

# 18900 Series Centrifuge Manual

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This manual covers models: 18910 / 18911 / 18984 / 18989

Setup, Operation, and general parts information.

March 2, 2006



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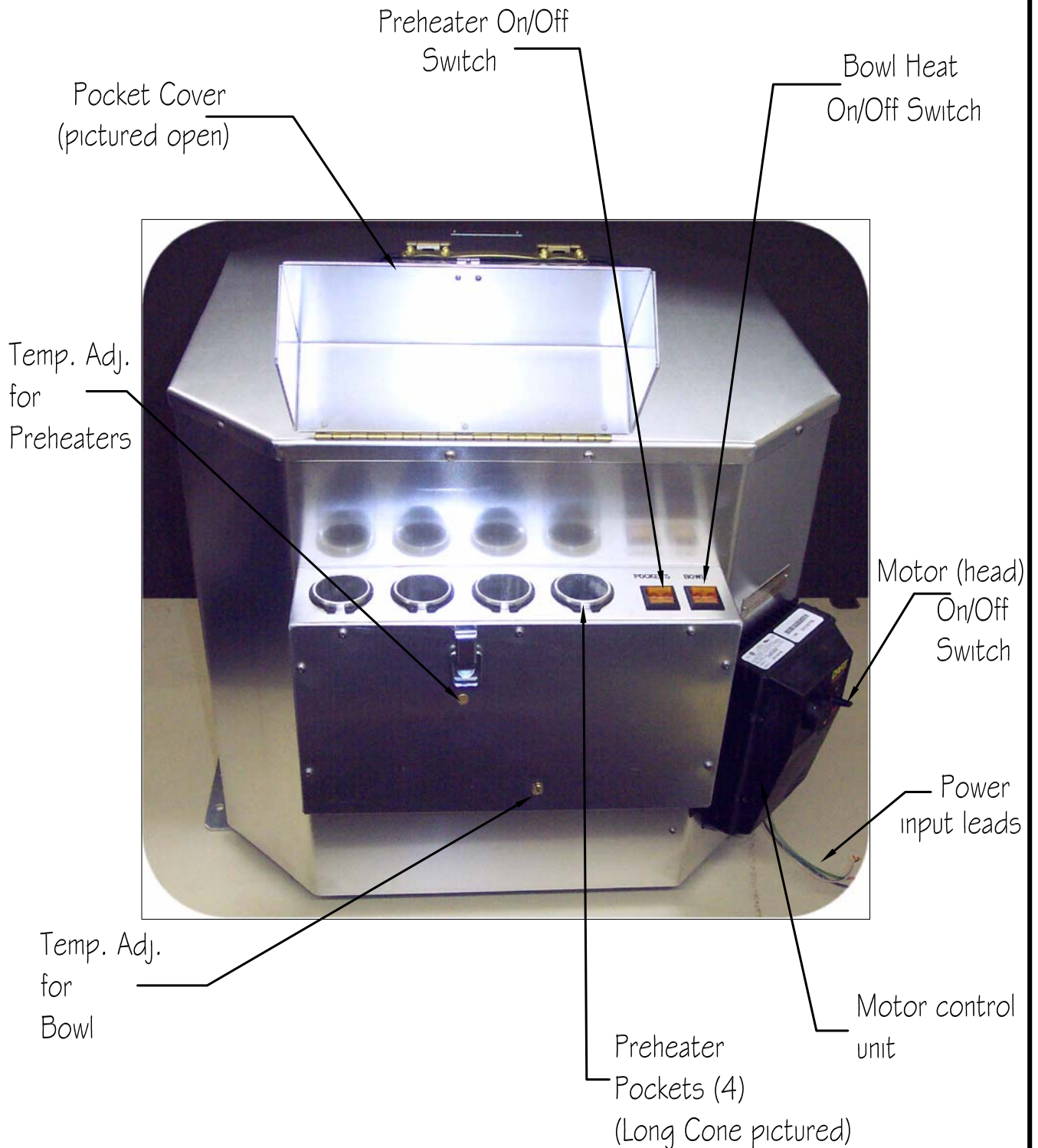
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# 18900 Series Key Features



# Specifications

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Weight: 62 lbs.[28.1 kilo]

Height: 20.5 "[521 mm] (lid closed) 32.25"[819 mm] (lid opened)

Footprint: 23.5"[597 mm] wide x 25"[635 mm] front to back

RPM: motor speed is factory set to meet API minimum RCF requirements

Note: RPM may need to be adjusted at the point of use depending on actual line voltage and if 50 vs 60 Hertz is in use.

