

# 10 TIPS FOR MAINTAINING YOUR NUAIRE WATER-JACKETED CO<sub>2</sub> INCUBATOR

Regular preventive maintenance on your incubator helps to maintain proper growth conditions and prevent contamination.

## 1 CLEAN INTERIOR & EXTERIOR

**Exterior:** Mild detergent and single distilled water.  
**Interior:** Chloride-free disinfectant for chamber, water pan, inner door, and gasket.

Shelves, guide rails, and door gaskets may be removed for sterilization.



Before cleaning or decontamination remove cultures to a safe location.

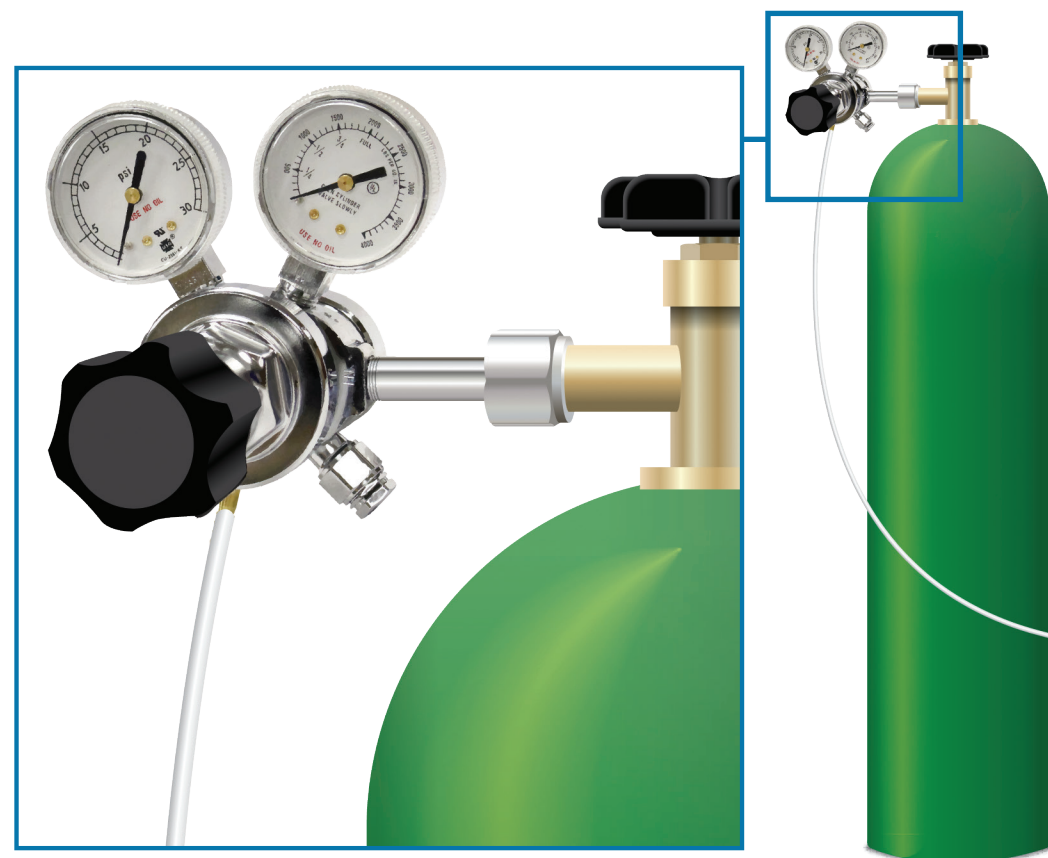
## 2 CHECK AND / OR FILL WATER JACKET

Use single distilled water, no purer than 1 mega ohm.  
Do not use chlorinated or halogen material in the water jacket.



