



**Park  
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**Equipment Description**

**Item # 4026**

**Manufacturer:** SURFACE COMBUSTION

**Type:** SUPER 36 ALLCASE IQ FURNACE

**Serial:** FNC #6487

**Working Dimensions:** 36" WIDE X 36" HIGH X 72" LONG

**Power:** 110 KW, 480 VOLT, 3 PHASE, 60 HZ

**Maximum Fuel Demand:** NATURAL GAS – 3,750 CFH

**Maximum Temperature:** 1,950°F

**Quench Tank:** 5,000 GALLON CAPACITY

**General:** HIGH FLOW 30,000 GPM, 40 HP QUENCH AGITATION SYSTEM.  
TWO SPEED QUENCH AGITATION.  
REVERSE QUENCH AGITATION.  
54 KW QUENCH HEATING FOR 480V, 160° OPERATION.  
AIR COOLED QUENCH OIL COOLER FOR 160°F OPERATION.  
SYSTEM #1 AUTOMATIC INTERNAL HANDLING.  
HEAVY DUTY 5" DIA. SUPER ALLOY ROLLERS & RAILS.  
LONG LIFE CAST ALLOY FANS.  
VIBRATING ABSORBING FAN MOUNTINGS.  
PROOF OF MOTION FOR FANS.  
DOOR OPENING ENLARGED 1" AT BOTH SIDES.  
ATMOSPHERE PIPING FOR HIGH/LOW FLOW ENDOTHERMIC  
ATMOSPHERE TO THE FURNACE CHAMBER (HIGH FLOW DURING  
MOTIONS).  
NATURAL GAS ENRICHING GAS CONTROL VALVE.  
FLOW METERS: ONE (1) EACH OF ENDO, NATURAL GAS, AIR AMMONIA,  
NITROGEN.  
AUTOMATIC NITROGEN PURGE.  
HEAVY DUTY REFRACTORY INSULATION WITH ARCHED ROOF THAT  
PROMOTES ATMOSPHERE RECIRCULATION.  
13-1/2" WALL INSULATION FOR REDUCED HEAT LOSSES.  
RECUPERATION & AUTOMATIC PLUNGE COOLING.  
TIME DELAY FOR COMBUSTION SYSTEM MANUAL RESET SHUT OFF  
VALVE.  
TWO 2" SHIM STOCK PORTS ONE ON EACH SIDE OF THE FURNACE  
ROOF DROP.  
HOODS, STCAKS AND VENTS ARE ALSO INCLUDED.

**Controls:**

**AIR CONDITIONED CONTROL PANEL.  
CASEMATE CONTROLLER.  
ADVANCED ATMOSPHERES TYPE “M” OXYGEN PROBE WITH BURNOUT  
FEATURE.  
HONEYWELL UDC 2000 DIGITAL FURNACE TEMPERATURE.  
ATHENA 4000 QUENCH TEMPERATURE HI-LIMIT.  
PROPORTIONAL CONTROL OF ENRICHING GAS ADDITIONS.  
CONTROL OF PROCESS AIR ADDITIONS.  
CONTROL OF PROCESS AMMONIA ADDITIONS.  
CONTROL OF PROBE BURNOUT (ONCE EACH CYCLE PLUS TIMED  
INTERVALS FOR LONG CYCLES).**

NOTE: equipment is sold “AS IS, WHERE IS” and buyer shall indemnify seller against and hold seller harmless from any and all claims, actions and damages arising out of the possession, operation, condition or use of the equipment.

Seller suggests that you contact the manufacture for important information pertaining to safety and proper use and operation of the above equipment. For safety reasons, we request that you do not place the equipment into service until you have received current safety instructions from the manufacturer.













