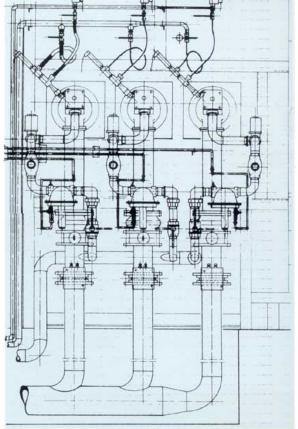


▲ Melting furnace TT 4000 FSAI with combined 30 tonne bolding well





▲ Sequential burners,
PLC controlled with charge initialisation





TECHNICAL INFORMATION SHEET 4020-4112/93

HOLDING FURNACES FS AND FSAI



APPLICATIONS Foundries and Metal Smelters

ADVANTAGES

Improved metal quality Production performances and energy returns amongst the best in the field High metal yields

RANGE OF FURNACES

Melt rates 1 tonne/hour to 5 tonnes/hour Holding capacity 3 tonnes to 30 tonnes

PROCESS

Experience gained over recent years has enable us to develop a melting system which boasts a Sequential burner Function (FS) operating in relation to the charge introduced into the melting compartment.

This sequential function distributes the energy «where it is needed, when it is needed» and has led to some very interesting performance returns.

Taking this system one step further a

«FSAI» version has been developed: PLC controlled sequential burner function with charge initialisation. This enables production personnel to categorise the charge density and type via the automatic weighing system.

METAL SMELTING (Grade AS9U3)

Spot rates:

Charge composed of:

Mixed: 324 kg Cast: 295 kg Frag: 2608 kg

3585 kg/h 699 kWh/t at 806° C

Production figures (2 hrs 42 min)

Mixed: 1214 kg Cast: 1373 kg Frag: 4824 kg

Total (at 806° C) 7411 kg 2745 kg/h . 752 kWh/t

RESULTS (Examples)

FOUNDRY (Grade AS9U3)

Spot rates

Ingots 4600 kg/h (584 kWh/t) Metal temp 750° C Engine blocs 4100 kg/h (689 kWh/t) Metal temp 755° C

(4 charges) Headers & risers

risers 3500 kg/h (758 kwh/t) Metal temp 760° C

Production figures (over 6 hrs 23 min) 17305 kg of headers and risers 2711 kg/h - 698 kWh/t (M + H)



Notes

At the same time, frag melt rate equais 1786 kg/h

These installations may be complemented with relief chambers (with or without afterburners), off-gaz filtration systems. For metal smelters: swarf dryers; metal circulation pumps for salt free melting of swarf and chips; degassing and or metal treatment equipment.

These examples are not exhaustive. For all other capacities and applications please contact our head office.

TECHNI-THERM S.A. FRANCE
Z.I. les Doucettes- 1, rue Jules Verne
95146 GARGES - les - GONESSE

Tél. (33) 1-39 93 36 36 Fax. (33) 1-34 53 63 54