

SUPERCritical CPD MEMS DRYER FOR 6" (150mm) WAFERS **AUTOMEGASAMDRI®-915B, SERIES B**

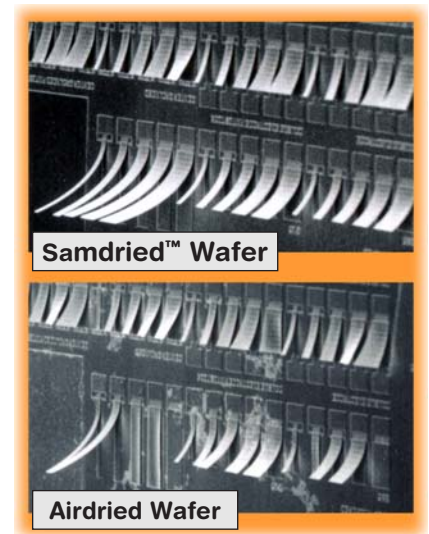
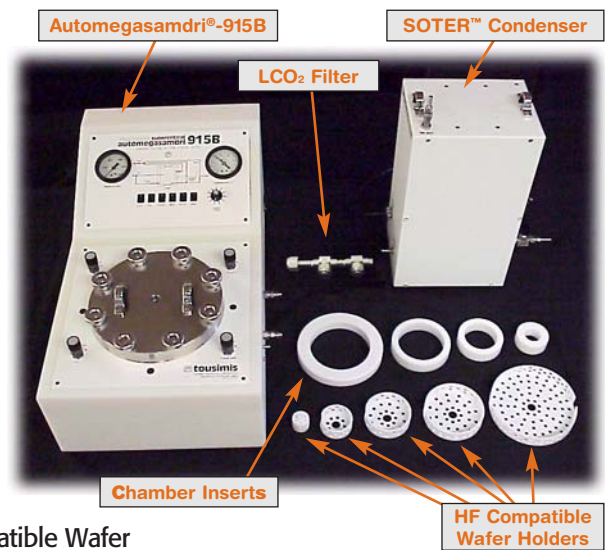
tousimis




- The Supercritical **Automegasamdri®-915B, Series B** 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®-915B's** trademark; wafer holders and inserts are provided that allow anti-stiction processing up to 5 pieces of either 6", 4", 3", 2" wafers or 10mm square die per process run!

FEATURES

- Clean room static-free compatible design.
- Microprocessor controller allows for complete automatic processing.*
- All internal surfaces are inert to CO₂ and ultrapure alcohols.*
- Repeatable operating parameters insuring reproducibility of results.*
- LED's instantly indicate process mode at a glance.*
- Integrated temperature controls.*
- Processes up to 5 x 6" (150mm) diam. wafers per run; comes with additional HF compatible wafer holders to process 5 x 4" (100mm), 5 x 3" (75mm), 5 x 2" (50mm) 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.
- Internal rupture disc built in for safety.*
- Static pressure control module pre-set for automatic safe pressure stability.
- An efficient adiabatic cooling system*, capable of cooling the chamber from ambient room temperature to near 0°C, in less than 3 minutes, maintains temperature automatically during both FILL and PURGE modes.*
- For added safety and convenience, U.S. Patented SOTER™ Condenser* quietly captures exhaust and alcohols.
- Under-lit chamber with viewing window facilitates operator chamber status viewing.
- 0.08µm internal filtration system delivers clean filtered LCO₂ to process chamber.*
- Unique chamber inserts* allow variance of chamber I.D. This maximizes efficiency in LCO₂ consumption and processing time.
- On-site Start-up and User(s) Training by a qualified tousimis® technician included.**



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: 6.50" I.D. x 1.25" Depth. Chamber Volume: 679 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)
- LCO₂ flow is controlled through Micro Metering Valves with Vernier handles for easily controlled flow rates.*

STANDARD ACCESSORIES

- LCO₂ 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).
- Double T-Filter Assembly (#8785) pre-installed onto the chamber LCO₂ supply high-pressure hose. Flows LCO₂ twice thru 0.5 µm filters with 99.5% particulate retention prior to LCO₂ entering Automegasamdri®-915B.
- 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 Lamp (1), and 5A Slo-Blow Fuses (2).
- 4 Chamber Inserts.* Enables original chamber ID reduction down to smaller chamber ID sizes for a range including: 6", 4", 3", 2", and 1.25" !
- 6" (150mm), 4" (100mm), 3" (75mm), 2" (50mm) diameter Wafer Holders and 10mm square die holders 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.

