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AUTOFLOW



CO_2 INCUBATORS

NUAIRE

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The Perfect Choice for Your Unique Application


NU-8500


NU-8700


NU-4750


NU-5500

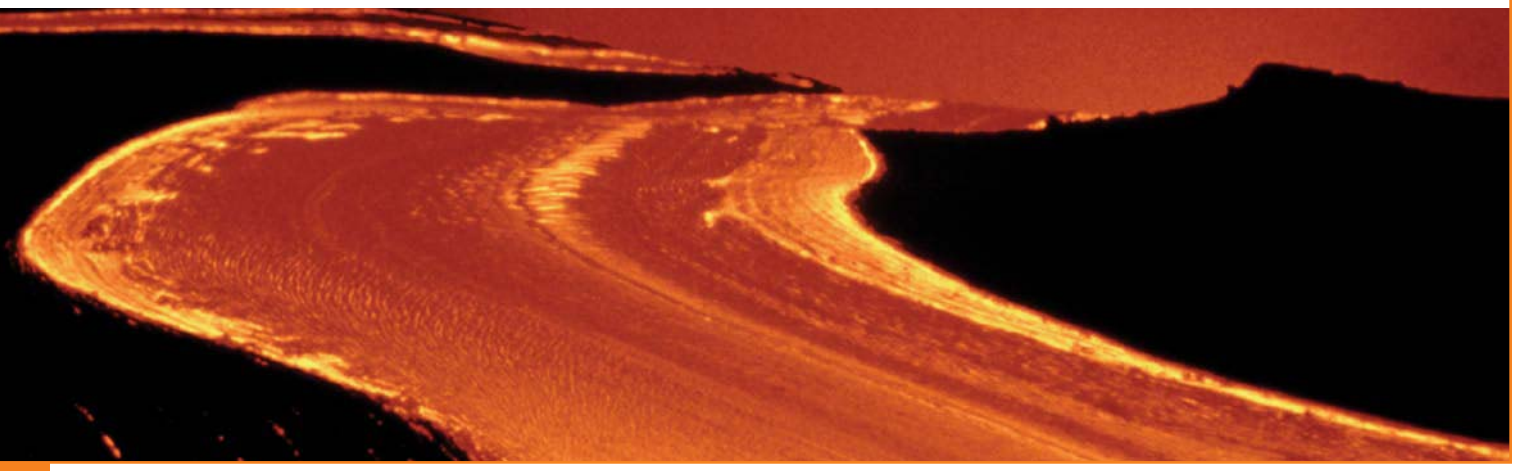

NU-5510


NU-5100

	Model	Electronic Control System	Gas Control System	Temperature Control System	Humidity Control System	HEPA Filtration System	Configuration System
IR AutoFlow	NU-8500, NU-8700	Microprocessor	CO_2-Infrared	Water-Jacketed	Convection[6]	Air/Gas[4]	Single[3] Over-Under Double
US AutoFlow	NU-4750, NU-4850, NU-4950	Microprocessor	CO_2-Infrared[1] O_2 Fuel Cell[9]	Water-Jacketed	Convection[6] Sensor[2,8]	Air/Gas[4]	Single
DH AutoFlow	NU-5500	Microprocessor	CO_2-Infrared	Direct Heat	Convection[6]	Air/Gas[7]	Single[3]
DHD AutoFlow	NU-5510	Microprocessor	CO_2-Infrared	Direct Heat with Sterilization Cycle	Convection[6]	Air/Gas[7]	Single[3]
TC PureCell	NU-5100	Microprocessor	CO_2-Thermo-Conductivity	Direct Heat	Convection[6]	Air/Gas[7]	Single[3]

1] 2 or 3 gas control system
2] Monitors actual chamber humidity. Alarms in low humidity condition indicating that water reservoir requires filling
3] Right or left hand door swing – factory ordered
4] Internal recirculation system to ISO Class 5 clean air within 30 minutes
5] Right or left hand door swing – field reversible
6] Humidity pan (relative humidity to 95%)
7] Internal recirculation system to class 100 within 1 minute
8] Humidity control w / NU-4850, NU-4950
9] O_2 / N_2 control w / NU-4950
+ options

Registered to: ISO 9001:2000
ISO 13485:2003



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- **The Sensitivity and Accuracy of Gas Control**
  The AutoFlow incubators use a microprocessor-based, non-dispersive, digital solid-state infrared [IR] CO_2 sensor. This advanced design provides a very stable, drift-free output requiring less frequent calibrations.

