

**COMBITHERM®**  
**COMBIOven™**

**COMBIGuard™**

BWS BLENDED WATER SYSTEM

**ITEM FI-28727**



- Virtually eliminates scale & corrosion problems related to high TDS & water hardness.
- Maximizes equipment operating and energy efficiency.
- High capacity pre-filtration protects the membrane against damaging chlorine and reduces filter replacement frequency.
- ScaleX2® protects the membrane and minimizes reject water without the need for a water softener.
- Precision Blending Valve allows the user to accurately and precisely blend a calculated amount of filtered and ScaleX2® treated water with the RO product water.
- Digital before and after TDS meter for push-button monitoring of membrane performance and optimized water quality.
- Built-in pressure gauge allows visual monitoring of operating pressure.
- Adjustable Reject Flow Control Valve allows precise adjustment of Product/Reject Ratio to minimize water waste due to seasonal fluctuations in water temperature.
- ByPass Valve allows the user to quickly and easily switch from Optimized Water to filtered and ScaleX2® treated water bypassing the AMS-QT RO membrane.
- All consumables are easy-to-change Qwik-Twist cartridges.
- Simple, easy-to-service and maintain design.

The CombiGuard BWS-QT is a Blended Water System that utilizes reverse osmosis (RO) to remove >97% of the total dissolved solids (TDS) from water which can be precisely blended with filtered and ScaleX2® treated water to a user determined level. The system operates at line pressure and can produce up to 400 gallons per day of optimal quality water for applications where TDS reduction or the removal of the majority of hardness minerals is required. The BWS-QT is a complete system that includes integrated pre-filtration with particulate and chlorine reduction, ScaleX2® scale inhibitor technology and the Advanced Membrane Separation (AMS) Processor in a space saving, wall-mount design. The system features a filtered-water emergency bypass valve. Also included is a 50 gallon atmospheric storage tank with a top-mounted, variable speed repressurization pump and a sub-micron, hydrophobic air breather. System recovery (Optimized water/Reject water ratio) can be adjusted in the field to maximize system performance and operating efficiency. Hose, tubing and fittings required for installation are included.

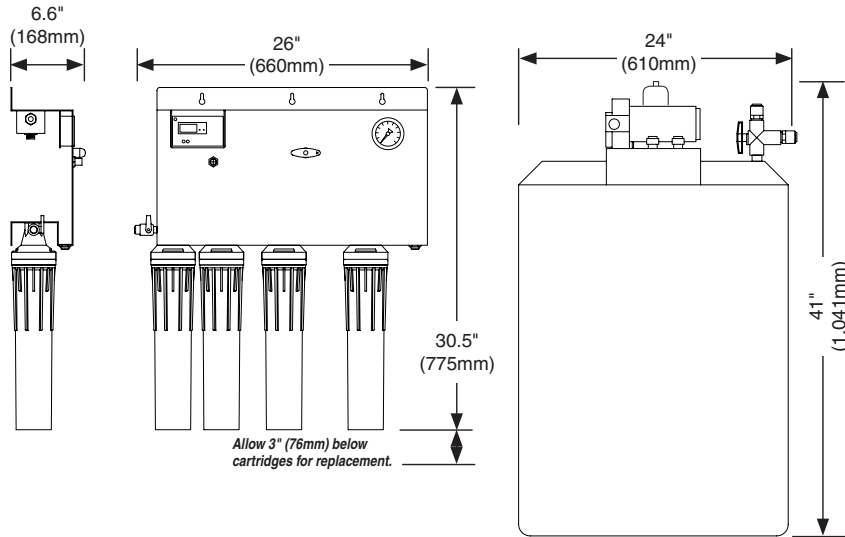
**ALTO-SHAAM®**

W164 N9221 Water Street • P.O. Box 450 • Menomonee Falls, Wisconsin 53052-0450 • U.S.A.  
PHONE: 262.251.3800 800.558.8744 U.S.A./CANADA FAX: 262.251.7067 800.329.8744 U.S.A. ONLY  
WEBSITE: [www.alto-shaam.com](http://www.alto-shaam.com)





**BWS BLENDED WATER SYSTEM  
ITEM FI-28727**



It is recommended that PreFilters be changed every 3-6 months, when capacity is reached or when inlet water pressure or flow becomes inadequate. Change the ScaleX2® cartridge annually. Membrane life varies depending on inlet water conditions and PreFilter maintenance. 12-18 months under typical conditions but it can be as long as 3-5 years.

This product is for commercial use only and must be installed and maintained according to manufacturers guidelines.

Do not use on water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

INSTALLATION REQUIREMENTS				SYSTEM			
<ul style="list-style-type: none"> <li>• Connection to system should be to the cold water inlet only.</li> <li>• Do not exceed system specifications for temperature and pressure.</li> <li>• Provide a dedicated 3/4" water line to the unit to consistent flow and pressure to the system.</li> <li>• Allow 3" (76mm) clearance below system for filter cartridge removal and replacement.</li> <li>• Connect filtered water line to steam production connections only. Do not use for condenser water.</li> <li>• Detailed installation, operation &amp; maintenance manual is included with each system.</li> <li>• Mount the BWS-QT processor where the Water Quality Monitor and ByPass Valve can be easily viewed and accessed.</li> </ul>				Dimensions - Processor Tank (H x W x D)		30.5" x 26" x 6.6" (775mm x 660mm x 168mm)	
				Inlet Water Connection		3/8" Push Fit Tubing	
				Operating Pressure Range		50-85 psi at 1 gpm (3.5 - 5.9 bar)	
				Inlet Water Temperature Range		40° - 100° F (4° - 38° C)	
				Shipping Weight		100 lbs. (45kg)	
				Power Requirements (Within 5' of unit)		Processor RP Pump	120V 15A circuit 120V 15A circuit
				Drain Connection (Within 5' of unit)		2 GPM Minimum Flow	
INLET WATER CHEMISTRY				PERFORMANCE			
Feed TDS	Up to 1200 ppm	Iron	0.1 mg/l max	Typical TDS* Rejection		97+%	
Feed pH	6-10	Turbidity	0.05 NTU	Product Water Production (at 77°F, 60psi)		350 gals (1325L)/ day 14.6 gals (55L)/hr 0.25 gpm	
Hardness*	28 grains or less	Manganese	0.05 mg/l max	Production rate is strictly dependent on feed water temperature and pressure.			
Free Chlorine	<2 mg/l	Hydrogen Sulfide	0.0 mg/l	Blended Water Production		Up to 400 GPD	
				Repressurization Pump (Self-priming)		0.25-2.75gpm at 50 psi	
				ACCESSORIES			
				Replacement Filter cartridge AMS-QT		FI-29316	
				Replacement Filter cartridge SCLX2-Q		FI-29317	
				Replacement PreFilter Filter cartridge CTO-Q		FI-29318	
* For water outside of these parameters call technical service.							



W164 N9221 Water Street • P.O. Box 450 • Menomonee Falls, Wisconsin 53052-0450 • U.S.A.  
 PHONE: 262.251.3800 800.558.8744 U.S.A./CANADA FAX: 262.251.7067 800.329.8744 U.S.A. ONLY  
 WEBSITE: www.alto-shaam.com

