

SPACEMAN^{USA}

COMMERCIAL ICE CREAM & FROZEN BEVERAGE EQUIPMENT

PARTS LIST



MODEL SM-6650

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-6650

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 15.0 L / 15.85 qt
Output (8oz Servings)	20 qt / hr 80 servings / hr
Motor	1x 0.33 HP, 250W
Compressor (Main)	1x 4600 BTU, R404A
Compressor (Auxilliary)	Solenoid

FEATURES

Machine Controls	Single, Analog
Regrigerated Hopper	No
Hopper Agitator	No
Temperature Display	No
Standby Mode	No
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 medium capacity single flavor countertop frozen beverage freezer. Designed to produce a variety of frozen beverages including: Margaritas, Daiqaris, Fruit Juices, Slushies, etc. Automated analog control system automatically regulates and maintains consistent product quality. ***This machine is NOT intended for use with products that contain dairy.***

CUSTOM OPTIONS

Air Chute, Light Box, Spinner (1)

ELECTRICAL SPECIFICATIONS

	Maximum Fuse Size	Min. Circuit Ampacity	Poles (P) Wires (W)
110-120/60/1	1 x 20A	1 x 14A	2P / 3W

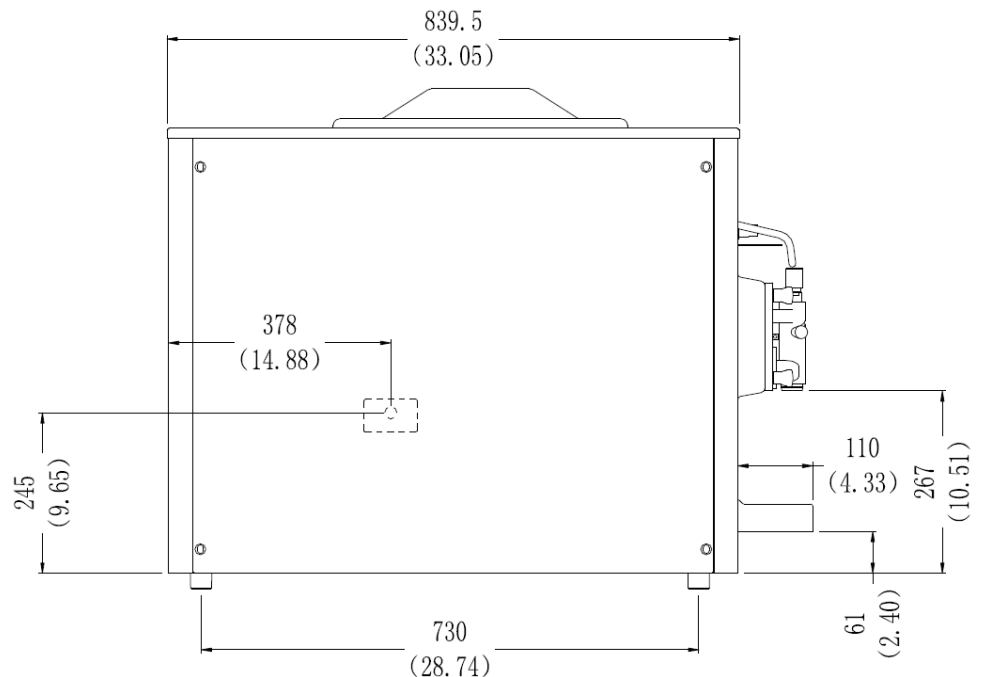
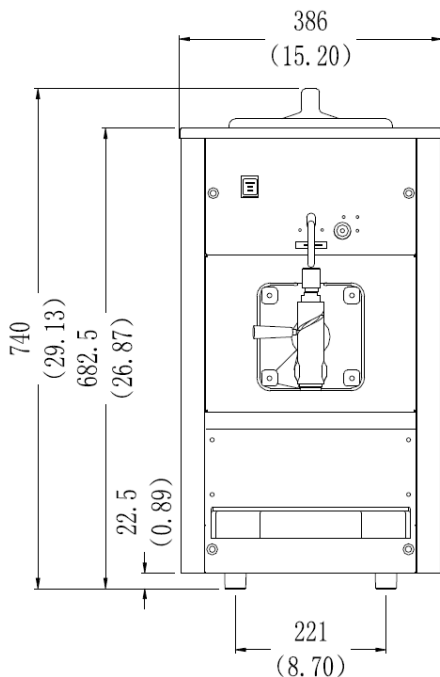
Electrical Plug: 1x NEMA 5-20