- **The Precision of Electronic Microprocessor Controls**
  AutoFlow incubators are run by a programmable microcontroller that samples input sensors, sets control outputs, and makes necessary corrections to the chamber environment. AutoFlow incubators provide quick and responsive recovery times.

- **The Long-Term Reliability and Protection of Automated and Redundant Back-Up Systems**
  AutoFlow incubators provide dual sensor probes where appropriate, solid-state analyzers, multiple HEPA filtration systems, and the status alarms / outputs create a dependable, long-lasting scientific instrument.

- **The Flexibility of Available Options and Add-On Expansion Built into the System**
  Additional shelves, RS-232 communication output, inner Lexan® doors, multi-signal analog outputs, tank switches, chart recorders, and moveable platforms are just a few of the available options and accessories.



Constant Contamination Control

- Unique HEPA Filter System
  - Filters Fresh Air Into the Pump
  - Filters CO_2 Gas from Tanks or House Systems
  - Filters Internal Chamber Continuously to ISO Class 5 Air Quality
  - Filters IR CO_2 Sensor Sample Air Returning to Chamber
  - Filters Air Between Air Pump and Inner Chamber
- Interior Chamber is Constantly Maintained at Positive Pressure Similar to an ISO Class 5 Cleanroom
- Dual Sterilization Cycle (DHD AutoFlow NU-5510 Only)
  - 95°C Humidified Decontamination
  - 145°C Dry Sterilization Cycle

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NU-8700 / NU-8500

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IR AutoFlow 8000 Series CO_2 Water-Jacketed Incubators

Specifications

Model	Chamber Volume (Ft.³ / Liters)	Electrical*	Chamber Dimensions (W x H x D)	Exterior Dimensions (W x H x D)	Weight
NU-8500	6.64 / 188	115 VAC / 60 Hz	21.5 x 25.5 x 21 in.	25.5 x 40.5 x 27 in.	**Dry:** 218 lbs. / 99 kg
		D: 100 VAC / 50-60 Hz	546 x 647 x 535 mm	648 x 1029 x 686 mm	**Full H_2O Jacket:** 385 lbs. / 175 kg
		E: 230 VAC / 50-60 Hz			**Shipping:** 287 lbs. / 130 kg
		G: 220 VAC / 50-60 Hz			
NU-8700	13.28 / 376	115 VAC / 60 Hz	21.5 x 25.5 x 21 in.	25.5 x 73.5 x 27 in.	**Dry:** 492 lbs. / 224 kg
		D: 100 VAC / 50-60 Hz	546 x 647 x 535 mm	648 x 1867 x 686 mm	**Full H_2O Jacket:** 826 lbs. / 375 kg
		E: 230 VAC / 50-60 Hz			**Shipping:** 561 lbs. / 255 kg
		G: 220 VAC / 50-60 Hz			

*Specify NU-8500 / 8700, NU-8500D / 8700D, NU-8500E / 8700E, or NU-8500G / 8700G

Features

Standard Features

- 100% Stainless Steel Coved Interior Chamber
- 20 gal. / 75.7 L Capacity Water Jacket
- Removable Stainless Steel Shelves (4) [21 maximum] 19.25 in.² [489 mm²]
- Remote Alarm Output Contacts
- CO_2 Sample Port
- Water Level Sensor
- Adjustable Leg Levelers
- Access Port
- Fill Port and Drain Valve
- NuAire Incubator Control Electronics
- Full Size Water Pan (6.75 L)
- 8 ft. / 2.5 m Electrical Cord

