

ADDITIVE INJECTOR FOR CENTRAL HEATING

DIRECTIONS FOR USE

ASSEMBLING THE COMPONENTS

Hold pump with arrow pointing down. Push white cap, (screw thread upwards) onto the now top end of the pump connector. Attach the clear plastic tubes to both ends of the pump. Push the black tube into the top clear tube. See Fig.1 and the component list on the side of this packaging.

PREPARATION

The additives will be put into the system through a radiator vent connection, so cover the floor to protect it from accidental spillages. Have a small spillage container/liquid measuring device available.

PROCEDURE

- 1. Turn off the central heating and leave for 10 minutes.
- 2. Select a small radiator, if possible one over a solid floor, i.e., kitchen or bathroom, and preferably a towel rail, Fig. 2, or a radiator with normal $\frac{1}{2}$ " BSP vent connection, Fig. 3, or a radiator with a small integral vent, Fig. 4. Close both of the radiator valves **but remember to adjust them back to the same setting positions** when later opening them.
- 3. Vent the radiator to ensure that valves are holding. Expect some minor water leakage. Leave the vent crew open. If using a towel rail as Fig. 2, remove the entire vent valve, not just the vent screw. If using a radiator as Fig.3, remove the 1/2" BSP plug **at the top and other end of the radiator**. If using an integral vent as Fig.4, remove and retain the vent screw.
- 4. Whichever arrangement, locate the spillage container/measuring device underneath the additive entry point.
- 5. Where applying to radiator types as Fig.2 and 3, insert the black tube about 500mm (20") down into the radiator, and with the clear tube at the other end of the pump over a suitable container, squeeze the pump to remove about 1300ml, $(1^{1}/_{2} \text{ pints})$ of water. If the black tube will not pass far enough into the radiator, use the same method to dry water as described in instruction 6.
- 6. Where applying to radiator types as Fig.4, gently loosen one of the bottom radiator valve unions until 1300ml, (1¹/₂ pints) water slowly drains into the spillage container. Re-tighten the union. Connect the small Clear Connector to the end of the black tube, and push it into the recess around the vent.
- 7. With the Fig.2 configuration, leave the black tube in the vent valve hole. With the Fig.3 configuration, remove the black tube and twist the Black Connector firmly into the BSP hole and push the black tube back through the hole in the Connector so that it enters about 20 to 30 mm, $(1"-1^{1}/_{2}")$.
- 8. With all three configurations, pull out the other end of the black tube from the op of the clear tube connected to the "squeeze" pump. Reverse the pump so that the arrow now points upwards, and reconnect the black tube to the clear tube now at the top.
- 9. Ensuring that the spillage, container is still in position, vigorously shake the Protex Additive Container, remove the safety cap, and connect the now lower clear tube and cap to the container as show in Fig.5. Slowly squeeze the pump until the Additive has been injected into the system.
- 10. Remove the Additive Injector system, replace and tighten all the fittings, and turn on the radiator valves to their original setting positions. Turn on the heating system, and vent the radiator after 20 minutes.

To be used only in accordance with these printed instructions. No liability will be accepted for any loss or damage arising from usage other than in strict accordance with the instruction.



Fig. 5

Excel Industries, Coolmine Industrial Estate, Clonsilla Road, Dublin 15, Ireland Phone no. +353(0)1811870 E-mail: sales@excel-industries.com www.protex-solutions.com www.excel-industries.com