

SPACEMAN^{USA}

COMMERCIAL ICE CREAM & FROZEN BEVERAGE EQUIPMENT

PARTS LIST



MODEL SM-6690H

FROZEN BEVERAGE - COUNTER TOP - SINGLE FLAVOR

Customer Service

Sunday – Saturday
8 AM – 5 PM Mountain

Toll-Free: +1 (888) 610-5520

Local: +1 (720) 328-1020

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Sales and Product Information

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8 AM – 5 PM Mountain

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TROUBLESHOOTING

PROBLEM: PRODUCT IS TOO FIRM

Probable Cause

1. Inadequate mix in hopper
2. Improper mixing of product
3. Torque arm is not installed correctly
4. Viscosity adjustment is set incorrectly

Remedy

1. Ensure hopper is at least half full
2. Follow manufacturer instructions for mixing product; ensure correct mix ratios
3. Install torque arm on dispensing door
4. Lower viscosity setting as required (Page 17)

PROBLEM: PRODUCT IS TOO SOFT

Probable Cause

1. Improper mixing of product
2. Missing, damaged, or incorrectly installed beater blades
3. Viscosity adjustment is set incorrectly
4. Beater is rotating counter-clockwise

Remedy

1. Follow manufacturer instructions for mixing product; ensure correct mix ratios
2. Inspect beater blades for damage and correct installation
3. Increase viscosity setting as required (Page 17)
4. Call Spaceman USA Technical Support

PROBLEM: MACHINE WON'T OPERATE IN

Probable Cause

1. Machine is unplugged
2. Tripped circuit breaker or blown fuse
3. Machine has tripped safety reset

Remedy

1. Verify machine is plugged into power source
2. Verify and reset circuit breaker and/or fuse
3. Reset machine (Page 16)

PROBLEM: COMPRESSOR DOESN'T WORK

Probable Cause

1. Machine has tripped safety reset due to motor overload

Remedy

1. Reset machine (Page 16)

PROBLEM: DRIVE SHAFT WON'T REMOVE

Probable Cause

1. Lubrication on square ends of drive shaft
2. Scoring due to lack of lubrication

Remedy

1. Do NOT lubricate the square end of the drive shaft; contact Spaceman USA Technical Support for instructions on removing and inspecting drive shaft and gear box for damage
2. Replace Drive Shaft, use additional lubrication

PROBLEM: PRODUCT WON'T DISPENSE

Probable Cause

1. Product is over-frozen in cylinder
2. Inadequate mix in hopper
3. Power switch is in the OFF position
4. Unit is unplugged
5. Tripped circuit breaker or blown fuse
6. Improper mixing of product
7. Machine has tripped safety reset
8. Beater assembly is rotating counter-clockwise or is not rotating

Remedy

1. Lower viscosity setting as required (Page 17)
2. Ensure hopper is at least half full
3. Turn power switch to FREEZE
4. Verify machine is plugged into power source
5. Verify and reset circuit breaker and/or fuse
6. Follow manufacturer instructions for mixing product; ensure correct mix ratios

PROBLEM: SCORED CYLINDER WALLS

Probable Cause

1. Broken torque or beater assembly
2. Beater guide worn or missing

Remedy

1. Repair or replace torque or beater assembly
2. Replace or install beater guide

PROBLEM: PRODUCT LEAKS EXCESSIVELY

Probable Cause

1. Improper or inadequate lubrication of drive shaft gasket
2. Damaged, missing, or improperly installed drive shaft gasket

Remedy

1. Use sufficient food-grade lubricant, and add sufficient lubricant inside drive shaft gasket during assembly (Page 11)
2. Replace drive shaft gasket every 1 to 3

PROBLEM: PRODUCT LEAKS EXCESSIVELY

Probable Cause

1. Improper or inadequate lubrication of draw valve and draw valve O-rings.
2. Cracked, broken, or worn draw valve O-rings