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

** Available for most countries. Contact tousimis® for details.

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

SUPERCritical CPD MEMS DRYER FOR 4" (100mm) WAFERS **AUTOSAMDRI®-815B, SERIES B**

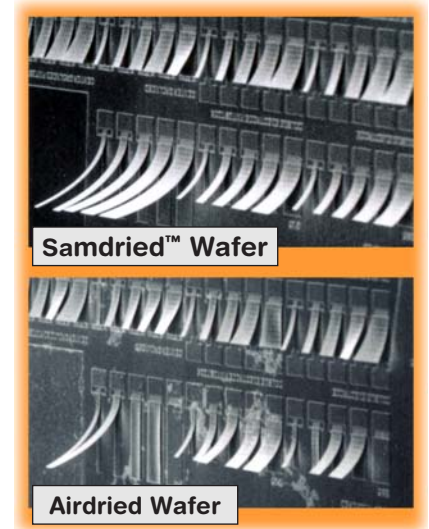
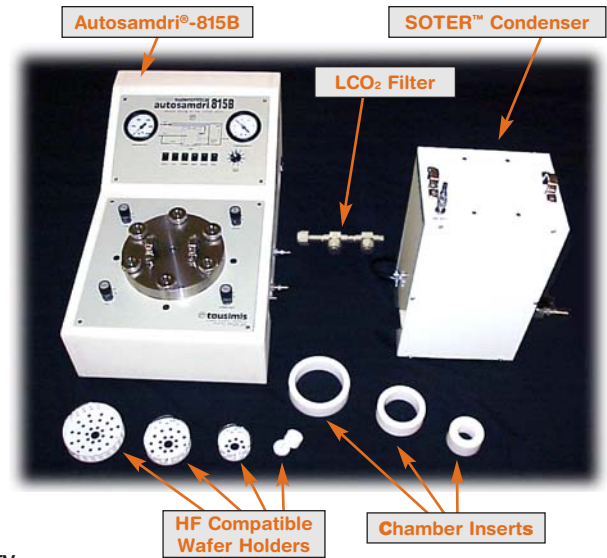
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- Smooth operation and precise control are the Supercritical **Autosamdri®-815B's** trademark; wafer holders and inserts are provided that allow anti-stiction processing up to 5 pieces of either 4", 3", 2" wafers or 10mm square die per process run!

FEATURES

- Microprocessor controller allows for complete automatic processing.*
- All internal surfaces are inert to CO₂ 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" (100mm) diam. wafers per run; comes with additional HF compatible wafer holders to process 5 x 3" (75mm), 5 x 2" (50mm) 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.
- 0.08µm internal filtration system delivers clean filtered LCO₂ 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 LCO₂ consumption and processing time.
- On-site Start-up and User(s) Training by a qualified tousimis® technician included.¹



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)
- LCO₂ flow is controlled through Micro Metering Valves with Vernier handles for easily controlled flow rates.*

STANDARD ACCESSORIES

- LCO₂ 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).
- Double T-Filter Assembly (#8785) pre-installed onto the chamber LCO₂ supply high-pressure hose. Flows LCO₂ twice thru 0.5 µm filters with 99.5% particulate retention prior to LCO₂ entering Autosamdri®-815B.
- 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 Lamp (1), 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" (100mm), 3" (75mm), 2" (50mm) 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.

¹ Available for most countries. Contact tousimis® for details.

