

High Flow Radon Problems ?

We have a patented natural solution.



At last, an answer to your high flow rate, radon plagued, community water supplies.

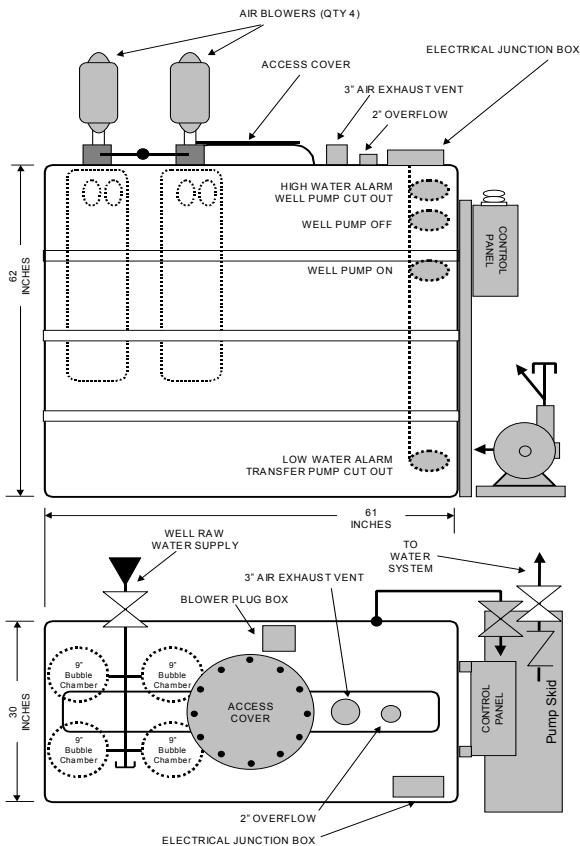
INTRODUCING THE COMMERCIAL Bubble-Up®



R.E. PRESCOTT CO., INC.



Radon is a serious concern for many people with well water. Radon gas has been associated with causing cancer. The government now recommends removing as much radon from your water as possible. The Commercial Bubble-Up makes this possible. Removing your concern!



Features and Benefits

COMPACT SIZE

- The commercial **Bubble-Up®** is compact
- Saves valuable floor space
- Uses half the space of other brands
- Unit mounted blowers
- Commercial **Bubble-Up®** measurements
30" wide x 61" deep x 62" tall

- Quiet operation
- Extra insulated blowers
- Quiet transfer pump

SAFETY FEATURES

- Overflow relief valve
- High level well pump shutdown
- High level alarm
- Run dry transfer pump protection
- Low level alarm

SIMPLE INSTALLATION

- Pipe the inlet
- Pipe the outlet
- Pipe the vent exhaust
- Wire the controls
- Power the panel

MODULAR CONSTRUCTION

- Simple assembly of components for ease of maintenance and service

HIGHEST QUALITY PARTS

- 2" Bronze ball valve for raw water in/out
- Stainless hardware
- 3" Air connection exhaust outlet
- Heavy duty poly **Bubble-Up®** tank
- 9" Reactor vessel
- NSF approved poly.

OUTPUT: HIGH PRESSURE AND HIGH FLOW

INPUT: HIGH EFFICIENCY

- 99+% Removal
- See test results at www.represcott.com

Bubble-Up® is a trademark of the R.E. Prescott Co., Inc. Exeter, NH 03833
www.represcott.com

Call for Sales and Service:

Bubble-Up® Simple Installation

PIPE IN & OUT and POWER THE PANEL:

- 2 - 2" NPT water connections
- 1 - 3" PVC air outlet connection
- 1 - 2" NPT Overflow
- 230 volt, 50 AMP Electrical

COMMERCIAL BUBBLE-UP SPECIFICATIONS

Design Flow Rate:

The water system flow rate for the Commercial Bubble-Up Unit is 50 gpm.

Radon Removal:

The Commercial Bubble-Up (CBU) system is furnished with one 415 gallon storage compartment and four (4), bubbling chambers. The well pump flows water to the inlet manifolds where it mixes with the air at the top of each bubbling chamber. These chambers overflow into the storage compartment and is pumped to the distribution system with a transfer pump.

The CBU is supplied as a packaged, fully assembled, skid-mounted Radon BubbleUp system. Components include One (1) 415 gallon storage tank, four (4) 9 inch diameter 12 gpm bubbling chambers, blowers, NEMA 12 UL-508 control panel with alarms, and 3 HP, single phase, 50 GPM transfer pump. The transfer pump is controlled by the pressure of the distribution system.

