TARM 5

Central Heat from Wood, Coal, Gas, Oil, or Electricity

This primary air flow is controlled

precisely by the SAMSON draft regu-

The TARM 500 Series boilers are heating systems designed to meet the challenge of your future energy needs.

As the political and economic climates of the world change, so do fuel supplies and prices. Today, gas is replacing fuel oil in many parts of the country; in others, wood, coal and solar power are replacing both oil and gas.

If you're buying a heating system for your new home or wish to replace your present system, can you afford one that commits you to burning just one fuel? A fuel that may be too expensive or completely unavailable in just a few years?

The TARM 500 boilers can burn any conventional fuel-wood, coal, gas, oil or electricity—and can serve as an integral part of a solar heating system as well. Buying a TARM 500 is like getting an insurance policy for your home. Because, regardless of changes in the price or supply of any fuel, you are protected. You'll stay warm.

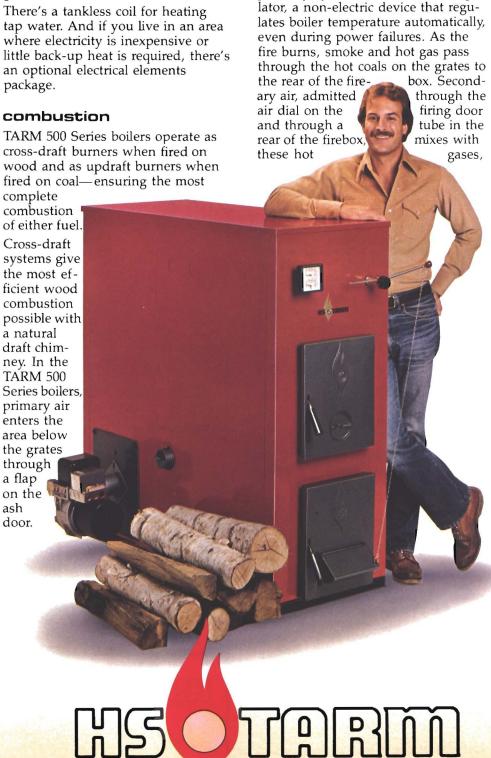
TARM 500 boilers are compatible with all hot-water heating systems. When fired on wood or coal, your TARM 500 will heat your whole house and all the tap water you need. When you're away or if you forget to add fuel to the fire, your TARM 500 will automatically switch to oil, gas or electric operation to keep your home warm.

Sixty years of design and production know-how go into every TARM 500 boiler. They're built to last. And built so they're easy for you to operate and maintain. With features like a large, solid-fuel firebox with no obstructions to get in your way. Durable cast-iron doors and grates. A heavily insulated jacket, finished in a brilliant orange-red enamel. And, for maximum efficiency when you're not using coal or wood, a completely separate firebox and

heat exchanger for burning oil or gas.

There's a tankless coil for heating tap water. And if you live in an area where electricity is inexpensive or little back-up heat is required, there's an optional electrical elements package.

combustion



encouraging further burning and minimizing creosote formation.

The vertical firetube heat exchanger extracts the maximum amount of heat from these gases before they are vented up the chimney. Less heat up the chimney means more heat in your home—where you want it.

Even when burning conventional fuels, TARM 500 boilers outperform many modern, conventional boilers. Oil or gas is burned in a completely separate firebox and heat exchanger so that no deposits from the wood or coal fire can compromise combustion efficiency.

construction

For durability, all TARM 500 Series boilers are constructed of \(^{1}\sqrt{a}''\) steel plate. The doors and grates are cast and machined from the finest gray iron.

For maximum flexibility of installation, the flue outlet may be mounted either on the right side of the boiler or at the rear. If desired or if required by law, the oil/gas fire may be vented separately from the solid-fuel fire.

For ease of maintenance, both firetube heat exchangers, accessible when the cleanout cover is removed, may be cleaned quickly and easily with the round flue brush supplied with the boiler.

Note: TARM 500 Series boilers are available constructed in accordance with the ASME Boiler and Pressure Vessel Code and National Board-registered.

controls and accessories

Each TARM 500 Series boiler is shipped with the following:

- cast-iron doors and shaker grates
- copper tankless coil for heating domestic water
- Automatic Draft Regulator
- High Limit Aquastat (overheat control)
- ASME Boiler Pressure Relief Valve
- ASME Coil Pressure Relief Valve
- cleaning tools
- oil or gas burner

The following accessories may be ordered with the boiler or ordered separately for installation at a later date:

- cast-iron baffle plate for burning anthracite coal
- electrical elements package (for adding electrical back-up heat to the TARM 500)

20-year limited warranty

All HS TARM boilers carry a 20-year limited warranty, a copy of which is provided with the boiler and is available from your HS TARM Dealer or from TARM USA, INC.

ALL TARM 500 Series boilers are ETLM-approved. All specifications are subject to change without notice. The responsibility for determining compliance with local and state codes is the obligation of the dealer. Note: Adequate chimney draft is required for proper operation of all wood-fired boilers. Please observe

minimum chimney requirements in the table above.

specifications			
		TARM 502	TARM 504
Maximum Gross Output-Wood	Btu/hr	110,000	150,000
Burn Time	hr	5	6
Minimum Gross Output-Wood	Btu/hr	25,000	37,000
Burn Time	hr	14	16
Maximum Gross Output-Coal*	Btu/hr	120,000	168,000
Burn Time	hr	12	12
Minimum Gross Output-Coal* Burn Time	Btu/hr hr	30,000 24+	42,000 24+
	Btu/hr		184,000
Maximum Gross Output-Fuel Oil		160,000	
Maximum Combined Output	Btu/hr	280,000	352,000
Maximum Output with Six	Btu/hr KW	102,000	102,000
Electrical Elements	GPM	36 2.2	36
Domestic Hot Water Output — Wood	GPM	2.2	3.0
Boiler Body Width	in	211/4	241/2
Depth	in	471/4	60
Height	in	481/2	481/2
Firebox			
Length	in	183/4	271/4
Width	in	131/4	161/4
Height	in	271/2	27½ 7
Volume	cu ft	4	
Height to Center of Flue	in	43	43
Tapping(s) for:	in	11/2	11/2
1 Return 2 Supply	in	1 1/2	11/2
3 Fusible Plug	in	3/4	3/4
4 Aquastats	in	3/4	3/4
5 Trídicator	in	1/2	1/2
10 Drain and Fill	in	1	11/2
11 Flue Outlet 14 Tankless Coil	in	6 3/4	8 3/4
14 Tankless Coil 15 Tankless Coil	in in	3/4	3/4
16 Pressure Relief Valve	in	3/4 3/4	3/4
20 Draft Regulator	in	3/4	3/4
22 Electrical Elements	in	1	1
24 Preheated Secondary			
Air Control 26 Preheated Secondary	-		
Air Manifold		_	
27 Air Vent	in	3/4	3/4
Water Volume	gal	49	76
Weight of Boiler Body	lbs	1,167	1,870
Weight of Jacket	lbs	99	121
Pressure Test	psi	60	60
Minimum Flue Size	in	8 x 8	8 x 12
			20
Minimum Chimney Height	ft	20	
Minimum Draft Required	in/WG	.05	.05

