

COMBITHERM®
COMBIOven

COMBIguard™ 10
COMBIguard™ 20

TRIPLE-GUARD WATER FILTRATION SYSTEM

Improved water quality at a lower cost will add years to the life of your combi oven.

PROTECTS AGAINST

- Formation of scale buildup
- Corrosion of metal surfaces

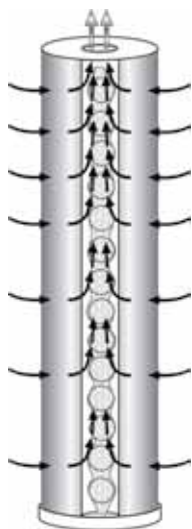
PROVIDES

- Improved equipment efficiency
- Reduced service requirements
- Extended equipment life
- Scale formation that builds up and adheres to surfaces is a hard, rock-like layer of dissolved minerals precipitated by heating water. Built-up scale reduces energy efficiency and will build to a point of creating downtime and expensive service calls.
- The CombiGuard System effectively binds dissolved minerals to inhibit the formation of scale.
- Particulate matter found in water also contributes to scale formation and restricts the flow through plumbing that leads to blockage.
- The CombiGuard System filters dirt, sediment, and other debris as small as 1/2 micron.
- Chlorine compounds become corrosive in water vapor resulting in the corrosion of heating elements and boilers which causes pitting on metal surfaces.
- The CombiGuard System will significantly reduce chlorine content (not chlorides) to help protect against corrosion.



CombiGuard 10
FI-23014

CombiGuard 20
FI-28728



Each filter cartridge contains Siliphos® , which is isolated and evenly distributed through the core of the filter for maximum contact time and consistent dosing between filter changes. This scale and corrosion inhibiting technology provides a perfect balance of media which effectively reduces the precipitation and accumulation of damaging scale and guards against corrosion in steam generating equipment.

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



COMBIguard™ 10
COMBIguard™ 20

TRIPLE-GUARD WATER FILTRATION SYSTEM

INSTALLATION REQUIREMENTS	CombiGuard 10	CombiGuard 20
Maximum Pressure	125 psi (8.6 bar)	125 psi (8.6 bar)
Inlet/Outlet Connections	3/4" NPT	3/4" NPT
Maximum Temperature	100°F (38°C)	100°F (38°C)
Minimum Temperature	35°F (2°C)	35°F (2°C)
Service Flow Rate	1.5 gpm (6 lpm)	3 gpm (11,3 lpm)
Gallon Rating	15,000 gal (56,775 ltrs)	30,000 gal (113,400 ltrs)
CLEARANCE REQUIREMENTS:		
Allow a minimum of 3" (76mm) under the housing to provide sufficient clearance for filter replacement.		
The CombiGuard system must not be mounted near any source of heat nor in any area or above any device that would be adversely affected by water.		
DIMENSIONS: H x W x D		
CombiGuard 10	15" x 7-5/16" x 5-17/32" (381 x 186 x 141mm)	
CombiGuard 20	24-1/2" x 6-9/16" x 5-1/8" (622 x 167 x 130mm)	
WEIGHT:		
CombiGuard 10	10 lb	(4,5 kg)
CombiGuard 20	10 lb	(4,5 kg)
OPTIONS & ACCESSORIES:		
<input type="checkbox"/>	Filter Cartridge Replacement, CG10	FI-26356
<input type="checkbox"/>	Filter Cartridge Replacement, CG20	FI-28744

The CombiGuard Water Filtration System will perform as indicated. However, it will not correct water conditions in all areas. Further water testing and treatment including the use of CombiGuard BWS-QT membrane separation may be required.

*The water supply must be tested prior to installation to make certain it meets the published water requirements.

<i>Unit Combinations</i>	<i>CombiGuard 10</i>	<i>CombiGuard 20</i>	<i>CombiGuard BWS-QT</i>
STACKED UNITS			
GAS UNITS			
6.10ESG/6.10ESG		X	*
6.10ESG/10.10ESG		X	*
6.10ESG/7.14ESG		X	*
7.14ESG/7.14ESG		X	*
ELECTRIC UNITS			
6.10ES,ESI/6.10ES,ESI		X	*
6.10ES,ESI/10.10ES,ESI		X	*
6.10ES,ESI/7.14ES,ESI		X	*
6.10ES,ESI/10.18ES,ESI		X	*
7.14ES,ESI/7.14ES,ESI		X	*
ELECTRIC NARROW UNITS			
6.10ESIN/6.10ESIN		X	*
6.10ESIN/10.10ESIN		X	*
6.10ESIN/7.14ES,ESI		X	*
6.10ESIN/10.18ES,ESI		X	*
SINGLE UNITS			
GAS UNITS			
6.10ESG	X		*
10.10ESG	X		*
7.14ESG	X		*
10.20ESG		X	*
12.18ESG		X	*
20.20ESG		X	*
ELECTRIC UNITS			
6.10ES,ESI,ESIN	X		*
10.10ES,ESI,ESIN	X		*
7.14ES,ESI	X		*
10.18ES,ESI	X		*
12.20ES,ESI		X	*
20.20ES,ESI		X	*



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