



16400 SwashTM Steam Generator



APPLICATION

The Swash Steam Generator was developed by ARS/Pressure Washer Company (ARS/PWC). It is manufactured exclusively for ARS/PWC by Electro-Steam Generator Corporation specifically for the food and beverage industry. It is designed to deliver dry, saturated steam at pressures ranging from 10psi to 85psi, with two selectable "high" and "low" pressure settings by electrical switches. The Swash Steam Generator is ideal for wineries, breweries, bakeries, and other food and beverage facilities. It is useful for cleaning, sanitizing, sterilizing, heating and humidifying equipment, facility walls and floors. Typical applications include bottling line sterilization, tank cleaning and sanitizing, barrel cleaning, hydrating and sanitizing, baking oven and proofer humidification or heating, steam kettle and jacketed tank heating, boosting hot water temperature, and surface contact sterilization with atmospheric steam.

PRINCIPLES OF OPERATION

Dry, saturated steam, generated by an electric steam generator, contains no boiler additives and provides a clean and effective way of delivering heat to surfaces it contacts. In contrast to hot water which gives up its heat by absorption (an inherently slow process), steam delivers heat through the very rapid process of condensation. With sufficient time and temperature, and the moisture derived from the condensation process, heat destroys the proteins which form the cells of the microbes and can result in sterilization of the surfaces in contact with the steam or, in the case of porous materials, the material itself.

The heat required to cause a volume of water to be converted into steam at the same temperature is called *the latent heat of vaporization*. When steam comes in contact with surfaces of a lesser temperature, it virtually instantly condenses and all the latent heat is absorbed into the material it touches. As a result, a surface can be heated far more efficiently with 212° steam than with 212° water. The pressurized chamber of an electric steam generator efficiently produces steam and delivers significantly greater amounts of heat than can be achieved with hot water heaters in far less time and with significantly less water consumption.

SWASH STEAM GENERATOR — FEATURES AND BENEFITS

- **Dry, saturated steam in 10 to 15 minutes delivers heat with 98% efficiency** — no loss of energy up the flue as with fossil fuel boilers.
- **All electric with no open flame, no fumes, no combustible fuel and no fuel storage** — resulting in safe operation and lower insurance rates than with fuel fired boilers.
- **Fully portable with pneumatic wheels** — gets the steam where you need it without long, hot steam lines which lose heat energy and reduce efficiency.
- **No boiler chemicals required** — with use of tap water, unit generates steam with very low mineral content and qualifies as culinary grade steam as opposed to plant steam from a fuel fired boiler.
- **Two convenient, user-selectable pressure settings** — for high and low pressure applications at the flick of a switch. A panel-mounted pressure gauge displays operating pressure.
- **Enclosed in a 304 stainless steel cabinet** — keeps nearly all piping safely out of reach. The cabinet is attractive and easy to clean.
- **Low water cut-off** — prevents damage to the unit in the event of loss of water supply.
- **Feedwater pump and motor on all units** — overcomes the internal pressure for high pressure applications.
- **Construction complies with ASME (American Society of Mechanical Engineers) Boiler and Pressure Vessel Code, Section 1, Part PMB, for safety assurance** — a National Board number is stamped on each pressure vessel documenting the individual inspection of each unit by an authorized insurance company Boiler Inspector.

- **Available in 5kw to 30kw sizes in 5kw increments** — units are specified for 208v, 230v-240v or 460v - 480v, three phase power. Single phase available on request.
- **Sanitary steam outlet port with ball valve** — for easy hook up to equipment and accessories.
- **Optional steam wand with trigger gun** — with lance and vent guard for general purpose steam cleaning.
- **Optional NSF/FDA steam hose** — rated at 100psi and 300°F with sanitary fittings pre-attached with special steam boss clamps; available in 10ft. increments from 10ft. to 40ft.
- **Optional Bordeaux Style Wine Barrel Steam Wand** — ideal for sanitizing, cleaning and hydrating oak barrels.

SWASH STEAM GENERATOR SPECIFICATIONS

Dimensions (approx.)

Size: 23"W x 34"L x 31"H

Weight: 225 lbs.

Swash Steam Generator Models

Model 16405, 5kw (220v, 1Ø only)

Model 16410, 10kw

Model 16415, 15kw

Model 16420, 20kw

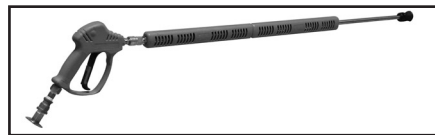
Model 16425, 25kw

Model 16430, 30kw

Accessories

Model 16491 — Trigger gun — 3/8" FPT inlet x 1/4" BSP outlet

Model 16492 — General Purpose Steam Wand — 48"L with lance guard and quick disconnect. Requires Swash Trigger Gun. Includes Model 16491 Trigger Gun.



Accessories (cont.)

Model 16495 — Insulated Gloves

Model 16251 — Bordeaux Style Wine Barrel Steam Wand — 30" L x 1" Dia with 2" bunghole adapter



FDA/NSF Hose w/sanitary fittings assembled at each end — includes triclamps and gaskets. Recommended length one to two times the kw rating.

Model 61110, 10ft.

Model 61120, 20ft.

Model 61130, 30ft.

Model 61140, 40ft.



ABOUT ARS/PRESSURE WASHER COMPANY

ARS/Pressure Washer Company (ARS/PWC) is an operating division of ARS Enterprises. ARS was established in 1971 to provide sterilizing and washing equipment and field maintenance and repair services to food and beverage firms, hospitals, laboratories and pharmaceutical or medical device manufacturers. Our equipment and service have earned us an outstanding reputation among our customers who have come to rely on ARS.

Our philosophy is to provide dependable equipment incorporating high quality components. The ARS team is dedicated to the highest standards of workmanship. Our pride rests on your satisfaction with the products and service we provide. We believe that with ARS you can achieve many years of reliable performance and an overall low cost of ownership.

ARS/PWC provides one-stop shopping for parts and accessories for virtually all brands of pressure washers and steam cleaners. Field service is available throughout California.

For more information on ARS/PWC products or service, or for the name of the ARS representative in your area, please call us at 800-RELY-ARS (800-735-9277) or visit us at our website:

www.cleanwinery.com

We work well under pressure.