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

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SUPERCritical CPD MEMS DRYER FOR DIE & 1" (25mm) WAFERS

AUTOSAMDRI[®]-815, SERIES B

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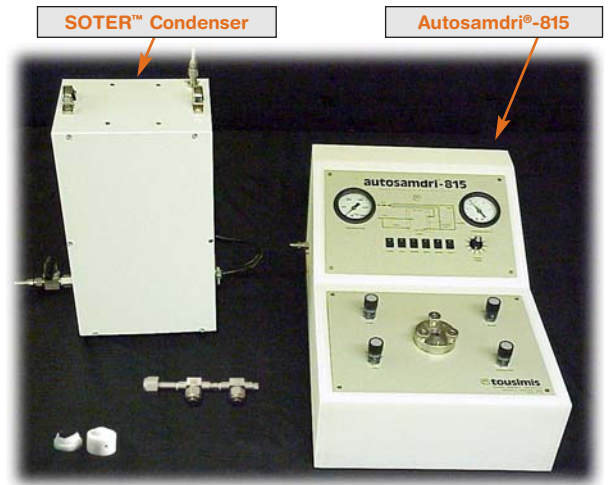


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- Smooth operation and precise control are the Supercritical **Autosamdri[®]-815's** trademark; allowing anti-stiction processing of 10mm square die as well as 1" wafers.

FEATURES

- Microprocessor* controller allows for complete automatic processing.
- Electromagnetic valves and seals inert to LCO₂, alcohols and acetone.
- Internal surfaces inert to CO₂, ultrapure alcohols and acetone.
- Repeatable operating parameters insuring reproducibility of results.
- Process up to 5 x 10mm square die or 5 x 1" (25mm) diameter wafers with every run! (tousimis® HF compatible Wafer/Die Holders* are used to transport and process your MEMS devices minimizing handling).
- Integrated temperature controls.*
- Internal rupture disc built in for safety.
- LED's instantly indicate process mode at a glance.*
- Clean room static-free compatible design.
- Complete advanced solid state reliable electronics.
- Efficient adiabatic cooling system*; cool Process Chamber from room temperature to operational temperature in less than 90 seconds!
- All electronic components meet CE, UL and/or U.S. Military Specifications.
- Static pressure control module pre-set for automatic safe pressure stability.
- 0.08µm internal filtration system delivers clean filtered LCO₂ to process chamber. *
- Under-lit chamber with viewing window facilitates operator chamber status viewing.
- Vernier Handle Meter Valves allow for repeatable precision flow control.
- SOTER™ Condenser* connects to Autosamdri®-815, Series B (SOTER™ Condenser quietly separates waste alcohol from exhaust CO₂).

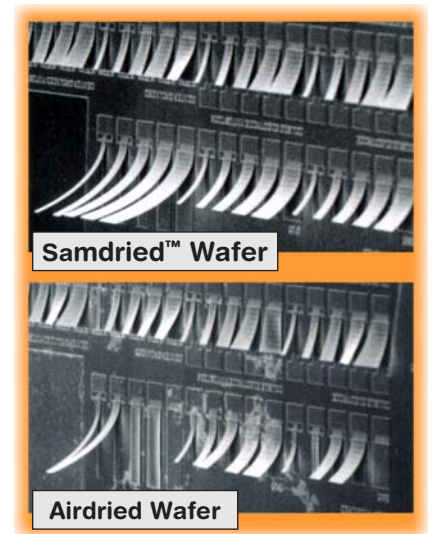


SPECIFICATIONS

- Cabinet: 14.0" (35.6cm) Width x 10.25" (26.0cm) Height x 21.5" (54.6cm) Length
- System Set-Up Area Required: 36" (92cm) Width x 30" (76cm) Depth
- Chamber size: 1.25" I.D. x 1.25" Depth, Chamber volume: 25 ml
- Temperature gauge range: -30°C to 60°C
- Pressure gauge range: 0 to 2,000 psi
- Purge Timer Range: 0 - 45 minutes
- 120V/50-60Hz (Other voltage units also available. Please Inquire)

STANDARD ACCESSORIES

- LCO₂ 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).
- Double T-Filter Assembly (#8785) pre-installed onto the chamber LCO₂ supply high-pressure hose. Flows LCO₂ twice thru 0.5 µm filters with 99.5% particulate retention prior to LCO₂ entering Autosamdri®-815.
- SOTER™ Condenser* connects to Autosamdri®-815, Series B. 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.
- 20 SCFH Flow Meter enables periodic BLEED rate measurement for exact pressure decompression.
- Spare Chamber O-ring (2), Chamber Lamp (1), and 5A Slo-Blow Fuses (2).
- 10mm Square HF Compatible Chip Holder* included. This holder can load up to 5 die per process run.
- Installation Tool Kit included.
- Free lifetime technical support consultation by our scientific staff.
- 2 year warranty on all parts and labor.



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