

PERFECT SERVINGS™ POWDER DISPENSER

Installation and Operating Manual

D-PSPD-5



P.O. Box 617 • West Dundee, IL 60118

847-622-1803

www.unitedfoodgroup.net

INSTALLATION AND OPERATING INSTRUCTIONS

THE PERFECT SERVINGS™ 5-SELECT POWDER DISPENSER

MODEL D-PSPD-5

DIGITALLY PROGRAMMED
FOR PRECISE DELIVERY



MANUFACTURED BY:

UNITED FOOD GROUP, INC.
P.O. Box 617
Phone: 847.622.1803/ Fax: 847.622.1713
www.unitedfoodgroup.net

SPECIFICATIONS:

Dimensions: 16.25" High, 12" Wide, 11.75" Deep

Unit Weight: 14 ½ lbs.

Shipping Weight: 18 ½ lbs.

Electrical: 110V, 60 HZ, 100W

DAMAGE INSPECTION/UNPACKING:

If there is damage to the shipping carton, please call the carrier. If after opening the carton there is concealed damage, then please call United Food Group, Inc.

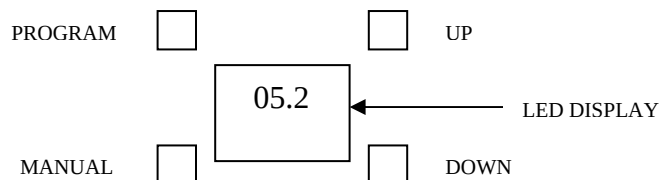
This unit should have shipped with a package containing this manual, 2 sheets of product labels, a drip-tray, and a 'grid' for the drip-tray. **PLEASE NOTE:** Remove protective film from plexi-glass front, touch panel and steel front.

FILLING OF THE CANISTERS:

To remove the canisters for filling, open the door. Turn the dispensing spout 'UP'. Lift the front of the canister 'UP' approximately 3/8". This will disengage the 'guide pin' located on the bottom of the canister from the base of the unit. Pull the canister forward and out of the unit. Remove the top cover and fill with product.

IMPORTANT! Do not overfill or pack down the canister in an attempt to fit more in it. Doing so will cause the canisters to bind and possibly damage the unit. Place the filled canisters back in the unit, making sure that the 'guide pin' is in place, and then turn the dispensing spouts to the down position.

PROGRAMMING THE UNIT:



The above diagram is representative of the programming module located at the upper right hand corner on the inside of the front door. This is where you will program each canister to either dispense by 'portion control', or to deliver 'manually' (Press and Hold until Full).

TO PROGRAM FOR PORTION CONTROL:

- 1) Choose a canister.
- 2) Locate the 'digital settings' sheet at the rear of this manual.
- 3) Locate the product being dispensed from the chosen canister.
- 4) Locate the cup size you would like to dispense, and then review and memorize/write down the number associated with it. This is the number that you will want to program into the unit!
- 5) Press the 'Program' button.
- 6) Press the button on the 'touch panel' on the front door that corresponds to the canister you're setting.
- 7) Press either the 'Up' or 'Down' buttons until you've reached the number from the 'digital settings' sheet.
- 8) Press the corresponding button on the 'touch panel' once again to lock in the setting. Please note product is set once beeping stops.
- 9) Run 2-3 dispenses to completely 'prime' the canister.
- 10) Once primed, run one final cup and then prepare a finished product for tasting
- 11) If the product is either too strong or too weak, then reprogram according to taste by going back into the program mode, and going either 'Up' or 'Down' from your initial setting in .2 increments to taste. Once you have achieved the taste you've been looking for, simply lock in the setting by once again pressing the corresponding button on the 'touch panel'.
- 12) If the product is to taste, then proceed to the next portion-controlled canister, and repeat steps 2-12.

TO PROGRAM FOR MANUAL DISPENSE (PRESS AND HOLD UNTIL FULL):

- 1) Choose a canister.
- 2) Press the 'Program' button
- 3) Press the button on the 'touch panel' that corresponds to the canister.
- 4) Press the 'Manual' button.
- 5) Press the button on the 'touch panel' to lock it in the manual-dispense mode. Please note product is set once beeping stops.

REPEAT UNTIL ALL 5 OF THE CANISTERS ARE SET CORRECTLY!

CLEANING OF THE CANISTERS:

It is extremely important that the canisters be kept clean. For routine cleaning between refilling, simply empty the canister, wash it, and then turn it upside down until **completely** dry.

