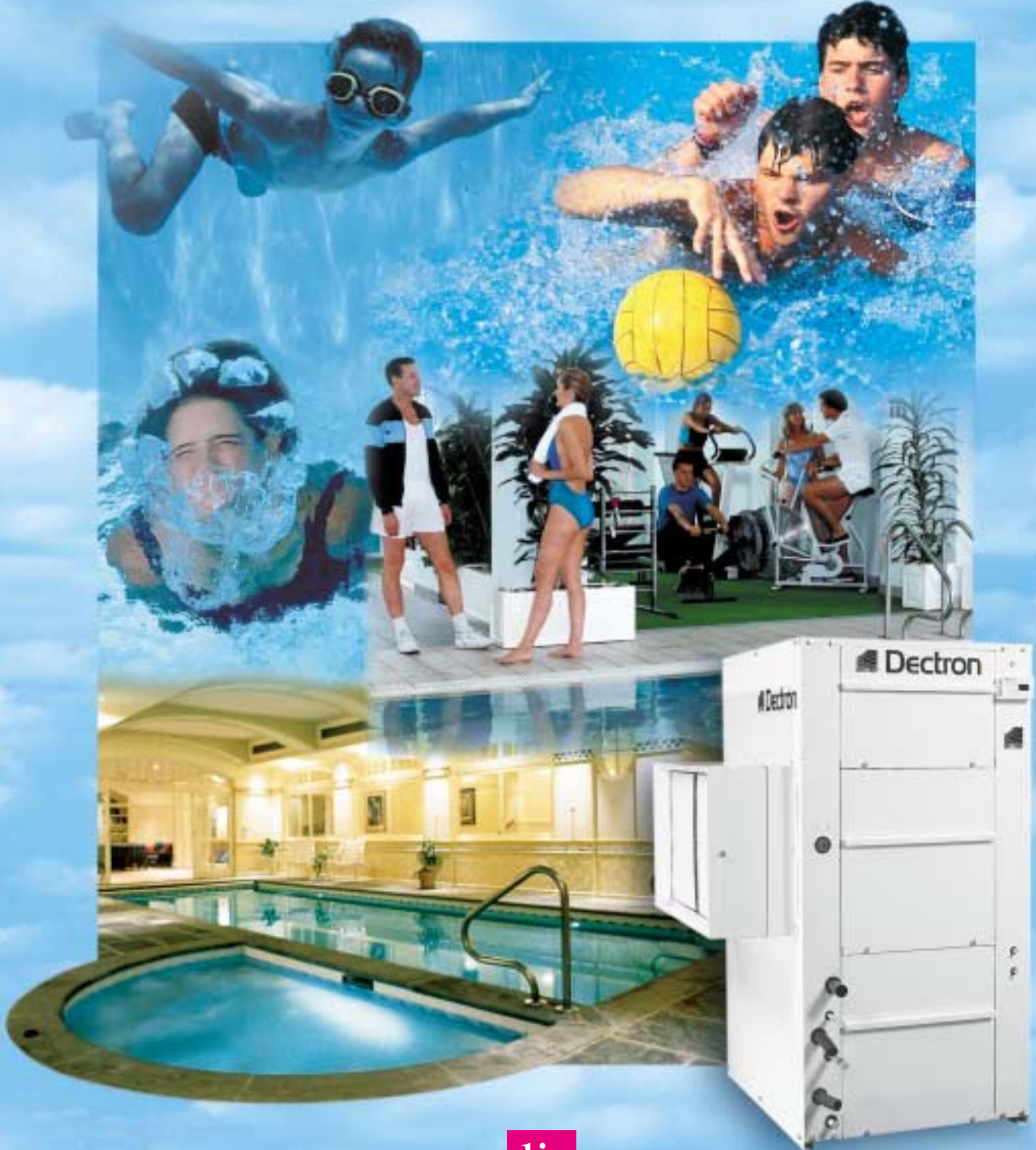




# DSV SERIES

## Indoor Pool/Whirlpool

### Light Commercial & Residential Dehumidifiers



designer indoor air®

# Indoor Pool/ Whirlpool Light Commercial and Residential Dehumidifiers

Dectron (a subsidiary 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 also 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 footprint 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 up to Model 040 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 Air Flow, 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. See 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 coaxial cupronickel pool water heater suitable for potable water
- Voltages available:  
208/230 single phase 60 Hz (some models)  
208/230, 460, 575 three phase 60 Hz