Amp draw: 7.1 total Amp draw divided among the following

-Preheater pockets only: 1.1 (total of 4 pockets)

-Main body of centrifuge: 4.5

-Motor: 1.5

Voltage:	18910	115 volt	50\60 Hz	Long Cone
	18984	115 volt	50\60 Hz	Short Cone
	18911	220 volt	50\60 Hz	Long Cone
	18989	220 volt	50\60 Hz	Short Cone

NOTICE: All specifications, drawing details and misc. information are subject to change without notice. Please consult W. L. Walker Co. Inc. for latest information before ordering parts and or making any repairs.

Phone: 918-583-3109

[www.wlwalker.com](http://www.wlwalker.com)

# Setup and Operation

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Place the unit on a table or workbench capable of supporting the weight of the centrifuge and any other tools and equipment used with it.

Secure the centrifuge to the work surface with appropriate screws to prevent any movement from vibration.

Wiring should be completed by a qualified electrician to local codes.

Check the shields in the centrifuge head to make sure that all the plastic plugs are in place at the bottom of shields and any felt liners are also in place. (note that Long Cone shields are not supplied with felt liners)

Fill evenly and place samples into preheater pockets located at the front of the centrifuge assembly. After heating, remove samples from the preheater pockets and place them into the shields of the centrifuge head. If running more than one set of samples at a time, note should be made of the number on the arm of the head by each shield.

Close and latch the lid for safety purposes and to retain heat. The closed and latched lids also allow the motor to operate more efficiently. Turn the motor on and run for the necessary length of time. Turn the motor off and allow the head to come to a complete stop. Unlatch the lid and remove samples for inspection.

For complete details as to proper methods of testing, we suggest the use of the following "American Petroleum Institute" publications.

- API MPMS Ch. 10.3
- API MPMS Ch. 10.4
- API MPMS Ch. 10.6

These publication are available from "American Petroleum Institute"  
1 220 L Street, Northwest  
Washington, D.C. 20005-4070      202-682-8000

[www.api.org](http://www.api.org)

MOTOR / HEAD / SPINDLE ASSEMBLY DETAIL

1808102 Plug for Short Cone Shield (4)  
(18984 & 18989 only)

1871912 Plug for Long Cone Shield (4)  
(18911 & 18910 only)

Note: 1808104 Felt liner for Short Cone Shield (4) not pictured (18984 & 18989 only)

