A clean tank is just the beginning. Bradford White’s Hydrojet Total Performance System gives the plumbing trade a strong technological advantage. It applies the laws of physics and augments the power of flowing water to create a new level of top performance. And, it’s standard equipment on all Bradford White top connect residential water heaters.*

The Hydro-dynamic achievement of turbulent action.

The Hydrojet delivery tube, with a series of concentric “jet ports”, creates an incredible amount of turbulent action inside the tank. Water flowing into the tank encounters a series of up to 30 flow altering “jet ports”. Set at precise space intervals, these ports redirect some of the flow outward into the tank to begin the dynamic mixing action. The remainder of the ports direct flow inward to create a counter-rotating action that produces increased turbulence and accelerated mixing inside the tube. The pressure increases and the water is forcefully blown out into the tank. Unlike a conventional dip tube where water exits with a weak diffusing action, water exiting the Hydrojet system is in complete turbulence. This new design is exceptionally efficient, measured to be three to five times better than an ordinary dip tube. Not surprisingly, the Hydrojet system generates the desired turbulent action even with low incoming flow rates.

Bradford White’s Hydrojet Total Performance System.

Because of more efficient mixing, extreme temperature differences throughout the tank (called thermal stratification or stacking) are greatly reduced. Peak water temperatures inside the tank are reduced by as much as 17%. Water heaters with the Hydrojet system don’t have to work as hard or as often to maintain a maximum supply of hot water at the desired temperature. They heat water faster and use less energy to do it.

Not simply a device to boost performance, The Hydrojet System lengthens the operating life of a water heater.

Take sediment for a ride.

When the Hydrojet Total Performance System goes to work, sediment has no place to hide. The turbulent action puts dissolved solids such as lime and other minerals into suspension when water is delivered into the tank. Whenever water is drawn, particles are prevented from settling to the bottom of the tank or building up on interior surfaces. The Hydrojet system cleans the heat transfer surface of harmful deposits every time there’s a call for hot water.

*Not available on utility, tabletop or side connect models.

A Bradford White Residential Gas M-2-40T

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<thead>
<tr>
<th>Gallons</th>
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*Not available on utility, tabletop or side connect models.
Reduces Harmful Sediment.

A common cause of premature tank failure and reduced energy efficiency in all water heaters is sediment build up. The detrimental effects of this universal problem are interference in heat transfer, lower tank capacity, corrosion, early parts failure and an annoying rumbling noise. The result of all this is a water heater that must work harder and consume much more energy. The Hydrojet Sediment Reduction System uses a variation of the original residential Hydrojet system to block the build up of harmful sediment in commercial units.

Two powerful variations of the Hydrojet System.

The Commercial Hydrojet System incorporates up to two stainless steel inlet tubes. One is the traditional top connect version and the other is a new design front connection. Both rely on the patented jetport concept that proved extremely effective in the residential Hydrojet system. In the top connect version, patented jetports built into the inlet tube are used to create turbulence inside the tank. The turbulence helps reduce sediment build-up.

Each jetport forces incoming water out into the tank before it reaches the end or outlet of the tube. Unique jetport positioning generates an increase in turbulence by creating accelerating water current inside the tank.

On front connect models, the jetport is placed on the underside of the tube centered a short distance from the end of the outlet. Water becomes pressurized, fans out and is sprayed with force. This single jetport acts as a flow disrupter increasing turbulence and extending the effective scouring action across the bottom of the tank. Two alignment notches in the water connection end of the tube help the installer ensure that the front connect Hydrojet tube is positioned for maximum performance. Both Hydrojet tubes are installed at the factory free of charge providing flexibility at the time of installation.

The Commercial Hydrojet System is constructed of stainless steel for a lifetime of corrosion-free performance.

With front connect Hydrojet inlet tube only one dynamic jetport is needed to cause the extreme turbulence that is Hydrojet’s claim to fame.
Bradford White’s Defender Safety System® is a new combustion technology that resists the ignition of flammable vapors that can occur outside of the water heater. The unique design provides years of trouble-free service.

Dedicated To The Plumbing Trade.
A water heater line with standard features that include higher standards.

At Bradford White we engineer all our products with the plumbing professional in mind. We’re dedicated to providing you with a steady supply of new products and product innovations. It’s our way of keeping our customers one step ahead of the competition.

The Hydrojet Systems represent one of the many exciting innovations from Bradford White. They’re part of a strong product line designed and developed by people who understand the needs of both wholesalers and contractors. At Bradford White, every product is “engineered for the plumbing trade,” because we believe only a professional should install a water heater.