



TECHNICAL INFORMATION SHEET
PEM 800/92

ELECTROMAGNETIC PUMP AND FURNACE I

Electromagnetic pump
PEM 800



▲ Transfer pipe
TT 800 - 150 / 100



▲ Melting crucible ▶

▼ CLEANING WELL ACF 4200



*For other mechanisms,
please contact our head office.*



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ELECTROMAGNETIC METAL CIRCULATION PUMP

PATENTED SYSTEM

APPLICATION

Melting of aluminium swarf, chips, turning and shredded stock ingot, bales, litho sheets.

CHARACTERISTICS

Pump through-put 10 tonnes/minute of liquid aluminium.

MELTING CAPACITY

- 1600 kg/hour : swarf and chips
- 3000 kg/hour : old rolled baies
- 4000 kg/hour : shredded cast

OPERATING CONDITIONS

Easily retrofitted to existing plant : melter-holder furnace or holding furnace
Our swarf dryer makes a comprehensive addition to the system (see technical information sheet)

An excellent complement to our new furnaces TT 4000 type FS or FSAI



ADVANTAGES

High metal yield. The vortex effect, created by the system, carries the feed stock to the bottom of the crucible in a circular motion. The material is immersed rapidly and melts instantly without oxidation.

The melting process, by conduction and convection, gives the highest yields due to the fact that the low density feed stock is instantly immersed and stirred. Additionally the energy required for the melting process is in part recovered by the design of our combined melting holding furnaces.

Practically the only energy required is that supplied to the cooled induction unit which constitutes the «pump motor». This consumption is in the region of 35/40 kWh.

It is possible to consider rotary furnaces, designed to treat this type of feed stock, as obsolete equipment when compared to the advantages of the PEM 800 system

- Low energy consumption
- Optimum metal yields
- Reduced maintenance
- salt free melting : no salts to buy or to dispose of.

