

SPACEMAN^{USA}

COMMERCIAL ICE CREAM & FROZEN BEVERAGE EQUIPMENT

PARTS LIST



MODEL SM-6210

SOFT SERVE - 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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Spaceman USA, LLC

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Sales and Product Information

Monday – Friday
8 AM – 5 PM Mountain

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TROUBLESHOOTING

PROBLEM: STOP 1 - LOW TEMP PROTECT

Probable Cause

1. Inadequate mix in hopper
2. Improper mixing of product
3. Air Tube is not installed correctly
4. Viscosity adjustment is set incorrectly
5. Product being drawn too quickly

Remedy

1. Ensure hopper is at least half full
2. Follow manufacturer instructions for mixing product; ensure correct mix ratios
3. Clean Air Tube, ensure proper orientation
4. Lower viscosity setting as required (Page 17)
5. Ensure Air Tube not clogged, allow machine 2-3 seconds in between servings.

PROBLEM: STOP 2 - MOTOR OVERLOAD

Probable Cause

1. Viscosity adjustment is set incorrectly
2. Inadequate mix in hopper
3. Improper mixing of product
4. Air Tube is not installed correctly
5. Product being drawn too quickly

Remedy

1. Lower viscosity setting as required (Page 17)
2. Ensure hopper is at least half full
3. Follow manufacturer instructions for mixing product; ensure correct mix ratios
4. Clean Air Tube, ensure proper orientation
5. Ensure Air Tube not clogged, allow machine 2-3 seconds in between servings to recover.

PROBLEM: PRODUCT TOO SOFT

Probable Cause

1. Machine not cleaned/lubricated adequately
2. Inadequate mix in hopper
3. Improper mixing of product
4. Machine does not have adequate ventilation
5. Viscosity adjustment is set incorrectly

Remedy

1. Clean and properly lubricate machine daily
2. Ensure hopper is at least half full
3. Follow manufacturer instructions for mixing product; ensure correct mix ratios
4. Ensure at least 6" of clearance on all sides
5. Raise viscosity setting as required (Page 17)

PROBLEM: HOPPER NOT COLD ENOUGH

Probable Cause

1. Warm Product Recently Added
2. Hopper Temperature Setting too High
3. Temperature Offsets need adjustment

Remedy

1. Allow at least 1 hour after adding new mix for hopper temperatures to stabilize
2. Adjust Hopper Temperature down.
3. Call Spaceman Technical Support

PROBLEM: HOPPER FREEZING

Probable Cause

1. Inadequate Mix in Hopper
2. Hopper Temperature Setting too Low

Remedy

1. Ensure hopper is at least half full
2. Adjust Hopper Temperature Up

PROBLEM: MACHINE MAKING NOISE

Probable Cause

1. Improper Assembly
2. Wearable Parts Need Replacement
3. Internal Cleaning / Maintenance Required
4. Damaged Internal Parts

Remedy

1. Stop machine use, drain product with machine powered OFF. Clean and Inspect Parts.
2. Replace wearable parts with new Tune-Up Kit and Scraper Blades at least once every 3 months
3. Contact Spaceman USA Technical Support
4. Inspect parts carefully for damage, ensure proper assembly. Replace as required.

PROBLEM: STOP 4 - TEMPERATURE

Probable Cause

1. Malfunctioning Temperature Probe

Remedy

1. Replace Temperature Probe

PROBLEM: STOP 6 - MOTOR AMP

Probable Cause

1. Malfunctioning Power Board

Remedy

1. Replace Power Board

PROBLEM: PRODUCT LEAKS EXCESSIVELY INTO INTERNAL DRIP TRAY

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 months; replace torque assembly guide every 1 to 3 months

PROBLEM: PRODUCT LEAKS EXCESSIVELY FROM DISPENSING DOOR SPOUT

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)
2. Replace O-rings every 1 to 3 months

PROBLEM: MACHINE SHUTS DOWN AUTOMATICALLY

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 required (Page 17)