SIZE SPECIFICATIONS

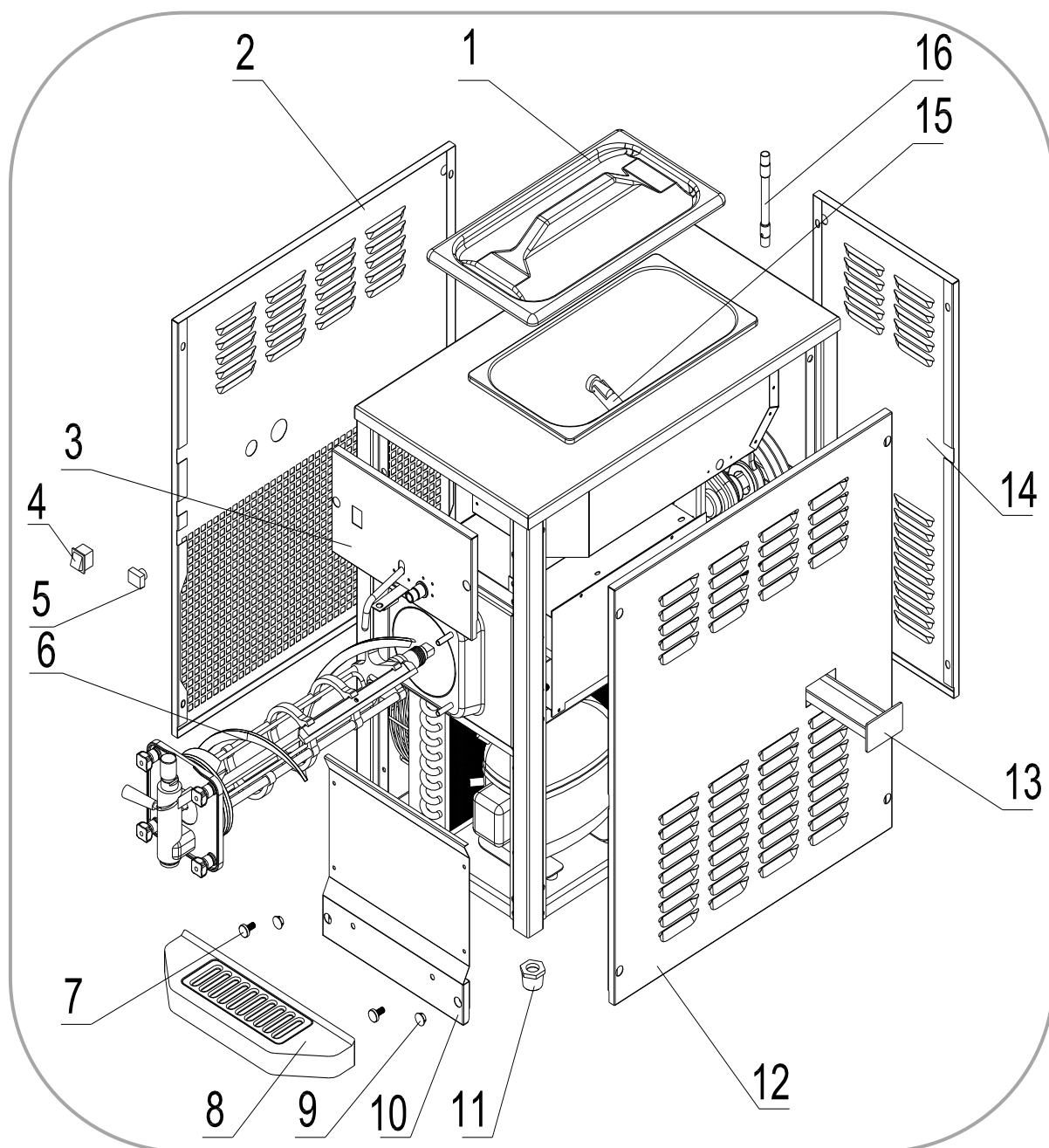
	Machine		Shipping	
Weight	100 kg	222 lbs	114 kg	253 lbs
Depth (mm / in)	840*	33.1*	860	33.9
Width (mm / in)	386*	15.2*	440	17.3
Height (mm / in)	740	29.2	940	37.1

