

FIT-15 AND FIT-25 FLUX INJECTORS

PORTABLE FLUXING STATIONS

FIT flux injection systems are cost-effective, small, portable mechanical fluxing stations designed for sub-surface injection of powdered or fused flux at a rate of 0.5–3.6 kilograms (1–8 pounds) per minute. These units are designed without electrical connections, and operate on pressurized inert gas.

FIT injectors reduce furnace floor buildup, flux consumption and smoke generation, and improve metal casting.

These systems can inject both fused refining agents and powdered fluxes. Refining agents remove alkali metals and separate inclusions from the bath. Powdered fluxes remove inclusions and help keep the furnace clean. Using FIT flux injection systems increases refractory life and reduces cleaning damage.

NOTE: The FIT-25 flux injector injects a higher rate of flux than the FIT-15. Individual system specifications are provided in the following table.

PHYSICAL PROPERTIES

Property	Value	
	FIT-15	FIT-25
Flux Tank Volume–L (gal)	38 (10)	38 (10)
Flux Tank Capacity–kg (lb)	45.4 (100)	45.4 (100)
Flux Injection Rate–kg/min (lb/min)	0.5–1.4 (1–3)	1.8–3.6 (4–8)
Hose Internal Diameter–mm (in)	19 (0.75)	25 (1)
Wand Bore Dimension–mm (in)	19 (0.75)	25 (1)



BENEFITS

- Simple controls for quick operator training
- Durable powder coated flux tank
- Heavy duty construction
- Nitrogen or argon inert gas
- Small portable platform
- Sealed flux tank with pressure gauge
- Flux tank safety pressure pop-off pressure valve
- Precise injection flow rates from 0.5–3.6 kg (1–8 lb) per minute (depending on model)
- Fewer parts require less maintenance
- Low operating costs
- Improves casting quality by removing oxides, hydrogen and other impurities
- Reduces smoke generation by reacting with the flux below the metal surface
- Reduces flux consumption
- Reduces the amount of aluminium retained in the dross