MACHINE SPECIFICATIONS

SM-6210

SOFT SERVE FREEZER

PRODUCT INFORMATION

Type	Counter Top
Flavors	1
Cooling	Air Cooled
Freezing Cylinders	1x 1.2 L / 1.3 qt
Product Mix Hoppers	1x 8.0 L / 8.5 qt
Output (4oz Servings)	12.75 qt / hr
	101 servings / hr
Motor	1x 0.6 HP, 450W
Compressor (Main)	1x 2450 BTU, R404A
Compressor (Auxilliary)	Solenoid

FEATURES

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



DESCRIPTION

A single flavor, gravity feed, countertop soft serve freezer. Capable of producing a variety of products including: Soft Serve, Frozen Yogurt, Ice Cream, Custards, and Sorbets. Analog control system makes for an excellent low-cost offering while maintaining excellent product consistency. Refrigerated hopper keeps product fresh and is approved for dairy or non-dairy products.

CUSTOM OPTIONS

Air Chute, Spinner (1)

ELECTRICAL SPECIFICATIONS

	Maximum Fuse Size	Min. Circuit Ampacity	Poles (P) Wires (W)
110-115/60/1	1 x 20A	1 x 14A	2P / 3W

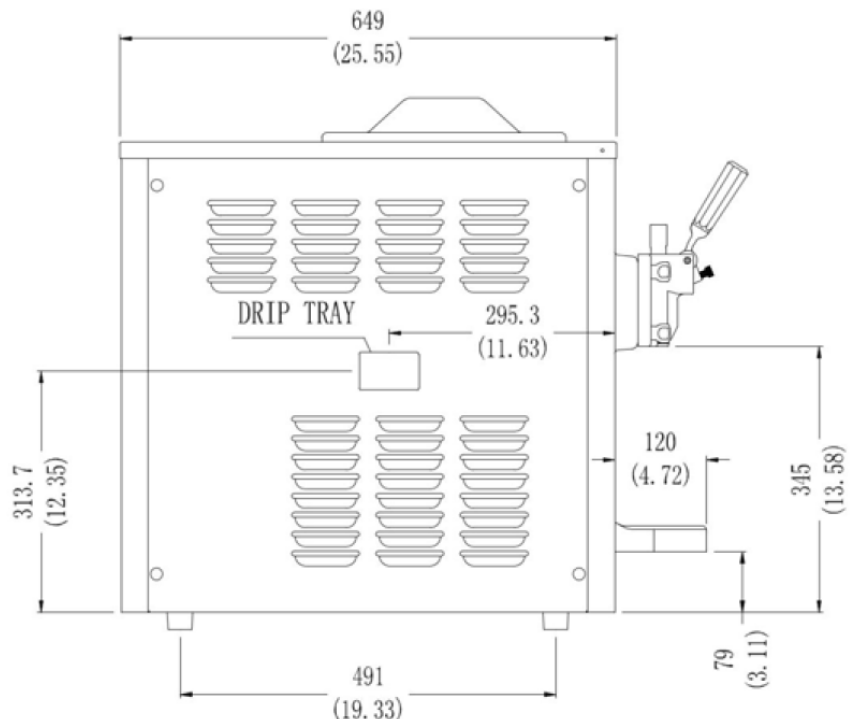
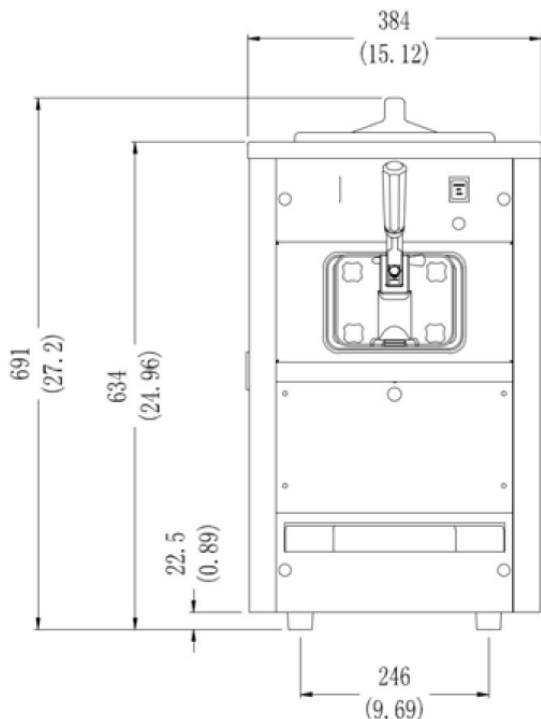
Electrical Plug: 1x NEMA 5-20