Shipping Volume: 0.36 CBM / 12.56 CBF

* Machine Requires Minimum 6" Clearance on all sides



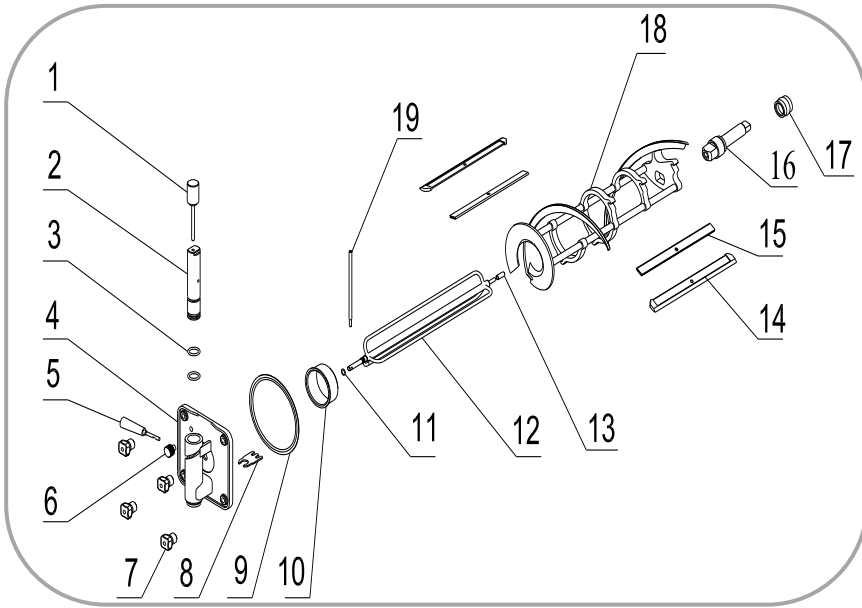
SPECS—EXTERNAL PARTS



Item	Part #	Description	Item	Part #	Description
1	3.4.03.01.004	Hopper Lid	9	3.4.07.01.001	Bolt Cover
2	2.3.4.18.025	Panel - Left	10	2.3.4.17.029	Panel - Front - L
3	2.3.4.07.007	Panel - Front - U	11	3.3.05.03.001	Leg
4	3.1.03.03.002	Power Switch	12	2.3.4.20.022	Panel - Right
5	3.1.02.14.001	Low Mix Indicator	13	3.4.04.02.003	Internal Drip Tray
6	2.1.1.10.0004	Beater	14	2.3.4.13.028	Panel - Rear
7	3.6.39.004	Drip Tray Mount	15	3.1.03.04.009	Low Mix Sensor
8	3.4.04.01.005	Drip Tray	16	2.1.3.39.0006	Air Tube

