



# BACA PURE

200/80 Water Filtration System by EBBCO  
Pre-Install Document



# PRE-INSTALL PACKAGE

Overview of Installation Requirements		
Topic	Overview	Detailed Information Page
<b>ELECTRICAL REQUIRMENTS</b>	460V, 44 FLA. <b>Consult with a licensed electrician.</b> Customer supplied.	<b>3</b>
<b>AIR REQUIREMENTS</b>	80 PSI @ 2 SCFM. Customer supplied.	<b>3</b>
<b>PLUMBING REQUIREMENTS</b>	3" barbed connection starting 40" from the floor to the shop grey water piping in ceiling. A main closed loop 3" pipe system and pressure of 75 PSI. Piping reduced to 1" diameter for delivery to individual machines, Hurricane Filter Units, and wash down hoses. Shut off valves installed on all 1" lines. 10 GPM flow controls. Fresh water hose connection to emergency low water makeup float valve in pit.	<b>3</b>
<b>OVERHEAD CLEARANCE</b>	16' above the entire work envelope.	<b>4</b>

# **BACA PURE 200/80**

Delivering 200 gallons per minute of 10 micron water, with 80 gallons per minute CRYSTAL CLEAR water.

## **1. ELECTRICAL REQUIREMENTS**

1 drop, 460 volt

System operates at 44 FLA.

Service for main system with sidearm disconnect and appropriate upstream protection per NEC codes to be located within 10' of Main System Control Panel installed by a licensed electrician.

1 drop each, 110 volt for Hurricane Filter units.

1 drop, 110 volt for Ozone Generator.

1 drop, 110 volt for Filter Cleaning Station.

## **2. AIR REQUIREMENTS**

The BACA PURE main system requires 80 PSI @ 2 SCFM.

Additional connection of 80 PSI @ 2 SCFM for Automatic Blow Down.

## **3. PLUMBING REQUIREMENTS**

3" barbed connection starting 40" from the floor to the shop grey water piping in ceiling.

A main closed loop 3" pipe system must be in place to provide necessary flow and pressure of 75 PSI.

Piping must be reduced to 1" diameter for delivery to individual machines, Hurricane Filter Units, and wash down hoses.

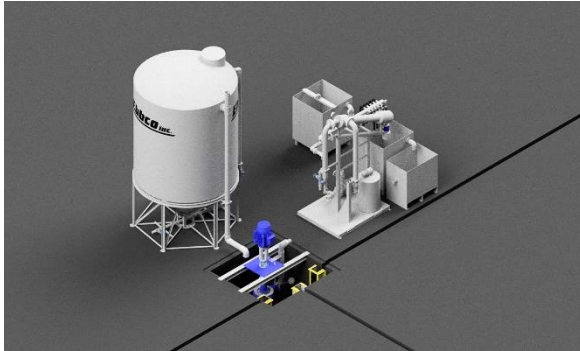
Individual full port shut off valves must be installed on all 1" lines approximately 40" from floor.

10 GPM flow controls must be installed for all wash down hoses connected to grey water.

Fresh water hose connection to emergency low water makeup float valve in pit.

#### 4. SPACE AND PIT REQUIREMENTS

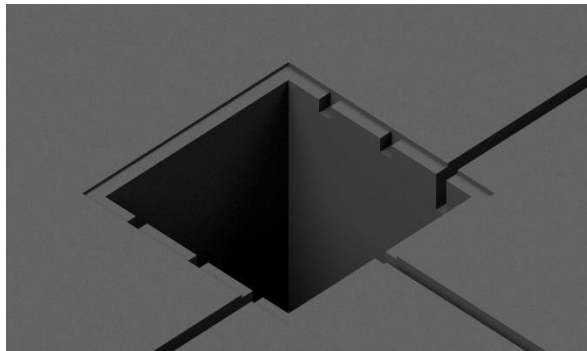
The BACA PURE system requires a minimum of 18' X 18' space and 16' of overhead clearance near the placement of 2600 gallon conical tank.



A Collection pit below ground level with dimensions no less than 5' wide x 5' long x 5' deep must be installed, if not present.

Water delivery flumes must be in place to direct water from all machines into collection pit. These flumes must be no wider than 12" with 1/4" drop per 20 feet into the collection pit. Flumes should not exceed 12" deep at entry to pit collection.

I-Beam slots must be cut into pit walls to support the main filter pump (as shown in the below picture). Dimensions will be provided after final shop layout drawing.



## **5. ADDITIONAL CUSTOMER RESPONSIBILITIES**

Uncrate all the equipment and place it in the locations as shown on the EBBCO INC. layout drawing.

Have all necessary electrical power drops in the proper locations to operate all equipment.

Have all necessary compressed air drops in the proper location to operate all equipment.

Install the lobster pots into the correct locations of the dirty water pit.

Order a tanker truck with enough city water to fill entire system prior to system start-up.

Have a qualified plumber on hand to make all final connections from the water system to the shop water plumbing loop, to feed all shop equipment, and machine tools.