

# BROMINE EROSION FEEDER SERIES 55 and SERIES 110

**Pro**Minent®

## TECHNICAL DESCRIPTION

The Series 55 and 110 are pressure rated feeders re-engineered from polyester cartridge or filter housings to provide for automatic dissolution of BCDMH - Bromo-chlorodimethylhydantoin tablets or briquettes.

When coupled with a pH & ORP controllers, or Conductivity & ORP controllers, these units allow for the dissolution and automatic proportional dosage of the bromine based biocide, based on demand from the system.

BCDMH bromine based organic briquettes or tablets provide for superior sanitation of cooling systems, swimming pools, spa's, hydrotherapy pools and ornamental fountains and the maintenance of a small residual of oxidant normally provides for excellent protection from Legionnaires Disease Bacteria, or other pathogenic bacteria, in the system.

Maintenance of a low residual by means of a ORP sensor ensures that dosage is automatically carried out to maintain that residual, even under fluctuating load conditions, and without excessive dosage of products which can cause severe corrosion to metals in the system.

Both models are designed as up flow deep bed leaching devices, which operate under turbulent flow conditions to ensure high dissolution rates of BCDMH product, and are flooded beds to ensure the BCDMH product is always under water and minimizes any danger of ignition from damp or partially wet oxidizing agent.

Dissolution rate of most types of BCDMH products depend on bed depth, water temperature, and water flow rate through the bed. The specifications later in the bulletin give typical dissolution rates, and usage rates for various size systems.

**When coupled with the ORP Controller models - these systems provide for automatic dosage and control.**

**The feeder capacity should allow for in excess of 30 days supply on cooling systems or fountains, and in excess of 7 days on large swimming pools, before recharging**

**CAUTION: These feeders are intended for use with Bromo-chloro-dimethylhydantoin based tablets or briquettes ONLY and using the system circulating water ONLY as the dissolving water source for the vessel.**



## FEATURES

- Corrosion Resistant Polyester & PVC
- Large Capacities - 13, 33 Kgs.
- Floor mounting - Easy to Refill - Safety when refilling
- Easy to undo Lock Ring for refilling
- Wide 225 mm lid for ease of refilling
- Pressure Gauge & Rating to 280 kPa.
- Air Bleed Valve for rapid drain down
- Bottom drain valve to facilitate refilling

	Series 55	Series 110
Capacity of BCD - Kgs.	33	13
Typical Flow Rate - lts/min	10	10
Max Flow Rate - lts/min	20	20
Max Pressure Rating - kPa	280	280
Plumbing - BSP Inlet & outlet	15	is
Plumbing - Pressure hose	13	13
Typical Dissolution Rate - kgs/hr	0.3	0.3

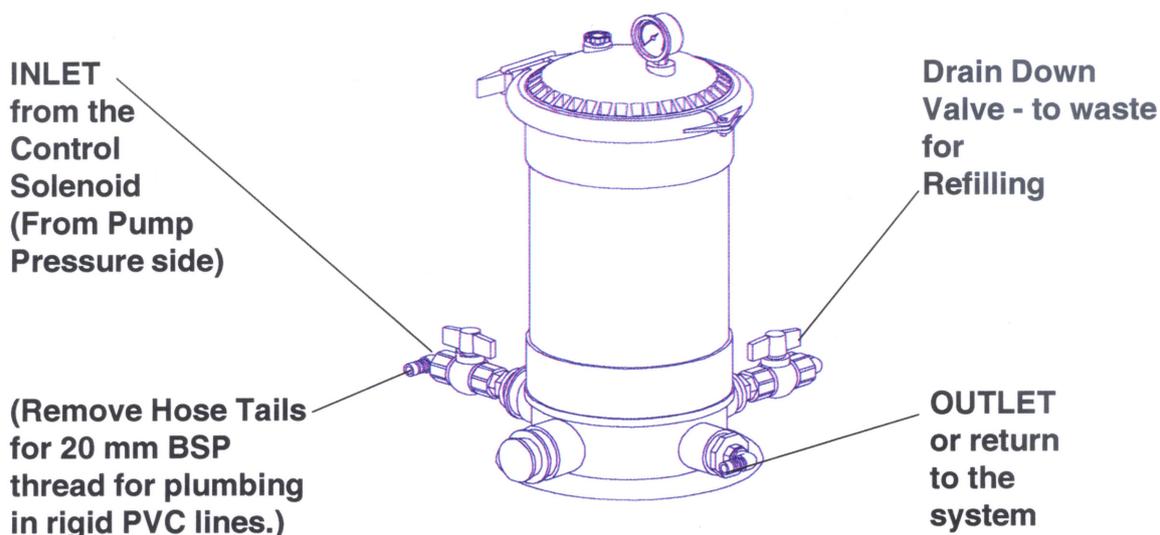
**Prominent Fluid Controls Pty Ltd**  
[www.prominentfluid.com.au](http://www.prominentfluid.com.au)

