

INTRODUCING
THE SHAPE
OF THINGS
TO COME.



The Revolutionary New Distribution Technology From ENPRESS®

THE OLD WAY.

THE VORTECH WAY.

Vortech creates
better backwashing
and cleaning
action of medias.

(Manganese Greensand
- 10" Diameter Tanks 8gpm)



HERE'S WHY...

- Improved lift and mixing from swirling action created by Vortech, provides shorter backwashing requirements.

(Filter Ag - 10"
Diameter Tank - 8gpm)



**30%
LESS
BACKWASH
REQUIRED**

ENPRESS LLC a worldwide leading manufacturer of composite pressure vessels for use in water treatment, introduces the Vortech™ - the world's newest, innovative and most efficient bottom distribution system. Cleaning is greatly improved, freeboard is reduced, and it works with all softening and filtration medias. The Vortech's™ high flow design maximizes today's high efficiency valves...now your smart valve has a smart tank! The Vortech™ - just another example of the type of innovation you've come to expect from ENPRESS®.

FEATURES & BENEFITS

- Up to 30% less backwash flow rate is required...conserving water for the consumer.
- High flow design maximizes today's high efficiency valve technology.
- Permanent attachment of dip tube to distributor, so when servicing a valve, distributor stays in place, no more re-bedding.
- Vortech distributor plate is designed for over 6,500 lbs load capacity.
- Elimination of gravel, save on net cost and unit weight, for shipping.
- Improved system pressure drop characteristics.
- Self-cleaning nozzle design eliminates potential clogging and build-up.
- Available for 9", 10", 12" and 13" tanks; adapters for 1" and 1-1/4" valves.
- Increase in softening capacity, due to improved flow through media.
- No channeling of media, providing a cleaner more efficient system.
- Environmentally friendly, reduction in required backwash times due to improved bed lift and mixing...at lower flow rates.
- Most efficient softening regeneration, reducing salt consumption.

TECHNICAL

Nozzle Slot Size/Opening: 0.010"
(ten-thousandths of an inch)

Vortech™ Open Area: 1.5 to 2.5 times the
open surface area of a standard basket.

NOTE: For medias with a mesh size smaller than the Vortech nozzle opening, a 1" layer of underbedding is recommended. Examples of medias: Fine Mesh Resin, Manganese Greensand, and Filox:

9" – 4 to 5 pounds

10" – 5 to 6 pounds

12" – 7 to 9 pounds

13" – 8 to 10 pounds

ASSEMBLY INSTRUCTIONS

- Measure from the top of the Vortech™ inside the vessel, to the top of the inlet.
- Subtract .25" from the overall measurement and cut riser tube to length.
- Choose the size of adapter plug required... based on the valve size to be used, 1" or 1.25".
- Glue the adapter plug to the riser tube.
- Push the new riser assembly into the Vortech™ center hole...there should be a loud click or snapping noise when seated.
- The riser should be flush with the top of the inlet, and the vessel ready for filling.

BACKWASH COMPARISON — CONE — VORTECH

FILOX - 13" DIAMETER

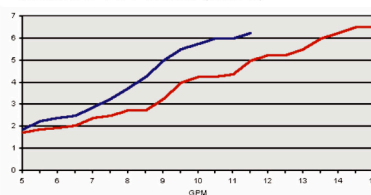
Temperature - 43° F

Quantity of Media - 2.5 cu. ft.

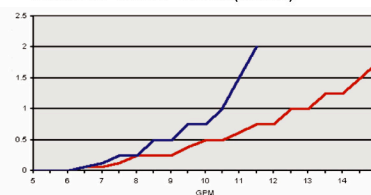
Weight of Underbedding - Cone/45 lbs

Weight of Underbedding - Vortech/10 lbs

MEASURED "LIFT" HEIGHT (INCHES)



MEASURED "ACTION" HEIGHT (INCHES)



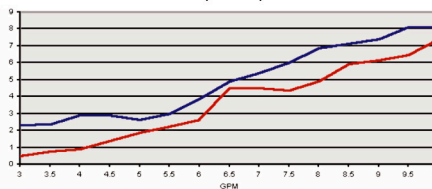
CALCITE - 10" DIAMETER

Temperature - 48° F

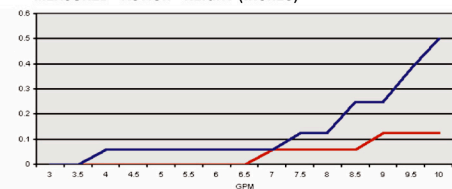
Quantity of Media - 1.0 cu. ft.

Weight of Underbedding - Cone/21 lbs

MEASURED "LIFT" HEIGHT (INCHES)



MEASURED "ACTION" HEIGHT (INCHES)



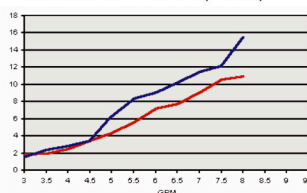
CARBON - 13" DIAMETER

Temperature - 42° F

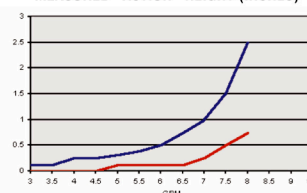
Quantity of Media - 2.5 cu. ft.

Weight of Underbedding - Cone/45 lbs

MEASURED "LIFT" HEIGHT (INCHES)



MEASURED "ACTION" HEIGHT (INCHES)



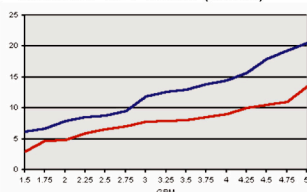
REG. MESH RESIN - 10" DIAMETER

Temperature - 48° F

Quantity of Media - 1.0 cu. ft.

Weight of Underbedding - Cone/14 lbs

MEASURED "LIFT" HEIGHT (INCHES)



MEASURED "ACTION" HEIGHT (INCHES)