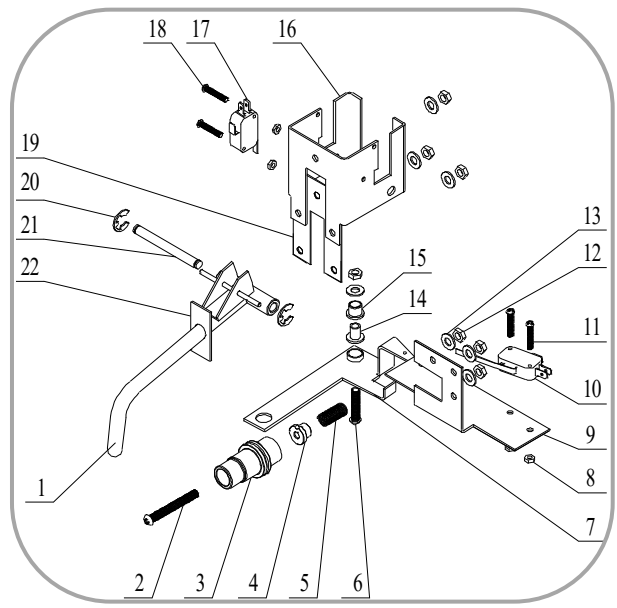
SPECS—OPERATING PARTS

Dispensing Door and Beater



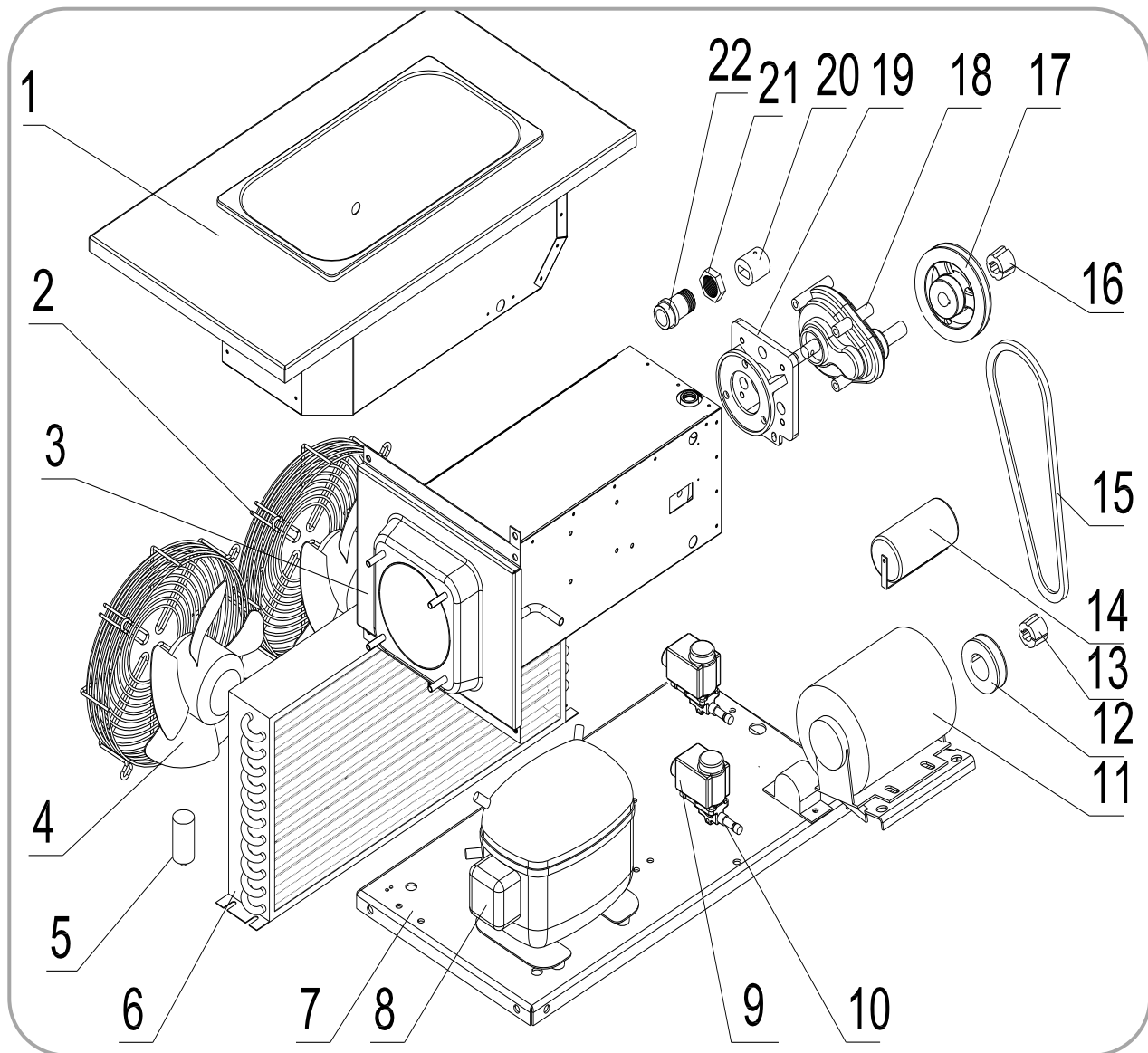
Item	Part #	Description
1	2.1.3.36.0004	Draw Valve Pin
2	2.1.3.01.0006	Draw Valve
3	3.4.08.01.036	O-Ring - Valve
4	2.1.3.14.0006	Dispensing Door
5	3.4.05.01.002	Dispensing Handle
6	3.4.07.08.001	Prime Plug
7	2.1.4.01.002	Hand Screws
8	2.1.4.04.014	Ice Buster
9	3.4.08.02.005	Door Gasket
10	3.4.01.03.003	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