To Clean Thoroughly:

- 1) Remove the canister from the unit and then empty it completely.
- 2) Remove the 'elbow' (dispensing spout) and the 'lid'.
- 3) Remove the 'C' clip from the 'center pin', which goes through both sides of the canister.
- 4) Pull the 'center pin' straight out.
- 5) Remove the 'mixing gear' with springs from the canister.
- 6) Remove both 'nuts' from the lower portion of the canister body (front and rear).
- 7) Pull out the 'dispensing nozzle' from the front of the canister (note that the 'open side' always faces up)
- 8) Pull out the 'spring' (auger) with all of the 'drive' components still attached (see attached parts diagram).
- 9) If necessary, unscrew the 'back motor drive' (clockwise) off of the 'front motor drive' This will allow you separate all of the 'auger drive' parts.
- 10) In a mild dishwashing solution, completely wash all the parts until clean. Rinse, and then allow to **completely** dry before reassembling.

TO CLEAN THE CABINET:

Use a soft cloth 'dampened' in warm water only, then wipe dry. Do not use any harsh cleaners or abrasives.

TROUBLESHOOTING:

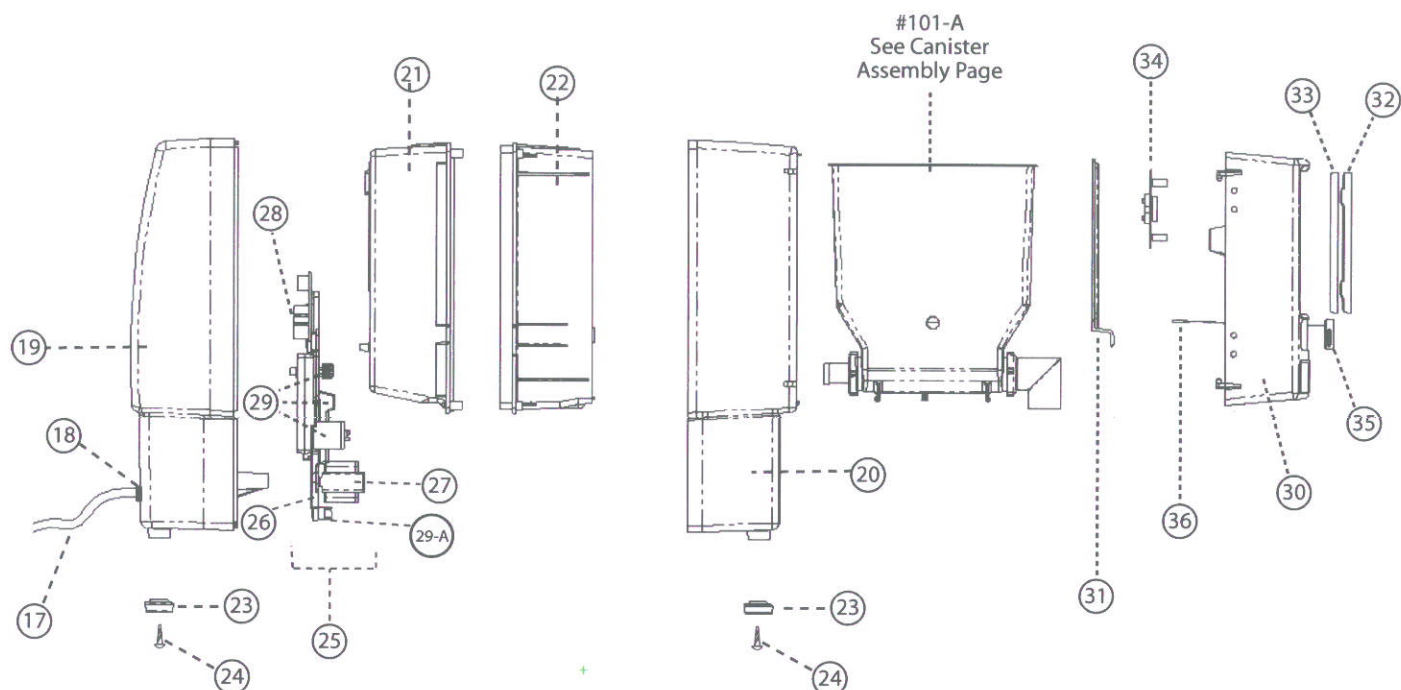
Your new dispenser has been designed for simple set-up, and years of trouble-free use. In the event that you are to ever experience a problem during set-up, or while in use, then please contact the factory.