## 3 CHECK GAS SUPPLY PRESSURE

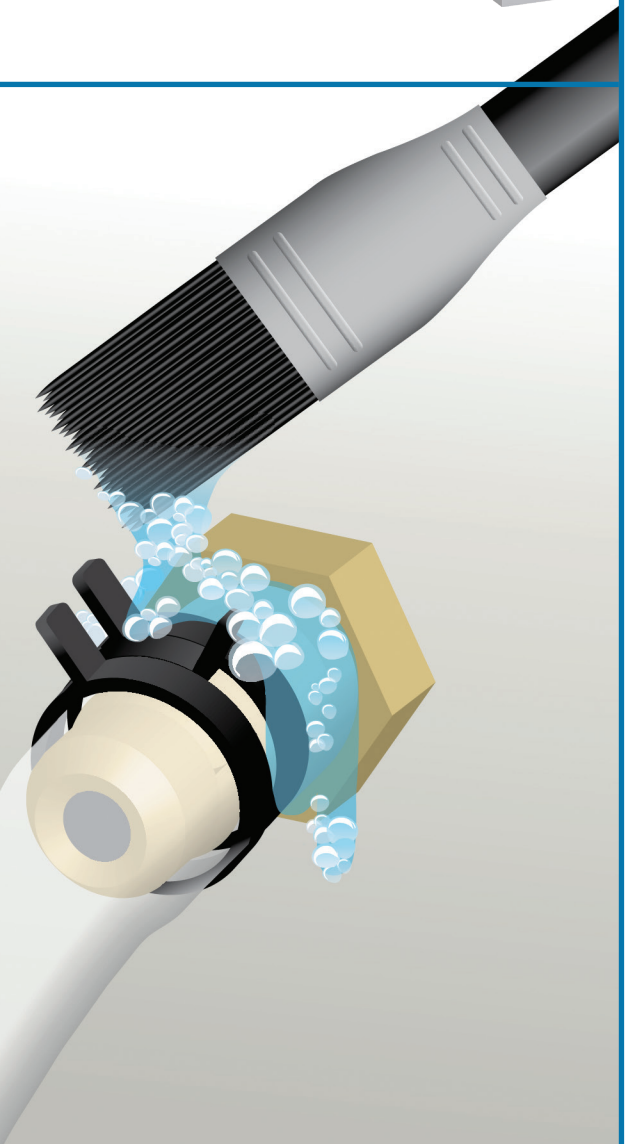
Ensure that medical grade CO<sub>2</sub> and N<sub>2</sub> are each supplied via a two-stage regulator at a pressure of 20 PSIG / 1.4 BAR but not above 25 PSIG / 1.8 BAR.  
Inspect at least every 6 months.



## 4 CHECK INTEGRITY OF HOSE CONNECTIONS

Apply soapy water to hose connections. Bubbles indicate leaks.

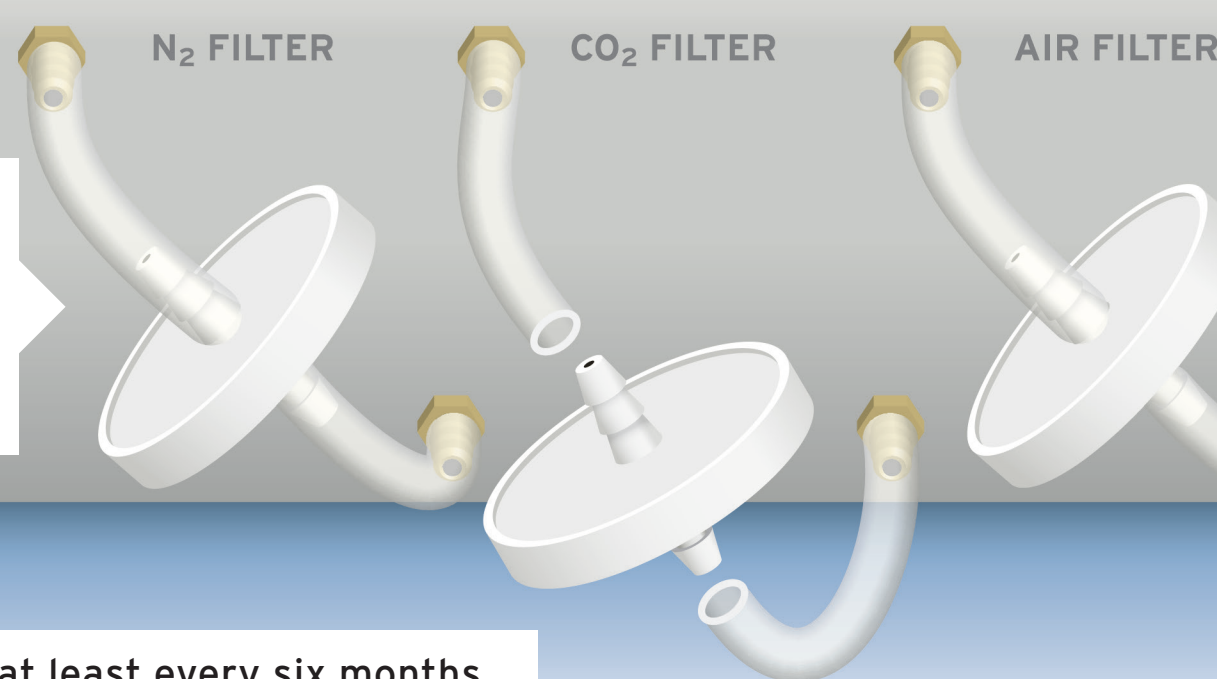
Inspect at least every six months.



