



END-OF-LINE FUNCTIONAL TEST BENCH

TEST CONDENSING BOILERS WITH NO GAS OR WATER

Microplan has collaborated with major boiler manufacturers to implement *Dry Tests Technology*. This cutting-edge system cuts testing time without sacrificing quality.

The exclusive system to set gas valve operation with air is a win-win solution reducing costs AND the manufacturer's carbon footprint. Trust Microplan for accurate and repeatable results.

VALUE Proposition

| VALUE PROPOSITION | Save Money | Save Time | Save the Environment | Improve Quality | Build Customer Loyalty | Flexibility |
|---|------------|-----------|----------------------|-----------------|------------------------|-------------|
| Test without water and gas | ✓ | | ✓ | | | |
| Test faster with less effort | ✓ | ✓ | | | | |
| Reduce carbon footprint | | | ✓ | | ✓ | |
| Virtually eliminate human errors | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Accurate and repeatable | | | | ✓ | ✓ | |
| Parallel tests | ✓ | ✓ | | | | ✓ |
| Modify/create test sequences – flexibility | ✓ | | | ✓ | | ✓ |
| Centralize test data storage | | ✓ | | ✓ | | ✓ |
| Standardize software across your organization | ✓ | ✓ | | | | ✓ |
| Remote support | ✓ | ✓ | ✓ | | | ✓ |

| Feature | Benefit |
|---|--|
| • Compact Layout | Minimize real estate requirement on factory floor |
| • Automatic Test Execution | Follows pre-set test sequence with minimal operator interaction |
| • Customizable Design | Adapt the component configuration and software to customer's needs |
| • Traceable Information | All test data and results are stored in an onboard database. Can be downloaded to customer's server. |
| • Help Files | Clear and consistent instructions for efficient repeatable results |
| • Easy Operator Interface | Easy operation without wasted motion. Efficient and ergonomic layout of test bench controls. |
| • Integration with Appliance Controller | Access sensor input and controller output. Compare results with test bench sensors to assure correct operation |
| • Automatic Adjustments: Air/Fuel | Simplify boiler end-of-line fine-tuning and reduce required intervention |
| • Electrical safety tests | Dielectric withstand, insulation integrity and ground continuity |
| • Customize Instruction Language & Messages | Easy to access dialog boxes allow technicians to update instruction language and messages. |
| • Communication with Assembly Line | Allows integration with customer's manufacturing process. |
| • Scan Critical Components | Link model numbers and/or serial numbers to the product serial number for full traceability. |
| • Save Test Results | Stored in a database for traceability and analysis. |
| • Onboard Diagnostics | Allows analysis of operational issues for quick resolution, avoiding down time. |
| • Hydraulic Circuit Pressure Tests | Quickly assure integrity of gas and water circuits |
| • Analyze 3-way Valve Operation | Assure proper operation of 3-way valve on the boiler being tested |
| • Analyze Circulator Operation | Evaluates on/off or variable speed circulator operation |
| • Controller Programming | Reduced required inventory by programming product and model specific parameters at final test |

***Specifications subject to change without notice**

Microplan S.r.l.

Via Andrea Doria 2
37066 Sommacampagna (VR)
Italy

Phone: +39 045 896 1658
Fax: +39 045 896 1662

Email: sales@microplan.it
Website: www.microplan.it



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