The DH-100 is a compact desiccant dehumidifier originally developed specifically for military storage applications but is also ideal for a multitude of industrial uses including storage rooms, vaults, and other small areas where humidity control is required. The DH-100 is capable of controlling humidity in a space well below that which can be obtained by conventional refrigerant type dehumidifiers. The unit’s rugged design and portability makes it well suited for various dehumidification applications.

**HOW IT WORKS**

The **DH-100 unit** effectively removes moisture at any temperature without the freeze up problems inherent with refrigerant dehumidifiers. The desiccant based process enables the unit to achieve and maintain lower relative humidities and lower dewpoints than conventional DX type dehumidifiers.

The heart of the unit is a rotating desiccant wheel. Return air from the conditioned space is drawn through the rotating desiccant wheel. The desiccant adsorbs moisture from the air stream and the bone dry supply air is returned to the conditioned space. The moisture containing portion of the wheel rotates into the regeneration section where the desiccant releases the adsorbed moisture into the heated regeneration air stream which is then exhausted to the outside.

**BENEFITS**

- Solid construction - sturdy aluminum frame and panel construction
- Compact and portable
- Integral humidistat control with simple on-off-auto switch - optional remote humidistat available
- Achieve ultra low dewpoints
SPECIFICATIONS

Process Volume: 100 CFM
Dimensions: 25"(L) x 16"(W) x 17"(H)
Weight: 37 lbs
Power: 2 KW
Utilities: 115v/60hz/1ph
ESP Process (in wc): .3
ESP Regen (in wc): .6

PERFORMANCE

Inlet Air Relative Humidity (%)

Performance graph showing moisture removal (LB/HR) for different inlet air temperatures (90F, 80F, 70F, 60F, 50F).

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. CONSULT FACTORY FOR SPECIAL APPLICATIONS.

INSTALLATION

Diagram showing dimensions and airflow for the DH-100 desiccant dehumidifier.

NOTE:
An optional duct converter kit is available to convert the process inlet grill to a 4" duct opening.

DH-100 DESICCANT DEHUMIDIFIER

DIMENSIONS

FILTERED PROCESS AIR IN
4" DIA PROCESS AIR OUT

10132 Mammoth Drive, Baton Rouge, LA 70814-4420
tel. 800-762-1320 / 225-924-0427 fax. 225-930-0340
www.novelaire.com

The information contained in this brochure is believed to be accurate by NovelAire Comfort Products, but is not warranted.