## 5 CHANGE EXTERNAL DISK FILTERS FOR GAS & AIR SUPPLY

Check the CO<sub>2</sub>, N<sub>2</sub> and air disk filters located behind the bottom, front valence. Replace when filters are visibly discolored or after every fifth tank of CO<sub>2</sub> is consumed.

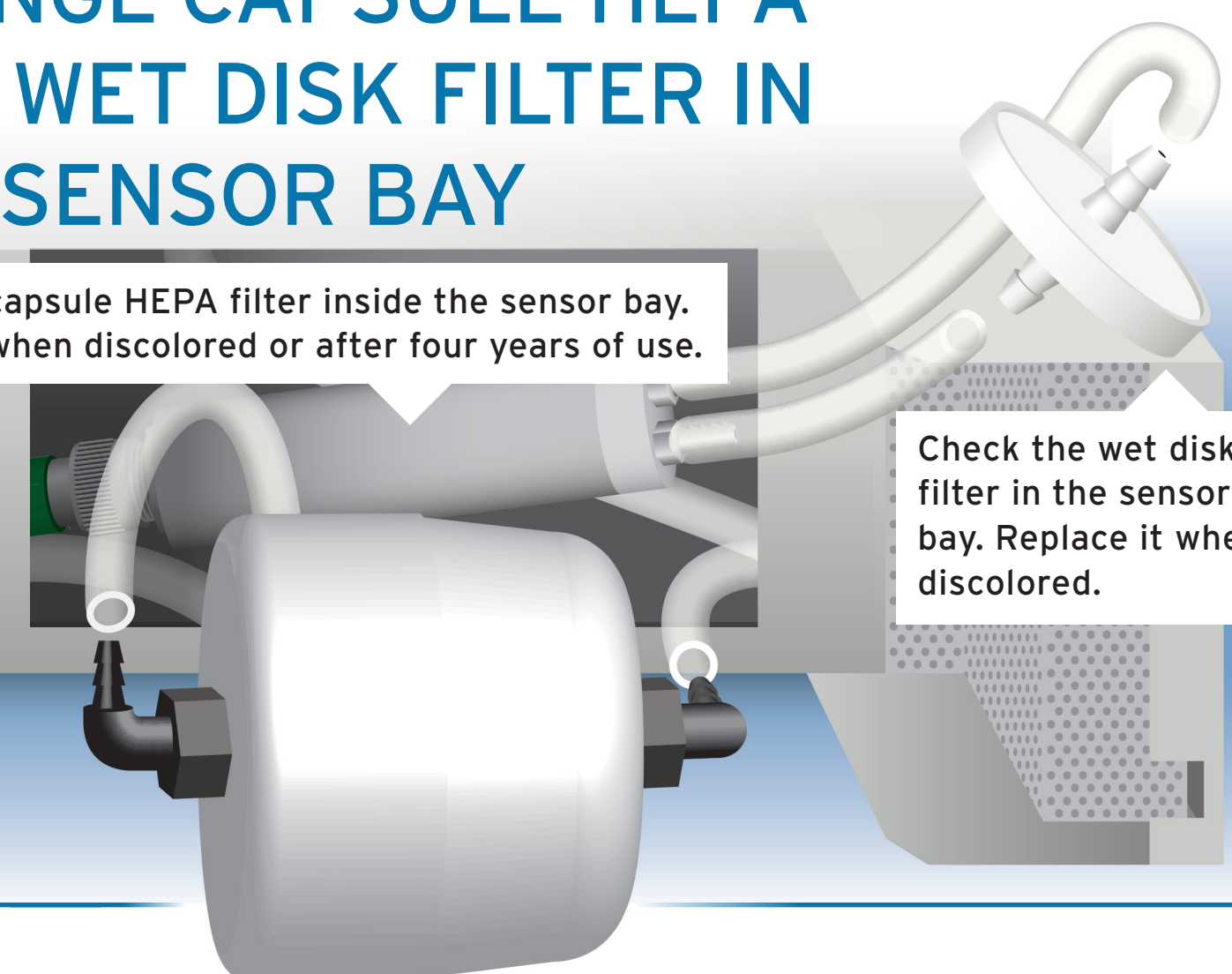
Inspect each filter at least every six months.



