

FLUX AND REFINING AGENT INJECTION SYSTEM



The FIM5 enhances flux injection while delivering a steady flow of flux below the molten metal line. Fluxing helps improve the quality of aluminium alloys while reducing operating costs.

Flux injectors can be used in either a large aluminum holding furnace connected to a long flux wand, or a smaller batch crucible furnace connected to a graphite lance. The FIM5 unit can also be joined with one of Pyrotek's popular STAR or HD2000 spinning-rotor degassing machines for improved performance.

FEATURES AND ADVANTAGES

- Allen-Bradley or Siemens PLC Touch-Screen Simatic Panel allows for easy programming and simple operation.
- Touch screen or keypad controls are mounted in a NEMA 12 enclosure, with push button start, warning lights, and emergency stop.
- Auto-timer and flashing light help to provide repeatability and notify operator when the cycle is complete.
- Gas flow rates range up to 240 SCFH (113 L/min) and standard flux injection rates of 2–10 pounds (~0.9–4.5 kg) per minute, lending the design well to a wide-range of environments. This means the unit can be successfully used in both casthouse and foundry applications. [Non-standard injection rates between 0.25–2 pounds (~0.1–0.9 kg) require special order.]
- 10 gallon (38 L) tank holds up to 100 pounds (~45 kg) of flux.
- Improved sealing capability for maintaining flux integrity.
- New and improved rotary flux feeder injects powder or granular fluxes.
- This flux injector is built on a sturdy four-wheel frame for easy transport around the plant to different furnaces.

BENEFITS

- Improves molten metal quality by reducing inclusions and hydrogen.
- Reduces the amount of dross generated.
- Reduces oxide buildup on furnace walls.
- Submerged flux injection can reduce overall flux consumption.
- Reduces operating costs, energy consumption and saves time.
- Produce a cleaner furnace and work environment

APPLICATION

- Batch furnaces
- Transfer ladles
- Holding furnaces
- Melting furnaces

SPECIFICATIONS

- Units must be ordered to specification as either 110 / 220 VAC, 50 / 60 Hz
- Weight: 600 Pounds (272 kg)
- Dimensions: 32.25" Wide x 48" Long x 60" High (81.92 cm x 121.92 cm x 152.4 cm)

AVAILABILITY

Check with your local Pyrotek facility

Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.

REGIONAL HEADQUARTERS

EUROPE/RUSSIA/MIDDLE EAST

Czech Republic (420) 516-527-111
 Germany (49) (0)2182-81020
 Italy (39) 010-846-8627
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AFRICA

(27) (0)35-797-4039

ASIA

(86) 755-26632324

AUSTRALIA

(61) (0)2 9631-1333

CANADA

(819) 477-0734

INDIA

(91) 2137-668000

JAPAN

(81) (0)78 265-5590

NEW ZEALAND

(64) (0)9 272-2056

SOUTH AMERICA

(55) 11-4786-5233

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