Controlled Environments for Optimum Growth Conditions

- **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

NU-5100

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 Coved 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
- 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%
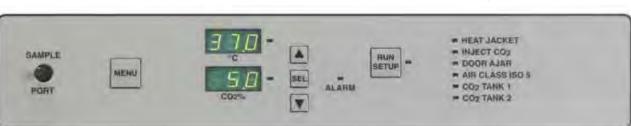- **CO$_2$ Sensor Type:** Digital Thermo-conductivity

Accessories

NU-1555	Stainless Steel Water Pan (Water Jacket)
NU-5560	Stainless Steel Water Pan (Direct Heat)
NU-1556	Replacement Tubing Kit
NU-1557	Additional Stainless Steel Shelves

NU-1564	CO_2 Regulator, Two Stage
NU-1590	CO_2 Regulator, Single Stage
NU-3557	O_2 Regulator, Two Stage
NU-3556	N_2 Regulator, Two Stage

| NU-1574 | Platform w/ Leveling Casters |
| NU-1553 | Stacking Rack (Single) |

NU-1575	Moisture-Proof Duplex Outlet
NU-2568	Isobar® Surge Protector
SV-7008	15A/20A 2 Outlet Surge Protector
SV-7006	15A/20A 6 Outlet Surge Strip

| NU-1550 | Automatic Tank Switch |
| NU-1552 | CO_2 Tank Alarm |

NU-1559	CO_2 Analyzer Fyrite Kit
NU-1561	CO_2 Analyzer Fluid
NU-3550	O_2 Analyzer Fyrite Kit
NU-3551	O_2 Analyzer Fluid

Discover more accessories online at **www.scientificvisions.com**

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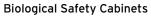a division of NuAire Inc.

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