## 6 CHANGE CAPSULE HEPA AND WET DISK FILTER IN THE SENSOR BAY

Check the capsule HEPA filter inside the sensor bay. Replace it when discolored or after four years of use.

Check the wet disk filter in the sensor bay. Replace it when discolored.



## 7 CHECK INTEGRITY OF DOOR SEALS

Ensure that gaskets for the inner and outer doors are both free of cracks and other wear.



## 8 REFILL WATER PAN

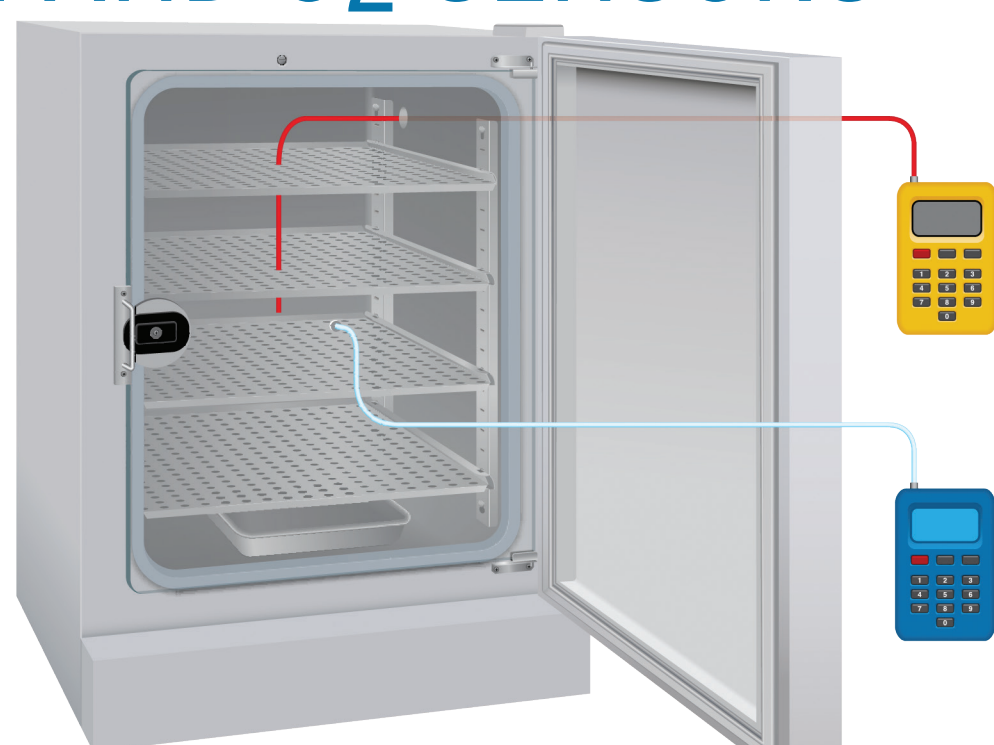
**Note:** Use single-distilled water no purer than one mega-ohm.

Refill the water pan every week.



## 9 CALIBRATE TEMPERATURE, CO<sub>2</sub>, RH AND O<sub>2</sub> SENSORS

Calibrate according to laboratory Standard Operating Procedure (SOP).



## 10 CHECK FOR CONDENSATION

Consult your service manual to adjust the door heater to eliminate excess condensation. If condensation persists, contact Service for guidance in adjusting chamber air injections. Inspect at least every six months.