Remedy

1. Use sufficient food-grade lubricant when assembling draw valve (Page 12)

PROBLEM: MACHINE SHUTS DOWN

Probable Cause

1. Cylinders are experiencing freeze-up (usually due to viscosity being set too high for selected product)

Remedy

1. Reset machine (Page 16), and lower viscosity as

MACHINE SPECIFICATIONS

SM-6690H

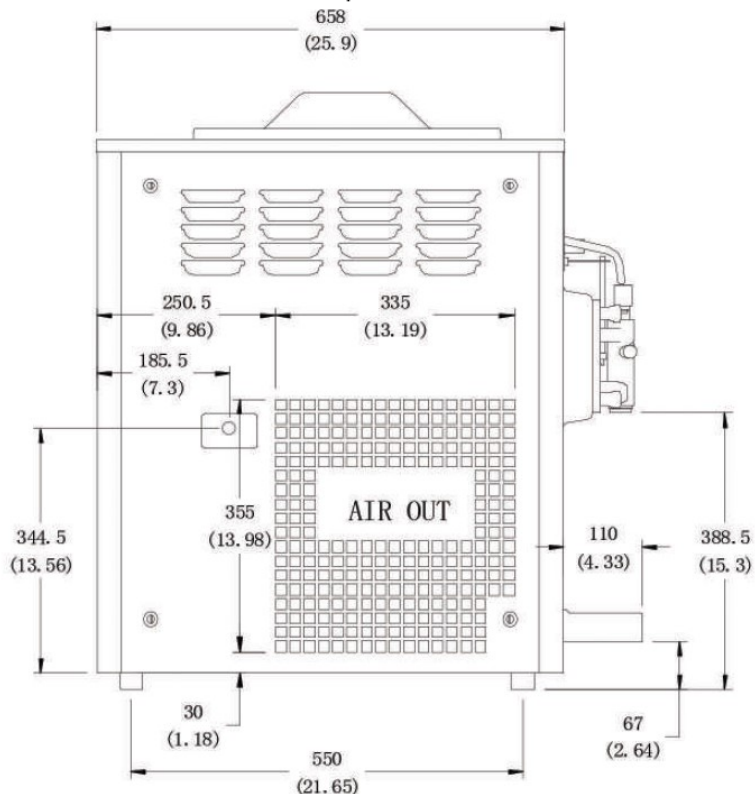
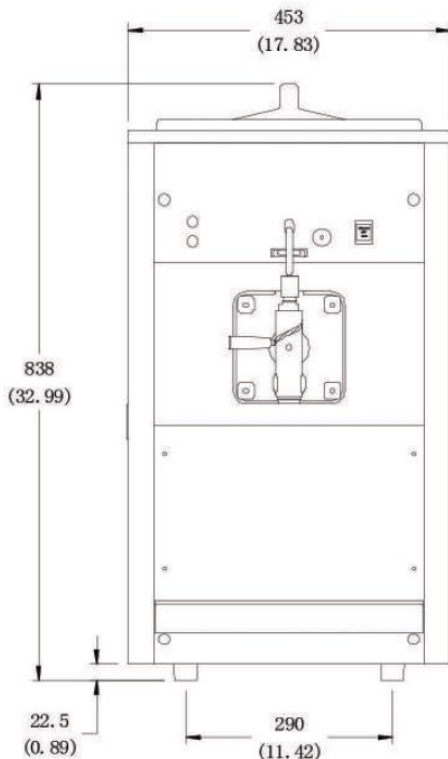
FROZEN BEVERAGE FREEZER

PRODUCT INFORMATION

Type	Counter Top
Flavors	1
Cooling	Air Cooled
Freezing Cylinders	1x 6.9 L / 7.3 qt
Product Mix Hoppers	1x 25.0 L / 26.4 qt
Output (8oz Servings)	59 qt / hr 236 servings / hr
Motor	1x 0.80 HP, 600W
Compressor (Main)	1x 8000 BTU, R404A
Compressor (Auxilliary)	1x 480 BTU, R134A

