Artisan Technology Group

Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS
Experienced engineers and technicians on staff at our full-service, in-house repair center

InstraView℠ REMOTE INSPECTION
Remotely inspect equipment before purchasing with our interactive website at ***www.instraview.com*** ↗

WE BUY USED EQUIPMENT
Sell your excess, underutilized, and idle used equipment
We also offer credit for buy-backs and trade-ins
www.artisantg.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?
Visit us on the web at ***www.artisantg.com*** ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisantg.com | www.artisantg.com

SPECIFICATIONS FOR NUAIRE US AUTOFLOW NU-4850 AUTOMATIC CO^2 WATER-JACKETED INCUBATOR

This document is concise statement of requirements for a quality Automatic CO^2 Water-Jacketed Incubator, which may be used to augment your purchase request/order.

A NuAire sales representative will be pleased to explain the importance of the performance and control affected by each of the following requirements. The US AUTOFLOW NU-4850 meets all of the requirements in the following specification.

Overall Dimension - Inches [mm]

Height:	Exterior:	35.0 [889]
Width:		31.0 [787.4]
Depth:		25.5 [647.7]
Height:	Interior:	25.5 [647.7]
Width:		21.5 [546.1]
Depth:		21.0 [533.4]
Volume:	6.65 $Ft.^3$ [188.5 liters]	

1. The outer shell is constructed of 16 gauge, type 304 stainless steel with powder coat paint finish.
2. The inner chamber is 16 gauge, type 304-polished stainless steel using coved corner crevice-free construction.
3. All stainless steel shelves, shelf supports, and guide rails are easily removable for decontamination.
4. The outer chamber's walls are lined with a space-age insulation providing a R.5 rating, minimizing heat loss.
5. The large water-jacket [20 gallon {75.7 liters}] surrounding the inner chamber permits the water to circulate within the jacket, producing a temperature uniformity of ± 0.2° C.
6. A water fill port shall be provided on front of the chamber with a ¼" NPT opening for a " tubing connection. An over fill port on front of chamber will assure optimal water levels. A low water level warning system is activated if water levels fall below proper operating conditions.
7. A drain valve is located on bottom front of chamber for complete drainage.
8. A HEPA filtration system shall be provided. Closed loop HEPA filter system is designed to minimize contamination at a recirculation rate of 1 chamber volume change every 30 minutes.
9. Manually adjustable out front door heater is duty cycle controlled to reduce condensation within the chamber.
10. Incubator shall come with four [4] square polished stainless steel shelves, 8 ft. [2.5m] electrical power cord, utility side access port, and heavy duty leg levelers.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

11. A state-of-the-art microcomputer based control system is specifically designed to service the precise control requirements of the chamber's environment.
12. The microcomputer is supported with Read Only Memory [ROM] containing executable software, Random Access Memory [RAM] for temporary storage, and Electronically Erasable Programmable Read Only Memory [EEPROM] for control set points and parameters. The EEPROM provides for indefinite storage of these values during periods of power off or power interruption. The microcomputer includes a complete internal diagnostic software package that permits fault isolation detection down to the failed component.
13. The water-jacketed incubator incorporates a integrated digital microprocessor-based, solid-state, non-dispersive infrared CO^2 sensor. Advanced design provides a very stable drift-free output requiring less frequent calibration.
14. The incubator shall be listed by Underwriter Laboratory to meet the requirements of both the U.S. and Canada standards for electrical/mechanical integrity.
15. Relative humidity level up to 95% ±3.0 % is achieved in the incubator by injecting a heated water vapor from a water reservoir tank located outside of the chamber.
16. The humidity control system uses a solid-state capacitance humidity sensor to monitor the relative humidity within the chamber. If humidity is required, the control system will activate a solenoid valve to allow humidified heated vapor into the chamber. The relative humidity display and control offers an accurate and reliable method to control humidity when required.
17. Incubators are stackable.
18. Performance Parameters

Temperature Range:	5°C above ambient to 55°C
Temperature Sensitivity:	±0.125° C
Temperature Uniformity:	±0.2° C at 37° C
Temperature Accuracy:	±0.0125° C
CO^2 Range:	0.1 - 20 %
CO^2 Accuracy:	±0.1 %
CO^2 Recovery to 5.0 ± 0.2%:	Less than 3 minutes
Temperature Display Resolution:	0.1° C
CO^2 Uniformity:	±0.1 %
CO^2 Display Resolution:	0.1 %
Door Heater Control Logic:	Proportional 1-100% [adjustable]
Temperature Sensor Type:	Precision Integrated Circuit
CO^2 Control Logic:	Fixed Algorithm/Manual Environmental Adaptable
CO^2 Sensor Type:	Infrared
RH Accuracy:	± 3.0 %
RH Range:	5 % above ambient to 95 %
RH Recovery:	95 % ± 3.0 % within ten minutes

RJ-11 Jack - on rear panel for remote alarm connection

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

19. The following optional equipment shall be available to support installation and user requirements:

    Automatic CO^2 Tank Switch [Internal]
    Internal Coil for Chilled Water
    RS-232 Communication Interface
    Chart Recorder Outputs
    Four [4] Inner Lexan® Doors
    Platform
    Platform with Casters
    Surge Protector
    Moisture Proof Duplex Outlet
    Two-Stage Regulators
    Additional Shelves
    CO^2 Tank Alarm

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group

Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS
Experienced engineers and technicians on staff at our full-service, in-house repair center

InstraView℠ REMOTE INSPECTION
Remotely inspect equipment before purchasing with our interactive website at ***www.instraview.com*** ↗

WE BUY USED EQUIPMENT
Sell your excess, underutilized, and idle used equipment
We also offer credit for buy-backs and trade-ins
www.artisantg.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?
Visit us on the web at ***www.artisantg.com*** ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisantg.com | www.artisantg.com