



1. Product Name

- IW25-1 Dehumidifier

2. Manufacturer

Innovative Dehumidifier Systems LLC
 6260 Ocean Highway W
 Ocean Isle Beach, NC 28469
 Phone: 910-579-3348
 Fax: 910-579-4412
 Email: info@innovatedehu.com
 Web: www.innovatedehumidifiers.com

3. Product Description

Basic Use

IW25-1 by Innovative Dehumidifier Systems LLC is a self-contained, Energy Star certified dehumidifier that can be installed permanently to interior walls, including masonry or CMU block. Designed to fit between 16 inch o.c. wall studs, a single unit controls relative humidity for spaces to 1500 square feet and drains directly into a hub drain or plumbing line — eliminating the need for reservoir tanks. IW25-1 can be connected to a standard 120V outlet or can be hard-wired.

IW25-1 operates at sound levels lower than 47 dbA, effectively removing excessive moisture without sacrificing comfort or ambiance. It is suited for both new construction and retrofit installations in multifamily, commercial, educational and industrial applications.

Composition and Materials

The enclosure is 1.2 mm thick steel at the bottom panel and 1 mm thick at other panels. The built-in humidistat is protected by a tamper-proof 5VA-rated ABS cover, which is 2.5 mm thick and secured with tamper-resistant screws to restrict access. Components that make up the system include a washable air filter, drain connector, drain tube, PCB control board with built-in safety switch or auxiliary contacts for condensate pump, humidity sensor, drain hose and filter.

Size

- Rough opening dimensions: 14.5" × 25.5" × 9.38"
- Grill/cover: 17.2" × 27.2" × 0.5"
- Weight: 35 lbs

Color

White



Benefits

- Tamper-proof, access lock-out cover protects unit
- Quiet — operates at 47 decibels or lower
- Energy Star efficient — averages 285 watts power consumption
- Tank-free, automatic drain eliminates damage from overflowing reservoirs
- Relative humidity set point can be adjusted from 30–90%
- Uses standard 120V AC
- Epoxy coating on coil improves IAQ, prevents corrosion and extends the unit life expectancy
- Drains to existing plumbing and can be hard piped
- Automatic restart after power interruption

Restrictions

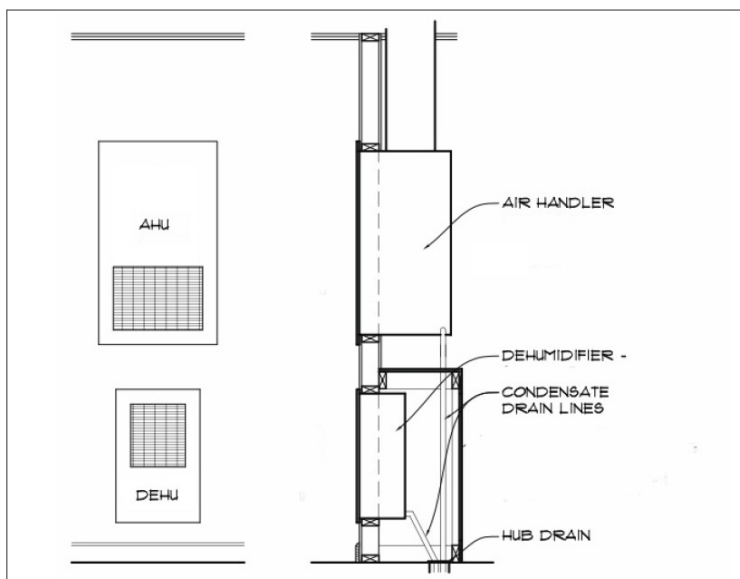
IW25-1 is designed for indoor use only.

