

USED EQUIPMENT DATA SHEET

Stock Number: U-3421

Manufacturer: J.L. Becker Company
Type: Gas Fired Integral Quench Furnace

Load Area: 36" wide x 72" long x 36" high
Serial Number: J1850
Date of Manufacture: 1995

Heating: Gas Fired
Burner/Radiant Tubes: (8) 6 ½" od U-radiant tubes vertically mounted, (4) on each side of the work load. Diamond Engineering Mark IX, pulse fired burners. Total BTU's input 1,800,000 Btu's/Hr with recuperators to include an Eclipse combustion air blower with 3 hp motor. Plunge cooling system is included.

Condition: Still Installed/Operational
Excellent Condition

Gross Load Capacity: 7000 lbs.
Operating Temperature: 1750°F.

Rear Handler System Alloy chain and head assembly to transfer loads driven by 2 HP motor, sprocket, reducer, roller chain and guard

Insulation: Walls – 9" 2300°F, insulating firebrick plus 4½" block insulation
Roof - 10" fiber modules
Floor - 12" 2300°F. insulating firebrick

Hearth: (2) Cast HT alloy roller rails/N22H 5" dia. rollers on 21" centers
(1) Cast HT chain guide for rear handler system

Fans Two, 24" dia. blade type roof mount fan assemblies in heating chamber each 5 hp motor

Electrical System:
Instrument: Honeywell DCP216 programmable temperature controller
One (1) Honeywell UDC 2000 controller
One (1) Honeywell UDC 2000 high limit controller
One (1) Honeywell UDC Carbon Controller
One (1) Honeywell DPR100 Recorder

Allen Bradley PLC model 500 with input/output logic cards, thermocouple card, mounting rack and related components to complete the system, JLB Computer Management System

Furnace Position Display panel with status light

Voltage: 480 volt 60 hz 3ph

Quench System:
Capacity: 4900 gallons, with (4) vertically mounted agitators driven by a 7½ HP motor with 9,000 gpm per agitator, variable frequency drive for the agitators, range 4,000 to 9,000 gpm

Oil Cooling: Oil - Air cooled heat exchanger with one fan 1 hp motor for fan, 7½ hp recirculating oil pump assembly. One (1) Rosedale filter assembly complete with by pass piping and local operation control station

Quench Heaters: Six (6) 9 KW each Watlow immersion heaters with contactor and temperature controller

Atmosphere System: Currently set up to operate with an endothermic atmosphere. Endo gas, natural gas, process air hi low flow system. Waukee flow meters with Waukee tronic sensing heads. Emergency nitrogen flow in case of power failure. Shim and test ports.

Carbon Control: Cambridge Carbon Control system; complete with probe.

Utility Requirements (Estimate)

Heating system	2200 CFH Natural Gas (Max)
Recirculating fans	(2) @ 5 hp each 10 hp
Combustion blower	(1) 3hp
Agitators	(4) @ 7 ½ hp each 30 hp
Rear handler motor	(1) 5 hp
Heat Exchanger fan motor	(1) 1 hp
Oil recirculating pump motor	(1) 7.5 hp
Controls (est.)	1 hp

Total 55 HP or 40 KW approx.

High pressure air	50 CFH (Intermittent) @ 80 psi
Cooling water	4 gpm
Quench Tank capacity	4900 gallons
Electric	480 volts, 3 phase, 60 Hertz
Natural Gas	1000 Btu/hr @ 8 oz.