



# INSTALLATION AND USER GUIDE

## ADVANCE BUFFER STORE



## ADVANCE APPLIANCES LTD

**HOUSEHOLDER - PLEASE RETAIN AND ENSURE  
SERVICE RECORDS ARE KEPT UP TO DATE**

## STAINLESS STEEL CYLINDER STORES

All Advance stainless steel buffer stores have four tappings, two to take the energy from the heat pump or other low input device and two to connect the store to the heating circuit. The top and bottom tappings represent flow and return to each circuit. It should be noted that not all heat pumps are connected in this way and that reference should always be made to the manufacturer's instructions.

There is one pocket for a temperature sensing device and a 1/2" female boss drain point. In addition there is a top threaded boss 3/4" for venting. An air bleed valve, vent or expansion vessel can be fitted at this point.

One 3kW immersion heater is fitted.

**NOTE CAREFULLY - INHIBITOR MUST BE ADDED TAKING INTO ACCOUNT THE VOLUME OF THE HEATING CIRCUIT AND THE BUFFER STORE.**

**EXPANSION OF THE FULL CIRCUIT MUST ALSO BE TAKEN INTO ACCOUNT WHEN CALCULATING EXPANSION VESSEL SIZES.**

**IN SEALED SYSTEMS A 3BAR RELIEF VALVE AND OVERHEAT PROTECTION MUST BE FITTED IN OPEN CIRCUIT.**

The stores can work up to 3 bar pressure and 95°C.

Cylinder buffers stores should be fitted vertically. Maintenance is not necessary normally, however periodic checks on inhibitor levels and expansion vessel pressure are recommended.

Note - fit to ensure access for future maintenance and always follow best practice.

## **100 LITRE AND 20 LITRE MILD STEEL BUFFERS**

The 100 litre and 20 litre buffers are made from mild steel so it is particularly important to heed the advice below regarding inhibitor levels. On the 100 litre buffer the four 28mm tappings are for flow and return to the heat pump and central heating circuit respectively. It should be noted that not all heat pumps are connected in this way and that reference should always be made to the manufacturer's instructions. The 1/2" female connection at the bottom of the store is a drain point, the 1/2" female connection higher up is for a thermostat with pocket to sense temperature. A manual air bleed valve is fitted. Please use a radiator key to purge air.

One 3kW immersion element is fitted behind the front panel.

The 20 litre buffer is for adding volume only and does not have an immersion heater or pocket fitted. Two 28mm compression connections, top and bottom are fitted.

**NOTE CAREFULLY - INHIBITOR MUST BE ADDED TAKING INTO ACCOUNT THE VOLUME OF THE HEATING CIRCUIT AND THE BUFFER STORE.**

**EXPANSION OF THE FULL CIRCUIT MUST ALSO BE TAKEN INTO ACCOUNT WHEN CALCULATING EXPANSION VESSEL SIZES.**

**IN SEALED SYSTEMS A 3BAR RELIEF VALVE AND OVERHEAT PROTECTION MUST BE FITTED IN OPEN CIRCUIT.**

The stores can work up to 2.5 bar pressure and 85°C.

Maintenance is not necessary normally, however periodic checks on inhibitor levels and expansion vessel pressure are recommended.

Note - fit to ensure access for future maintenance and always follow best practice.



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