**OPTIONS AVAILABLE INCLUDE:**

- Air conditioning package (air, water or fluid-cooled)
- Outdoor air inlet to meet ASHRAE Ventilation Standard 62-1999 with filter and balancing damper
- Auxiliary outdoor gas boiler for pool water heating
- Auxiliary water heaters for other uses
- Higher air volumes and higher external static pressures
- Power supply for ventilation 80VA, 24V
- Mirror image configuration
- Firestat interlock
- Extended warranty plans
- 50 Hz operation



Also available  
DSV Series (Horizontal Air Flow)

**PERFORMANCE DATA**

Model	Moisture Removal <sup>1</sup>	Air Volume <sup>2</sup>	Total Energy Consumption <sup>1</sup>	Total Capacity <sup>1</sup>	External Static Pressure <sup>3</sup>
	lb./h	cfm	kW	Btu/h	in WC
DSV					
010	12.3	1,000	3.0	28,635	1.0
015	14.0	1,200	3.4	32,660	1.0
020	23.1	2,000	5.2	53,900	1.0
030	31.5	3,000	6.8	73,495	1.0
040	45.5	3,800	8.9	106,160	1.0
042	45.5	3,800	9.6	106,160	1.0
050	57.8	4,800	11.9	134,780	1.0
060	68.3	5,500	15.8	159,285	1.0
062	63.0	5,500	13.4	146,990	1.0
080	91.0	6,500	18.2	212,310	1.0

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. DSV Commercial & Industrial dehumidifiers (size 100 & up) also available, please contact factory

**DIMENSIONAL DATA**

Model	Dimensions <sup>1</sup> (Footprint)	Net Weight <sup>2</sup>
DSV	L x W x H in	lb
010	30 x 30 x 65	660
015	30 x 30 x 65	700
020	36 x 30 x 65	825
030	43 x 30 x 65	950
040	52 x 30 x 79	1,400
042	52 x 36 x 79	1,600
050	70 x 41 x 79	2,000
060	70 x 41 x 79	2,000
062	70 x 46 x 79	2,300
080	70 x 46 x 79	2,500

**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

1. Certain options require larger enclosures

2. For basic unit with air-cooled air conditioning. For other options, contact the factory. Add 18 in. for removable filter section to 'inches' for overall width.

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

### INDOOR POOL & WHIRLPOOL APPLICATIONS



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

- 10 Models from 8.1 thru 72.8 lb./h moisture removal and 1,000 thru 6,500 cfm
- Horizontal and vertical configurations, indoor installation
- 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

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

- 20 Models from 45.5 thru 680 lb./h moisture removal and 3,800 thru 50,000 cfm
- Horizontal and vertical 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



**DM/DK/DKV/RK Series**  
IAQ 100% Outdoor Air  
Dehumidifiers

- 17 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
- Dehumidifies even when space cooling is not required (off-peak)

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

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



### GENERAL PURPOSE APPLICATIONS



**MAM Series**  
Residential and Light Commercial  
Dehumidifiers

- 7 Models from 4.1 thru 25.8 lb./h moisture removal and 400 thru 1,230 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

**DA3/DA5/DV5/RA5 DB5/RB5**  
General Purpose Commercial  
and Industrial Dehumidifiers

- 23 Models from 8.1 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 080) configurations
- Optional A/C for year-round comfort
- Heat recovery available
- Gas auxiliary air heating available
- Advanced microprocessor control
- Air Purification available

### LOW TEMPERATURE APPLICATIONS



**DA2 Series**  
Ice Rink and Curling Rink  
Dehumidifiers  
Low Temperature 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
- Optional A/C for year-round comfort

**DA6 Series**  
Water Treatment Plant and Pumping  
Station Dehumidifiers

### CUSTOM DEHUMIDIFICATION

**DRY-O-TRON® Systems engineered to meet any custom requirements, large or small.**



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