

# ***SRO-700***

TABLE TOP  
IR VACUUM REFLOW SYSTEM



**THERMAL  
PROCESSING**

TECHNOLOGY.  
INNOVATION.  
MADE WITH PASSION.

# SRO-700

Ever since its introduction in 1989 ATV's Single Process Chamber approach has built a strong reputation in the R&D and pilot line production market. The SRO-700 table top IR vacuum reflow oven is the essential entry level reflow soldering oven capable of fulfilling all your basic process requirements.

And this table top soldering system is the ideal tool for R&D applications as well. With its rapid thermal annealing and brazing capabilities the SRO-700 is equally suited for your basic reflow soldering applications as well as all your R&D assignments. A cold wall chamber principle in combination with the IR lamp heating technology and the vacuum option will reward you with all the required process repeatability and perfect void free solder joints.

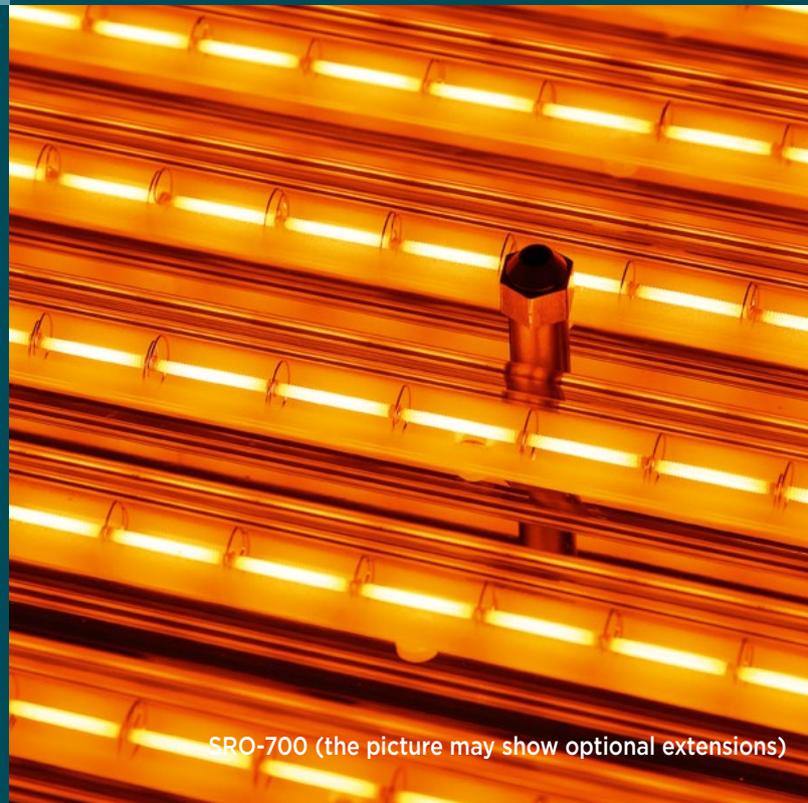


SRO-700 (the picture may show optional extensions)

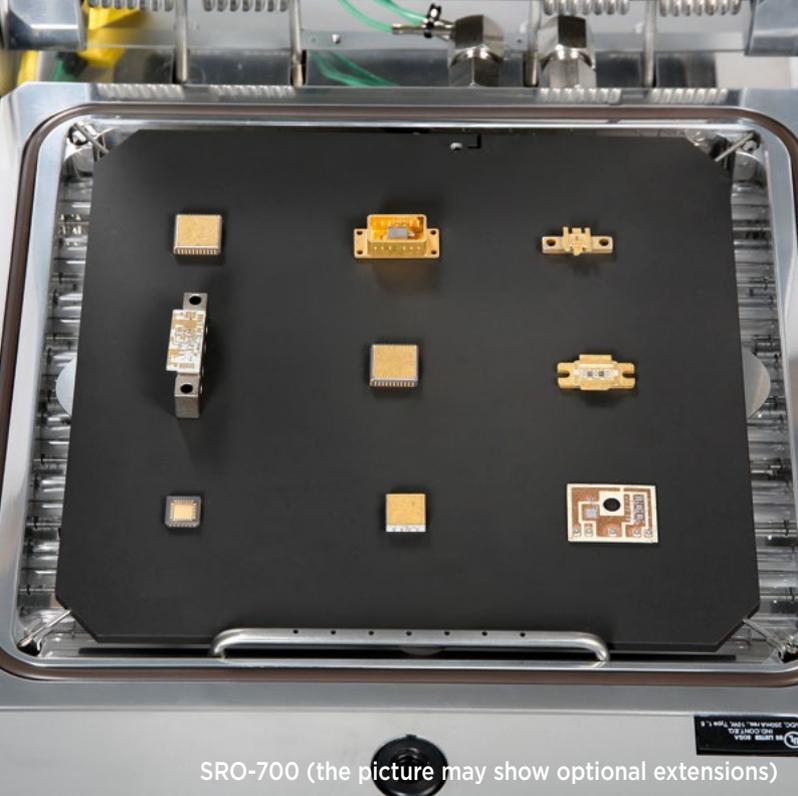
With its 100 mm clearance over the heated surface the system can handle products like IGBT and power electronics packages. The SRO-700 is an incredibly versatile reflow oven for semiconductor and MEMS application.

Just imagine creating a flux less process via a formic acid atmosphere and receiving perfect void free soldering results - again and again.

With the single chamber process approach as its core competence ATV is determined to achieve the best reflow soldering results - for the past 40 years and many years to come!



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## FEATURES

FORMIC ACID ENRICHED ATMOSPHERE

DIRECT IR HEATING

MULTIPLE TC MONITORING

PROCESS TEMPERATURE 450° C

OXYGEN < 1,0PPM WITH PURIFIED N<sub>2</sub>

100 STEPS/RECIPE PROGRAM

### Technical Data

- ▷ Footprint:  
770 x 560 x 800mm (L x W x H)
- ▷ Weight:  
65 kg (options depending)
- ▷ Chamber height: 100mm
- ▷ Heated area: 230 x 217mm
- ▷ Chamber lid opening/closing:  
Manual
- ▷ IR Heating:  
Array of 8 IR lamps in Quartz glass tubes  
(2 Heating zones)
- ▷ Power connection:  
3Ph-N-PE 230/400V, 50/60Hz
- ▷ Power: 6,5kW

### Common Applications (depending on final configuration)

- ▷ IGBT/DBC
- ▷ Power Semiconductors
- ▷ Sensors
- ▷ MEMS Devices
- ▷ DIE Attachment
- ▷ High Power LED
- ▷ Hybrid Assembly
- ▷ Flip Chip
- ▷ Package Sealing

### Options for extensions (depending on application and final configuration)

- ▷ Spring Pin Array (in chamber lid)
- ▷ Custom tailored substrate fixture
- ▷ Spring clamps on hot plate
- ▷ Lid Lock
- ▷ KF40/CF63 port on chamber lid
- ▷ low vacuum, fine vacuum,  
high vacuum
- ▷ closed loop water chiller/heater



### **ATV Headquarter Europe**

Germany, Vaterstetten/Munich

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**THERMAL  
PROCESSING**

### **ATV Technologie GmbH**

Joh.-Seb.-Bach-Str. 38  
85591 Vaterstetten  
Germany

Phone: +49 (0)8106-3050-0  
Fax: +49 (0)8106-3050-99  
e-mail: [sales@atv-tech.de](mailto:sales@atv-tech.de)  
[www.atv-tech.de](http://www.atv-tech.de)