SIZE SPECIFICATIONS

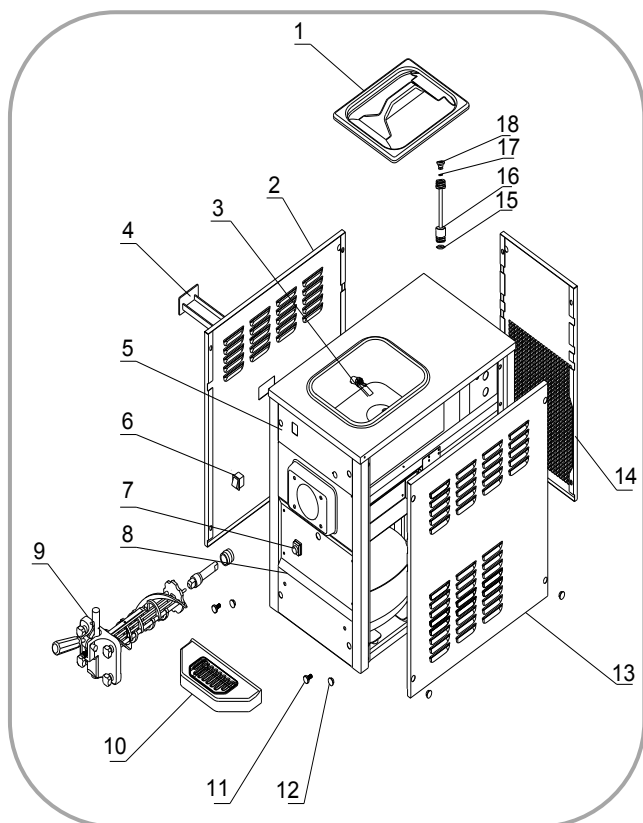
	Machine		Shipping	
Weight	86 kg	191 lbs	96 kg	213 lbs
Depth (mm / in)	649*	25.6*	800	31.5
Width (mm / in)	384*	15.2*	460	18.2
Height (mm / in)	691	27.2	840	33.07

Shipping Volume: 0.31 CBM / 10.92 CBF

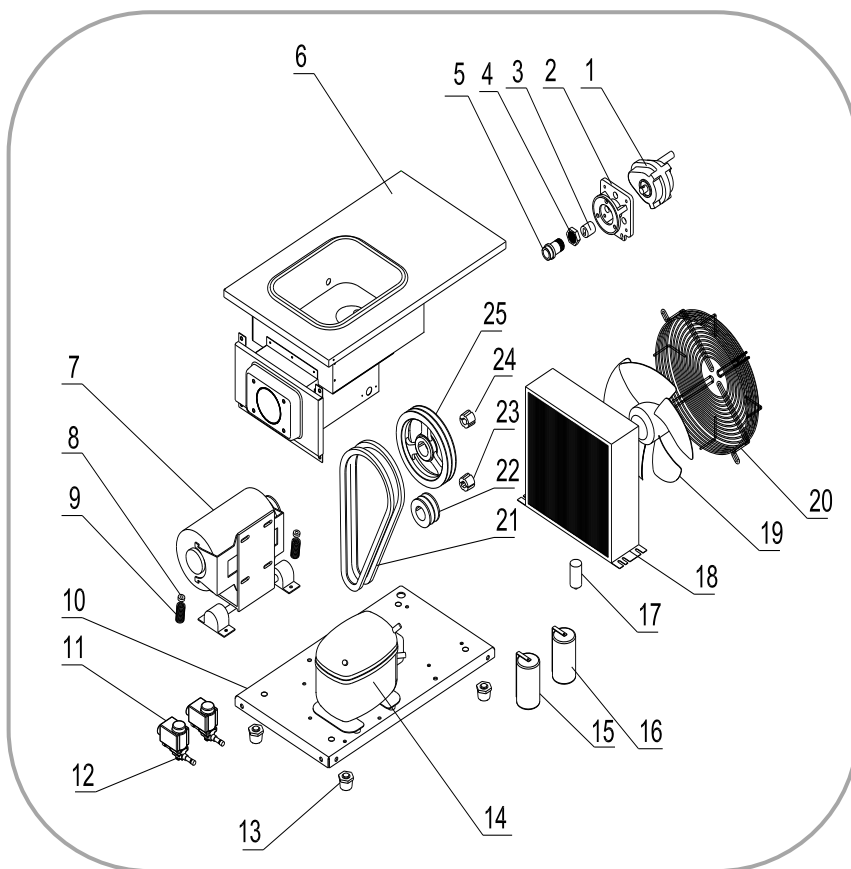
* Machine Requires Minimum 6" Clearance on all sides