WARRANTY:

1 Year Limited

United Food Group, Inc.
P.O. BOX 617-WEST DUNDEE, IL 60118
Phone: 847.622.1803 / FAX: 847.622.1713
www.unitedfoodgroup.net

MODEL 'D-PSPD-5' PARTS BREAKDOWN



ITEM#	PART#	DESCRIPTION	QTY/UNIT
-------	-------	-------------	----------

CABINET:

17	118	Power Cord	1
18	119	Strain Relief for Power Cord	1
19	120	Main Cabinet Body - Rear	1
20	121	Main Cabinet Body - Front	1
21	122	Inner Cabinet Body - Rear	1
22	123	Inner Cabinet Body - Front	1
23	124	Legs	4
24	125	Screws for Legs - 16 x 1/2	4

MOTOR ASSEMBLY:

25	126-A	Motor Assembly Complete	1
26	127	Motor Assembly - Chasis	1
27	128	Motor Assembly - Transformer	1
28	129	Motor Assembly - Circuit Board	1
29	130	Motor Assembly - Auger Motor	1
29-A	130-A	Motor Assembly - 2 Amp Fuse	1

FRONT DOOR:

30	131	Front Door	1
31	132	Front Door - Liner	1
32	133	Plexi-glass Display Front	1

FRONT DOOR DISPLAY LABELS (ONE/UNIT):

33	134-1	Display Label - Standard (Hot Bev.)	
	134-2	Display Label - Breakfast Bar	
	134-3	Display Label - Soup Central	
	134-4	Display Label - Thirst Quencher	
	134-5	Display Label - Cream N' Sugar	
	134-6	Display Label - Creamer Station	
34	135	LED Programing Display Board	1
35	136	Touch Panel - Front Door	1
36	137	Ribbon Cable	1

#101-A CANISTER ASSEMBLY

Canister Assembly Breakdown
On Following Page

NOT SHOWN:

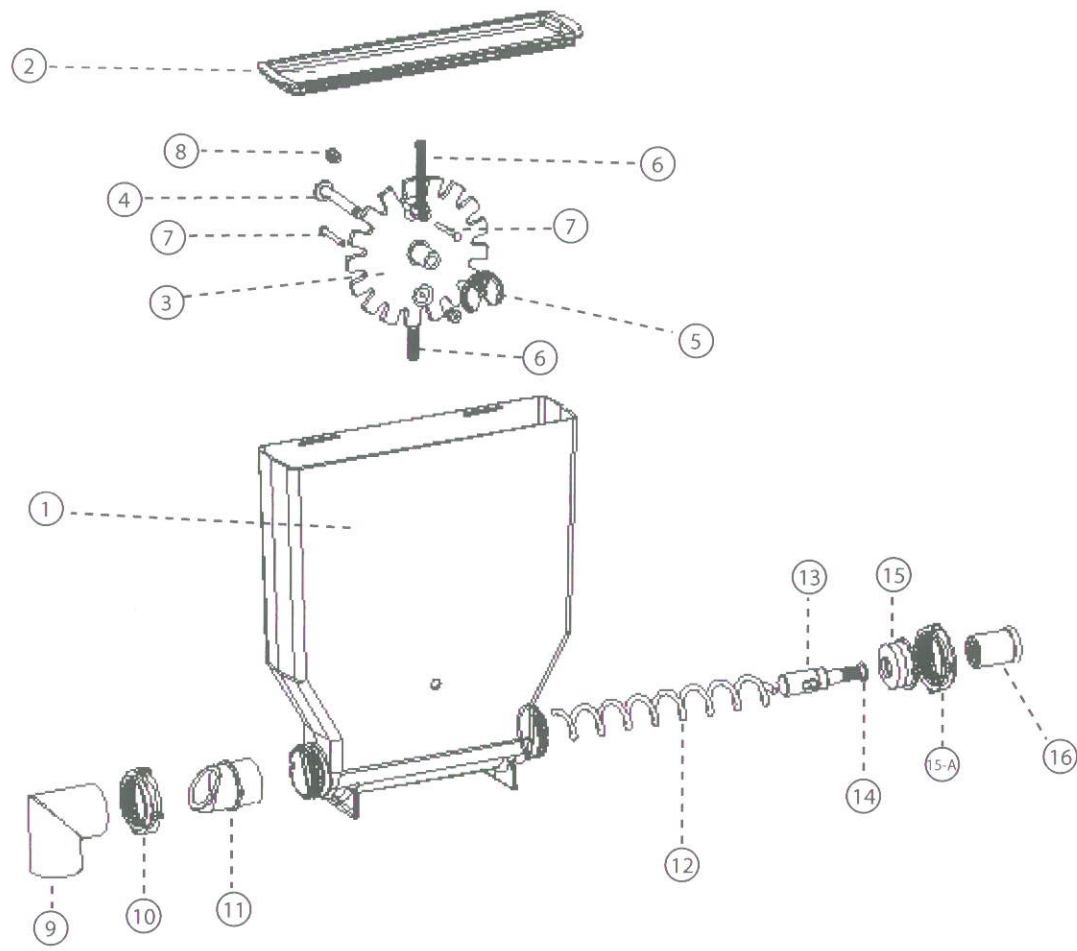
PART#	DESCRIPTION	QTY/UNIT
-------	-------------	----------