Optional Features

- Automatic CO_2 Tank Switch
- Communications Interface (RS-232)
- Internal Coil for Chilled Water
- Multi-Signal Analog Outputs: 0-5 VDC, 0-10 VDC, 4-20 mA
- 4 Inner Lexan® Doors
- Humidity Display (RH)

Temperature Control System

- **Default Set Point:** 37˚C
- **Chamber Temperature Range:** 18˚C to 55˚C (5˚C Above Ambient to 30˚C Ambient Max)
- **Chamber Temperature Uniformity:** ± 0.2˚C at 37˚C
- **Temperature Sensitivity:** ± 0.0125˚C

Electrical Requirements

Model NU-8500:
115 VAC / 60 Hz
Startup Power: 625 Watts
Running Power: 250 Watts
Heat Rejected: 14 BTU/min.
[Other electrical voltages available.]

Model NU-8700:
115 VAC / 60 Hz
Startup Power: 1250 Watts
Running Power: 500 Watts
Heat Rejected: 28 BTU/min.
[Other electrical voltages available.]

CO_2 Control System

- **Default Set Point:** 5%
- **CO_2 Range:** 0% to 20%
- **CO_2 Accuracy:** ± 0.1%
- **CO_2 Recovery:** 5.0± 0.2% Within 3.5 Minutes
- **CO_2 Sensor Type:** Non-dispersive Digital Infrared CO_2 Sensor

Utility Connections

- **Gas Connections:** .25" (6.3 mm) Tubing Connections
- **Gas Input Pressure:** 20 PSIG (1.4 BAR) Input Pressures Maximum. Two-stage Gas Regulators Required.



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NU-4750 NU-4850 NU-4950

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US AutoFlow 4000 Series CO_2 Water-Jacketed Incubators

Specifications

Model	Chamber Volume (Ft.³ / Liters)	Electrical*	Chamber Dimensions (W x H x D)	Exterior Dimensions (W x H x D)	Weight
NU-4750	6.64 / 188	115 VAC / 60 Hz	21.5 x 25.5 x 21 in.	31.0 x 34.0 x 25.5 in.	**Dry:** 222 lbs. / 101 kg
		D: 100 VAC / 50-60 Hz	546 x 647 x 535 mm	787 x 864 x 648 mm	**Full H_2O Jacket / RH system:** 392 lbs. / 178 kg
		E: 230 VAC / 50-60 Hz			**Shipping:** 291 lbs. / 132 kg
		G: 220 VAC / 50-60 Hz			
NU-4850	6.64 / 188	115 VAC / 60 Hz	21.5 x 25.5 x 21 in.	31.0 x 34.0 x 25.5 in.	**Dry:** 232 lbs. / 105 kg
		D: 100 VAC / 50-60 Hz	546 x 647 x 535 mm	787 x 864 x 648 mm	**Full H_2O Jacket / RH system:** 412 lbs. / 188 kg
		E: 230 VAC / 50-60 Hz			**Shipping:** 301 lbs. / 137 kg
		G: 220 VAC / 50-60 Hz			
NU-4950	6.64 / 188	115 VAC / 60 Hz	21.5 x 25.5 x 21 in.	31.0 x 34.0 x 25.5 in.	**Dry:** 232 lbs. / 105 kg
		D: 100 VAC / 50-60 Hz	546 x 647 x 535 mm	787 x 864 x 648 mm	**Full H_2O Jacket / RH system:** 412 lbs. / 188 kg
		E: 230 VAC / 50-60 Hz			**Shipping:** 301 lbs. / 137 kg
		G: 220 VAC / 50-60 Hz			

*Specify NU-4750, 4850, 4950 / NU-4750D, 4850D, 4950D / NU-4750E, 4850E, 4950E / NU-4750G, 4850G, 4950G

