

# SUPERCritical CPD MEMS DRYER FOR 4" WAFERS

## AUTOSAMDRI<sup>®</sup>-815B, SERIES B

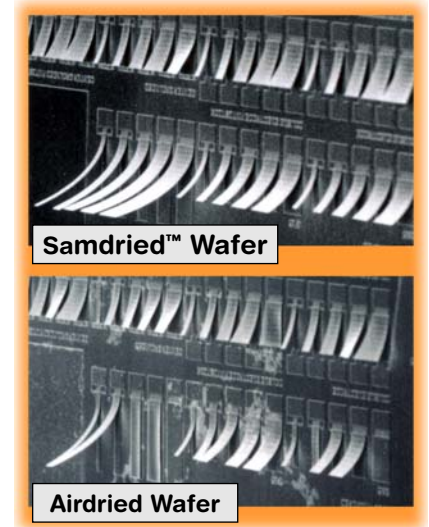
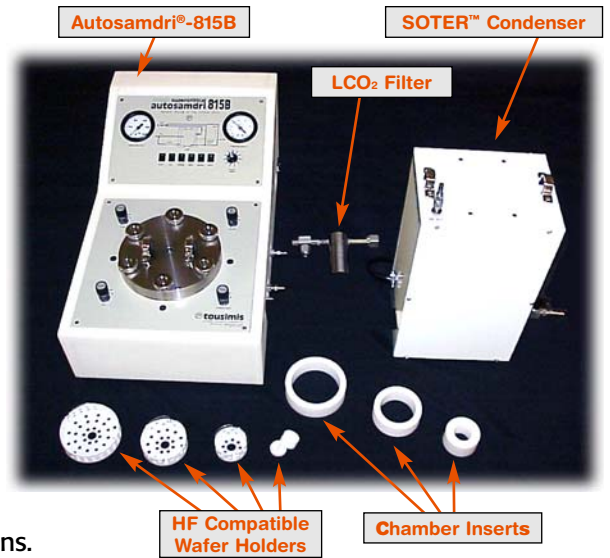
tousimis<sup>®</sup>



- The Supercritical **Autosamdri<sup>®</sup>-815B, Series B** System was developed by Dr. A.J. Tousimis and our team of long-standing associates within the tousimis<sup>®</sup> SAMDRI design group.
- Smooth operation and precise control are the Supercritical **Autosamdri<sup>®</sup>-815B's** trademark; wafer holders and inserts are provided that allow anti-stiction processing up to 5 pieces of either 4", 3", 2" wafers or 10mm square die per process run!

## FEATURES

- Microprocessor controller allows for complete automatic processing.\*
- All internal surfaces are inert to CO<sub>2</sub> and ultrapure alcohols.\*
- Repeatable operating parameters insuring reproducibility of results.\*
- Integrated temperature controls.\*
- Internal rupture disc built in for safety. \*
- Processes up to 5 x 4" diam. wafers per run; comes with additional HF compatible wafer holders to process 5 x 3", 5 x 2" diameter wafers or 5 x 10mm square die (tousimis® HF compatible Wafer Holders\* can be used to transport and process your wafers and die from HF).
- All electronic components meet CE, UL and/or U.S. Military Specifications.
- Static pressure control module pre-set for automatic safe pressure stability.
- 0.4µm internal filtration system delivers clean filtered LCO<sub>2</sub> to process chamber. \*
- Under-lit chamber with viewing window facilitates operator chamber status viewing.
- An efficient adiabatic cooling system\*, capable of cooling the chamber from ambient room temperature to near 0°C, in less than 3 minutes and maintains temperature automatically during both FILL and PURGE modes.\*
- LED's instantly indicate process mode at a glance.\*
- Clean room static-free compatible design.
- For added safety and convenience, the U.S. Patented SOTER™ condenser\* quietly captures exhaust and alcohols.
- Unique chamber inserts\* allow variance of chamber I.D. This maximizes efficiency in LCO<sub>2</sub> consumption and processing time.
- On-site Start-up and User(s) Training by a qualified tousimis® technician included.<sup>1</sup>



