The ICS Team provides comprehensive aftermarket support and services for any brand of atmosphere or vacuum heat-treating system.

Available as retrofits or upgrades, Ipsen can provide **hot zones, controls, and electrical and mechanical** solutions to update your equipment and keep it running for years to come.

Ipsen’s inventory of more than 10,000 **replacement parts** and components are engineered to its own OEM blueprint specifications and the most commonly used parts are ready to ship quickly so you can repair your furnace and save costly downtime.

Count on Ipsen’s extensive network of 120+ Service Technicians to provide immediate **service and technical support**.

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**Hot Zones**

As the largest hot zone manufacturer, Ipsen has designed, built and replaced thousands of hot zones. Ipsen hot zones are recognized for their quality insulation, durability and uniformity.

The ICS Team works with you to understand and evaluate your furnace and hot zone design, including your process, material, overall needs and requirements. They can make adjustments to enhance the hot zone design, or replace your existing one with a modern update.

Ipsen can provide custom designs using any combination of materials to meet special requirements or preferences. The most common design options include:

- All-metal (multiple available options with molybdenum/stainless steel being the most common)
- Molybdenum hot face/ceramic fiber
- Graphite board/felt
- Graphite felt/foil hot face
- Carbon fiber composites (CFC) or grafoil/felt

Ipsen’s standard graphite hot zones use 2” or more of graphite felt with a Carbon/Carbon or CFC hot face.
**Controls and Electrical**

**Retrofits & Upgrades**

**CompuVac® Controls Upgrade**

The most powerful system on the market provides recipe development, real-time and historical trending, preventative maintenance and diagnostics, alarm display, process cycle reporting and more.

- Allen-Bradley CompactLogix PLC
- DigiTrim® heat zone controls
- 17” panel-mounted industrial computer with a solid-state drive
- Wonderware HMI and supervisory controls
- Televac MX200 vacuum gauge assembly

**CompuCore™ Furnace Controls Upgrade**

- Allen-Bradley CompactLogix PLC
- 10” panel-mounted touchscreen computer
- Yokogawa digital video recorder

**PdMetrics® Software for Predictive Maintenance**

Integrates with critical systems to provide real-time analytics and reduce unplanned downtime

- View the health of all furnaces at all facilities for smart factory integration
- Allows users to receive urgent alerts via email and view dashboards across multiple devices

**Digital Data Recorders**

- Provide greater recording accuracy and faster operator access to historical data
- Create handwritten notes that are securely embedded in the permanent records
- Capable of meeting AMS2750 standards

**Televac MX200 Vacuum Gauge Assembly**

- Able to display up to eight sensors simultaneously
- 20-times faster sampling rate (compared to previous model)
- Capable of meeting NIST standards
### Mechanical Retrofits & Upgrades

- Replacement chambers
- Upgraded gas cooling systems
- Complete water systems
- Dry pump technology
- Custom work grids and baskets

### Atmosphere Retrofits & Upgrades

- Refractory reline
- Belt-driven fan
- Air/oil heat exchanger
- Gas train switches and valves
- Ceramics

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**And thousands more**

- Control panel upgrades
- Recon® III Burner upgrade
- Door upgrades
- Endo-generator gas assembly
Ipsen’s Service Team is the largest in the industry and can quickly arrive at your facility or provide remote technical support to service any brand of atmosphere or vacuum heat-treating equipment.

- Installation of upgrades and retrofits, including electrical, mechanical and hot zones
- Calibration and Temperature Uniformity Survey capabilities
- Preventative maintenance packages
- Engineering experts versed in design, development and hands-on troubleshooting
- Ipsen U training courses and customer-specific training in the field
- Turnkey installation, startup and support
- Furnace relocation services
- Furnace performance optimization to assist with meeting industry compliance specifications

**1-844-Go-Ipsen:** Call Ipsen’s Aftermarket Support Helpline to quickly connect with an expert for technical support, to order parts, schedule service and more
About Ipsen

Backed by 70 years of experience, it is our mission to strengthen heat treatment through expert-driven solutions. We are committed to delivering proven technology for a range of applications that enable you to transform space exploration, improve titanium medical implants and develop more efficient cars and jet engines.