



CALIFORNIA HEATING EQUIPMENT

INNOVATION – INGENUITY - EXPERIENCE

Drop Bottom-Quick Quench Aluminum Solution Heat Treating Furnaces

California Heating Equipment can customize each furnace to fit your site-specific requirements with our on-staff engineering team. Listed below are our standard sized furnaces and some of our standard features. Request a quotation with the specific features that meet your requirements.

CHE Standard Horizontal Aluminum Solution Heat Treating Furnaces:

Model	Work Zone	Max Load	Quench Tank
QQ-443-800	4' x 4' x 3'	800 LB	1,350 GAL
QQ-444-4200	4' x 4' x 4'	4,200 LB	4,500 GAL
QQ-555-4000	5' x 5' x 5'	4,000 LB	3,600 GAL
QQ-484-1500	4' x 8' x 4'	1,500 LB	4,300 GAL
QQ-4710-2500	4' x 7' x 10'	2,500 LB	4,300 GAL
QQ-4616-1500	4' x 6' x 16'	4,000 LB	8,000 GAL
QQ-4616-8000	4' x 6' x 16'	8,000 LB	8,000 GAL
QQ-4620-8000	4' x 6' x 20'	8,000 LB	13,500 GAL

*With CHE's State of the Art capabilities we can also build custom sized equipment meeting all client requirements.

Standard Features for CHE Drop Bottom Furnaces

Specifications

- Meets current AMS-2770 and AMS 2750 Furnace Construction
- Long Life Design
- A-36 Steel outer shell design
- Heavy Duty Channel supports throughout
- 8" Ceramic Fiber lining throughout
- Epoxy Enamel coated externally
- AWS Certified Welding of all materials

Bottom Door System

- Recta-linear motion
- Air tight seal maintains uniformity in work zone
- Door gasket life is extensive

Hoist System

- Variable speed electric motor/braking design
- Years of trouble-free operation
- Ease of maintenance
- Off the shelf components for ease of repair
- Five to Seven second quench time





CALIFORNIA HEATING EQUIPMENT

INNOVATION – INGENUITY - EXPERIENCE

Drop Bottom-Quick Quench Aluminum Solution Heat Treating Furnaces

(cont.)

Airflow System

- Vertical down airflow system
- Uniform heating over work load
- High performance fan with high air change ratio
- Maintains $\pm 5^{\circ}$ F temperature uniformity
- Aluminized Steel Plenum design

Control System

- Digital temperature and high limit controllers
- PLC with Human Operator Interface
- Digital chart recorder for compliance monitoring
- Tracks start/end times, soak times
- Reports are easily printed and stored
- All UL Listed components

Quench Tank System

- Material construction with strong reinforcement
- Epoxy Enamel coated externally
- Epoxy coated internally
- Heavy Duty steel caster/rail transport system
- Large capacity tank for thermal absorption
- Automatic quench tank positioning
- Hot or Cold systems for water or polymer applications

Heating System

- Direct Gas Fired, Radiant Tube Fired or All Electric
- Low NOx Direct Gas Fired Burner Design Available
- Energy Efficiency technology