Exterior Parts



Interior Parts

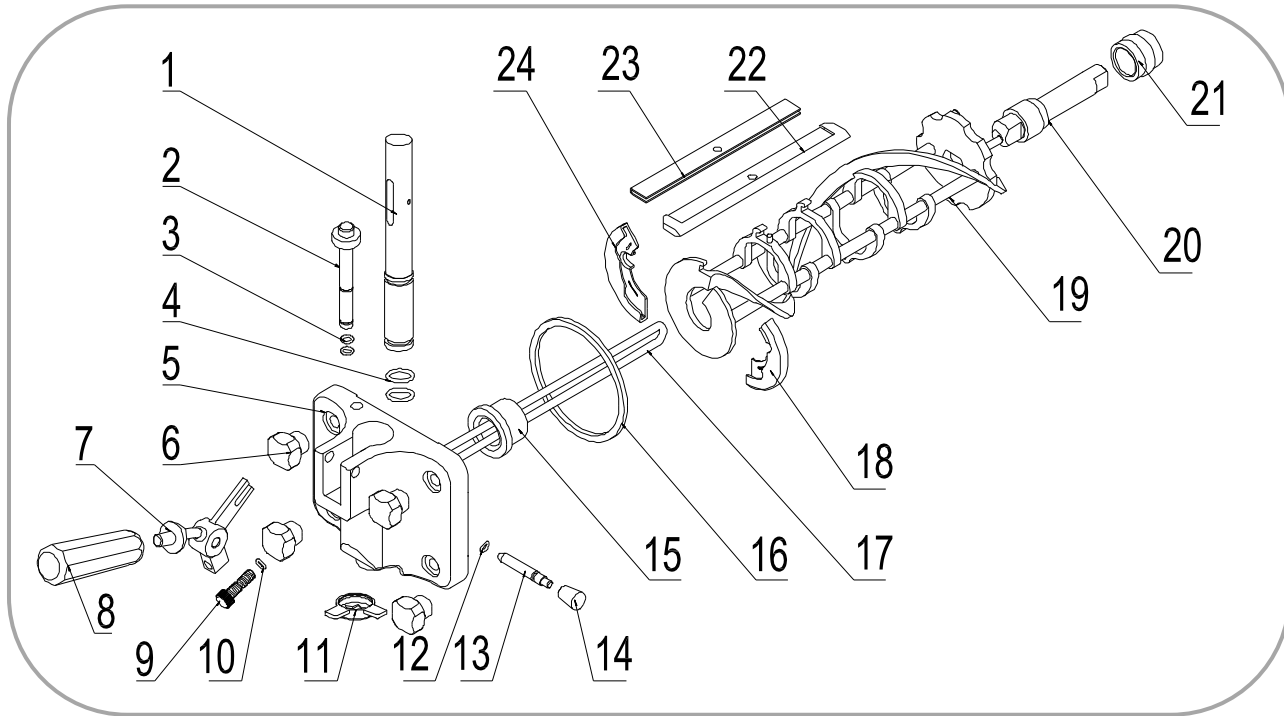


Item	Part #	Description
1	3.4.03.01.001	Hopper Lid
2	2.3.4.28.004	Panel - Left
3	3.1.03.04.009	Low Mix Sensor
4	3.4.04.02.003	Internal Drip Tray
5	2.3.4.08.007	Panel - Front - U
6	3.1.03.03.002	Power Switch
7	3.1.03.04.011	Draw Sensor
8	2.3.4.27.006	Panel - Front - L
9	2.1.1.15.0017	Dispensing Door
10	3.4.04.01.005	Drip Tray
11	3.6.39.004	Drip Tray Mount
12	3.4.07.01.001	Bolt Cover
13	2.3.4.30.004	Panel - Right
14	2.3.4.23.004	Panel - Rear
15	3.4.08.01.002	O-Ring
16	2.1.1.22.0002	Air Tube
17	3.4.08.01.028	O-Ring
18	2.1.3.23.0001	Air Tube Cap

Item	Part #	Description
1	3.3.02.01.002	Gear Box
2	2.1.3.15.0002	Gear Box Mount
3	3.3.02.04.001	Coupling Drive
4	3.3.02.02.010	Nut - RS Bearing
5	3.3.02.02.001	Rear Shell Bearing
6	2.1.1.01.0024	Hopper & Cylinder
7	3.3.01.07.010	Motor - 450W
8	3.4.08.04.001	Motor Mount
9	3.6.03.002	Motor Dampening
10	2.2.4.01.0020	Chassis
11	3.2.04.04.016	Solenoid Coil
12	3.2.04.04.001	Solenoid Body
13	3.3.05.03.001	Leg

Item	Part #	Description
14	3.2.01.02.038	Compressor
15	3.1.02.22.010	Capacitor - Running
16	3.1.02.22.063	Capacitor - Start
17	3.2.03.04.003-2	Capacitor - Fan
18	3.2.02.01.003	Condenser
19	3.2.03.04.003	Fan Motor
20	3.2.03.04.003-1	Fan Cover
21	3.3.03.03.007	Belt - A813
22	3.3.04.02.003	Pulley - 71x2-1108
23	3.3.04.01.006	Bushing - 1108