Radon removed with the CBU will be vented to atmosphere through a 3 inch vent outside the building wall or roof.

Equipment:

CBU System:

One (1) Radon BubbleUP model CBU415-3HP/230V/1P a packaged skid-mounted radon removal system. The CBU comes complete with blower, NEMA 12 control panel, and one (1) F&W model C22231 centrifugal pump rated for 50 gpm at 140 ft. TDH (60 PSI). The aeration system is a complete package, including controls and repumping. The CBU system uses the patented concurrent flow aeration method.

The CBU is constructed with molded plastic storage compartment. The bubbling chambers are polyethylene and are completely removable from the storage compartments. The lids shall be fastened to storage compartment with stainless steel hardware. The lids have a gasket seal. The CBU-415 has one storage compartments with 4, 9" bubbling chambers. The inlet manifolds are constructed from PCV. Blowers are unit mounted and are provided. All fittings will be union disconnect fittings for a completely removable and serviceable system.

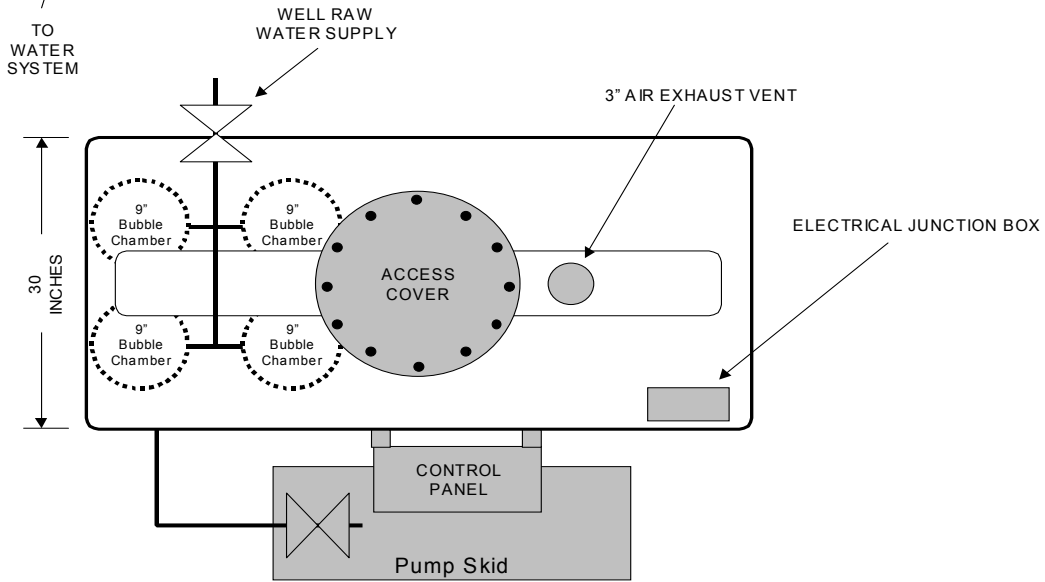
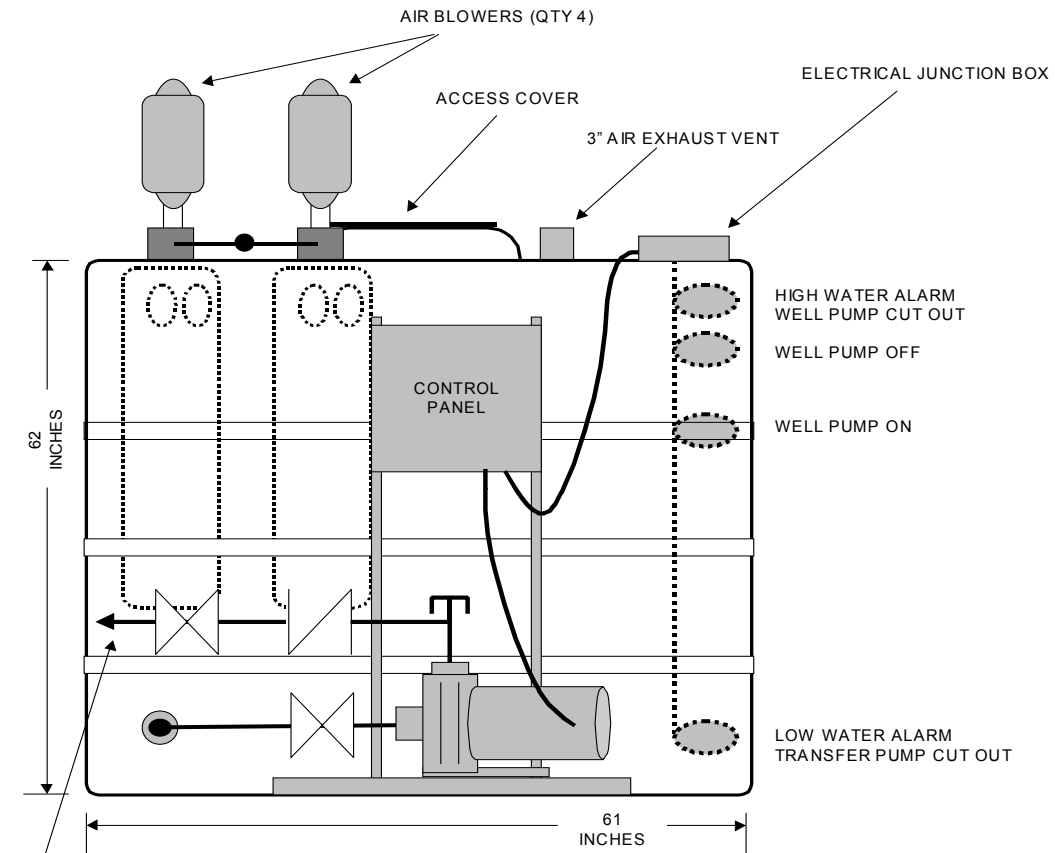
All water, air, and vent connections to the vessel shall be Sch 40 PVC or brass construction. Fittings and pipe sizes are sized for proper head loss. The CBU will be equipped with a 2" drain fitting, isolation ball valves and unions.