FEATURES

Machine Controls	Single, Analog
Refrigerated Hopper	Yes
Hopper Agitator	Yes
Temperature Display	No
Standby Mode	Yes
Low Mix Indicator Light	Yes
Low Mix Indicator Alarm	Yes
Low Temperature Protection	No
Motor Amperage Protection	Yes, Mechanical
High Pressure Protection	Yes
Thermal Overload Protection	Yes



DESCRIPTION

A high capacity single flavor countertop frozen beverage freezer. Designed to produce a variety of frozen beverages including: Margaritas, Daiquiris, Fruit Juices, Slushies, etc. Automated analog control system automatically regulates and maintains consistent product quality. Refrigerated hopper allows product to stay fresh and is approved for dairy and non-dairy products.

CUSTOM OPTIONS

Air Chute, Light Box, Spinner (1 or 2)

ELECTRICAL SPECIFICATIONS

	Maximum Fuse Size	Min. Circuit Ampacity	Poles (P) Wires (W)
208-230/60/1	1 x 20A	1 x 15A	2P / 3W

Electrical Plug: 1x NEMA L6-20

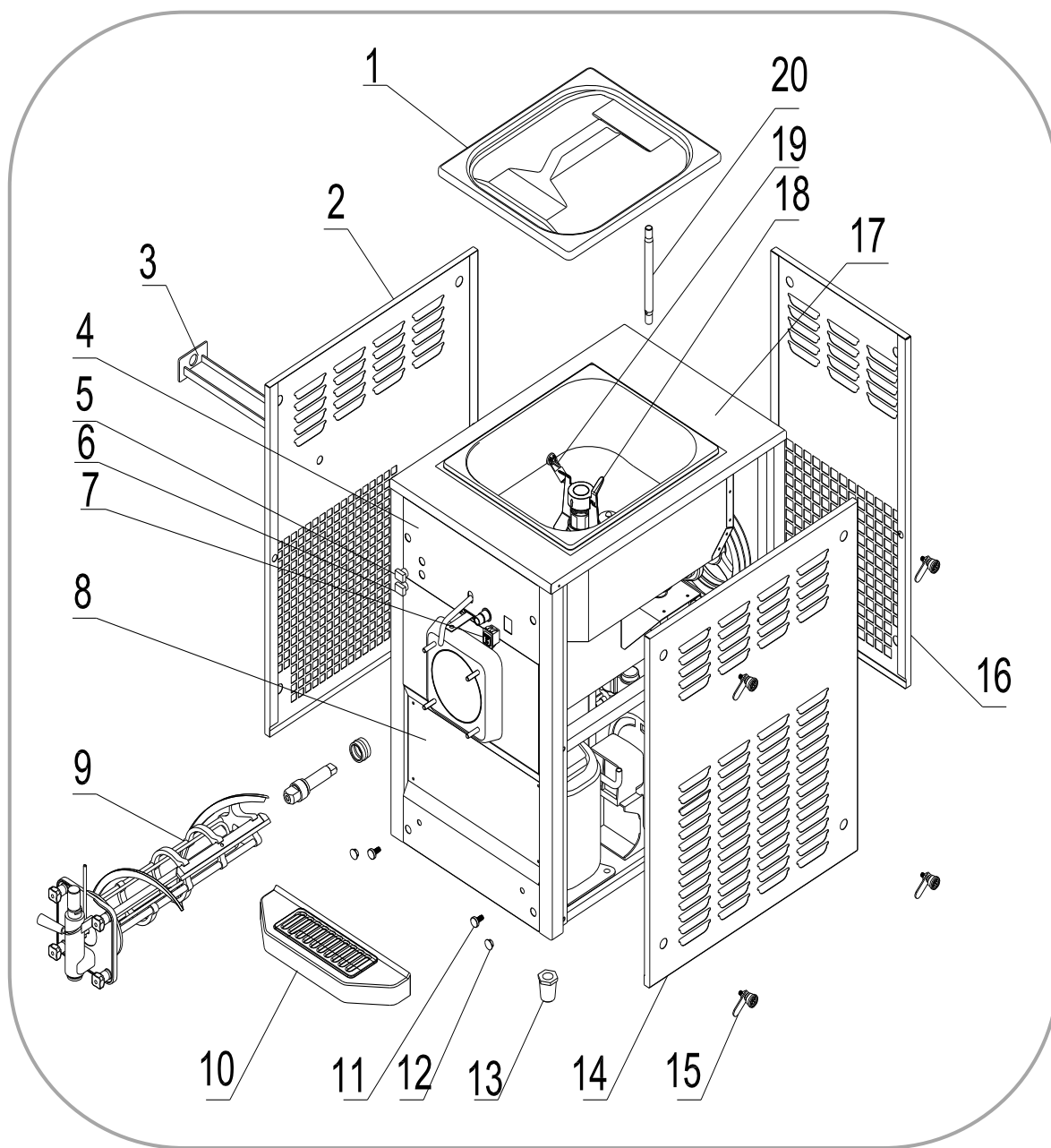
SIZE SPECIFICATIONS

	Machine		Shipping	
Weight	130 kg	287 lbs	140 kg	309 lbs
Depth (mm / in)	658*	26.0*	840	33.1
Width (mm / in)	453*	17.9*	510	20.1
Height (mm / in)	838	33.0	1080	42.6

Shipping Volume: 0.48 CBM / 16.34 CBF

* Machine Requires Minimum 6" Clearance on all sides

SPECS—EXTERNAL PARTS



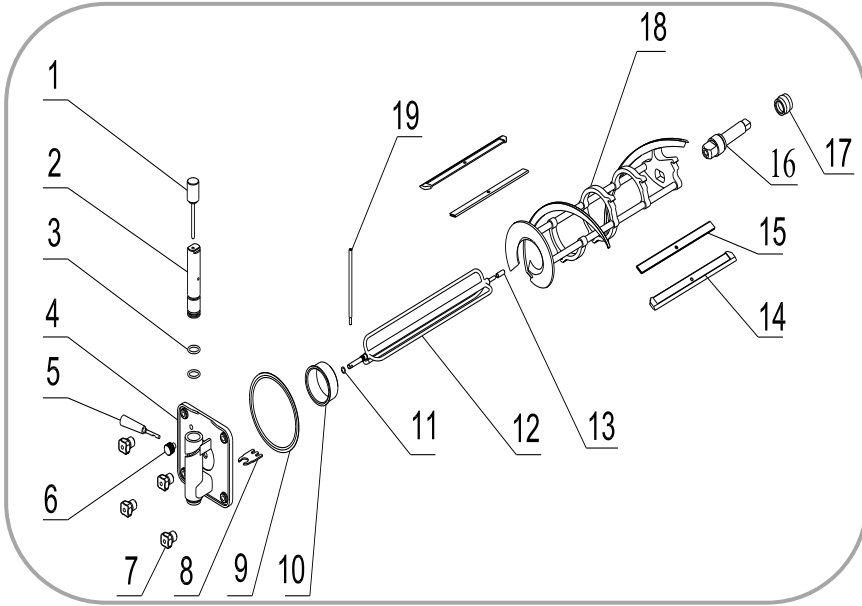
Item	Part #	Description
1	3.4.03.02.001	Hopper Lid
2	2.3.4.18.005	Panel - Left
3	3.4.04.02.001	Internal Drip Tray
4	2.3.4.07.009	Panel - Front - U
5	3.1.02.14.001	Low Mix Indicator
6	3.1.03.04.015	Standby Switch
7	3.1.03.03.002	Power Switch
8	2.3.4.17.005	Panel - Front - L

Item	Part #	Description
9	2.1.1.10.0004	Beater
10	3.4.04.01.002	Drip Tray
11	3.6.39.004	Drip Tray Mount
12	3.4.07.01.001	Bolt Cover
13	3.3.05.03.001	Leg
14	2.3.4.20.004	Panel - Right
15	8.1.07.001	Panel Lock
16	2.3.4.13.006	Panel - Rear

