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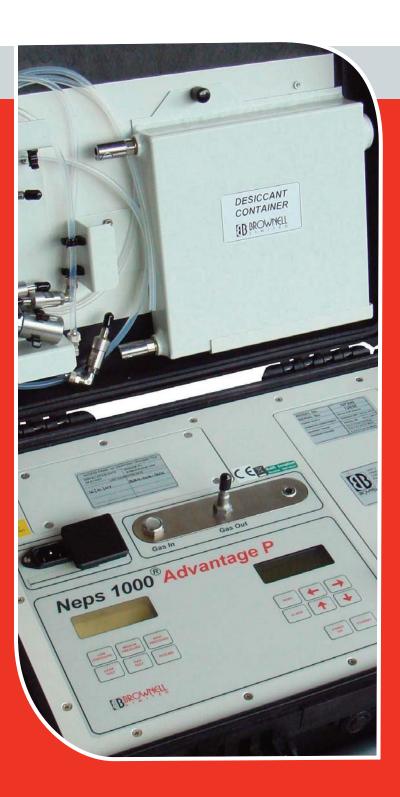
NEPS1000

Dry Gas purging system

The NEPS1000 DUAL VOLTAGE

is the latest development for improving the effective and efficient use of dry gas purging for electronic, optical, high voltage, laser systems and equipment requiring gas drying.

High humidity and water vapour can have a deleterious impact on the use, operation and long-term reliability of instruments and systems.







KEY FEATURES & BENEFITS

- Fully Self Contained for Portable use
- Easy to Use Single Connection Purging
- Dewpoint and Pressure Readout
- Remote Dewpoint Sensing Option
- Portable and Robust
- User Programmable
- Automatic Purging Operation
- Dewpointstat Gas Control
- Dewpoint Display from +20°C to -80°C
- Maintainable Online
- NATO Approved

Specialist Purging Technology

The Complete Purging System

The NEPS1000 DUAL VOLTAGE is designed to maximise the dry gas purging process for humidity removal. It has a host of capabilities and functionality for effective and efficient control during the purging operation.

Easy Operation

NEPS1000 DUAL VOLTAGE is fully selfcontained. Simply connect the equipment to be processed to the purge connection and the NEPS1000 DUAL VOLTAGE is ready to operate.

Economic Gas Use

One of the NEPS1000 DUAL VOLTAGE benefits is its use of the purge gas used for purging. By using a single pipe connection the purge gas is controlled and dispersed throughout the instrument or system being purged. During the depressurisation phase of purging the purge gas is isolated.

User Friendly

The NEPS1000 DUAL VOLTAGE has easy to use selectable programming which can be set to view process control values and display dewpoint measurements in °C or °F with pressure in Kpa or psi. Highly visible liquid displays provide constant information and readouts during the operation and use of the NEPS1000 DUAL VOLTAGE.

Equipment Leak Testing

The NEPS 1000 DUAL VOLTAGE comes with a selection of four in built leak testing capabilities to verify the sealing standard of the equipment to be purged. Pressure testing can be conducted at pressures from 10.3 Kpa (1.5 psi) to 34.4 Kpa (5.0 psi). Pressure leakrate display resolution is 0.01 psi.

Gas Quality Testing

The dryness of the gas is important to the effectiveness of the purging operation and the NEPS1000 DUAL VOLTAGE dewpoint monitor can be used to check the dryness of the gas prior to commencing the purging operation.

Universal Voltage

The NEPS1000 DUAL VOLTAGE can be operated from global country voltages and frequencies ranging from 100 to 230 VAC at 50-60 Hz. It also operates from a 24 VDC supply.

Single Connection Purging

Traditional conditioning with dry nitrogen, gas or air depends on the flow of gas from an entry connection to an outlet port. In this mode the gas will follow the simplest and easiest path to the outlet connection. This can often lead to "pockets" of unconditioned gas.

Using NEPS1000 DUAL VOLTAGE the mode of operation changes to a more efficient single connection purging process which also uses a choice of three selectable pressure cycles to ensure the dry gas influences all the space volume within an equipment.

During the purge process the NEPS1000 DUAL VOLTAGE monitors the pressure. When the pre-selected setting is achieved the supply gas is isolated and an internal control valve allows the gas to flow to the exhaust port where the dewpoint of the mixed air/gas is measured. The purging process then continues until the desired dewpoint protection has been achieved.

