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SPECIFICATIONS FOR NUAIRE
DH DURAFLOW NU-5100 DIRECT HEAT
AUTOMATIC CO^2 INCUBATOR

This document is a concise statement of requirements for a quality Direct Heat CO^2 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 DH AUTOFLOW NU-5100 meets all of the requirements in the following SPECIFICATION.

Overall Dimensions - Inches [mm]

Height:	Exterior:	30” [762mm]
Width:		23” [584mm]
Depth:		23.5” [597mm]

Inner Chamber – Inches [mm]

Height:	Interior:	22” [559mm]
Width:		18” [457mm]
Depth:		19” [483mm]
Volume		4.5 $ft.^3$ [125 liters]

Water Pan Dims - Inches [mm]

Height:	1” [25.4mm]
Width:	17” [432mm]
Depth:	12” [305mm]

Shelf Dims- Inches [mm]

Width:	16.25” [413mm]
Depth:	18” [457mm]

1. The chamber walls are directly heated by foil heating elements attached to the sides, bottom, top, and back of the chamber.

2. A space-age high-density insulation [rated R5.0] covers the complete outer surfaces of the incubator inner chamber.

3. Air is constantly circulating within the chamber using a continuous operating fan/ motor/blower within the upper air plenum and sidewall duct system. This airflow is distributed uniformly and at very low velocity.

4. A large replaceable 99.99% efficient HEPA filter cartridge continually filters the air that circulates in the chamber.

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5. A state-of-the-art microcomputer based control system is specifically designed to service the precise control requirements of the chamber's environment.

6. 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.

7. The direct heat incubator incorporates an integrated digital microprocessor-based, thermal conductivity sensor. Advanced design provides a very stable drift-free output requiring less frequent calibration.

8. Incubator shall be listed by Underwriters Laboratory and marked with CE to meet the requirements of both the North American and International standards for electrical/mechanical integrity to IEC 61010A-1.

9. The outer shell is cold-rolled steel with powder coat paint finish.

10. The inner chamber is 16 gauge, type 304, polished stainless steel using crevice-free construction.

11. All stainless steel shelves, shelf supports, guide rails, and air plenum are easily removable for cleaning.

12. Manually adjustable outer front door heater and front frame perimeter heater are duty cycle controlled to reduce condensation within the chamber. The heaters are microprocessor controlled to reduce output in an increasing room ambient to avoid an overheating condition. The heater output can then increase back to the set value as the room cools back down.

13. Relative humidity level up to the mid 80% range is achieved in the incubator by the use of a stainless steel pan filled with distilled water and placed on the bottom of the chamber.

14. The incubator is programmed with options that give the user control of System use, CO2 sensor calibration procedures, alarm parameters, & adaptation to different lab environments.

15. Incubator shall come with three [3] rectangular polished stainless steel shelves, 8 ft. [2.5m] electrical power cord, utility side access port, and heavy-duty leg levelers.

16. Incubators are stackable using rear angle provided with each unit.

17. The hinge side of the doors is field reversible.

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18. Performance Parameters

Temperature Range:	5°C above ambient to 55°C
Temperature Sensitivity:	±0.125°C
Temperature Uniformity:	± 0.5°C @ 37°C
Temperature Accuracy:	± 0.25°C
CO^2 Range:	0.1 to 20%
CO^2 Accuracy:	± 0.25%
CO^2 Recovery:	To setpoint
Temperature Recovery:	0.15°C/min.
Temperature Display Resolution:	0.1°C
CO^2 Uniformity:	± 0.1%
CO^2 Display Resolution:	0.1%
Door and Perimeter Heater Control Logic:	Proportional 0-100% [adjustable]
Temperature Sensor Type:	Precision Integrated Circuit
CO^2 Control Logic:	Fixed Algorithm/Manual Environmental Adaptable
CO^2 Sensor Type:	Thermal Conductivity

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

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

Automatic CO^2 Tank Switch [Internal]
RS-232 Communication Output
Additional Shelves
Surge Protector
Multi-Signal Chart Recorder Outputs (0-5 vdc, 0-10 vdc, & 4-20 mA)
Moisture Proof Duplex
Two Stage Regulators

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