Item	Part #	Description
17	2.1.1.03.0012	Hopper Assembly
18	2.1.1.23.0001	Agitator Blade
19	3.1.03.04.009	Low Mix Sensor
20	2.1.3.39.0006	Air Tube

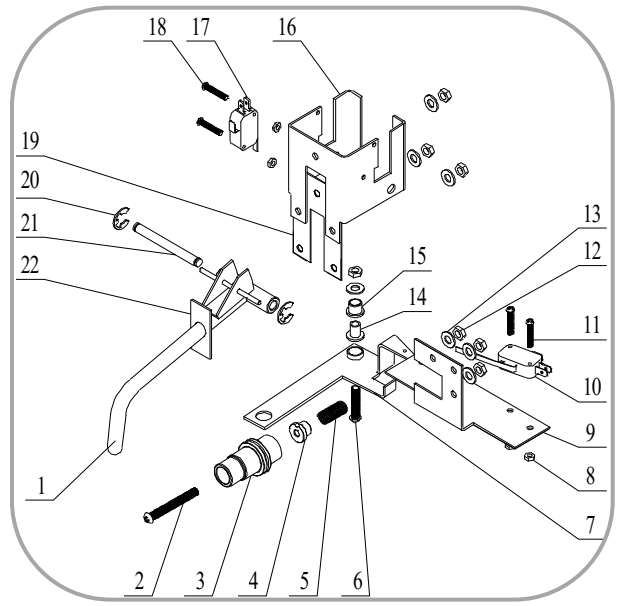
SPECS—OPERATING PARTS

Dispensing Door and Beater

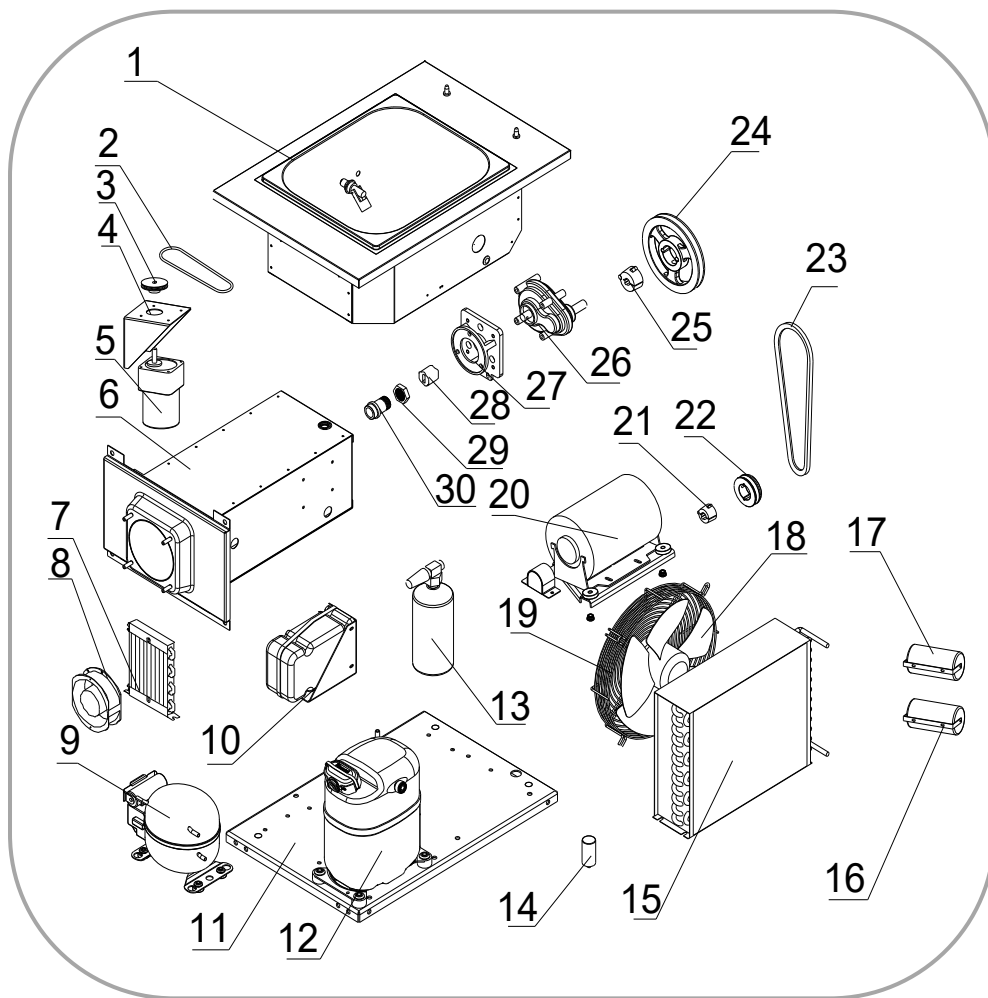


Item	Part #	Description
1	2.1.3.36.0004	Draw Valve Pin
2	2.1.3.01.0006	Draw Valve
3	3.4.08.01.036	O-Ring - Valve
4	2.1.3.14.0006	Dispensing Door
5	3.4.05.01.002	Dispensing Handle
6	3.4.07.08.001	Prime Plug
7	2.1.4.01.002	Hand Screws
8	2.1.4.04.014	Ice Buster
9	3.4.08.02.005	Door Gasket
10	3.4.01.03.003	Beater Guide
11	3.4.08.01.012	O-Ring - Torque
12	2.1.1.31.0001	Torque Assembly
13	3.4.01.03.004	Torque Guide
14	3.4.02.01.003	Scraper Blade
15	2.3.4.04.003	Scraper Blade Clip
16	2.1.3.25.0003	Drive Shaft
17	3.4.07.05.002	Drive Shaft Gasket