Features

Standard Features

- 100% Stainless Steel Coved Interior Chamber
- 20 gal. / 75.7 L Capacity Water Jacket
- Removable Stainless Steel Shelves (4) [21 maximum] 19.25 in.² [489 mm²]
- Remote Alarm Output Contacts
- CO_2 Sample Port
- Water Level Sensor
- Adjustable Leg Levelers
- Access Port
- Fill Port and Drain Valve
- NuAire Incubator Control Electronics
- Full Size Water Pan (6.75 L)
- 8 ft. / 2.5 m Electrical Cord

Optional Features

- Automatic CO_2 Tank Switch
- Communications Interface (RS-232)
- Internal Coil for Chilled Water
- Multi-Signal Analog Outputs: 0-5 VDC, 0-10 VDC, 4-20 mA
- 4 Inner Lexan® Doors
- Humidity Display (RH) and control (NU-4850 and NU-4950)
- O_2 Control System (NU-4950)

Temperature Control System

Default Set Point: 37˚C

Chamber Temperature Range: 18˚C to 55˚C (5˚C Above Ambient to 30˚C Ambient Max)

Chamber Temperature Uniformity: ± 0.2˚C at 37˚C

Temperature Sensitivity: ± 0.0125˚C

Electrical Requirements

115 VAC / 60 Hz
Startup Power: 625 watts
Running Power: 250 watts, 60 Hz
Heat Rejected: 14 BTU/min.
[Other electrical voltages available.]

Utility Connections

Gas Connections: .25" (6.3 mm) Tubing Connections

Gas Input Pressure: 20 PSIG (1.4 BAR) Input Pressures Maximum. Two-stage Gas Regulators Required.

CO_2 Control Systems

CO_2 (NU-4750 / 4850 / 4950)

Default Set Point: 5%

CO_2 Range: 0 to 20%

CO_2 Accuracy: ± 0.1%

CO_2 Recovery: 5.0± 0.2% Within 3.5 Minutes

CO_2 Sensor Type: Non-dispersive Digital Infrared CO_2 Sensor

RH (NU-4850 / 4950)

Default Set-Point: 90%

RH Range: 5% Above Ambient to 95%

RH Accuracy: ± 3%

RH Recovery: 95% ± 3%: Ten Minutes

O_2 (NU-4950)

Default Set-Point: 21%

O_2 Range: 2 to 21%

O_2 Accuracy: ± 1.0%

O_2 Recovery: 5% ± 2%: Ten Minutes Average

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AUTOFLOW



NU-5500

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Specifications

Model	Chamber Volume (Ft.³ / Liters)	Electrical*	Chamber Dimensions (W x H x D)	Exterior Dimensions (W x H x D)	Weight
NU-5500	6.64 / 188	115 VAC / 60 Hz	21.5 x 25.5 x 21.0 in.	25.5 x 39.5 x 26 in.	208 lbs. / 94.35 kg
		E: 230 VAC / 50-60 Hz	546 x 648 x 533 mm	648 x 1003 x 660 mm	
		G: 220 VAC / 50-60 Hz			

*Specify NU-5500 / NU-5500E / NU-5500G

Features

Standard Features

- 100% Stainless Steel Coved Foil Heaters Attached to Chamber Outer Walls
- Removable Stainless Steel Shelves (4) [17 maximum] 19.25 in.² [489 mm²]
- Remote Alarm Output Contacts
- CO_2 Sample Port
- Adjustable Leg Levelers
- Access Port
- Digital Infrared CO_2 Gas Sensor
- Water Pan (6.75 L)
- Microcomputer-Based Controls
- Replaceable HEPA Filter
- Replaceable Fan Wheel
- 8 ft. / 2.5 m Electrical Cord

Optional Features

- Automatic CO_2 Tank Switch
- Communications Interface (RS-232)
- Multi-Signal Analog Outputs: 0-5 VDC, 0-10 VDC, 4-20 mA
- Additional Shelves
- Surge Protector

Temperature Control System

- **Temperature Range:** 18˚C to 55˚C (5˚C Above Ambient to 30˚C Ambient Max)
- **Temperature Sensitivity:** ± .125˚C
- **Temperature Uniformity:** ± 0.3˚C at 37˚C
- **Temperature Accuracy:** ± 0.1˚C
- **Temperature Recovery:** 0.3˚C / min. (Average)
- **Temperature Display Resolution:** 0.1˚C

Electrical Requirements

115 VAC / 60 Hz
Startup Power: 345 watts
Running Power: 175 watts
Heat Rejected: 10 BTU/min.
[Other electrical voltages available.]