The NEMA 12 control panel (UL-508 listed) includes IEC-type motor starters w/overload protection for the transfer pump. The transfer pump will be controlled by a system pressure switch with low water cut-off. The panel will have system alarms with dry contacts for external notification devices (by others). Alarms will be low water level and high water level. On high water level there will be a redundant well pump shut off. The control panel includes HOA switches; elapse time meters, run lights for each motor and a Test-Auto-Reset alarm switch.

= END =

A B C D E F G H

50 GPM BubbleUp Unit



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-230
-240
-250

COMMERCIAL BUBBLEUP UNIT
MODEL CBU415-3HP/230V/1P



R.E. PRESCOTT CO., INC.
10 RAILROAD AVENUE
EXETER, NH 03833

OPERATING INSTRUCTIONS

Commercial Bubble-Up Radon Removal Unit

Dear Radon Professional,
Congratulations on purchasing this high-quality REPCO
CONDITIONER product.

PRECAUTIONS:

Before putting your **Bubble-Up** into operation, thoroughly read and follow these instructions. This will make you familiar with the product and its operation. We also recommend reading the operating instructions for the pump, float switches and blowers.

SAFETY RULES:

For safety reasons, the **Bubble-Up** is not meant to be used by people who have not previously read these instructions. This applies in particular to children and young people under 16, who must be kept away from the product when it is in operation.

Ensure that all electrical connections are located in places that are not reachable by water.

Blowers are to be mounted above the **Bubble-Up**.

Before using the product, make sure that the main voltage corresponds to the voltage indicated on the data plate of the REPCO Control. (230 volts, single phase).

Conformity with local and State electric codes is mandatory. The National Electric Code requires that a ground fault circuit interrupter

(GFCI) be used in the branch circuit supplying pumps. Consult a licensed electrician or your power company if in doubt.

WARNING:

Operating range:

ON: pressure = (30 PSI)

OFF: pressure = (50 PSI)

Specifications:

Power source (Transfer Pump max. power): 16A - 230V - 60Hz

Max delivery (60 GPM.)

Max water temperature: 35 C

Max. operating pressure (110 PSI.)

REPCO CONTROLS AND PROTECTION SYSTEM

The REPCO Controls convert the electric transfer pump and well pump into an automatically operating radon removal system for commercial use. The controls operates and performs four functions:

1. It allows for transfer pump operation:

It starts the transfer pump when the pressure in the system drops to the ON pressure. The transfer pump stops when the system pressure reaches the OFF pressure. The existing system pressure switch is connected to terminals 4 & 5 in the REPCO Controls.

2. It protects the transfer pump from dry operation:

The specially designed safety device automatically stops the transfer pump when water is low in the 415 gallon Bubble-Up tank, thus preventing possible damage due to the transfer pump running dry. The stopping action is accomplished by the low water cut off float. This float closes on an empty tank stopping the transfer pump and alarming by the red alarm light and buzzer on the REPCO Controls. This informs the user of the low water condition. There are additional dry contacts, terminals 12 & 13, for remote alarm indication.

