

# WELLS JOHNSON HIGH VOLUME CANISTERS

## USER MANUAL

## DISASSEMBLY OF HARVESTING CANISTERS

Please follow the instructions provided to disassemble 5L, 3L, 2L, and 1L, 250mL and 500mL harvesting canisters.

1. Unscrew the 3 silver knobs from the top of the canister



2. Remove the 3 silver rods through the bottom of the canister



3. Remove black top from canister and remove silicon tubing from inside the canister



4. Remove inner plug by gently pulling knob



5. Remove 2 orange o-rings from inner plug. To do this, position your thumb and index finger at about 10 o'clock and 2 o'clock on the O-ring. Squeeze your thumb and index finger toward each other until part of the O-ring pops out of place. Use that portion of the O-ring to remove it



6. Remove orange O-ring from black top



7. Remove polycarbonate tube from black bottom



8. Remove orange O-ring from black bottom



CANISTER COMPONENTS AND ITEM NUMBERS

	5L Canister	3L Canister	2L Canister	1L Canister
Rods	# 20-5178-05	# 20-5178-03	# 20-5178-02	# 20-5178-01
Knobs	# 20-5178-00	# 20-5178-00	# 20-5178-00	# 20-5178-00
Tube	# 20-5177-05	# 20-5177-03	#20-5177-02	# 20-5177-01
Black top	# 16-5196-00	# 16-5177-00	# 16-5177-00	# 16-5177-00
Black bottom	# 16-5197-00	# 16-5176-00	# 16-5176-00	# 16-5176-00
Black plug Lg.	# 20-5191-50	# 20-5191-50	# 20-5191-50	# 20-5191-50
Black plug Sm.	N/A	# 20-5191-00	# 20-5191-00	# 20-5191-00
O-ring kit Lg. plug	# 20-5180-59	# 20-5180-55	# 20-5180-55	# 20-5180-55
O-ring kit Sm. plug	N/A	# 20-5180-00	# 20-5180-00	# 20-5180-00

Canister rods and knobs



	500mL Canister	250mL Canister
Rods	# 20-5178-04	# 20-5178-01
Knobs	# 20-5178-00	# 20-5178-00
Tube	# 20-5177-25	# 20-5177-50
Black top	# 16-5194-00	# 16-5194-00
Black bottom	# 16-5195-00	# 16-5195-00
Black plug Lg.	N/A	N/A
Black plug Sm.	# 20-5191-00	# 20-5191-00
O-ring kit Lg. plug	N/A	N/A
O-ring kit Sm. plug	#20-5193-00	#20-5193-00

Canister O-rings



Polycarbonate tube



Black bottom



Black top w/ Sm. plug



Black top w/ Lg. plug



## CLEANING AND STERILIZATION OF HARVESTING CANISTERS

### 1. Canister must be disassembled for cleaning and sterilization

#### To disassemble:

- Unscrew the 3 silver knobs on the top of the canister
- Remove the 3 silver rods through the bottom of the canister
- Remove black top from canister and remove silicon tubing from inside the canister
- Remove inner plug by gently pulling knob toward
- Remove 2 orange o-rings from plug. To do this, position your thumb and index finger at about 10 o'clock and 2 o'clock on the O-ring. Squeeze your thumb and index finger toward each other until part of the O-ring pops out of place. Use that portion of the O-ring to remove it.
- Remove orange o-ring from black top
- Remove polycarbonate tube from black bottom
- Remove orange o-ring from black bottom

### 2.) After disassembly clean immediately

#### To clean:

- Place all pieces of canister in a basin with warm water and a mild detergent. It is essential not to allow tissue to adhere to the canister pieces as it may be difficult to clean. **Please note chemical or enzymatic cleaners will cause canister to become cloudy and damaged.**
- Clean the silver hose barb and inner passage of the black canister bottom with a bristled cleaning brush. The recommended brush is the Wells Johnson small cannula brush #20-5230-00. The bristles on the brush will aid in cleaning by being used to softly scrub the inner passage. A syringe can also be used to clean the hose barb by pushing cleaning solution through the passage to dislodge any tissue that may be stuck inside.
- Remove all tissue fibers that may be stuck to any pieces of the canister
- Let all pieces of canister air dry
- Visually inspect pieces thoroughly for remaining tissue or damages prior to sterilization
- Inspect the orange O-rings. Replace O-rings if they become cracked, dry, or brittle

### 3.) After cleaning begin sterilization (**Do not sterilize assembled**)

#### To sterilize:

- The **required** sterilization cycle for the polycarbonate tube is 250°F at 15 psi for 30 minutes with a 30 minute dry time. Do not let the cylinder have contact with sides and back of chamber as this may damage the cylinder.
- Autoclave all remaining pieces using pressure steam sterilization.
- Autoclave all pieces and wrap cylinder when using pressure steam sterilization.
- Sterrad Standard instrument cycle is recommended

4.) After sterilization reassemble canister on sterile field for usage

To assemble:

- Place the black canister bottom on a sterile, flat surface
- Replace the two orange O-rings on the canister top and bottom, 1 O-ring on each
- Replace the two orange O-rings on the inner plug of the canister top
- Press the canister tube onto the canister bottom and check to make sure canister tube is correctly attached
- Attach the three silver connecting rods through the 3 holes on the canister bottom
- Attach canister plug to top of canister
- Press the canister top onto the tube, make sure the rods line up with the holes in the canister top and the O- ring creates a proper seal
- Screw the silver knobs onto the canister top to secure rods, **DO NOT OVER TIGHTEN**
- Double check for a tight seal at all connection points
- Attach the silicone tubing with clamp to the silver hose barb attached to the canister bottom. **THE PLASTIC CLAMP ON THE SILICONE TUBING MUST BE CLOSED BEFORE USE**

## ASSEMBLY OF HARVESTING CANISTERS

Please follow the instructions provided to assemble 5L, 3L, 2L, and 1L, 250mL and 500mL harvesting canisters after sterilization has occurred. Assembly of canister must be done on sterile field.

