

TECHNICAL DATA SHEET

Rapid Thermal Processing (RTP) Furnace ARTP600

Rapid thermal processing · up to 1000 °C · max 150 °C/s · 2–6 inch wafers



ARTP600 — rapid thermal processing (RTP) furnace for 2–6 inch wafers.

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SECTION I

Product Description

ARTP600 is a rapid thermal processing (RTP) furnace designed for semiconductor high-temperature processing: it supports oxidation, diffusion, and rapid annealing processes over a 500–1000 °C window, using a dual-layer array of 21 × 1 kW high-power lamps to reach heating rates of up to 150 °C/s.

A water-cooled aluminum housing and quartz inner chamber keep the temperature field uniform, the quartz tray carries 2–6 inch round substrates on the front drawer, and the chamber is specified for vacuum / atmosphere operation with precision gas control. The furnace measures 534 × 608 × 272 mm at a net weight of 42 kg.

SECTION II

Specifications

ARTP600 — Specifications	
Model #	ARTP600
SKU #	EIRTP600
Chamber Body	Quartz
Temperature Range	Dual-layer (top & bottom) heating, up to 1000 °C
Temperature Control Rate	Max heating rate 150 °C/s
Sample Stage	Quartz tray with round substrate seat, 2–6 inch
Chamber	Vacuum / atmosphere
Power	21 kW
Dimensions	534 × 608 × 272 mm
Net Weight	42 kg

SECTION III

Application Fields

- Rapid thermal annealing (RTA)
- Rapid thermal oxidation
- Rapid thermal nitridation
- Rapid thermal diffusion
- Rapid chemical vapor deposition
- Metal silicide formation
- Epitaxy processes
- Polysilicon & carbide annealing

SECTION IV

Configuration

The OEM materials list no fixed standard configuration for the ARTP600; the supplied configuration and options are confirmed at quotation.

The ARTP600 is supplied by quotation: request via the product page at www.acsmaterial.com; our engineers confirm the configuration for your process and reply with pricing and lead time.

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