

FIT 10 FLUX INJECTION UNIT BOOSTS FOUNDRY PROCESS PERFORMANCE AND METAL QUALITY



The FIT 10 flux injection unit from Pyrotek is a small, portable and cost-efficient, mechanical fluxing station, designed for sub-surface injection of powdered or fused flux at a rate of 1–3 lb (0.5–1.4 kg) per minute. For optimum shop floor flexibility and portability in casting operations, this unit was designed without electrical connections and runs solely on pressurized inert gas.

The unit can be used for delivery of both fused refining agents and powdered fluxes. The refining agents are employed to remove alkali metals and also separate inclusions from the molten metal bath. Powdered fluxes also remove inclusions and assist in keeping the furnace clean. This increases the life of the refractory and reduce the amount of damage from physical cleaning.

The key features of the unit include a 60 lb (27 kg) stainless steel tank, which resists corrosion and enables large injection applications. And flux flow rates from 1 to 3 lb/min are obtained. There are no moving parts to wear or plug and the simple controls require little operator training.

The unit can operate with either argon or nitrogen and has a small platform for ease of portability 24 x 24 x 36 in. Also it is fitted with a removable lid for easy inspection.

IN-PROCESS BENEFITS

The attractive range of process advantages obtained by operating these units all result in improved metal quality and production performance include:

- Low cost of operation
- Improve casting quality by removing oxides and hydrogen
- Reduce smoke generation from fluxing by reacting the flux below the metal surface
- Efficient use of flux to reduce consumption
- Reduce the amount of aluminium retained in the dross.

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