

CONTHERM *Scientific Limited*

TECHNICAL MEMORANDUM

PRODUCT : STEAM INJECTOR

No : 0091

FROM : Contherm Scientific Ltd

DATE : 04/08/2004

TO : ALL AGENTS

SUBJECT: Replacing Steam Injector (P2005) on PRECISION Cabinets

If the cabinet is fitted with the Steam Injection System for humidity control there will be a Steam Module located at the rear of the cabinet. The water used must be distilled or deionised to minimise the risk of blockage to the injector coil, additionally it is recommended that the water be changed every two weeks if it is recirculated. The water inlet filter (if fitted) should be replaced at least every three months or sooner if there is any likelihood of the water becoming contaminated. The steam injector coil should be replaced every 12 months.

To replace the Steam Injector Coil proceed as follows:

- Ensure all electrical power is removed from the chamber by tripping the RCD breaker and removing the plug from the wall socket.
- Allow 60 minutes for the temperature of the Steam Injector heater to cool so that it can be safely handled. The steam Module is located at the rear of the cabinet outside wall.
- Remove the four screws holding the Steam Module cover to the steam module and lift the cover clear off the module.
- Disconnect the water inlet hose from the inlet hoesetail underneath the Steam Module.
- Disconnect the steam outlet pipe by loosening the ferrule at the RHS of the steam module.
- Remove the top cover from the injector heater (test carefully first to ensure that the heater is not too hot to handle before attempting removal) by removing the two OUTSIDE screws (do NOT loosen the centre screw) and carefully lift the top cover free of the heater module (note that the regulating thermostat capillary is trapped under the top cover).
- Firmly tap the end of the bottom hoesetail to try and knock the injector coil upwards (it lifts out from the top) until it comes free of the heater block.
- Replace the injector coil with a new unit and reverse the above procedure to reassemble.
- Plug the cabinet back into the power outlet and Turn the RCD main switch back on.
- Prime the injector system using diagnostic No3 until the pump is fully primed with water (usually indicated by the loud buzzing noise abating.).
- Test the humidity operation and inspect for any obvious leaks.