Utility Connections

- **Gas Connections:** .25" (6.3 mm) Tubing Connections
- **Gas Input Pressure:** 20 PSIG (1.4 BAR) Input Pressures Maximum. Two-stage Gas Regulators Required.

CO_2 Control Systems

- **CO_2 Range:** 0.1 to 20%
- **CO_2 Accuracy:** ± 0.1%
- **CO_2 Recovery:** 5.0% ± 0.2% In Four Minutes
- **CO_2 Display Resolution:** ± 0.1%
- **CO_2 Sensor Type:** Non-dispersive Digital Infrared CO_2 Sensor







[A] A 99.98% efficient HEPA filter maintains Constant Contamination Control (C3) in the growth chamber.

[B] Dual temperature sensor probes, mounted just under the inflow to the HEPA filter controlling the chamber environment.

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NU-5510

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DHD AutoFlow 5510 CO_2 Direct Heat Incubator with Decontamination Cycle

Specifications

Model	Chamber Volume (Ft.³ / Liters)	Electrical*	Chamber Dimensions (W x H x D)	Exterior Dimensions (W x H x D)	Weight
NU-5510	6.65 / 188.51	115 VAC / 60 Hz	21.5 x 25.5 x 21.0 in.	25.5 x 39.5 x 26 in.	208 lbs. / 94.35 kg
		E: 230 VAC / 50-60 Hz	546 x 648 x 533 mm	648 x 1003 x 660 mm	
		G: 220 VAC / 50-60 Hz			

*Specify NU-5510 / NU-5510E / NU-5510G

Features

Standard Features

- 100% Stainless Steel Coved Interior Chamber
- Foil Heaters Attached to Chamber Outer Walls
- Removable Stainless Steel Shelves (4) [17 maximum] 19.25 in.² [489 mm²]
- Remote Alarm Output Contacts
- CO_2 Sample Port
- Adjustable Leg Levelers
- Access Port
- Digital Infrared CO_2 Gas Sensor
- Water Pan (6.75 L)
- Microcomputer-Based Controls
- Replaceable HEPA Filter
- Replaceable Fan Wheel
- 8 ft. / 2.5 m Electrical Cord
- **Dual Decontamination Cycles**
  - 95˚C Wet Decontamination Cycle
  - 145˚C Dry Decontamination Cycle

Optional Features

- Automatic CO_2 Tank Switch
- Communications Interface (RS-232)
- Multi-Signal Analog Outputs: 0-5 VDC, 0-10 VDC, 4-20 mA
- Additional Shelves
- Surge Protector

Temperature Control System

- **Temperature Range:** 18˚C to 55˚C (5˚C Above Ambient to 30˚C Ambient Max)
- **Temperature Sensitivity:** ± .125˚C
- **Temperature Uniformity:** ± 0.3˚C at 37˚C
- **Temperature Accuracy:** ± 0.1˚C
- **Temperature Recovery:** 0.3˚C / min. (Average)
- **Temperature Display Resolution:** 0.1˚C

Electrical Requirements

115 VAC, 50/60 Hz
Startup Power: 345 watts
Running Power: 175 watts
Heat Rejected: 10 BTU/min.
Decon. Cycle Power: 1150 watts
[Other electrical voltages available.]

Utility Connections

Gas Connections: .25" (6.3 mm) Tubing Connections

Gas Input Pressure: 20 PSIG (1.4 BAR) Input Pressures Maximum. Two-stage Gas Regulators Required.

