FARM 2000 BOILER SELECTION GUIDE FOR DOMESTIC HEATING

Typical average stoking frequencies per 24 hours over 6 winter months for domestic heating, controlled with thermostat & timer (e.g. 5°C night set-back)

MAX. HEAT DEMAND at -1°C (including domestic hot water)		DRY SEASONED WOOD			DRY STRAW (17% moisture content/low density/weathered)		
kW	BTU/hr	1/DAY	2/DAY	3/DAY	1/DAY	2/DAY	3/DAY
20	70,000	HT46	HT36	HT26	HT70	HT50	HT50
35	120,000	HT50	HT46	HT36	HT70/80/BB144	HT60/70	HT60
45	155,000	HT60	HT50	HT46	HT80/BB146/BB154	HT70	HT60
55	185,000	HT60	HT50	HT46	BB146/BB154	HT80/BB144	HT60
70	240,000	HT70	HT60	HT50	BB244/254	HT80/BB154	HT70
80	270,000	HT70	HT60	HT50	BB254/254H	HT80/BB154	HT70/80
105	365,000	HT80	HT60/HT70	HT60	BB254H	BB154/244	HT80
135	460,000	BB146	HT70	HT60	2 x BB244	BB244	BB154
160	540,000	2 x HT70 or BB154	HT80	HT70	2 x BB254H	BB254H	BB154
195	665,000	2 x HT80	HT80 BB146	HT80	2 x BB254H	BB254H	BB254

The above stoking frequencies are for general guidance only and are based on using dry seasoned logs and dry straw as described in our technical literature. They are not guaranteed, and are subject to variation due to differing fuel sizes, densities and moisture content. If both straw and wood is to be used then a boiler size mid-way between the two alternatives (straw 'v' wood) can be selected.

Although under test conditions heat output averaged 3.2 kWhs/kg, we recommend you base your fuel consumption on average 2.75 kWhs/kg. This means in effect that 1 litre of oil can be replaced with approx. 2.4 - 2.75 kg of straw or wood.

Generally if aiming to only stoke ONCE or TWICE per day, then a large accumulator must be used. Note: 1000 gallons/4500 litres of water stores approximately 135 kWhs (600,000 Btu's) heat output; 2000 gallons/9000 litres stores 270kWhs e.g. 9 hours at 30kW output.

We recommend a heating engineer is used to calculate max heat demand of property in kW, or average winter daily energy consumption in kWhs/24 hours