1. First locate canister top, bottom, plug and 4 orange O-rings. These 4 should consist of 2 larger and 2 smaller O-rings.



2. Place 1 large O-ring along the groove of the canister top. O-ring should fit snugly in groove, to check run index finger gently up and down on O-ring. If O-ring does not move it is properly placed.



3. Repeat using 2<sup>nd</sup> large orange O-ring and canister bottom





4. Canister top plug requires smaller o-rings to be placed along the 2 grooves found on the plug. Always check that all o-rings have been properly placed along grooves to ensure canister will be sealed correctly.



5. Take polycarbonate tube and line up Wells Johnson vertical logo with silver hose barb on canister bottom. Firmly apply pressure onto the tube to securely attach onto the canister bottom. It is important to check that polycarbonate tube is completely attached to canister bottom with no spaces between tube and canister bottom.



Canister and tube **CORRECTLY** attached



Canister and tube **INCORRECTLY** attached

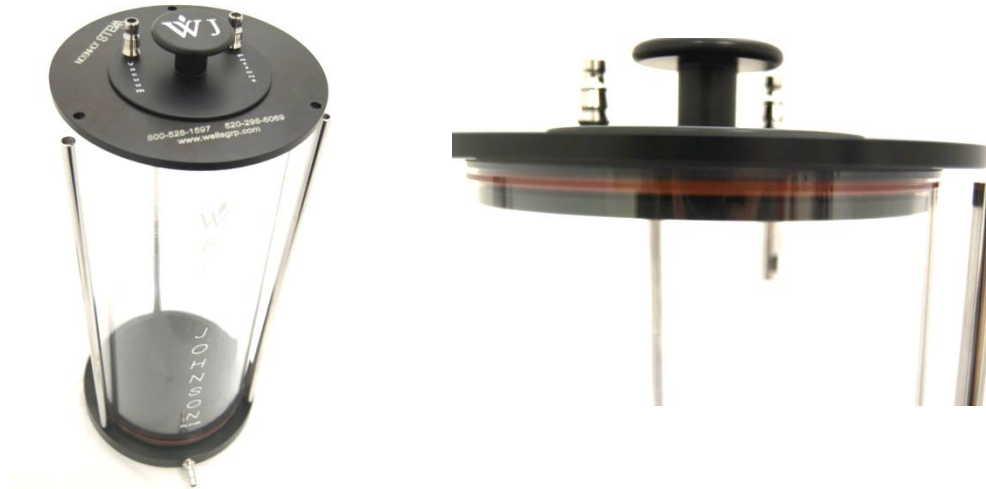
6. Tilt the canister slightly onto its side and attach the 3 metal rods through the canister bottom.



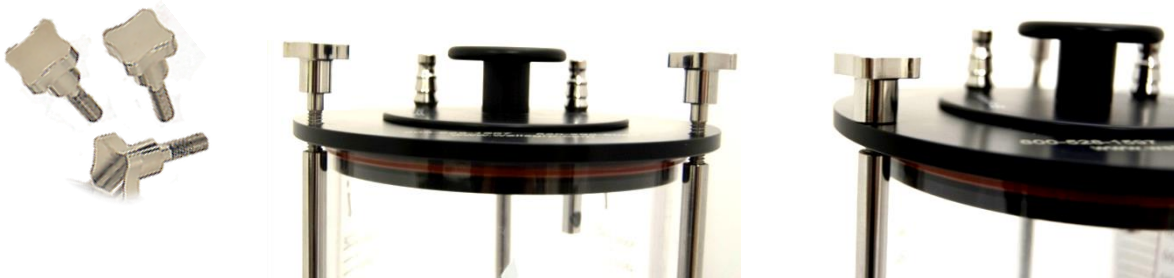
7. Attach black canister plug to top of canister



8. While having the canister sit on the sterile field, line up the 3 holes on the canister top with the 3 metal rods. Firmly apply pressure to attach canister top to polycarbonate tube. It is important to check the polycarbonate tube is completely attached to canister top with no spaces between tube and canister top.



9. Locate the metal rod screws (3) and attach screws to metal rods through the 3 holes found on top of the canister. Rotate screws clockwise to attach.





8000 South Kolb Rd.  
Tucson, AZ 85756

Ph: 800-528-1597  
Fax: 520-885-1189

FOR TECHNICAL ASSISTANCE:

CALL 800-528-1597

ECN 580

*Your Source for Innovation and New Technology!*  
[www.wellsgrp.com](http://www.wellsgrp.com)