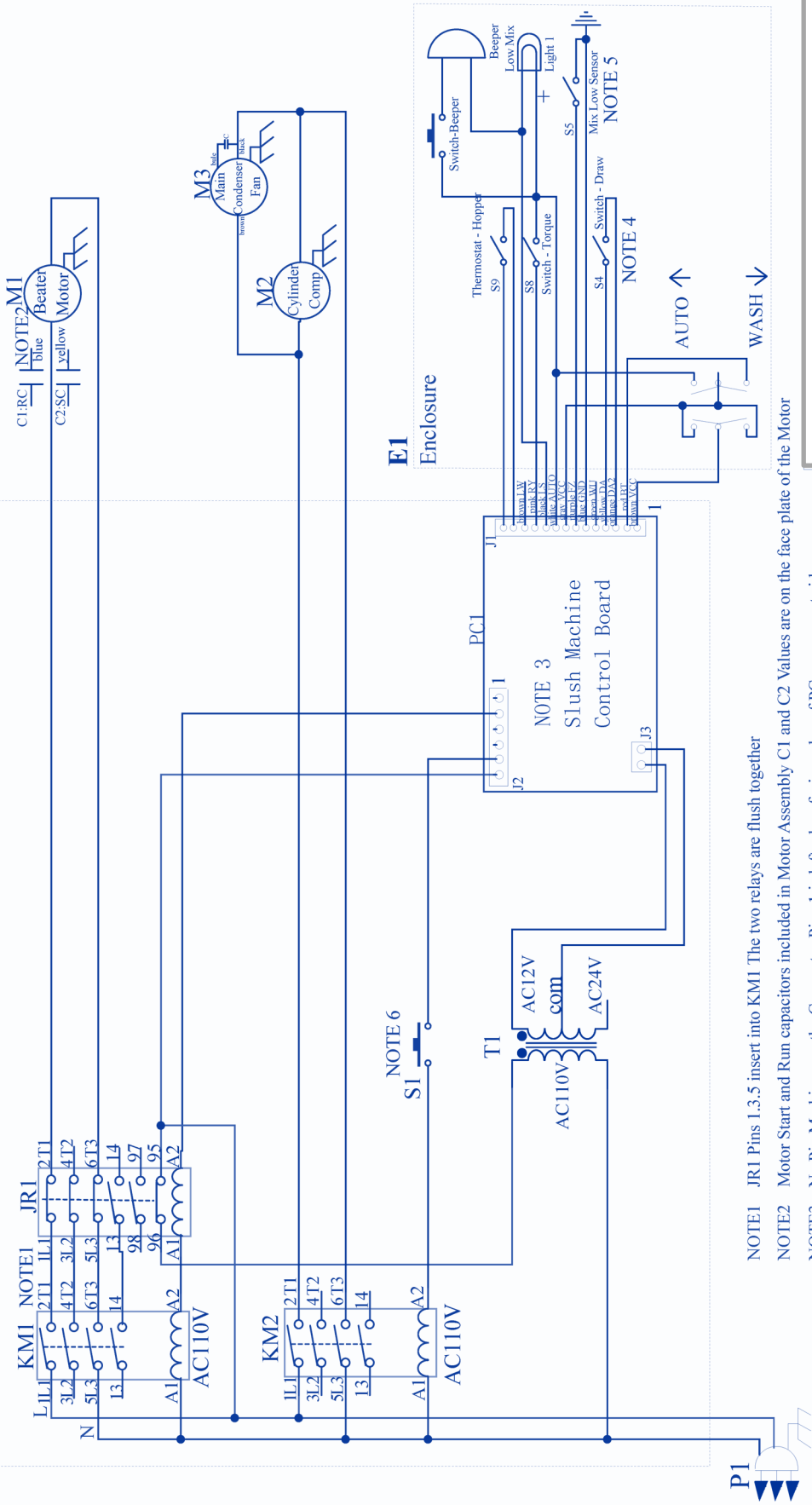
Item	Part #	Description
1	2.1.4.04.0018	Draw Lever
2	3.6.22.026	Visc. Screw - M5x45
3	2.1.4.04.012	Viscosity Housing
4	2.1.4.04.011	Nut - Viscosity
5	3.6.02.006	Spring - 0.8mm
6	3.6.22.014	Screw - M5x30
7	2.3.6.03.005	Torque Lever
8	3.6.35.001	Nut - M4x3
9	2.3.6.03.016	Bracket - T Lever
10	3.1.03.02.002	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

