



Product Data Sheet

Fusing
Materials,
Equipment
and
Technology

CONTINUOUS

BELT FURNACES

ISO 9001 CERTIFIED



MEMBER



GASBARRE
PRODUCTS, INC.

SINTERITE FURNACE DIVISION

STANDARDS:

Heavy gauge stainless steel load and unload tables

Stainless steel hoods over entrance door and exit

Piloted atmosphere gas burn-off at entrance and exit

Adjustable door on entrance

Silicon Carbide hearthplates provide continuous muffle support

Heavy duty Alumina piers support hearthplates

Continuous belt return trays

Modulating cooling water control valves

Side cover venting to cool the heating element connections

Pull out rack for parts discharge

Programmable Logic Control (PLC)

CONTROLS AND HEATING (Application Specific)

HEATING

- Silicon Carbide “Globars” operating at stepped-down voltage

TEMPERATURE CONTROL (each zone)

- Honeywell UDC 3300 digital control instrument
- Silicon Controlled Rectifier (SRC) Power Control

OVER TEMPERATURE PROTECTION (each zone)

- Dedicated thermocouple
- Honeywell UDC 2300 digital over temperature instrument
- Master cut-out contractor with alarm trip

THERMOCOUPLES

- ANSI Type K in ceramic protection tubes
- One (1) additional thermowell each zones for tests

OTHER CONTROLS

- Belt speed and reversing with digital readout and closed loop control
- Alarms - audible & visual
- Ammeters each heating circuit (15)
- Switches, pushbuttons and indicator light
- NEMA 12 control cabinet mounted on right side

CONVEYOR SYSTEM

- ANSI Type K in ceramic protection tubes
- One (1) additional thermowell each zones for tests

Options:

Atmosphere and flow meter related options:

- Waukee Natural Gas Injection
- Waukee-Tronic/Valve Tronic Flow-Meter
- Waukee-Tronic Flow-Meter
- Atmosphere moistureizer
- Atmosphere sample bench (9 ports)
- Additional sample port
- Delta F Oxygen Analyzer
- Kahn Dewpoint Analyzer (Hygromet)
- Carbon Analyzer (monoxide or dioxide)

Mechanical related options:

- Instackerator
- Additional curtain chamber (less N₂ injection)
- Bolt or clamp flanges (per flange)

Electical/Control related options:

- Temperature recorder
- Air conditioner (1Z to 3Z)
- Auto spark pilot ignition
- Type R thermocouple/zone
- Duplex auxiliary electrical outlet
- Deviation alarm/zone
- UPS (Elec.)

Cooling related options:

- 4ft (1.21 m) flexible cooler

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