

THE

Electric

PRESSURE STORAGE



WATER SYSTEM

Water under pressure at the turn of a tap



It's Self-contained!



This is a compact self-contained unit occupying little floor space. It will provide adequate water under pressure at a turn of the tap for home and farm requirements. Operating costs are extremely low. The system delivers 880 gallons of water for one unit of electricity. Pressure Storage Systems incorporate an improved model pump which has given good service for many years. Model No. SW1, which is illustrated here, is suitable for wells 23 feet or less in depth. It will deliver 220 gallons of water per hour under pressure and will, therefore, meet the requirements of most farms.

FULLY AUTOMATIC : The automatic feature of the System, so essential for a good water supply, is governed by the pressure control switch, which is operated by tank pressures ranging from 21 lbs. per sq. inch to 42 lbs. per sq. inch. When the system has been installed and the electricity switched on, the pump starts its delivery of water from the well to the pressure tank. It will continue running until pressure in the tank reaches 41 lbs. per sq. inch, at which point the pressure-switch automatically shuts off the power and the pump stops. When water is drawn from the pressure tank, the pressure drops. When it falls to 21 lbs., the switch operates and the pump starts again. It will remain in operation until draw-off ceases and will then continue until it builds up the tank pressure to 42 lbs. again when it stops. This cycle of operations is repeated each time water is drawn-off in sufficient quantities to reduce the tank pressure to 21 lbs. Water is thus available under pressure at a turn of the tap.

GOOD PRESSURE : Excellent pressure is assured at all points, even at the top of a two-storey house, when the unit is installed in the yard. The pressure tank is tapped to take a $\frac{3}{4}$ " delivery line and this may be reduced to $\frac{1}{2}$ " inside the premises. It is not essential to install the pump in the yard to ensure good pressure. For example, the pump may be installed 100 yards away from the furthest outlet, even though this may be 24 feet higher than the system if 1" piping is used for the delivery line instead of $\frac{3}{4}$ ". The larger pipe is necessary in the case to overcome the greater resistance which the water is subjected to in a

long delivery line and which would reduce the pressure available at the outlet. If the point at which you require water is higher than Model No. SW1 is designed for, or if it is some considerable distance from where the unit is to be placed, our Pump Advisory Service will be pleased to advise you regarding an alternative.

SIMPLE AND EASY TO INSTALL : The System is delivered free to your yard as a completely assembled unit. Only the suction and delivery lines have to be connected and electricity supply brought to the switch. You can rely on a suction lift of 23 feet at all times. That is the vertical distance between the centre of the pump and the foot valve which should be placed about 1 ft. or $1\frac{1}{2}$ ft. from the bottom of the well. The pump should be installed not more than 20 ft. away from the well if it is 23 ft. deep. On the other hand, the pump may be offset up to 300 ft. if the lift is only 5 ft.

The table indicates the distances the pump may be offset when installed with various lifts.

LIFT	PERMITTED OFFSET
5 ft.	300 ft.
10 "	225 "
15 "	150 "
20 "	75 "

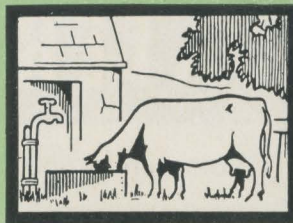
The pump is tapped to take a suction line of 1" Gun Barrel Tubing. If the system is to be installed more than 50 ft. from the well, this should be increased to $1\frac{1}{4}$ ". A Brass Footvalve and strainer is provided with each system.

TROUBLE FREE SERVICE : The pump is quiet in operation, all parts being precision ground. It requires only the minimum of attention, and will give years of service. All parts of the drive run in an oil bath, completely protected from dust. The pump cylinder has a copper liner, which remains resistant to oxidation even in chemically reactive water and the piston rod is stainless steel, ground and polished. The valves are of brass and are loaded with bronze springs.

IN THE KITCHEN



IN THE FARMYARD



LESS WORK



FREE GRANT



The ELECTRIC

Pressure Storage Water System

MODEL No. S.W. 1

The Pressure Storage Water System, Model No. SW1, is supplied completely assembled with the following components :

Double Acting Reciprocating Pump with built-in safety valve.

$\frac{1}{2}$ H.P. Single-Phase Motor, 220 Volts A.C.

22 Gallon Galvanised pressure tank.

Automatic Air Volume Control.

Automatic Pressure Switch.

Pressure Gauge.

$\frac{3}{4}$ " Brass Foot Valve with strainer.

Set of operating instructions.

GUARANTEE : Every System is subjected to exhaustive tests before it leaves the Works and its performance as described above is guaranteed. Its rugged strength combined with its precision-built construction ensures a long life of dependable pumping.

CHARACTERISTICS

Model No. SW1 Pressure Storage Water System

Suction Lift : 23 ft. head water.

Capacity : 220 Gallons per hour.

Delivery Head : 48 ft.

Pressure Switch setting 21-42 lbs./sq. inch.

(48-96 ft. head water.)

Price : £35 10s. 0d. delivery free.

Subject to confirmation at time of order

H.P. Terms available.

You may place your order for this Pumping System at any
E.S.B. Showrooms or Sales Van.

Issued by the

RURAL ELECTRIFICATION OFFICE

ELECTRICITY SUPPLY BOARD

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