24	3.3.04.01.005	Bushing - 1008
25	3.3.04.02.007	Pulley - 182x2-1008

Dispensing Door and Beater



Item	Part #	Description	Item	Part #	Description
1	2.1.3.01.0002	Draw Valve	13	2.1.3.27.0001	Retention Pin
2	2.1.3.02.0015	Prime Plug	14	2.1.3.27.0025	Nut - Retention Pin
3	3.4.08.01.013	O-Ring - Plug	15	3.4.01.03.001	Beater Guide
4	3.4.08.01.006	O-Ring - Valve	16	3.4.08.01.029	Door Gasket
5	2.1.3.14.0002	Dispensing Door	17	2.1.1.11.0003	Beater Rod
6	2.1.3.32.0001	Hand Screws	18	3.4.01.02.002	Beater Shoe - R
7	2.1.3.26.0004	Handle Seat	19	2.1.1.10.0008	Beater
8	3.4.05.01.001	Dispensing Handle	20	2.1.3.25.0001	Drive Shaft
9	3.6.39.009	Adjustment Screw	21	3.4.07.05.002	Drive Shaft Gasket
10	3.4.08.01.012	O-Ring - Screw	22	3.4.02.01.003	Scraper Blade
11	3.4.05.03.004	Star Cap	23	2.3.4.04.003	Scraper Blade Clip
12	3.4.08.01.013	O-Ring - Pin	24	3.4.01.01.002	Beater Shoe - L



Item	Part #	Description	Item	Part #	Description	Item	Part #	Description
M1	3.3.01.07.010	Motor—450W	S4	3.1.03.04.011	Draw Sensor	JR	3.1.01.02.012	Thermal Relay
M2	3.2.01.02.038	Compressor	S5	3.1.03.04.009	Low Mix Sensor	PC	2.1.1.30.0010	Control Board
M3	3.2.03.04.003	Fan Motor	KM	3.1.01.01.011	Contactor	TH1	3.1.01.07.002	Thermostat - C
S1	3.2.04.06.004	Pressure Switch	D	3.2.04.04.016	Solenoid Coil	TH2	3.1.01.07.003	Thermostat - H
S3	3.1.03.03.002	Power Switch	T	3.1.01.04.006	Transformer			

