

SR-SERIES

VAPOR COMPRESSION DISTILLERS

Aqua-Chem's vapor compression distillation watermakers provide reliable, proven solutions for offshore distillation of seawater, killing bacteria and removing suspended solids, dissolved minerals, and organic contaminants. These units are designed to operate in the challenging conditions encountered in offshore operations and are backed by decades of successful operating history.

DESIGN FEATURES

EVAPORATOR

Our evaporator features a horizontal shell and tube design that uses our patented Spray-Film® process.

HEAT SOURCE

The vapor compression process uses its own compressed steam as its primary heat source, resulting in vastly improved efficiency.

MATERIALS OF CONSTRUCTION

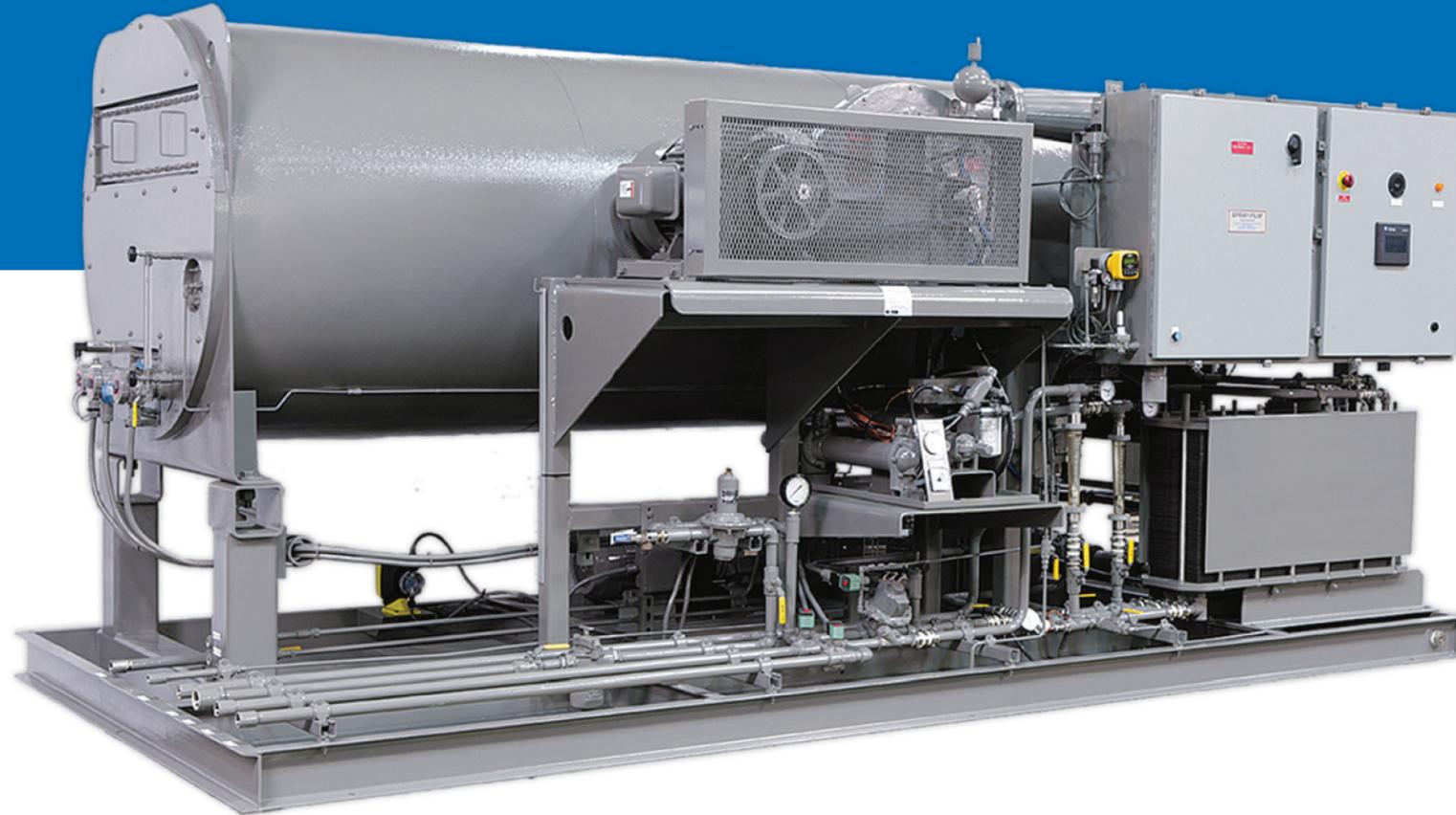
We use corrosion-resistant titanium and copper-nickel tubes, titanium compression impellers and heat exchangers, plus copper-nickel evaporator shells. These reliable and durable materials with proven performance after more than four decades of offshore use.

AUTOMATION

Watermakers are designed to operate automatically with a pushbutton start. A programmable logic controller (PLC) and human machine interface (HMI) are standard.

INSULATION

The evaporator is insulated with fiberglass and covered with aluminum cladding.



BENEFITS

From the North Sea to Southeast Asia, you can count on crystal-clear water at the rated capacity and be confident that performance, capacity, and water quality are not affected by feedwater characteristics.

Custom engineering is available to meet international electrical codes, rig specifications, and unique operating conditions.

Aqua-Chem's patented Spray-Film evaporator design provides improved wetting of the tube bundle, which minimizes scaling. This means less downtime for cleaning and less chemical use.

The Spray-Film design also includes built-in, on-line cleaning for removing any scale, reducing maintenance costs and increasing operating life.

The most reliable steam compressor design incorporates a unique journal bearing with thin film tech for long-lasting performance, which is superior to ball bearings.

The simple layout improves safety and ease of maintenance to extend operating life. All major components are accessible from floor level with the compressor and pumps located at the edge of the skid for easy serviceability.

We provide easy, low-cost installation with only five piling connections and one electrical connection.

All Aqua-Chem systems are factory tested to ensure trouble-free startup.

System efficiency is 0.05-0.07 kW per gallon of purified water produced.

EQUIPMENT CHARACTERISTICS

MODEL	SR200	SR300	SR400	SR600	SR700
Capacity (GPH & TONS/day)	200 (18.2)	300 (27.2)	400 (36.3)	600 (54.5)	700 (63.6)
L x W x H (feet/meters)	11.5 x 6.0 x 6.0 3.5 x 1.8 x 1.8	11.5 x 6.0 x 6.0 3.5 x 1.8 x 1.8	12.0 x 7.1 x 7.1 3.7 x 2.2 x 2.2	15.8 x 7.1 x 7.1 4.8 x 2.2 x 2.2	15.8 x 7.1 x 7.1 4.8 x 2.2 x 2.2
Weight (lbs/kg)	5,300 (2,400)	5,400 (2,450)	8,200 (3,720)	10,400 (4,720)	10,700 (4,720)