Accessories, Options

- Built-in auto-dehumidistat
- Drain connector
- Internal drain tube
- Drain hose (3/4" × 10')
- Front cover tool
- Surface mounting box (optional)
- Condensate pump kits (optional)

Table 1 – Technical Properties

Rated average power consumption (at 80° F, 60% RH)	285 W
Max power consumption (at 90° F, 95 RH)	370 W
Max absorbed current (at 80° F, 60% RH) F.L.A.	2.52 A
Locked rotor current (LRA)	14.0 A
Air flow (with clean air filter)	150 CFM
Second pressure level (at 3 MTS in free field)	<47 dbA
Refrigerant R134A	240 G
Defrosting control system	Electrical
Drain connection	3/4" hose
Functioning temperature range	50–90° F
Functioning relative humidity range	35–95%
Rated condensation capacity (at 80° F, 60% RH)	27 ppd
Power supply	120V, 1-phase, 60 Hz AC
Power cord	10', 3-prong GFI
Refrigerant	R134a



Sample Installation

4. Technical Data

Applicable Standards

Canadian Standards Association (CSA)

- CAN/CSA-C22.2 No. 92 Standard for Dehumidifiers

Underwriters Laboratories® (UL)

- UL 474 Standard for Dehumidifiers

Approvals, Certifications

Energy Star®

- IW25-1 is an Energy Star certified dehumidifier

Intertek ETL

- Complies with CAN/CSA-C22.2 No. 92; **cETL Listed**
- Complies with UL-474; **ETL Listed**

People's Choice Award, AIA

- Top New Innovative Product, 2014 AIA National Convention

Physical Properties

See Table 1.

5. Installation

Preparatory Work

Deliver product in manufacturer's original, unopened, undamaged containers with identification labels intact. Store protected from exposure to harmful environmental conditions, frost-free and at temperature and humidity levels recommended by the manufacturer.

IW25-1 requires a drain and 120V power. Ensure provisions are made for power and for draining condensate from the unit and confirm that obstructions, such as plumbing or electric lines, do not block unit placement. Where sound is a concern, mount the unit at the back of the room.

Do not remove any components of the IW25-1 dehumidifier, including the Styrofoam noise insulation shroud.

Precautions

If hard-wired, IW25-1 should be installed and inspected by a qualified electrician and in accordance with all applicable electrical and plumbing codes. Be certain power is turned off and unplugged or the circuit breaker is off before and during installation and maintenance. Ensure the unit is connected to a wiring system with an equipment-grounding conductor.

For stairwells and hallways, ensure the installed unit provides sufficient clearance for pedestrian traffic.

Methods

In-wall Installation

Locate wall studs at the desired location for installation. Cut a rough opening 14.5" wide by 25.5" high, ensuring a minimum

depth of 9.38" in clearance for depth from the front edge of the wall to the rear of the dehumidifier cabinet.

Ensure the opening is square, plumb and supports the bottom of the unit. Install four screws (in mounting flanges) directly through the sheetrock and into the 2 × 4 wall studs.

Securely insert the drain hose into the hub drain. Following a continuous downward slope, fasten the hose securely to the wall. Verify no crimps exist in the drain hose — inside or outside the unit. Plug the dehumidifier into a properly grounded GFI receptacle.

Set the dehumidifier to the desired humidistat setting and turn on the dehumidifier. Install the grill cover using the provided tamper-resistant screws. Do not overtighten screws.

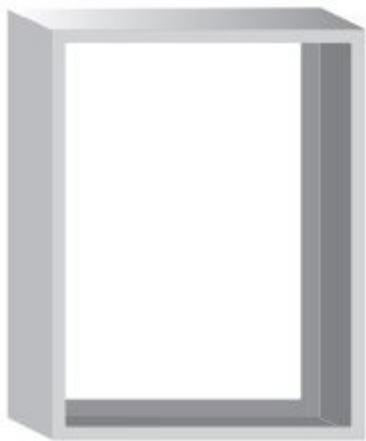
- Ensure the unit is securely supported by sheet rock or framing
- Make sure the drain hose is kink-free and has a continuous downward slope below the drain port outside the unit
- Test each unit by slowly pouring water into drain pan

For additional details or assistance, contact Innovative Dehumidifier Systems and see the installation video: [Installation Overview video](#).

Surface Mount

A surface mount option is available for masonry CMU or installations where the unit cannot be recessed into the wall.

Locating studs or wall anchors, attach the optional surface mounting box to the wall. Lean the top of the IW25-1 forward and insert the bottom of the unit into the box. Simultaneously pull the bottom front of the IW25-1 to the front while pushing the top back.



