

# RS Plate Heat Exchanger Installation, Operation and Maintenance



Every RS heat exchanger is pressure tested before delivery & is ready for installation.

**A** – To avoid damage to the PHE & prevent injury to personnel it is better to move the unit as shown in Fig A

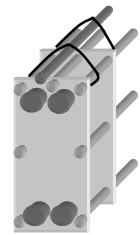


Fig A

**B** - The PHE should be installed in the upright position. Make sure you have enough space to open the PHE for any inspections or repairs. Space should be provided at the sides and ends to allow work to be carried out - a minimum of 300mm. as shown in Fig B

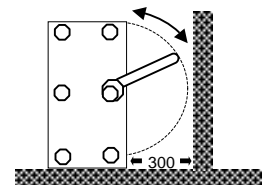


Fig B

**C** – Piping should be connected according to inlet/outlet labels

*Entrata –inlet*                      I – *primary circuit*  
*Uscita – outlet*                     II – *secondary circuit*

as shown in Fig C

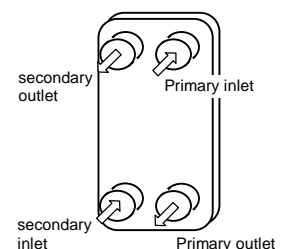


Fig C

**D** – When connecting threaded connections, always use two wrenches or spanners to avoid breaking of the gasket seals.

## START UP

1. Close all isolating valves – no pumps in operation
2. Check for the desired working pressure
3. Fill & vent the secondary circuits, valve by valve through the plate heat exchanger. **Open valves gradually to prevent shock on the plates.**
4. Having filled the secondary circuit, close the valves again
5. Repeat the procedure on the primary circuit, again without all pumps running. Vent the circuits through the safety valve levers. On completion close the valves.
6. Bring on the secondary pump, at the same time opening up the valves gradually to allow smooth flow.
7. Repeat the procedure for the primary pump.
7. After 30/45 minutes stop the plant. Then isolate, open & inspect all strainers for sediment. Clean & repeat as necessary until the strainers remain clear.
8. Top-up & commence automatic control & operation.

## MAINTENANCE

Visual inspection of the plate heat exchanger, cleaning of strainers & flushing of the system is all that is required for maintenance. If the plate heat exchanger develops a leak then isolate & drain down the plate heat exchanger and tighten all the spacer bolts with equal turns until they become tight, the correct amount of tightening can be checked by contacting ATLANTIC 2000. Open valves until hydraulic working pressure is reached. If the plate heat exchanger continues to leak, a new set of gaskets is available from ATLANTIC 4422, tel: 0161 621 5963.

[www.atlanticboilers.com](http://www.atlanticboilers.com)

EMAIL [info@atlantic2000.co.uk](mailto:info@atlantic2000.co.uk)

Tel 0161 621 5960 Fax 0161 621 5966 Box 11, Ashton-under-Lyne, OL6 7TR