

# Soot-A-Matic® Firetube Boiler Cleaner

## SAM-3

A cornerstone of Goodway, the Soot-A-Matic was first introduced over 30 years ago. Now in its **third generation** as the SAM-3, it is the world's most popular system for cleaning firetube boilers. The unit is compact, portable and easy to use. One operator can thoroughly clean a boiler in a fraction of the time required by other cleaning methods – all by flipping a switch. Interchangeable bayonet nozzles and cleaning tools are available to fit tubes 1 3/8"-4" (35-102mm) O.D.

### How It Works

The SAM-3 uses a cleaning tool mounted to the tip of a 26' (7.9m) spring steel tape. A trigger switch controls tape feed. The operator inserts the nozzle into the boiler tube and pushes the trigger forward. The cleaning tool travels the full distance of the tube at more than 3' (0.9m) per second, loosening soot and scale. The operator pulls the trigger back for cleaning tool return and moves to the next tube. A GTC-540 Soot-Vac™ vacuum, connected to the tube through the SAM-3, simultaneously removes loosened deposits.

### Saves Money

No matter what type of fuel is used (gas, oil, coal or wood), soot will quickly accumulate in boiler firetubes. As much as 1/8" (3.2mm) of soot can build up in only two weeks. This buildup reduces boiler efficiency and wastes heating dollars.

Soot actually has five times the insulating value of asbestos. The heat transfer loss in a dirty boiler rises tremendously as the layer of soot builds up.

Boiler efficiency can be monitored through stack temperature readings. For every 40°F (22°C) rise in stack temperature, fuel consumption increases by 1%. An increase in stack temperature is an indication of dirty tubes and a signal to clean the boiler tubes with a SAM-3.

### Features – Benefits

**Simple to operate – minimal training required**

**Spring steel tape – long life**

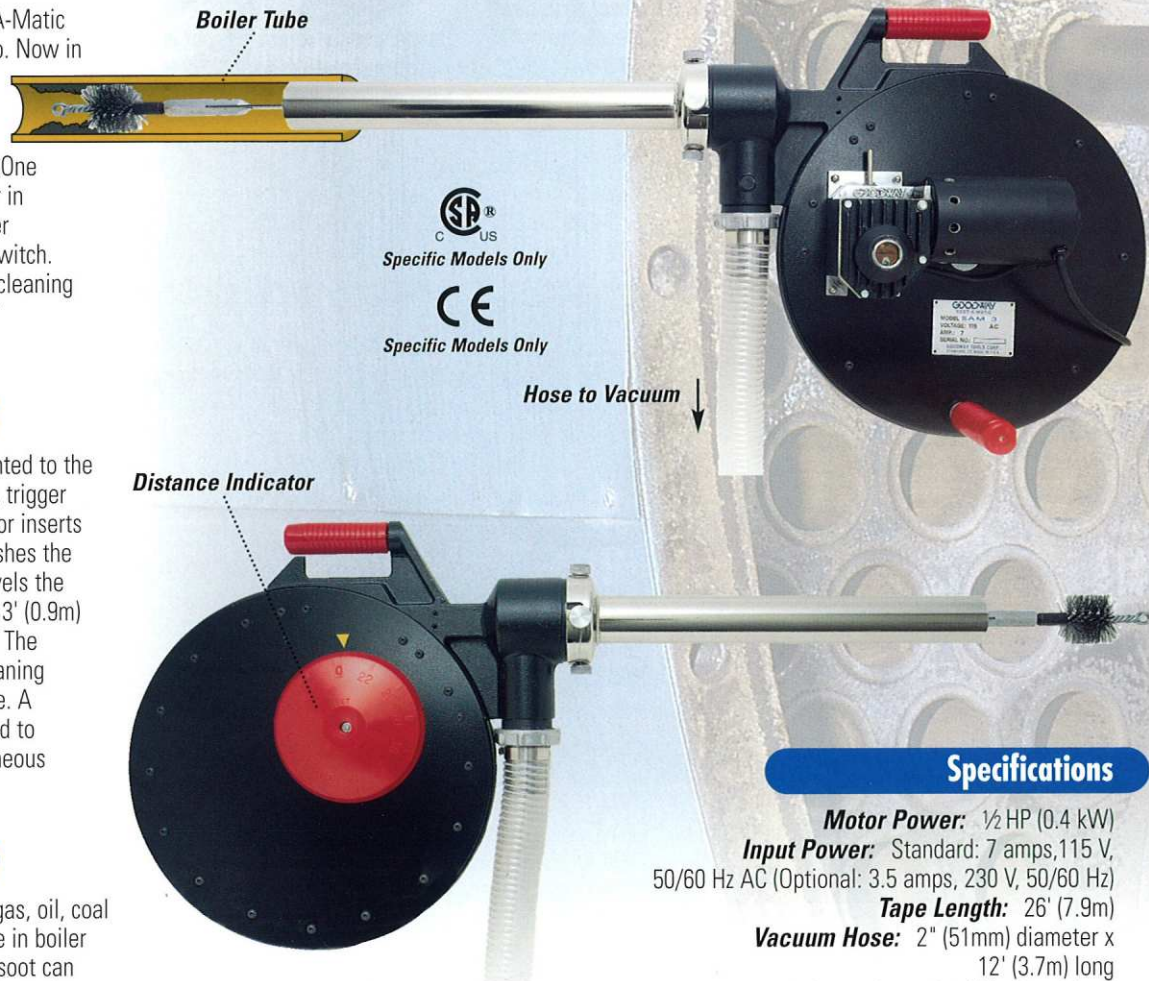
**Interchangeable cleaning tools – versatile**

**Carrying handle and stand – easy transport and storage**

**Simultaneous vacuum – removes deposits**

**Trigger switch and brush travel indicator – better brush control**

**Ideal for Removing Soot and Light Scale**



Note: All motors on Soot-A-Matic Punching Machines will operate on 50 Hz or 60 Hz – universal motors.

### Specifications

**Motor Power:** 1/2 HP (0.4 kW)

**Input Power:** Standard: 7 amps, 115 V, 50/60 Hz AC (Optional: 3.5 amps, 230 V, 50/60 Hz)

**Tape Length:** 26' (7.9m)

**Vacuum Hose:** 2" (51mm) diameter x 12' (3.7m) long

**Dimensions:** 21 1/2" (550mm) long (without nozzle)

**Weight:** 38 lbs (17 kg)

**Optional Carrying Case:** 24" (610mm) high x 28" (710mm) wide x 9" (230mm) deep

### FIELD REPORT

*"We rely on fast, dependable, Goodway Soot-A-Matic systems to remove soot and scale from all the boilers in our 15 buildings.*

*The results have always been excellent, giving us high operating efficiency and lowest possible fuel costs.*

*The SAM systems let us work smart and save us money; that's a winning combination for any maintenance program."*

Dick Herideen  
Director of Buildings and Grounds  
Framingham, Massachusetts