18081 Short Cone Shield (4)  
(18984 & 18989 only)

1871908 Shield for Long Cone Tube (4)  
(18911 & 18910 only)

1871904 Trunnion Ring Adpt. (4)  
(18911 & 18910 only)

1891202 Internal retaining ring (4)

18075 Head (1)

1891203 Bearing (2)

18914 Motor Shaft Extension (1)

18913 Bearing Housing (1)

1891204 Plug (1)

1891201 Cap Screw (8)

18436 Set Screw (4)

1891205 Stud (4)

1873804 Cap Screw (6)

18917 Motor Shaft Extension Sleeve (1)

18912 Stabilizer Plate (1)

18918 Inner Bowl Bottom (1)

7203402 Nut (6)

18718 Base (1)

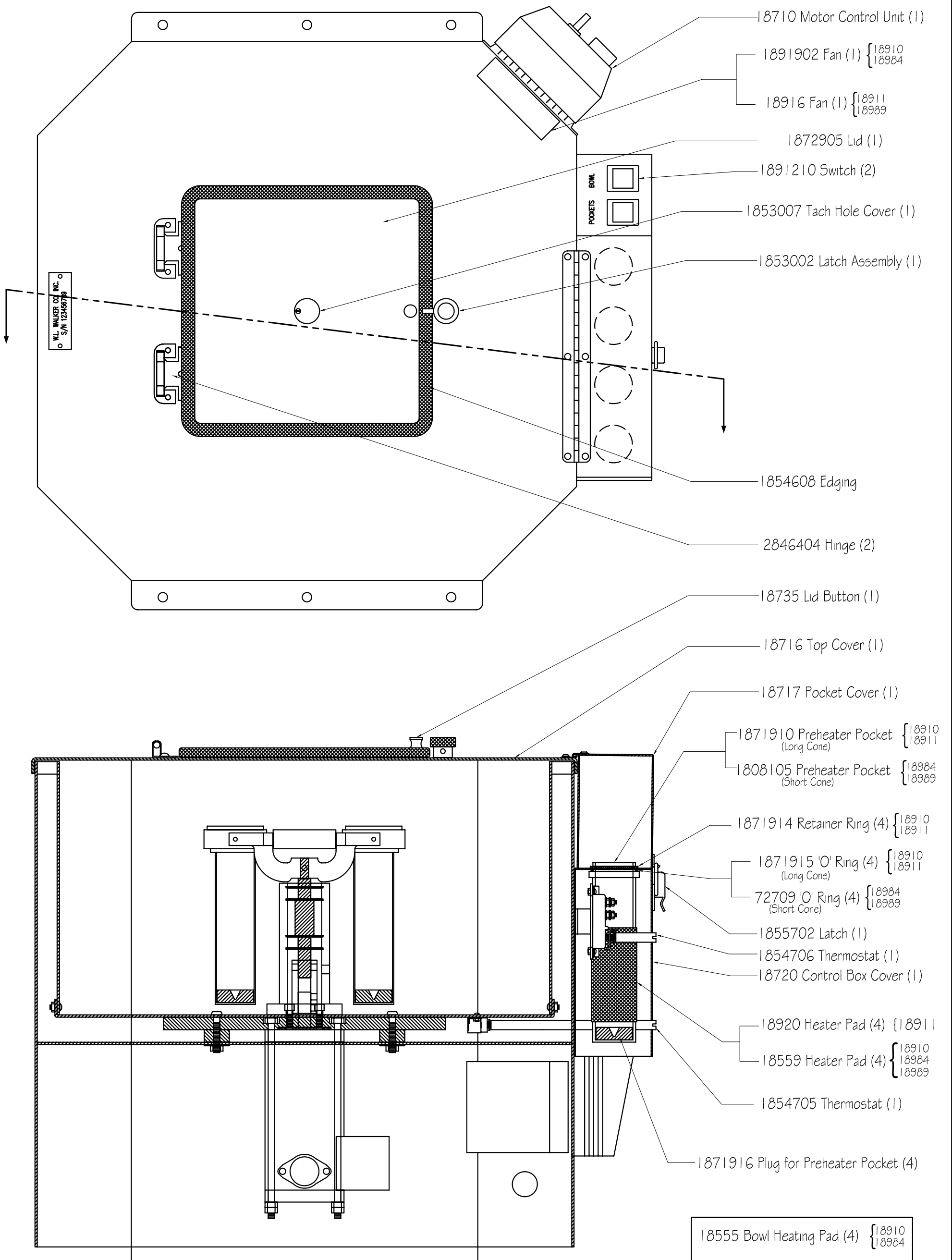
18742 Standoff (6)

1854609 Washer (6)

7203402 Nut (8)

1891213 Motor (1)

# Top and Cross-section Detail Views



18710 Motor Control Unit (1)

1891902 Fan (1) {18910  
18984

18916 Fan (1) {18911  
18989

1872905 Lid (1)

1891210 Switch (2)

1853007 Tach Hole Cover (1)

1853002 Latch Assembly (1)

1854608 Edging

2846404 Hinge (2)

18735 Lid Button (1)

18716 Top Cover (1)

18717 Pocket Cover (1)

1871910 Preheater Pocket (Long Cone) {18910  
18911

1808105 Preheater Pocket (Short Cone) {18984  
18989

1871914 Retainer Ring (4) {18910  
18911

1871915 'O' Ring (4) (Long Cone) {18910  
18911

72709 'O' Ring (4) (Short Cone) {18984  
18989

1855702 Latch (1)

1854706 Thermostat (1)

18720 Control Box Cover (1)

18920 Heater Pad (4) {18911

18559 Heater Pad (4) {18910  
18984  
18989

1854705 Thermostat (1)

1871916 Plug for Preheater Pocket (4)

18555 Bowl Heating Pad (4) {18910  
18984

18919 Bowl Heating Pad (4) {18911  
18989

Note: these items not pictured

Note: Long Cone style pictured in this view. {18910  
18911

# 18900 Series Centrifuge Wiring

