWG. NO.	
									DEV ECN NO DATE	SK-4522	



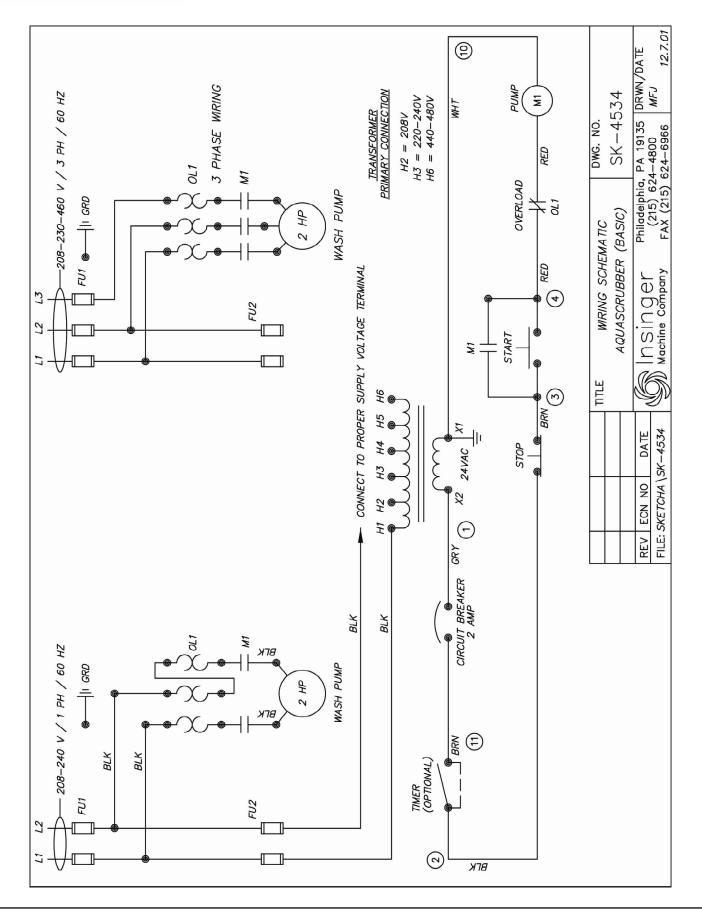


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		TITLE WIRING SCHE AQUA-SCRUBBER (FAST		dwg. no. SK-45	523
ECN NO	DATE K-4523	S Insinger Machine Company	Philadelphia, (215) 624 FAX (215)	4-4800	DRWN/DATE MFJ 10.22.01

