

ALD Vacuum Technologies

High Tech is our Business

DualTherm® - Dual-Chamber Oil Quench Vacuum Furnace

DTO 446 | 67510 | 101015 | Pit or Pit-less type

your preferred choice for a wide range of vacuum heat treatment applications

ALD Vacuum Technologies India Pvt. Ltd. (ALD India) delivers competitive advantages and business values of vacuum heat treatment and metallurgy products for customer-oriented solutions in automotive, aerospace, defence and several other industries.

Our decades of experience in vacuum technology coupled with the state-of-art equipment's ensure that our valued-customers get the quality product that they require. ALD-India-engineered DualTherm® "dual-chamber" vacuum furnaces are 'Made-In-India' with a wide range of standard and tailor-made options to fulfill customers' heat treatment production requirements.

DualTherm® Key Features

- Better-engineered Design Solutions
- Pit or Pit-less Oil Tank Design
- Comply with Natl'/Intl' Build/Test Standards
- Cubical or Cylindrical Graphite Hot-zone
- Efficient Heating/Cooling/Quenching
- Excellent Temperature Uniformity
- Enhanced Safety Measures
- Operator-friendly fully-automated PLC-based controls with SCADA

DualTherm® Advantages

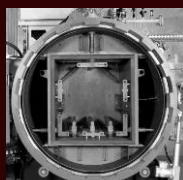
- Advanced and Customizable Process Controls
- Enhanced Product Quality
- High reliability and Productivity
- Long-Term Cost Savings
- Multiple Processes in one Equipment
- Precise Temperature Control
- Optimized Quenching Operation
- Versatility in Applications

DualTherm® Processes

- Environmental-friendly process over the conventional ones
 - Annealing
 - Brazing
 - Hardening
 - Low Pressure Carburizing
 - Sintering
 - Tempering

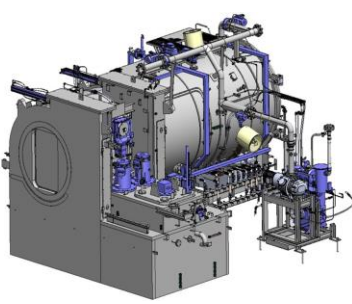
DualTherm® Applications

- Aerospace
- Automotive
- Defence
- Energy
- Medical
- Tools & Dies



Sample Images. Actual build shall vary depend on customization meeting customer's requirement.

Technical Specifications



DualTherm® oil quench vacuum furnace with pit (left) and pit-less (right) design

DualTherm® Model	446	67510	101015
Hot Zone Size (L x W x D, in mm)	400/400/600	600/750/1000	1000/1000/1500
Gross Weight (max.Kg)	300	600 1000	2500
Vessel Design	Jacketed (CS/ SS) Cylindrical Vessel Configuration		
Furnace Type	Dual-Chamber Construction Horizontal Front Load		
Oil Tank	Pit Pit-less		
Hot Zone	Cubical or Cylindrical Graphite		
Design Temperature	up to 1350 °C		
Ultimate Vacuum ¹	up to ~5 x 10 ⁻⁵ mbar		
Quench Pressure	up to 20 bar		
Quench Medium	Oil		
TUS	As per applicable standard		
Automation	PLC, SCADA, HMI		
Optional Features (or) Add-ons (upon Customer's requirement)	Convective Heating		
	Diffusion pump for high vacuum		
	Additional/Enhanced Safety Features		
	TUS Frame		
Customer's Scope	All Facilities and Utilities up to the Furnace and Equipment's termination points		

¹ in cold, empty, clean and dry furnace with fine vacuum pump set

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