



Indoor Pool/Whirlpool Light Commercial & Residential Dehumidifiers



designer indoor air[®]

Indoor Pool/ Whirlpool Light Commercial and Residential Dehumidifiers

Dectron (a division of Dectron Internationale) developed the DRY-O-TRON® energy recycling pool dehumidifier over 25 years ago. Constant innovations and advancements have kept the DRY-O-TRON® as the standard to be met for indoor pool environmental comfort.

Our engineering team has recently developed the DSV Series, a vertical configuration of the ever-popular DS unit. It has all of the standard DS features including multistage pool water heating and microprocessor control. All in a package with a smaller foot print and no loss of performance.

That may not seem like much, but at construction costs of up to \$200 a square foot or more, a compact unit that fits through a door that can be installed in a corner and serviced through the front, not only makes sense, it can save dollars.

Take a look at the DRY-O-TRON® DSV Series today, and see why the innovation never stops at Dectron.

- Controls humidity
- Heats pool water with recycled energy *
- Vertical design fits through a 32" door**
- Vertical design suitable for corner installation, compact footprint
- Single side service access
- Optional A/C for year-round comfort control
- Contributes to space heating
- "Water Smart" feature means reliable operation even without water flow
- HyPoxy® Coils for corrosion resistance
- Microprocessor control, flexible and reliable
- Separate compressor compartment out of airstream
- Indoor installation
- Factory tested at operating conditions

* Models also available without pool water heater

** Horizontal design also available



DSV Series (Vertical Airflow, Corner Installation)



FEATURES AND BENEFITS

An indoor pool is a challenging indoor air quality project unlike few others. With a combination of high temperatures, high moisture generation, high chemical usage, differential activity levels and multiple interdependent systems it requires specialized design and engineering. Dectron can help - please request Dectron's Natatorium design guidelines for more information.

The indoor pool environment also requires specialized equipment and here Dectron can help even more. Below are some of the features and benefits that keep the DRY-O-TRON® DSV Series ahead of the competition. Ask for these features.



QUALITY FEATURES INCLUDE:

- Patented simultaneous heat rejection to air and pool water avoids temperature swings, **exclusive to Dectron**
- Multi-stage pool water heating guards against wide fluctuations in pool water temperature, **exclusive to Dectron**
- Heavy gauge enclosure painted internally and externally with baked alkyd powder paint in a 5-stage process
- Scroll compressors (most models) for high reliability and quieter operation
- Contributes to space heating when required
- Corrosion proof self-draining sanitary drain pan
- Side drain with internal P-trap
- Microprocessor control reduces service time
- Unit mounted sensors simplify installation
- Vented co-axial cupro-nickel pool water heater suitable for potable water
- Voltages available:
208/230 single phase 60 Hz
208/230, 460, 575 three phase
60 Hz (some models)

OPTIONS AVAILABLE INCLUDE:

- Air conditioning package (air, water or fluid-cooled)
- Outdoor air inlet to meet ASHRAE Ventilation Standard 62-1989 with filter and balancing damper
- Auxiliary outdoor gas boiler for space or pool water heating
- Auxiliary water heaters for other uses
- Higher air volumes and higher external static pressures
- Power supply for ventilation 80VA, 24V
- Air flow sensors for filter maintenance
- Metasys® Compatibility
- Firestat interlock
- Extended warranty plans
- 50 Hz operation



Also available
DS Series (Horizontal Airflow)



PERFORMANCE DATA

Model	Moisture Removal ¹	Air Volume ²	Total Energy Consumption ¹	Total Capacity ¹	External Static Pressure ³
DSV	lb/h	cfm	kW	Btu/h	in WC
010	11.0	1,000	2.4	25,690	0.5
015	13.7	1,200	3.4	31,900	0.5
020	23.1	2,000	4.5	53,900	0.5
030	30.3	3,000	6.3	70,660	0.5
040	45.5	3,300	8.3	106,160	0.5
060 ⁴	64.8	5,200	17.3	139,890	0.5

