

Competitive Comparison for HVAC Applications

<i>Griswold SBC</i>	<i>Competitor A</i>	<i>Competitor B</i>
<p>Tower Sentry System™: Available in many combinations including, full flow water treatment only, water treatment with skid mounted filtration unit (TSS-A), or a complete skid mounted side stream water treatment and filtration package (TSS-B).</p>	<p>Water Treatment only: Optional filtration and side stream packages by others.</p>	<p>Water Treatment only: Optional filtration and side stream packages by others.</p>
<p>Certifications: MET Laboratories Certified to UL 508A and CSA 22.2 14-95</p>	<p>Certifications: UL Approval on 1” – 6” PVC for Indoor mounting of Reaction Chamber only for extra charge.</p>	<p>Certifications: UL and cUL Listed</p>
<p>Warranty: Material defects and workmanship 5 years (100% for 24 months – prorated to 60 months per warranty schedule).</p>	<p>Warranty: Material defects and workmanship 1 year. Extended only upon entering into a service contract with representative.</p>	<p>Warranty: Unknown at this time. One year water treatment service contract included as part of the purchase.</p>
<p>Reaction Chamber: Sizes 2” – 24” PVC, CPVC, or Fiberglass. Available with installed flanges or plain end connections.</p>	<p>Coil-Pipe Assembly: Sizes 1” – 16” (no 14”), PVC, Stainless Steel (1” – 3” only). Standard with plain ends, flanges are optional and shipped loose</p>	<p>Purification Chamber: Sizes 3” – 16” PVC. Standard with 150# flanges installed.</p>
<p>Coil Design: Four-signal coil architecture. Three coils are separately energized with high frequency AC while the fourth provides a low frequency, high current DC pulse. Special programming is used to prevent interference or cancellation of signals as well as increase efficiency.</p>	<p>Coil Design: Three coils solenoid wired in series so all coils work as one unit. Two coils are wound to buck each other resulting in signal strength losses and significant heat generation.</p>	<p>Coil Design: Three independent coil sets of two coils each. One resonated AC set and two DC sets that alternate with each other. No provisions are made to keep multiple coil sets from interfering with each other or cancelling signals. Has bucking coils that result in signal strength losses and significant heat generation.</p>

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<p>Output characteristics: Intense Electrical Signal measures >7 kV/meter at 3" from coil. Coil input about 12 volts. Coil output resonance peak voltage typically greater than 800 Volts</p>	<p>Output characteristics: Weak Electrical Signal measures <0.2 kV/meter at 3" from coil. Coil input 11-37 volts depending on size. Coil output resonance peak voltage is approximately 300 Volts.</p>	<p>Output characteristics: Actual signal levels are suspected to be similar to that of the "A".</p>
<p>Power Required: 8" uses <100 VA</p>	<p>Power Required: 8" uses 2,400 VA</p>	<p>Power Required: 8" uses 480 VA</p>
<p>Power Supply: Regulated switching - universal input power supply that can accept a wide range of input voltage, i.e. 100 to 240 VAC, 50 to 60 Hz.</p>	<p>Power Supply: Proprietary switching power supply provides for 120 VAC for 1" - 6" units and 230/208 VAC/1ph for 8" - 16" units (option for 480 VAC/1 ph available).</p>	<p>Power Supply: Provides for 120 VAC, 60 Hz operation on all sizes. 460 VAC, 60 Hz is optional with addition of transformer.</p>
<p>Heat Generation: Very little heat is generated at the controller/driver and induction coil. No ventilation, filter or water flow required.</p>	<p>Heat Generation: Due to inefficiencies built into the unit, substantial heat is generated. This heat results in the need for special ventilation of the control box, including fan and filter. The coil also requires ventilation and water flow to prevent overheating.</p>	<p>Heat Generation: Although no ventilation or filter is required for the Transformer Panel, the coil generates heat and comes equipped with a proprietary cover that provides weather protection. The OD is large (11.5" – 23") to allow for proper cooling.</p>
<p>Tuning: SBC AutoSeek™ is an automatic program that initiates upon applying power. SBC AutoSeek™ tunes the three AC coils to compensate for differences in location and operating conditions.</p>	<p>Tuning: No capability to tune or adjust signal to compensate for interference due to piping near the coil or operating conditions.</p>	<p>Tuning: Pulse frequency of AC coil is adjustable at the factory only. There are no field adjustments possible to compensate for the detuning effects of metal near the Purification Chamber.</p>

<p>Enclosures: Weatherproof NEMA 4 sealed enclosures are standard in powder coated steel or optional Stainless Steel for NEMA-4X rating..</p>	<p>Enclosures: NEMA 3R ventilated Stainless Steel enclosures are standard. <i>Hose washing not advised due to ventilation fan.</i></p>	<p>Enclosures: NEMA 4 powder coated steel enclosure is standard. NEMA 4X is an option.</p>
<p>Maintenance: No internal cleaning required or filters to check and change.</p>	<p>Maintenance: Internal cleaning and change of filter is required due to vented enclosure.</p>	<p>Maintenance: No internal cleaning required or filters to check and change.</p>
<p>Weatherproof Reaction Chamber meets NEMA 4 requirements</p>	<p>Ventilated Coil Assembly Requires Fabricated Weather Shielding</p>	<p>Water Resistant Purification Chamber with two piece blow molded shroud sealed with waterproof tape</p>