18	2.1.1.10.0004	Beater
19	2.3.6.03.007	Torque Arm

Control Levers



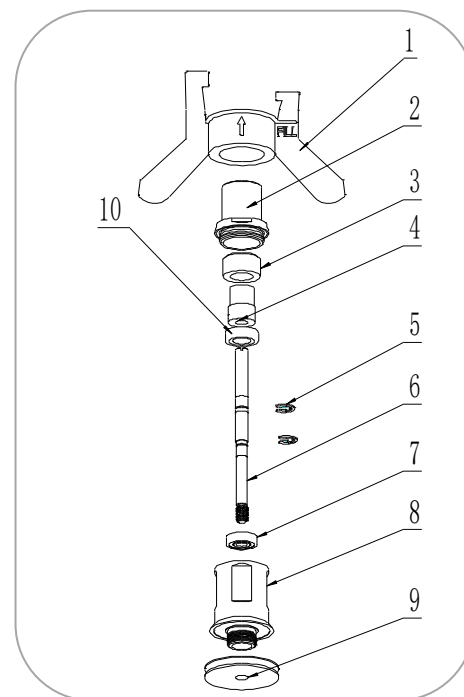
Item	Part #	Description
1	2.1.4.04.018	Draw Lever
2	3.6.22.026	Visc. Screw - M5x45
3	2.1.4.04.012	Viscosity Housing
4	2.1.4.04.011	Nut - Viscosity
5	3.6.02.006	Spring - 0.8mm
6	3.6.22.014	Screw - M5x30
7	2.3.6.03.005	Torque Lever
8	3.6.35.001	Nut - M4x3
9	2.3.6.03.016	Bracket - T Lever
10	3.1.03.02.002	Switch - Torque
11	3.6.21.010	Screw - M4x25
12	3.6.35.003	Nut - M5
13	3.6.14.022	Washer - 5x12x0.8
14	2.1.4.04.010	Bearing - T Lever
15	2.1.4.04.009	Sleeve - T Lever
16	2.1.4.04.020	Bracket - D Lever
17	3.1.03.01.004	Switch - Draw
18	3.6.20.001	Screw—M3x16
19	2.3.6.03.002	Guide - D Lever
20	3.6.34.001	Lock Ring - #5
21	2.1.4.04.001	Retention Pin
22	2.1.4.04.019	Draw Lever Seat