138	Drip Tray	1
139	Drip Tray 'Grid'	1
140	Flavor Label Sheets (2)	1/ea
141	LED Programing Label	1
142	OPTIONAL - 2 1/2" Leveling Legs	4
142-A	OPTIONAL - 4" Leveling Legs	4

CABINET HARDWARE (SCREWS):

143	10 x 1/2 Phillips Screws	1
144	10 x 5/8 Phillips Screws	14
145	10 x 2 1/2 Phillips Screws	4

CANISTER ASSEMBLY COMPLETE (#101-A)



ITEM#	PART#	DESCRIPTION	QTY/CANISTER
1	102	Main Body	1
2	103	Cover (lid)	1
3	104	Mixing Gear	1
4	105	Center Pin for Mixing Gear	1
5	106	'C' Clip for Center Pin	1
6	107	Mixing Spring	2
7	108	Screw for Mixing Spring	2
8	109	Nut for Mixing Spring	2
9	110	Elbow (Dispensing Spout)	1
10	111	Nut	2
11	112	Nozzle	1
12	113	Spring (Auger)	1
13	114	'Front' Motor Drive	1
14	115	'O-Ring' for Front Motor Drive	1
15	116	Bushing	1
15-A	116-A	Nut	1
16	117	'Back' Motor Drive	1

Product Setting Guide

PERFECT SERVINGS™

D-PSPD-5 Settings and Grams Per Serving

Servings Size

<u>Product</u>	<u>8oz Cup</u>	<u>10oz Cup</u>	<u>12oz Cup</u>	<u>16oz Cup</u>	<u>20oz Cup</u>
<u>Hot Beverages</u>					
Cappuccino	5.6 = 28g	7.0 = 35g	8.4 = 42g	11.2 = 56g	14.2 = 70g
Hot Chocolate	6.4 = 28g	7.4 = 35g	8.8 = 42g	11.6 = 56g	13.6 = 70g
No Sugar Add Hot Chocolate	7.4 = 20g	8.8 = 25g	10.4 = 30g	13.2 = 40g	16.2 = 50g
Freeze Dried Coffee	0.4 = 1g	0.6 = 1.25g	0.8 = 1.5g	1.0 = 2g	1.2 = 2.5g
Chai Tea	4.0 = 28g	5.0 = 35g	6.0 = 42g	8.0 = 56g	10.0 = 70g
Premium Chai Tea	4.0 = 28g	5.0 = 35g	6.0 = 42g	8.0 = 56g	10.0 = 70g
Apple Cider	2.8 = 21g	3.8 = 28g	4.2 = 32g	5.4 = 42g	7.0 = 56g
<u>Steamers</u>					
Vanilla	5.2 = 28g	5.8 = 35g	7.6 = 42g	-	-
Caramel	5.2 = 28g	5.8 = 35g	7.6 = 42g	-	-
<u>Instant Soups</u>					
Cream of Chicken	5.0 = 21g	6.2 = 28g	7.0 = 32g	9.2 = 42g	12.2 = 56g
Cream of Broccoli	5.2 = 21g	6.8 = 28g	8.0 = 32g	10.2 = 42g	13.4 = 56g
Tomato	4.2 = 21g	5.6 = 28g	6.4 = 32g	8.4 = 42g	10.6 = 56g
Baked Potato	5.0 = 21g	6.6 = 28g	8.0 = 32g	10.2 = 42g	13.4 = 56g
Cream of Mushroom	5.0 = 21g	6.4 = 28g	7.4 = 32g	9.6 = 42g	12.6 = 56g
<u>Instant Oatmeal</u>					
Plain Oatmeal	14.0 = 56g	16.0 = 70g	20.0 = 84g	-	-
Apple Cinnamon	14.0 = 56g	16.0 = 70g	20.0 = 84g	-	-
Banana Oatmeal	14.0 = 56g	16.0 = 70g	20.0 = 84g	-	-
Cream of Wheat	14.0 = 56g	16.0 = 70g	20.0 = 84g	-	-
<u>Cool Café Cold Beverages</u>					
Orange Quench	3.2 = 21g	4.2 = 28g	5.0 = 32g	6.2 = 42g	8.0 = 56g
Lemonade	3.2 = 21g	4.2 = 28g	5.0 = 32g	6.2 = 42g	8.0 = 56g
Horchata	4.4 = 35g	5.4 = 43g	6.4 = 52g	8.8 = 70g	10.8 = 87g
Orange Replenish	3.0 = 21g	4.0 = 28g	4.6 = 32g	5.8 = 42g	7.8 = 56g
Lemon Replenish	3.0 = 21g	4.0 = 28g	4.6 = 32g	5.8 = 42g	7.8 = 56g
Fruit Punch	3.2 = 21g	4.2 = 28g	5.0 = 32g	6.2 = 42g	8.0 = 56g
Grape Drink	3.2 = 21g	4.2 = 28g	5.0 = 32g	6.2 = 42g	8.0 = 56g
Peach Tea	3.2 = 21g	4.2 = 28g	5.0 = 32g	6.2 = 42g	8.0 = 56g
Pink Lemonade	4.6 = 28g	5.6 = 35g	6.8 = 42g	8.8 = 56g	10.8 = 70g
Sweetened Tea w/ Lemon	3.2 = 21g	4.2 = 28g	5.0 = 32g	6.2 = 42g	8.0 = 56g
Sugar Free Lemonade	Coming Soon	-	-	-	-
Sugar Free Fruit Punch	Coming Soon	-	-	-	-
<u>Creamers</u>					
Regular Creamer	0.6 = 2g	0.8 = 3g	1.0 = 4g	1.4 = 5g	1.6 = 6g
Flavored Creamer	0.4 = 2g	1.0 = 4.5g	1.8 = 8.5g	-	-
<u>Sweeteners</u>					
Sugar	0.2 = 2g	0.4 = 2.5g	0.4 = 3g	0.6 = 4g	0.8 = 5g
Sugar Substitute	0.2 = 1g	0.2 = 1g	0.4 = 1.5g	N/A = 1.75g	0.6 = 2g