SPECS—INTERNAL PARTS



Item	Part #	Description	Item	Part #	Description
1	2.1.1.02.0019	Hopper Assembly	12	3.3.04.02.012	Pulley - 63x1-1008
2	3.2.03.04.004-1	Fan Cover	13	3.3.04.01.002	Bushing - 1008
3	2.1.1.06.0039	Cylinder Assembly	14	3.1.02.22.051	Capacitor - S/R
4	3.2.03.04.004	Fan Motor - Main	15	3.3.03.03.001	Belt - A787
5	3.2.03.04.004-2	Capacitor - Fan	16	3.3.04.01.008	Bushing - 1610
6	3.2.02.01.015	Condenser - Main	17	3.3.04.02.006	Pulley - 112x1-1610
7	2.2.4.01.0045	Chassis	18	3.3.02.01.005	Gear Box
8	3.2.01.02.038	Compressor - Main	19	2.1.3.15.0003	Gear Box Mount
9	3.2.04.04.016	Solenoid Coil	20	3.3.02.04.002	Drive Coupling
10	3.2.04.04.001	Solenoid Body	21	3.3.02.02.010	Nut - RS Bearing
11	3.3.01.07.001	Motor - 250W	22	3.3.02.02.002	Rear Shell Bearing

E2 Enclosure



Wiring Diagram - SM-6650

Enclosure Locations

E1 Front Panel

E2 Upper Right

- NOTE1 JRI 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

Item	Part #	Description	Item	Part #	Description
M1	3.3.01.07.001	Motor - 250W	JR	3.1.01.02.012	Thermal Relay
M2	3.2.01.02.038	Compressor - Main	T	3.1.01.04.006	Transformer
M3	3.2.03.04.004	Fan Motor - Main	S1	3.2.04.06.004	Pressure Switch
D	3.2.04.04.016	Solenoid Coil	S3	3.1.03.03.002	Power Switch
KM	3.1.01.01.011	Contactors	S4	3.1.03.01.004	Draw Switch
S5	3.1.03.04.009	Low Mix Sensor	S8	3.1.03.02.002	Torque Switch
S9/10	3.1.01.07.003	Thermostat	LAMP	3.1.02.14.001	Low Mix Light
BELL	3.1.02.15.003	Low Mix Alarm			



