

A climate of innovation™



# Portable Dehumidifiers

For Process Applications



DVIP Vertical Packaged Dehumidifier (portable unit shown)

● **Improve Production Quality**

● **Reduce Energy Costs Up To 50%**

● **Cut Waste and QC Costs**

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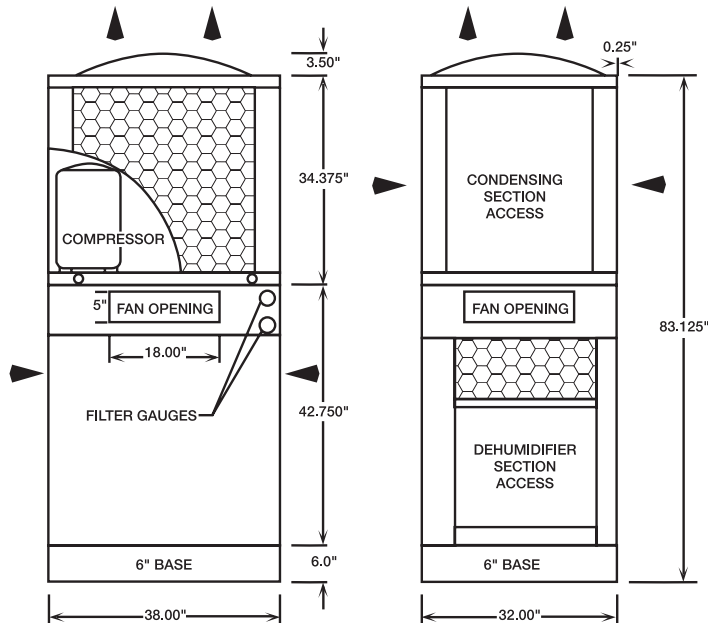
## Achieve Higher Production Quality, Lower Costs, Less Waste

*Gain greater control of your production processes with Nautica's Multiple Small Plate (MSP™) dehumidification technology. Our ultra-efficient systems provide the critical dry, stable environment needed to produce better product quality, cut waste and improve cost efficiency. Applications include paper and pulp production, plastic molding, powder blending, battery manufacturing, drying and curing, packaging, food processing, and precision instruments.*

## Key Benefits & Features

- Creates dry, stable environment
- Lowers energy consumption—patented MSP™ technology uses 50% less energy than conventional units
- Delivers constant leaving dew-point temperatures needed for your application—as low as 35° F
- Requires less space, less energy, less maintenance
- Self-contained units—needs only electricity, supply duct and drain
- Modular options for applications where space and access are a challenge
- Many dehumidification options—use 100% outdoor air or recirculated air
- Complete packaged system simplifies installation and maintenance

# Portable Process Dehumidifiers—Specifications



SPECIFICATIONS	
Model	DVIP-01000-090-A
Rated ambient	95°F Db/83°F Wb/79.4° F Dp
Air Flow	1,000 CFM
Rated outlet air conditions	47.5° F Dew Point* at 76.0°F Db
Unit capacity	67 Lbs H2O/Hr
Power consumption	9,500 Watts (9.5 Kw)
Efficiency (at rated conditions)	6.92 Lbs H2O/Kw /Hr 145 Watts/Lb H2O/Hr
Compressor	460 Volt, 3 Phase, 60 Cycle 12.4 RLA, 89.0 LRA
Condenser fan	460 Volt, 1 Phase, 60 Cycle 3/4 HP, 2.3 FLA
Dehumidifier fan	460 Volt, 3 Phase, 60 Cycle 3/4 HP, 1.5 FLA
Dehumidifier filters	2 - 12" x 24"x1" (Pleated)
Condenser filters	4 - 15" x 30" x 1" (Fiberglass)
Shipping weight	870 Pounds

\* Consult factory for lower dew-point temperatures

REQUIRED CLEARANCES	
Overhead (top)*	120"
Front (service access)	30"
Left side	24"
Right side 2	4"
Rear (service access)	30"
Bottom	0"

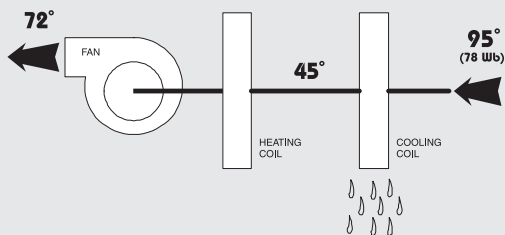
\* Overhanging structures should not obstruct condenser air discharge.

## Nautica vs. Conventional Dehumidification

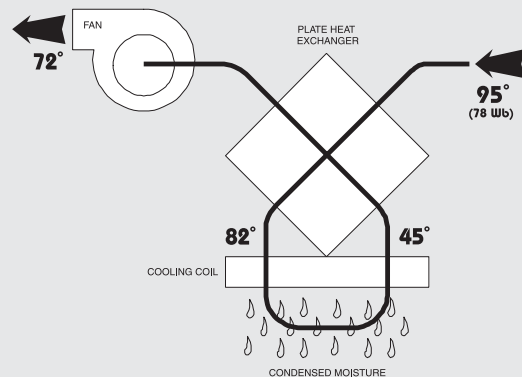
Like conventional systems, the Nautica technology uses ordinary refrigeration or chilled water for cooling. However, in the energy-efficient dehumidifier, lower temperature air enters the cooling coil, as a result of precooling and dehumidification, through an air-to-air heat exchanger—thereby requiring a

smaller cooling coil and compressor to accomplish the same work. This innovative combination of an air-to-air heat exchanger and conventional air-conditioning reduces energy consumption, requiring as little as one-half the power for dehumidification than conventional systems.

### Conventional Dehumidification Process



### MSP Dehumidification Process



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