

**NEW**

# SUPERCritical CPD MEMS DRYER FOR 8" WAFERS **AUTOMEGASAMDRI®-916B, SERIES C**

*UNPARALLELED VERSATILITY AND LOW LCO<sub>2</sub> CONSUMPTION*

**tousimis**  




• The New Supercritical Automegasamdri®-916B, Series C System was developed by Dr. A. J. Tousimis and our team of long-standing associates within the tousimis® SAMDRI design group.

• Smooth operation and precise control are the Supercritical Automegasamdri®-916B's trademark; wafer holders and inserts are provided that allow flexible CPD processing of 8", 6", 4", 3", 2" wafers as well as 10mm square die.

**SUPERCritical Automegasamdri®-916B, Series C**  
**Catalog# 8786D (Process Various Wafer Sizes up to 8in)**

- 40% Less LCO<sub>2</sub> Consumption.<sup>1</sup>
- Process up to 5 wafers in Less than 1 hour.
- All inclusive Small Foot Print design.
- Minimal installation Site Preparation required.
- On Site Start-Up and User Training included.<sup>2</sup>

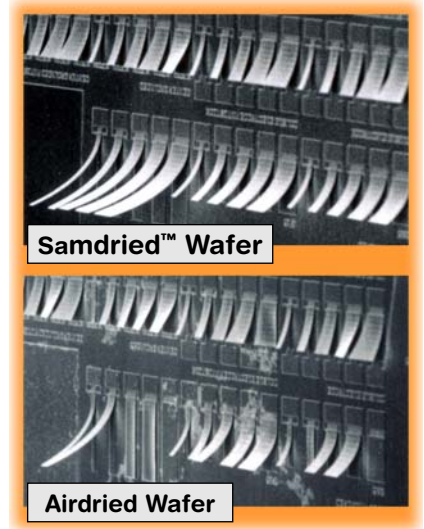


## FEATURES

- High efficiency internal closed loop refrigeration.\* (22°C to operational in less than 5 minutes)!
- Post-Purge-Filter easily accessible for maintenance ease.\*
- The patented internal SOTER™ condenser\* quietly captures and separates CO<sub>2</sub> exhaust and waste alcohols.
- Unique chamber inserts\* enable variance of chamber I.D. maximizing efficiency in LCO<sub>2</sub> consumption, process time, and providing multiple size wafer process capability!
- Process up to 5 x 8" wafers per process run. Also comes with additional HF Compatible Wafer Holders\* to process 5 x 6", 5 x 4", 5 x 3", 5 x 2" diameter wafers or 5 x 10mm square die (tousimis® HF compatible Wafer Holders\* may be used to etch and process your wafers minimizing handling).
- Chamber illumination with viewing window facilitates chamber status visualization.\*
- Microprocessor controller allows for completely automatic processing.\*
- All internal surfaces are inert to CO<sub>2</sub> and ultrapure alcohols.
- Repeatable operating parameters insuring "reproducibility" of results.
- Static pressure control module helps insure automatic safe pressure stability.
- Internal filtration system delivers clean LCO<sub>2</sub> into process chamber down to 0.4µm.
- Control panel LED's instantly indicate process mode at a glance.
- Clean room static-free compatible design.
- All electronic components meet CE, UL and/or U.S. Military Specifications.

## SPECIFICATIONS

- Cabinet: 21" (53.3cm) Width x 34" (86.4cm) Depth x 45" (114.3cm) Height
- System Set-Up Area Footprint: 27" (68.6cm) Width x 38" (96.5cm) Depth
- Chamber size: 8.50" I.D. x 1.25" Depth / Chamber volume: 1162 ml
- Temperature gauge range: -30°C to 60°C, Pressure gauge range: 0 to 2,000 psi
- 120V / 50-60Hz (Other voltage units also available. Please Inquire)
- LCO<sub>2</sub> flow is precisely controlled through Micro Metering Valves with Vernier handles for adjustment ease.\*



- 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 combination filter assembly (#8784) for water/oil/particulates (down to 0.5µm) pre-installed onto the chamber LCO<sub>2</sub> supply high-pressure hose.
- Tool set included for connecting LCO<sub>2</sub> chamber supply line
- 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-rings (3), chamber lamps (2), and slo-blow fuses (2x3A and 2x8A).
- Complete wafer size process flexibility! 5 chamber inserts\* enable 8.5" chamber I.D. reduction down to smaller chamber I.D. sizes for processing wafers and die from a range including: 8", 6", 4", 3", 2", and 1.25" ! Allows for multiple wafer size drying.
- 8", 6", 4", 3", 2" diameter wafer holders and 10mm square die holders included. Holders are HF compatible and can hold up to 5 wafers or die each.
- 2 year warranty on all parts and labor. Free lifetime technical support consultations by our scientific staff.

<sup>1</sup> Compared with tousimis Automegasamdri®-916B, Series B

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

<sup>2</sup> Available for most countries. Contact tousimis for details.

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

## OPTIONAL ACCESSORIES

Catalog #	Description
8760-03	Knurl Nut for Automegasamdri®-916B, Series C
8760-41	3 AMP Fuse for Automegasamdri®-916B, Series C
8760-42	8 AMP Fuse for Automegasamdri®-916B, Series C
8770-10	Lamp, 120V/60Hz
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)
8770-48	Flow Meter- Use with Automegasamdri®-916B (180SCFH)
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/916B	Teflon® O-Ring for Automegasamdri®-916B
8770-51T/916B-BR	Backing Ring for tousimis® Automegasamdri®-916B
8770-54	LCO <sub>2</sub> Tank Scale, w/ Remote LCD Display (400lb capacity)
8770-55	LCO <sub>2</sub> Tank Heater
8770-56	Step-Down Transformer, 220V → 110V
8770-57	Step-Up Transformer, 100V → 120V
8770-80	Chamber Lid for tousimis Automegasamdri®-916B
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
8785-47A	HC-50 Chiller Fluid
8768H	HF Compatible Wafer Holder for 8" Diameter Wafers
8768A	HF Compatible Wafer Holder for 6" Diameter Wafers
8768F	HF Compatible Wafer Holder for 5" Diameter Wafers
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.**

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