1. At air on 82°F DB and 60% RH.

2. Higher air volumes available, please contact factory.

3. Higher external static pressures available, please contact factory.

4. Larger sizes available, please contact factory.

DIMENSIONAL DATA

Model	Dimensions ¹	Filter Section Dimensions	Net Weight ²
DSV	L x W x H in	lb	
010	30 x 30 x 65	20 x 12 x 33	400
015	30 x 30 x 65	20 x 12 x 33	470
020	36 x 30 x 65	31 x 12 x 33	600
030	43 x 30 x 65	40 x 12 x 33	800
040	43 x 30 x 72	47 x 12 x 32	1000
060	64 x 41 x 72	59 x 12 x 44	1600

1. Certain options require larger enclosure

2. Options not included

OPERATING RANGE*

- Air on temperature 74°F thru 86°F DB
- Air on relative humidity 40 thru 70% RH
- Pool water temperature 78 thru 104°F

* For conditions outside this range, consult your DRY-O-TRON® representative or the factory for assistance

OTHER INNOVATIVE DRY-O-TRON® PRODUCTS...

INDOOR POOL & WHIRLPOOL APPLICATIONS



DSV Series



RS Series

DS/DSV Series (Indoor Pool/Whirlpool Light Commercial and Residential Dehumidifiers)

- 5 Models from 1 thru 46.2 lb/h moisture removal and 1,000 thru 3,800 cfm
- Horizontal and vertical configurations, indoor installation
- Heats pool water with recycled energy, patented features

- Pool corrosion resistant construction including HyPoxy® coated coils
- Optional A/C for year-round comfort control
- Advanced Microprocessor control
- Gas auxiliary air and water heating available

DS/RS DB/RB Series (Indoor Pool/Whirlpool Commercial and Institutional Dehumidifiers)

- 12 Models from 45.5 thru 680 lb/h moisture removal and 3,300 thru 50,000 cfm
- Horizontal and vertical (Models 040 thru 100) configurations
- Outdoor rooftop and indoor installation
- Purge Mode, Econosaver, Economizer and Smart Saver Heat Recovery configurations

- Heats pool water with recycled energy, patented features
- Pool Guard corrosion resistant construction including HyPoxy® coated coils
- Optional A/C for year-round comfort control
- Advanced Microprocessor control
- Gas auxiliary air and water heating available

100% OUTDOOR AIR APPLICATIONS



RK Series

DK/RK Series (IAQ 100% Outdoor Air Dehumidifiers)

DKH/RKH Series (IAQ 100% Outdoor Air Dehumidifiers with Heat Pump)



- 14 Models from 21.0 thru 550.0 lb/h moisture removal and 480 thru 30,000 cfm
- Treat 100% outdoor air entering as high as 80°F wet bulb
- Supply treated air as per ASHRAE 62-1989
- Dehumidifies even when space cooling is not required (off-peak)

- Outdoor rooftop and indoor installation
- Gas auxiliary air heating available
- Available with exhaust energy recovery using enthalpy wheels or heat pipes
- Also in Heat Pump configuration

GENERAL PURPOSE APPLICATIONS



MAM Series



RB5 Series

MAM Series (Residential and Light Commercial Dehumidifiers)

- 7 Models from 4.1 thru 25.8 lb/h moisture removal and 400 thru 1230 cfm
- Replaces small commercial and residential air conditioners
- Full cooling mode, controls both humidity and temperature

- Air-cooled, packaged water cooled available
- Year-round dehumidification without overcooling the space

DA5/DV5/RA5 DB5/RB5 (General Purpose Commercial and Industrial Dehumidifiers)

- 17 Models from 11.0 thru 680.0 lb/h moisture removal and 1,000 thru 50,000 cfm
- Controls humidity
- Outdoor rooftop and indoor installation
- Economizer models

- Horizontal and vertical (Models 010 thru 100) configurations
- Optional A/C for year-round comfort
- Heat recovery available
- Gas auxiliary air heating available
- Advanced microprocessor control

LOW TEMPERATURE APPLICATIONS



DA2 Series

DA2 Series (Ice Rink and Curling Rink Dehumidifiers)

DA4 Series (Low Temperature Dehumidifiers)

DA6 Series (Water Treatment Plant and Pumping Station Dehumidifiers)

- 6 Models from 7.0 thru 46.4 lb/h moisture removal and 1,000 thru 10,400 cfm
- Built-in automatic reverse cycle defrost

- Unit mounted or remote controls
- Packaged unit, remote condenser not required

Dectron
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