## SPECIFICATIONS

- Cabinet: 14.25" (36.2cm) Width x 11.75" (29.8cm) Height x 25" (63.5cm) Length
- System Set-Up Area Required: 42" (107cm) Width x 30" (76cm) Depth
- Chamber size: 4.50" I.D. x 1.25" depth Chamber volume: 326 ml
- Temperature gauge range: -30°C to 60°C, Pressure gauge range: 0 to 2,000psi
- 120V/50-60Hz (Other voltage units also available. Please Inquire)
- LCO<sub>2</sub> flow is controlled through Micro Metering Valves with Vernier handles for easily controlled flow rates.\*

- LCO<sub>2</sub> High Pressure braided stainless steel inert Teflon® lined hose. 10ft (~ 3m) long for clean room operation (at a nominal charge, other lengths available upon request).
- LCO<sub>2</sub> External Filter Combination Assembly (#8784) for water/oil/particulates (down to 0.5µm) pre-installed onto the chamber supply LCO<sub>2</sub> high-pressure hose.
- New SOTER™ Condenser\* connects to exhaust hose. Captures all alcohol and deadens exhaust noise.\*
- Static free Exhaust Tubing for all exhaust outlets.
- Internal stainless and nickel scintered filtration systems incorporated to protect lines, wafers, and valves down to 0.4µm.
- Spare Chamber O-ring (3), Chamber Lamps (2), and 5A Slo-Blow Fuses (2).
- 3 Chamber Inserts.\* Enables original chamber ID reduction down to smaller chamber ID sizes for a range including: 4", 3", 2", and 1.25" !
- 4", 3", 2" diameter Wafer Holders and 10mm square Die Holder included. Holders are HF compatible and can hold up to 5 wafers or die each.
- Free lifetime technical support consultation by our scientific staff.
- 2 year warranty on all parts and labor.

<sup>1</sup> Available for most countries. Contact tousimis® for details.

\* Most Autosamdri® feature U.S. patents (# 6,493,964, #6,678,968) or patents pending.

**Note:** Actual delivered model or accessories may vary slightly, as advancements are being constantly applied.

## OPTIONAL ACCESSORIES

Catalog #	Description
8760-02	Knurl Nut for Autosamdri®-815B
8760-40	5 AMP Fuse
8770-10	Lamp, 120/60Hz volt
8770-32	High Pressure Hose, 5 ft
8770-33	High Pressure Hose, 10 ft
8770-HPS	High Pressure Hose, Custom Length Up To 10m (33ft)
8784	LCO <sub>2</sub> Filter Housing for 8784A Filter Element
8784A	Replacement LCO <sub>2</sub> Filter Element for 8784 Filter Housing
8784B	O-Ring for 8784 Filter Housing Seal
8784-05	Gasket for LCO <sub>2</sub> Tank Connect
8783	LCO <sub>2</sub> Filter Adapter Kit
8770-51T/815B	Teflon® O-Ring for Autosamdri®-815B
8770-51T/815B-BR	Backing Ring for tousimis® Autosamdri®-815B
8770-53	Power Cable, three prong, 120V/60Hz
8770-54	LCO <sub>2</sub> Tank Scale, w/ Remote LCD Display (400lb capacity)
8770-55	LCO <sub>2</sub> Tank Heater
8770-56A	Step-Down Transformer, 220V → 110V
8770-57A	Step-Up Transformer, 100V → 120V
8770-60	Chamber Lid for tousimis Autosamdri®-815B, Series B
8770-83A	Internal 0.5µm 316SS Particulate Line Filter
8770-83B	0.5µm Particulate Filter Element for LCO <sub>2</sub> T-Filter or External Purge Line Filter
8768B	HF Compatible Wafer Holder for 4" Diameter Wafers
8768C	HF Compatible Wafer Holder for 3" Diameter Wafers
8768D	HF Compatible Wafer Holder for 2" Diameter Wafers
8768G	HF Compatible Wafer Holder for 1" Diameter Wafers
8768E	HF Compatible Chip Holder for 5 x 10mm Square Die

Visit [tousimis.com](http://tousimis.com) for more information.