D-PSPD-5 Powder Dispenser

Changing the Fuse in the Powder Dispenser:

- 1.) Unplug the machine from the electric outlet.
- 2.) Remove the canisters from the dispensing machine.
- 3.) Remove six (6) screws from inside the cabinet.
- 4.) Remove three (3) screws from the back of the machine.
- 5.) Turn the machine on its side and separate the front from the back.
- 6.) Locate the fuse at the bottom of the motor assembly.
- 7.) Remove the old fuse and replace it with a new 2-amp fuse.
- 8.) Reassemble the machine in reverse order and insert the canisters.
- 9.) Plug the machine into the electrical outlet.

Troubleshooting:

Unit does not dispense correct amount-

- Unit is not programmed. Refer to the "Setup" section of the manual.
- Incorrect cup size is being used.
- Nozzle is clogged. Remove nozzle, clean and dry completely.

Canister motor drive breaks-

- Product is being packed into canister or the canisters are being overfilled, causing stress to the motor drive assembly. Call your vendor or the manufacturer for replacement parts.

Canister drive assembly and auger spring turns hard-

- "O" ring in the canister drive assembly has buildup of product. Take apart the canister drive assembly by turning clockwise. Clean thoroughly and dry. Re-assemble, making sure the "O" ring is in place and assembly is fully tightened.
- Auger spring is scraping against the inside of the nozzle. Bend the end of the auger spring inward, away from the inside of the nozzle.

Unit stops working completely-

- Outlet has no power. Try another outlet.
- Unit is not plugged into the outlet.
- Possible power surge occurred.
 - o Check the programming of the machine. Reprogram, if necessary.
 - o Fuse blew during the power surge. Change the fuse. (Refer to instructions in manual)

Canister "C" Clip falls off-

- "C" clip is not inserted into the center pin recess correctly. Push the center pin's head to make certain it is fully inserted through the other side. Slide the "C" clip onto the recess of the center pin.

Mixing springs get caught in the auger spring-

- Mixing springs may be too long. Snip the mixing spring down to 1½ inch from the spring loop attached to the mixing wheel.
Note: DO NOT cut the mixing springs shorter than 1½ inch.

All units have a 1 year limited warranty.
For replacement parts, call your vendor or distributor.