Item	Part #	Description
1	2.1.1.03.0012	Hopper Assembly
2	2.1.4.08.043	Belt - HA 520mm
3	3.3.04.04.005	Pulley - HA 39mm
4	2.3.4.45.007	HA Motor Mount
5	3.3.01.01.001	HA Motor
6	2.1.1.06.0018	Cylinder Assembly
7	3.2.02.01.001	Condenser - Aux
8	3.2.03.01.001	Fan Motor - Aux
9	3.2.01.01.002	Compressor - Aux
10	3.2.01.04.004	Start Component
11	2.2.4.01.0015	Chassis
12	3.2.01.02.005	Compressor - Main
13	3.2.04.08.001	Liquid Receiver
14	3.2.03.04.002-2	Capacitor - Fan
15	3.2.02.01.006	Condenser - Main

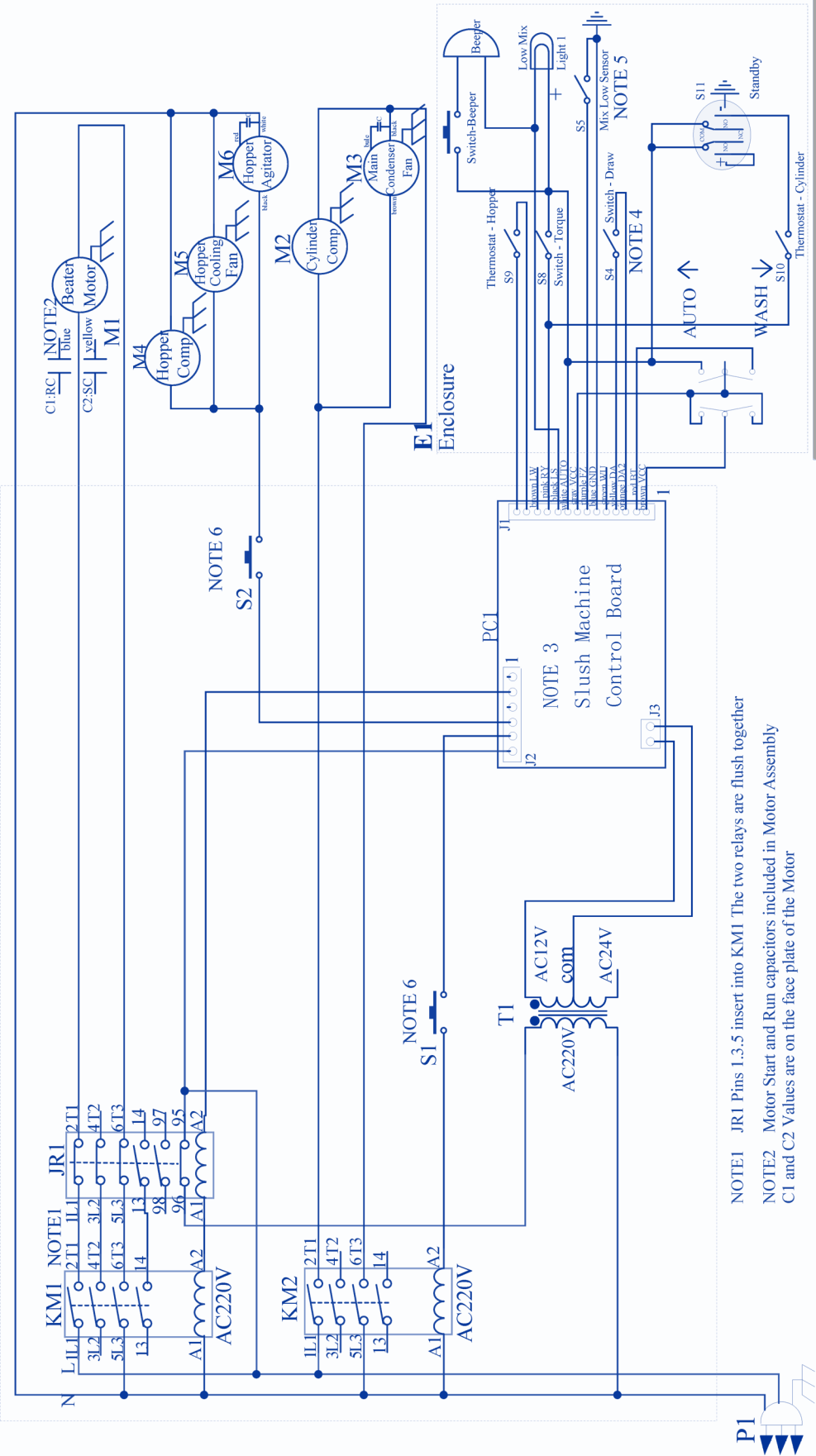
Item	Part #	Description
16	3.1.02.22.032	Capacitor - Running
17	3.1.02.22.052	Capacitor - Start
18	3.2.03.04.002	Fan Motor - Main
19	3.2.03.04.002-1	Fan Cover
20	3.3.01.07.003	Motor - 600W
21	3.3.04.01.005	Bushing - 1008
22	3.3.04.02.012	Pulley - 63x1--1008
23	3.3.03.01.002	Belt - XPA950
24	3.3.04.02.011	Pulley - 168x1-1210
25	3.3.04.01.007	Bushing - 1210
26	3.3.02.01.005	Gear Box
27	2.1.3.15.0003	Gear Box Mount
28	3.3.02.04.002	Drive Coupling
29	3.3.02.02.010	Nut - RS Bearing
30	3.3.02.02.002	Rear Shell Bearing