Optional Surface Mounting Box
(26.5" × 17.25" × 11")



Align the cabinet flanges with the pre-drilled holes and, using sheet metal screws, secure the IW25-1 to the surface mounting box. Set the humidistat and install the cover.

Building Codes

Ensure installation complies with the requirements of all applicable local, state and federal code jurisdictions.

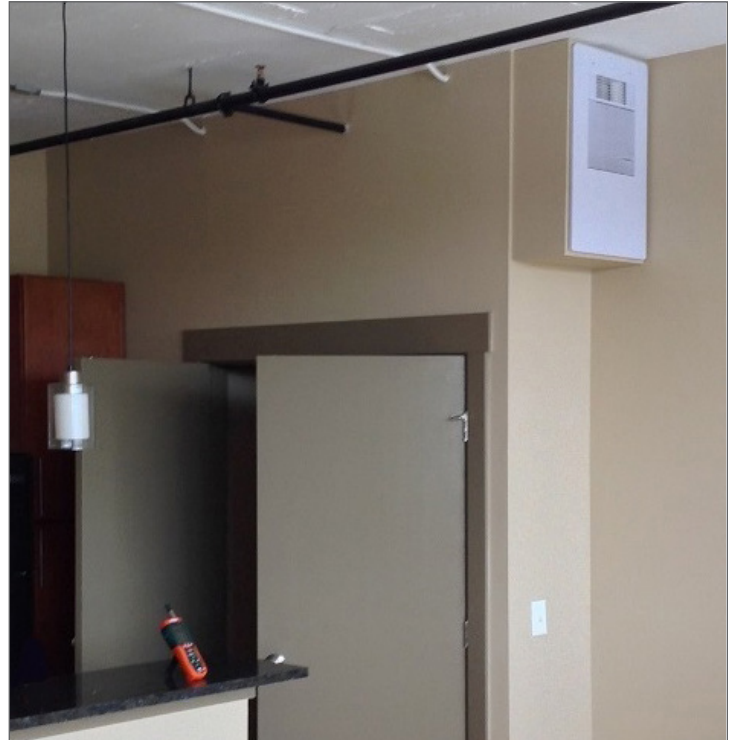
6. Availability and Cost

IW25-1 is distributed throughout the USA and Canada by Innovative Dehumidifier Systems LLC. Contact Innovative Dehumidifier Systems for availability and cost information within a specific region.

7. Warranty

Innovative Dehumidifier Systems LLC (IDS) warrants IW25-1 to be free from defects in workmanship and materials for a period of 24 months after shipment. The warranty is limited to repair or replacement of defective equipment and does not apply to any part or component damaged in transit or, when handling, subject to misuse, not installed, operated or serviced according to the seller's instructions, operated beyond the seller's rated capacity or altered in any way.

Routine maintenance is not covered by this warranty.



8. Maintenance

As with all air treatment devices, on-going and scheduled maintenance is required to ensure peak operating performance.

Monthly

- Change or clean the air filter
- Check the relative humidity setting
- Ensure airways are clean and unblocked
- Check the drain hose and electrical connection

Quarterly

- Follow monthly maintenance procedures
- Clean the condensate, pouring a solution of vinegar and water slowly and directly into the drain pan. A 5-ounce mixture (1 part vinegar and 3 parts water) is normally adequate. Commercial solutions are also available
- Check grill louvers, coil fins and humidistat. As needed, vacuum the grill or wipe it clean soapy water. Wipe the humidistat with a damp cloth. Vacuum coil fins with a shop vac or spray with a vinegar and water solution. For extremely dirty coils, spray a mild coil cleaner directly on the coils per cleaner recommendations
- Check the fan blades for dirt build up and vacuum or wipe clean as needed

9. Technical Services

Technical assistance, including detailed information, product literature, test results, project lists, assistance in preparing project specification and installation supervision is available from Innovative Dehumidifier Systems LLC. For questions, visit the website: www.innovatedehumidifiers.com.

10. Filing Systems

- CMD
- Energy Star
- ETL
- Additional product information is available from the manufacturer upon request ↪