3. It allows for well pump and blower operation:

It starts the well pump and blowers when the level in the Bubble-Up tank drops the ON float. The well pump and blowers run and stop when the level in the tank reaches the OFF float.

4. It protects the well pump from overflow:

The specially designed safety device automatically stops the well pump when high water is in the 415 gallon Bubble-Up tank, thus preventing possible damage due to flooding. The stopping action is accomplished by the high water float. This float closes on an over full tank stopping the well pump and alarming by the red alarm light and buzzer on the REPCO Controls. This informs the user of the high water condition. There are additional dry contacts, terminals 10 & 11, for remote alarm indication.

FUNCTIONAL PARTS

1. 2 inch inlet header valve.
2. 1 inch inlet supplies.
3. 1st stage treatment manifold
4. Blower and inlet tee.
5. Reactor tank.
6. Concurrent aeration grids.

Bubble-Up Operating Instructions

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7. Transfer pump.
8. Well pump and blower, transfer pump and alarm float control switches.
9. REPCO Controls operating panel.
10. Air exhaust connection.
11. 2 inch drain connection.
12. 2 inch overflow connection

ELECTRICAL/MECHANICAL CONNECTION

The **Bubble-Up** is provided with a REPCO Controls panel. All connecting cables, power supply and pump connections are done on the terminal strip in the control panel.

- 1) Connecting cables are included for the floats; connect them to the proper terminals. Connect the well pump and transfer pump to the REPCO Controls. Connect the blowers and plug them into the separate quadplex outlet provided. Connect the system pressure switch to the controls.
- 2) Cut into the existing plumbing of the water system and install a bypass valve set-up. Connect the inlet bypass so that the raw water of the existing system is going to the 2 inch inlet header valve. Connect the outlet bypass valve back to the transfer pump discharge so that the treated water from the **Bubble-Up** goes to the system.
- 3) Connect the blowers to the inlet tee. Mount the blower above the **Bubble-Up**. Pipe the air exhaust outside and terminate 2 feet above the eaves of the home and away from any windows.
- 4) Pipe the overflow to a gravity floor drain. Do not pipe more than 10 inches above the **Bubble-Up** or it will not drain properly and the potential for flooding and over flow exists.

PUTTING THE **Bubble-Up** INTO OPERATION

WARNING: BEFORE PUTTING THE SYSTEM INTO OPERATION, FILL THE BUBBLE-UP TANK AND TRANSFER PUMP WITH WATER TO PRIME. AIR MUST BE VENTED FROM THE TRANSFER PUMP. THIS IS NECESSARY TO ALLOW THE TRANSFER PUMP TO BE FILLED WITH WATER WHEN IT IS FIRST USED AND TO PREVENT DAMAGE.

Place the REPCO Controls circuit breakers and HOA selector switches in the OFF position. Power the REPCO Controls panel with a separate 230 volt single phase power supply.

Start the well pump by operating the HOA selector switch in the HAND position. Run the well pump and check that the operation of the blowers. After operation is correct place the selector in the AUTO position and allow the well pump to run until it shuts off automatically.

Prime the transfer pump, after it is fully primed run the transfer pump in HAND until there is pressure in the system. Place the selector in AUTO and allow the transfer pump to run until it stops automatically. The system is now operational. Leave the selector switches in AUTO. Never leave the selectors in HAND un-attended as the pumps will not stop automatically. The HAND position is for the trained operator to trouble shoot or test the operation of the system.

Draw water in the system to have the Bubble-Up cycle, check for leaks and correct operation.

WARRANTY

The warranty is valid for a period of 12 months from the date of purchase solely for defects in materials or workmanship. The warranty does not cover malfunctions due to misuse or to failure to

Bubble-Up Operating Instructions

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follow the instructions imparted by the various component manufacturers.

The warranty will be regarded as null and void if the plug or power cords have been altered or tampered with or if transfer pump, float switch or blowers has been partly or totally disassembled.

For information on operating troubles, carefully read the operating instructions of the related pump.

We expressly state that, in conformity with the legislation in force, no responsibility is assumed for damage caused by our products through improper installation, use or repairing techniques or due to use of non-genuine spare parts or of components not approved by **R.E. Prescott Co., Inc.** or, at all events, resulting from repairs not carried out at an authorized service center or by authorized skilled personnel. The same applies to attachments and accessories.

R.E. Prescott Co., Inc.
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CALL FOR LOCAL SERVICE