S Insinger





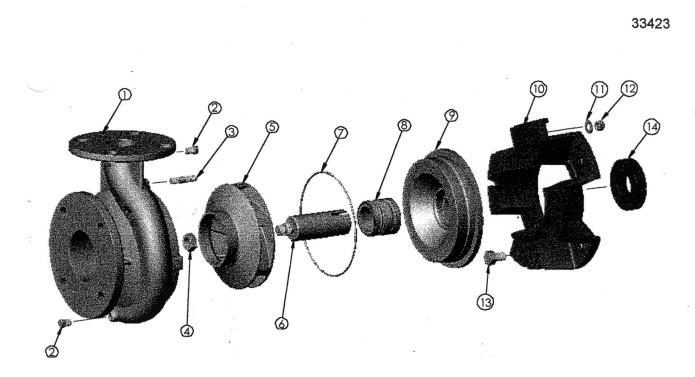


	ā	THESE ITEMS WRED TOGETHER ON 18" PIGTALL AND CONVECTED TO TERMINAL BLOCK.	DN 18" VAL BLOCK.			THESE ITEMS ATTACHED TO MOUNTING PLATE	INTING PLATE	
	ITEM	DESCRIPTION	PART NO.	ary	ITEM	DESCRIPTION	PART NO.	aту
		PUSHBUTTON ASSY, START-STOP	DE5–32AE	1	1	COMPONENT MOUNTING PLATE	SK-4544	1
		CIRCUIT BREAKER (2A)	DE9–31	1		TRANSFORMER (50 VA, 24 VAC)	DE6-8	1
	20 TIMER, 12	ПМЕR, 12 HOURS (ОРПОNAL)	DE7-36	1	5	FUSE BLOCK KIT (50 VA XFMR)	DE9–163	۰ ،
	22					208 - 240 V FNO-R-75	DE9-166	N
							DE9-196	
		THESE ITEMS SHIPPED LOOSE IN BAG	BAG		ŝ	2 H		1
		BOOT (FOR DEE_ 3345)	DF5_60			208-240/1/60 9-13 A 208/3/60 55_8 4	DE2-5/ DF2-55	
	24		200	-			DE2-55	
		ITEMS FOR REFERENCE ON Y				460/3/60 2:3-4 A OVERLOAD BASE	UEZ-53 DE2-60	1
					~	CONTACTOR (PUMP) SP4	DE1-93	1
	25 WIRING S	WIRING SCHEMATIC (BASIC)	SK-4534		90	DIN RAIL (35 mm)		1
I						FUSE BLOCK, 2 POLE (FOR SINGLE PHASE) Elise di Acy 3 dal e (edd 3 du ase)) DE9–185 DE0–186	
					0	FUSE	223	AR
						208-240/1/60 FNQ-R-20	DE9-184	
							DE9–183	
							DE9–183	
(460/3/60 FNQ-R-10	DE9—181	3
					11	TERMINAL BLOCK	DE3-9A	5
	6				12	TERMINAL BLOCK END	DE3-9B	1
)					GROUNDING STUD, 1/4-20	D309C-GC-4G	1 5
						LOCKWASHER, 1/4	D313C-G5	1
					15	HEX NUT, 1/4–20	D312C-GC-2	1
)	(16			
	(5)			_	2			
<u> </u>								
(<u>100000</u>)								
0 								
(1)(12)						IIILE AQUA-SCRUBBER CONTROL PANEL LAYOUT (BASIC)	R (BASIC)	
<u>}</u>							1	DOVAL /DATE
							4-4800 MFJ	19 7 01
							SK-4535	
						SCALE	DWG. NO.	
						REV ECN NO DATE 7=4	SK-4535	



PART NUMBER	DESCRIPTION	QUANTITY
D10X014	Basket Strainer	1
D130002	Crumb Cup Lever Drain	1
D10X021	O-ring Lever Drain	1
D507200	Lever Drain Complete Assembly	1
KN531000BR	Pre-Rinse Spray with Wall Bracket	1
KN348018	Wash Tank Faucet	1
KN548012	Rinse & Sanitize Tank Faucet	1
436620065044	480 Volt Heating Element	1
23278210001	208 & 204 Volt Heating Element	1





ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	31469	Volute S/S	1
2	21255	Pipe Plug S/S 1/8" NPT	2
3	21261	Stud S/S 3/8- 16 x 1 5/8"	4
4	29194	Hex Jam Nut S/S 5/8-18	1
5	31571	Impellar S/S 5.6" dia.	1
6	31806	Drive Sleave S/S	1
7	31233	O-ring Viton	1
8	31374	Mech. Seal 1.5" T-2100	1
9	31093	Seal Housing S/S	1
10	31711	Motor Adapter 145TC	1
11	28053	Washer S/S 3/8"	4
12	21268	Hex Nut S/S 3/8-16	4
13	25663	Cap Screw S/S 3/8-16 3/4"	4
14	23039	Clamp	1





Parts List				
Motor & Pump				
Part Number	Description	Quantity		
34415-0001	Pump & Motor Assembly	1		
	Pump 3 1/2" Intake x 3"			
21042	Pump Discharge Elbow	1		
5663k12	Screw Clamp	2		
INS0075P001	1" O.D. Tubing	4		
INS0076P001	1" O.D. Tubing	4		
NMLT-50	1/2" PVC Liq. Tight Conn.	4		
STOCK	Bolt, Hex Head S/S	1		
STOCK	Nut Hex	4		
STOCK	Washer Lock	8		
Controls				
SK4280-0001	Control Panel Large	1		
208V-3PH-0001				
Special Order	Tubing Heat Shrink	1		
Special Order	Watertight Connector	2		
STOCK	S/S Truss Head Screw	2		
STOCK	1/4-20 UNC S/S Weld Nut	2		
M48-0122	S/S Continuous Hinge	1		
MISC 1066	Door Gasket	1		
G89-851	1/2" Flex Conduit	4 ft.		
NMLT9050	1/2" 90° Liq/Tight Conn.	2		
CG-5050	1/2" Liq/Tight Conn.	1		
2462	1/2" Liq/Tight Conn.	1		
ITCSN08006PK	Tubing Heat Shrink	1		

	Parts List	
	Misc. Electric	
Part Number	Description	Quantity
436620065040	Immersion Heater	1
104S0W	Cord	8 ft.
HBL-2421	Twist Lock Plug	1
	Miscellaneous	
QUAD 2508	Utility Basket	1
MISC 2407	S/S Wire Guard	1
A10-0851	S/S Bullet Foot	10
A18-0406	S/S Leg Holder (Plate)	6
A18-0206	S/S Leg Holder	4
J77-4401	Double Pot Hook	44