CO_2 Control System

- **CO_2 Range:** 0.1 to 20%
- **CO_2 Accuracy:** ± 0.1%
- **CO_2 Recovery:** 5.0% ± 0.2% in Four Minutes.
- **CO_2 Display Resolution:** ± 0.1%
- **CO_2 Sensor Type:** Non-dispersive Digital Infrared CO_2 Sensor

Decontamination Cycles

95ºC Humidified Cycle

95ºC Humidified Decontamination Cycle Eradicates Contaminating Agents

Advanced Chamber Design Allows for Shorter Heat Up and Cool Down Cycles; Complete Cycle Takes 14 Hours to Run

Remote CO_2 IR Sensor Does Not Need to be Removed or Recalibrated

145ºC Dry Cycle Features

145ºC High Temperature Dry Decontamination Cycle Eradicates Contaminating Agents

Complete Cycle Takes 10 Hours to Run

Remote CO_2 IR Sensor Does NotNeedtobeRemovedorRecalibrated



[A] Coved interior corners prevent contaminants from becoming trapped in the chamber.



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AUTOFLOW



NU-5100

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Specifications

Model	Chamber Volume (Ft.³ / Liters)	Electrical*	Chamber Dimensions (W x H x D)	Exterior Dimensions (W x H x D)	Weight
NU-5100	4.4 / 125	115 VAC / 60 Hz	18.0 x 22.0 x 19.0 in.	23.0 x 30.0 x 23.4 in.	135 lbs. / 62.3 kg
		E: 230 VAC / 50-60 Hz	457 x 559 x 533 mm	584 x 762 x 595 mm	
		G: 220 VAC / 50-60 Hz			

*Specify NU-5100 / NU-5100E / NU-5100G

Features

Standard Features

- 100% Stainless Steel Interior Chamber
- Foil Heaters Attached to Chamber Outer Walls
- Removable SST Shelves (3), Maximum Shelf Capacity (16)
- Remote Alarm Output Contacts
- CO_2 Sample Port
- Adjustable Leg Levelers
- Access Port
- Water Pan (4.8 liter Capacity)
- Microcomputer-Based Controls
- Replaceable HEPA Filter
- Replaceable Fan Wheel
- 8 ft. / 2.5 m Electrical Cord

Optional Features

- Automatic CO_2 Tank Switch
- Communications Interface (RS-232)
- Multi-Signal Analog Outputs: 0-5 VDC, 0-10 VDC, 4-20 mA
- Additional Shelves
- Surge Protector

Temperature Control System

Temperature Range: 18˚C to 55˚C (5˚C Above Ambient to 30˚C Ambient Max)

Temperature Uniformity: ± 0.5˚C at 37˚C

Temperature Accuracy: ± 0.25˚C

Temperature Display Resolution: 0.1˚C

Electrical Requirements

115 VAC, 50/60 Hz
Startup Power: 130 watts
Running Power: 72 watts
Heat Rejected: 4.1 BTU/min.
[Other electrical voltages available.]

Utility Connections

Gas Connections: .25" (6.3 mm) Tubing Connections

Gas Input Pressure: 20 PSIG (1.4 BAR) Input Pressures Maximum. Two-stage Gas Regulators Required.