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BROWNELL OFFERS A COMPREHENSIVE RANGE OF PURGING INSTRUMENTS FOR MOISTURE REMOVAL IN EQUIPMENTS AND SYSTEMS TO PREVENT CONDENSATION AND HUMIDITY DAMAGE.

NEPS1000 DUAL VOLTAGE APPLICATIONS

- Optical Instruments
- LASER Systems
- SF6 Switch Gear
- Printed Circuit Board Conditioning
- Double Glazing Cavities
- Electronic Housings
- Workstations

- Storage Containers
- Surveillance Instruments
- Underwater Equipment
- Military Applications
- Thermal Imaging
- Image Intensifers

What is dewpoint?

The temperature to which air or gas must be cooled for the formation of condensation or frost.

This means dewpoint is ideal for stating the quality control requirement for purging an instrument or enclosure.

Why Purge?

Modern systems that use printed circuit boards, wires, electronic components, rubbers and plastics in their construction will have potentially significant amounts of moisture.

The amount of in built moisture often described as "hygroscopic moisture" can be significant in comparison to the moisture (water vapour) contained within the air.

Why Choose NEPS 1000 DUAL VOLTAGE?

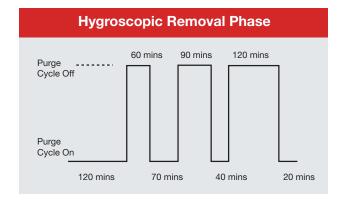
To maintain the flexibility and portability a NEPS1000 DUAL VOLTAGE is designed for use both in the field or workshop environment. It can be operated on either 24 VDC or 100-240 VAC. The NEPS1000 DUAL VOLTAGE is fitted with a self contained pump and moisture adsorbing molecular sieves.

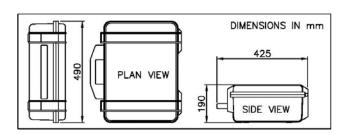


The moisture adsorber can be readily exchanged when it is saturated and requires replacement. The NEPS1000 DUAL VOLTAGE contains one Kilo of moisture adsorbing molecular sieves which are capable of adsorbing more than 20% of its own weight in moisture vapour before it is saturated. The NEPS1000 DUAL VOLTAGE is ideally suited if bottled dry gas is not available or cannot be handled or transported to the point of use.

What is the Dewpointstat function?

The Dewpointstat function of the NEPS1000 DUAL VOLTAGE is able to monitor and control the removal of in built hygroscopic moisture within a system or equipment.





NEPS1000 DUAL VOLTAGE Dewpointstat

The Dewpointstat feature of the NEPS1000 DUAL VOLTAGE enables users to determine the amount of moisture contained within an equipment and to implement an optimised gas and purging procedure for production control.

Using the remote dewpoint sensor option the NEPS1000 DUAL VOLTAGE monitors the progress of the dewpoint dryness within the equipment being purged and switches off and isolates the dry gas when the selected dewpoint is achieved. A data logger can be used to monitor the dewpoint degradation time that allows the water vapour transmission rate (WVTR) to be calculated. The rate of water removal (hygroscopic loading) can also be determined during the initial purging phase.







TECHNICAL SPECIFICATIONS

Selectable Pressure Ranges 10.3 Kpa (1.5 psi) Power 1 100-230 volt 50 hz - 60 hz Power Consumption 17.2 Kpa (2.5 psi) 3 amps 34.4 Kpa (5.0 psi) 24 VDC Power 2 Display Range Pressure 0 to 34.4 Kpa (0-5.0 psi) **Power Consumption** 3 amps Display Range Dewpoint 490W x 425D x 190H (closed) (Selectable) **Dimensions** +20°C to -80°C dewpoint Weight 15 kilograms +68°F to -94°F dewpoint IP54 (Closed Case) Ingress Protection Resolution 0.1°C dewpoint Operating Temp -10°C to +50°C Accuracy +/- 2°C dewpoint Storage Temp -50°C to + 65°C Data Output Pressure 0 - 5 Volts Flowrate (typical) 20 litres per minute 0 - 5 Volts See NEPS Accessories Data Output Dewpoint Optional extras

> Nato Stock NSN: Order Code:

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