**QLD Office:** Unit 1, 68 Murdoch Circuit  
ACACIA RIDGE QLD 4110  
Ph: (07) 3213 1900 Fx: (07) 3272 0445  
Email: [pfcqld@prominentfluid.com.au](mailto:pfcqld@prominentfluid.com.au)

**Head Office:** Unit 4, 4 Narabang Way  
BELROSE NSW 2085  
Ph: (02) 9450 0995 Fx: (02) 9450 0996  
Email: [sales@prominentfluid.com.au](mailto:sales@prominentfluid.com.au)

**VIC Office:** 1/21-22 National Drive  
HALLAM VIC 3803  
Ph: (03) 8795 7430 Fx: (03) 8795 7431  
Email: [pfcvic@prominentfluid.com.au](mailto:pfcvic@prominentfluid.com.au)

Distributors Throughout Australia & New Zealand



### ASSEMBLY GUIDELINES

1. The feeders should preferably be installed in an area to ensure adequate ventilation from any fumes when refilling.
2. The feeder should be installed on a concrete slab or concrete tile minimum 300 x 300 mm and at floor or ground level for ease of refilling.
3. Screw the inlet and drain valve sections into the IN ports of the feeder and the outlet hose tail to the OUT port of the feeder. The drain valve should point to the back of the feeder and be parallel with the floor when fixed.
4. Seat the large 'V' ring around the lid groove, screw the pressure gauge into the lid, seat the lid on top of unit ensuring the large O-ring is in place, and clamp the lid in place.
5. The unit is now ready for locating on concrete slab or tile prior to commencement of plumbing in & out of vessel.
6. Ensure that there is approx. 500 mm of free space above the lid to allow for ease of refilling the vessel.
7. Ensure that there is approx. 100-mm clearance all around the vessel to facilitate removal of the lid and the lock ring when refilling the unit.
8. Refer to next page for plumbing guidelines, and commissioning instructions.

### INSTALLATION GUIDELINES

1. The pH and ORP controllers house sensitive electronics and preferably should be installed internally in the plant room, or if external should be installed in shade and protected from direct sunlight and temperature extremes.
2. The BCDMH feeders should preferably be installed outside in close proximity to the cooling towers or in large well-ventilated plant rooms.
3. Plumbing as in diagram above can be in uPVC pipe utilizing the 20-mm. BSP threads after removal of any hose tails.

4. Plumbing can also be carried out using braided pressure 19-mm hose and utilizing the hose tails supplied.
5. The outlet of the BCD feeder will contain high levels of oxidizing agent, which would be corrosive to copper, S/S, and mild steel pipework. Plumbing from the feeder should be in corrosion resistant p" or hose and directed to an area of good mixing in the cooling tower basin. e.g. vicinity of make up water to tower basin.
6. Care should be taken that the take off point to the Controller is before the system Non - Return valve to avoid short circuiting the non-return and overflowing the system on plant shutdowns.
7. Refer to the actual Controller operating instructions -for commissioning instructions for the controller.

### Recharging the BCD Feeders

**Refer to safety instructions for the particular brand of BCDMH chemical, Read and understand the MSDS sheet supplied with the chemical. Wear the appropriate safety gear. Refer to the safety guidelines printed on the feeder. BCDMH chemicals are strong oxidizing**

**agents and can cause fire or explosion if mixed with other chemicals!! Ideally your feeder should be recharged by a trained water treatment specialist as follows :-**

1. Isolate the inlet valve to the BCD feeder.
2. Open the drain valve to drain down feeder.
3. Open the air bleed valve to assist drain down.
4. When pressure gauge registers zero undo the lock ring and remove lid.
5. Refill container with BCDMH tablets or briquettes up to the Tee take off only. **Do NOT OVERFILL**
6. Clean off the O'-ring and lid seat, and replace lid.
7. Fit the lock ring and clamp the lid in place.
8. Shut the drain valve, and open the isolation valve and allow the vessel to fill with water.
9. Shut the air bleed valve when vessel is full and water exits at the air bleed.
10. Activate the solenoid, and check that there is sufficient flow through the feeders to the towers.