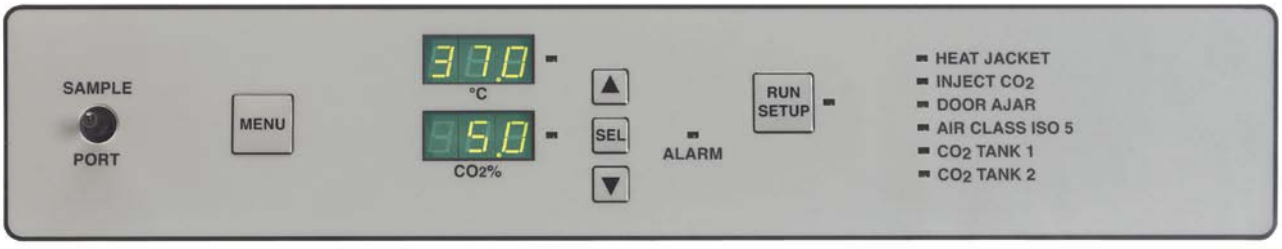
CO_2 Control System

CO_2 Range: 0.1 to 20%

CO_2 Accuracy: ± 0.25%

CO_2 Display Resolution: ± 0.1%

CO_2 Sensor Type: Digital Thermo-conductivity



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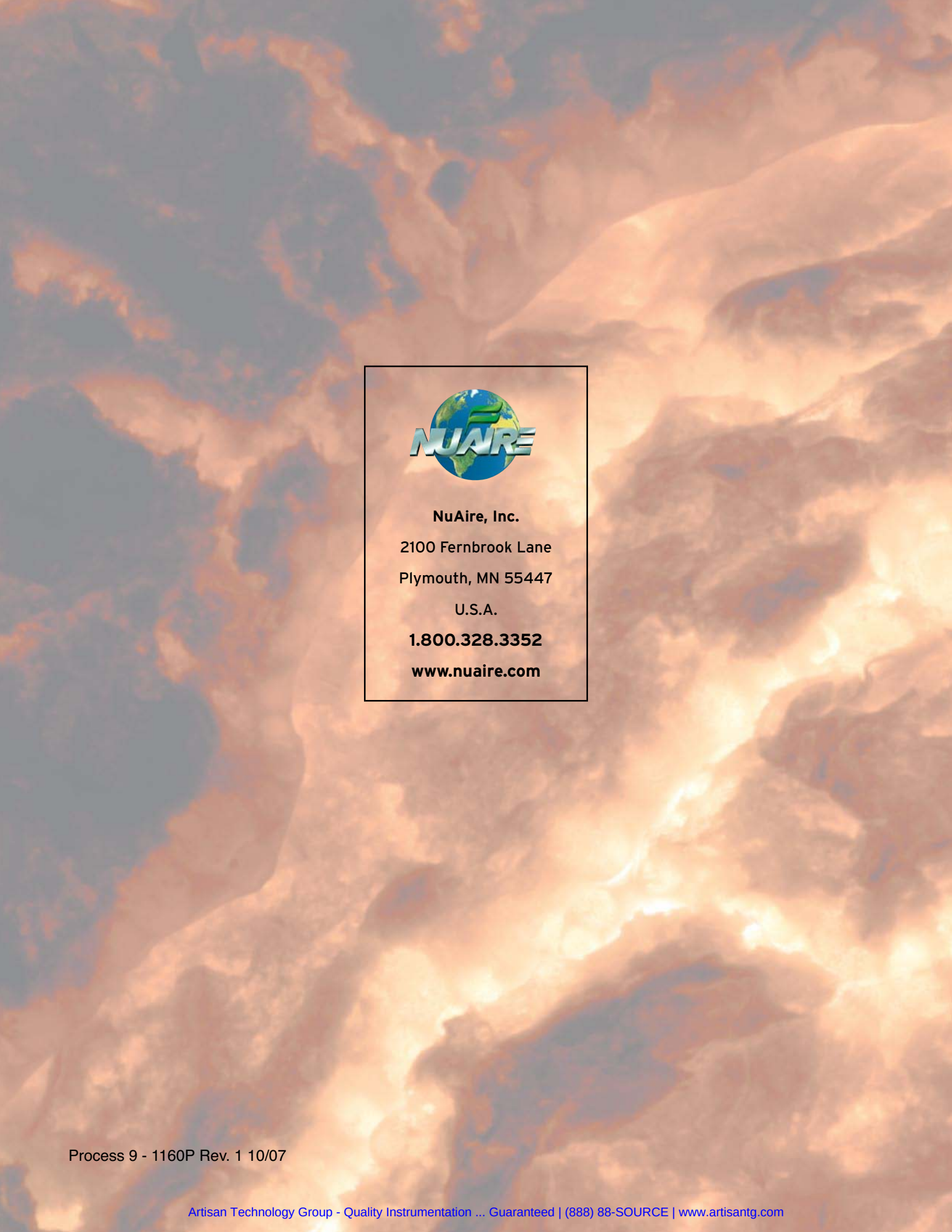


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