

**REALISE YOUR MACHINES FULL POTENTIAL • INCREASE PROFITS
EXTEND MACHINE LIFE • MINIMISE DOWNTIME
INCREASE PRODUCTION OUTPUT • IMPROVE PROCESS QUALITY**

EFCO has flat glass tempering machines which have been in continuous service for over 20 years. Sooner or later there will be failure of parts which are now obsolete and difficult to replace or repair. To ensure that customers are not faced with the possibility of lengthy downtime and loss of production EFCO has a number of up-grade solutions which will ensure that your machine will serve you for many more years to come.

Operator Interface Screen & Software (advisable for all machines built before 1998)

EFCO has available a replacement operator interface package which comprises a Windows® based panel mounted industrial computer with keyboard and mouse running EFCO's latest system software. Recipes are no longer identified by a meaningless number but as a descriptive text filename, and you can create up to a 1000 of them. A single mouse click or key press is sufficient to load a selected recipe. Additional screens have been incorporated giving more information on the condition of the plant and control over the quality of the glass. Pyrometric data in graphical format assists in quality control. Enhanced and simplified fault alarm pages, set-up pages and machine condition pages ensure that the operator is in full knowledge of the plant status.



Examples of some of the screens

Aspirated Convection System for Soft Coat Low 'E' glass (available for all machines)

Up-grade your temperer with the technology to enable processing of the new generation of toughenable Soft Coated Low 'E' glass at production rates almost as great as that for clear float glass with your current machine specification. In addition Increase your machines production capability, Improve your machines process quality and Reduce failures and breakages. These advantages are achieved when your EFCO temperer is fitted with our Air Aspirated Convection System. The system is a complete package comprising the fitting of aspiration tubes into the upper and lower sections of your temperer furnace section. A stand alone electric air compressor and receiver set will provide all the necessary dried and filtered air. An integrated software package will control the pressure, the position and the duration of the convection air via a set of proportional control valves housed within a floor standing cabinet.

System PLC Upgrade (Advisable for all machines built prior to 2002)

The system PLC used inside the electrical panel of older EFCO machines is now entering its obsolescent phase. If a module fails, you could face a lengthy production downtime waiting for a replacement, or worse, a replacement being unavailable!

Obsolescence also means that the cost of replacement components will spiral. EFCO has available a Siemens® S7 PLC as a replacement which has the machine operating software embedded on the new platform. The new PLC has parts which will be ex-stock and universally available for many years to come.



Furnace Roller Side Wall Sealing

The furnace rollers must pass through the furnace side wall insulation. For years this has been an area of high potential heat loss causing unstable furnace temperatures, premature roller bearing failures and extra to your fuel bill. EFCO can supply and fit specially designed precision machined modules which keep heat loss to a minimum. In addition in the event of damage, modules can be replaced easily and quickly.

General Service or Refurbishment

Let EFCO's qualified engineers carry out a full survey of your temperer then issue a full report of the equipment's condition along with recommendations of servicing and/or repair. A properly maintained machine will continue to give excellent results well into the future.

EFCO Furnaces Sales and Service engineers would be delighted to discuss all or any of the foregoing up-grades and provide more information on the costs and benefits that are associated. Please contact:-



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