Hopper Agitator



Item	Part #	Description
1	2.1.1.23.0001	Agitator Blade
2	2.1.4.02.005	HA Housing Cap
3	2.1.4.02.002	HA Main Magnet
4	2.1.4.02.003	HA Shaft Magnet
5	3.6.34.003	C-Clip
6	2.1.3.42.0004	Drive Shaft
7	3.3.02.07.004	HA Bearing - Lower
8	2.1.4.02.001	HA Housing
9	2.1.4.02.015	Pulley - HA
10	3.3.02.07.003	HA Bearing - Upper

E2 Enclosure



Wiring Diagram - SM-6690H

NOTE1 JR1 Pins 1,3,5 insert into KM1 The two relays are flush together

NOTE2 Motor Start and Run capacitors included in Motor Assembly

C1 and C2 Values are on the face plate of the Motor

NOTE3 No Pin Markings on the Connector Pins 1 is left when facing edge of PC component side up.

NOTE4 Front Panel Dispenser Levers which mechanically actuates S4

NOTE5: Switches inside hoppers which activate "Mix Low" indicator

NOTE6:Compressor Inline Over Pressure Switch

Enclosure Locations

E1 E2 Middle Left

Item	Part #	Description	Item	Part #	Description	Item	Part #	Description
M1	3.3.01.07.003	Motor - 600W	M6	3.3.01.01.001	HA Motor	S10	3.1.01.07.002	Thermostat - C
M2	3.2.01.02.005	Compressor - Main	KM	3.1.01.01.010	Contactors	S11	3.1.03.04.015	Standby Switch
M3	3.2.03.04.002	Fan Motor - Main	JR	3.1.01.02.010	Thermal Relay	LAMP	3.1.02.14.001	Low Mix Light
M4	3.2.01.01.002	Compressor - Aux	T	3.1.01.04.007	Transformer	BELL	3.1.02.15.003	Low Mix Alarm
M5	3.2.03.01.001	Fan Motor - Aux	S1/2	3.2.04.06.004	Pressure Switch	PCB	2.1.1.30.0012	Control Board



