



Model W2000
(shown with optional DC-T control)

LARGE MEDICAL DRYER NEEDED? NOT A PROBLEM.

Conair's largest W Series dryers, now manufactured for the medical industry, bear the same MedLine logo and meet the same medical specifications as our smallest MedLine dryers.

The DC-T control measures 8 inches diagonally and features bright, crisp high-resolution graphics. Individual screens show your drying process and ways to improve it.

Purchase this dryer and you will find that you have more control over drying dew point and temperature than ever before, in a package that is simpler, smaller, lighter, more energy efficient, easier to use and maintain than any other dryer on the market today.

600 - 5000 LB/HOUR MEDLINE DRYING THROUGHPUTS

The MedLine W600-5000 dryers with available DC-T TouchView™ Technology feature full-color touch screen controls which display critical process settings and actual data on an 8-inch touch-screen graphical layout. You see, at a glance, everything going on in your drying system and can make adjustments with a touch of your fingertip for more efficient drying, better product quality and more profit on your bottom line. Warning messages are now easy to read with the elimination of cumbersome alarm codes. Password security prevents unauthorized drying parameter changes. With DC-T, your control is web-enabled, so you can wirelessly connect with your tablet or smartphone.

This series of dryers are capable of delivering nominal throughput rates ranging from 600 to more than 5,000 lb/hour {272 to 2,268 kg/hr}.

- **Pre-calibrated and ready for medical use**

Components arrive to your facility pre-calibrated and ready for medical use. Calibration is completed to ISO standards. RAL 9003 paint is used. Calibration and compliance documents are provided with your equipment.

- **Optional full-color DC-T touch screen**

Intuitive screen navigation will allow you to easily view critical drying parameters such as dew point and temperature.

- **Reduced energy costs**

The desiccant wheel assembly can save you up to 35% on your energy bill. Fewer parts, lighter structural mass, less to heat, therefore less wasted energy.

- **Maximum uptime, maximum reliability**

With significantly reduced part count, easy access and less wear you can expect many years of trouble-free operation. The weight of the desiccant assembly has been reduced by 70%, the part count reduced by 90%, there are no more indexing bed plates, no more cumbersome 4-way valves and no more messy desiccant beads.

- **Adjustable dew point control - an industry first!**

The dew point control built into the microprocessor control system allows you to select a particular dew point value, which the control locks onto. The control then adjusts various dryer functions to precisely hold the dew point selected, virtually eliminating any chance of over drying expensive material.



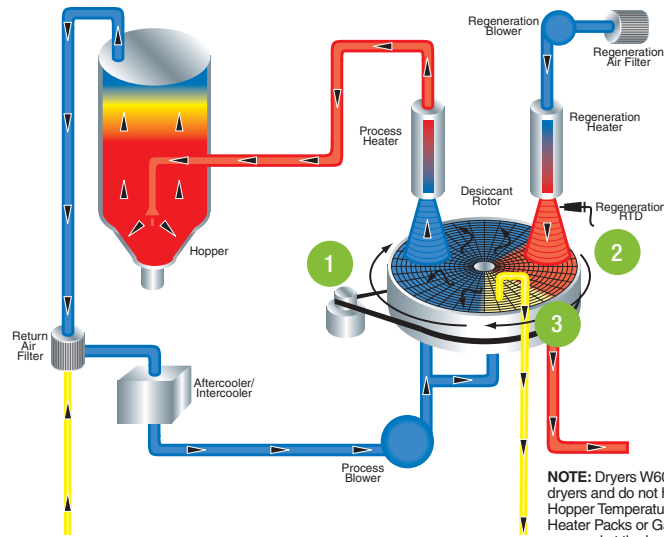
W MODELS, 600 - 5000

HOW IT WORKS/ BENEFITS

The core of the Carousel Plus Dryer is the Munters® unique fluted desiccant rotor, which contains molecular sieve desiccant. The molecular sieve has been grown into the rotor's porous fiberglass substrate, preventing the possibility of desiccant break down and dusting over time. The desiccant rotor revolves slowly, passing through three cycles with each revolution.

THE BENEFITS

- The high airflow across the surface area of the rotor produces a resin-drying low dew point within five minutes of start-up and offers multi-year media life with virtually no maintenance.
- The continuously revolving rotor provides rock steady temperature and dew point control.
- The rotor technology minimizes energy consumption by reducing the structural mass, less structural mass to heat means less energy wasted.



- 1 The dry air is dehumidified in the absorption cycle, capturing and removing moisture from the process air stream.
- 2 The desiccant passes into the high temperature regeneration cycle where the adsorbed moisture is heated and purged out of the desiccant to the atmosphere.

- 3 The desiccant is then advanced to the post regeneration cooling cycle and cooled with closed loop dry air. All Carousel Plus Dryers feature this unique closed loop cooling technology to eliminate moisture that can cause defects in parts.

NOTE: Dryers W600-W5000 are central dryers and do not have process heaters. Hopper Temperature Controllers (HTC), Heater Packs or GasTrac Dryers (CGT) are used at the hopper for heating the process air.

WHICH PACKAGE IS RIGHT FOR YOU?

Features

- **Calibration to ISO standards**
- **RAL 9003 paint**
- **Audible and visual alarm** - A combination of a blinking red alarm light and a horn alert the operator to any shut down alarm.
- **Temperature setback** - Automatically reduces the drying temperature to a lower standby mode when the machine throughput is reduced or stopped.
- **Dew point monitor** - Allows the operator to monitor the performance of the dryer by providing a digital dew point readout of the drying air.
- **Dew point control** - Allows the dryer to lock onto and track an operator-selected dew point level. This feature helps prevent over drying of moisture sensitive materials such as Nylon. The Carousel Plus is the first dryer in the plastics industry to provide precise dew point control.
- **Precooler** - To achieve and maintain very low drying temperatures, a precooler can be supplied to assure the supply air to the hopper is not heated by the heat of the dryer's blower, residual heat from regeneration, etc.
- **Volatile trap** - Extend the operational life of filters and even your desiccant when dehumidifying materials that give off volatiles during the drying process. The volatile trap option provides a serviceable collection filter for volatiles on the return line of the system.
- **Filter check** - Keeps the drying system's air flow optimized by monitoring the filter condition through automatic differential pressure measurements on each side of the filter. An alarm indicates when it's time for cleaning.
- **Drying monitor** - Automatically monitors the temperature profile inside the drying hopper(s) within a pre-set temperature band to protect you from over drying or under drying your material.
- **Communications** - Allows the dryer to be networked to industrial control systems. When a dryer is connected to a network, the controller on the network may read actual temperatures, change set points, read dryer status, and process and display this information at a central location.

STANDARD PACKAGES	MZ	TV
FEATURES		
DC-1 control	●	
DC-T control		●
Calibration	●	●
RAL 9003 Paint	●	●
Audible and visual alarms	●	●
Temperature setback	●	●
Dew point monitor	●	●
Dew point control	●	●
Trending screens		●
OPTIONS		
Communications		●
Precooler	●	●
Volatile trap	●	●
Filter check	●	●
Drying monitor		●



CONTROLS

W MODELS, 600 - 5000

Choose the control you need...DC-1 or DC-T

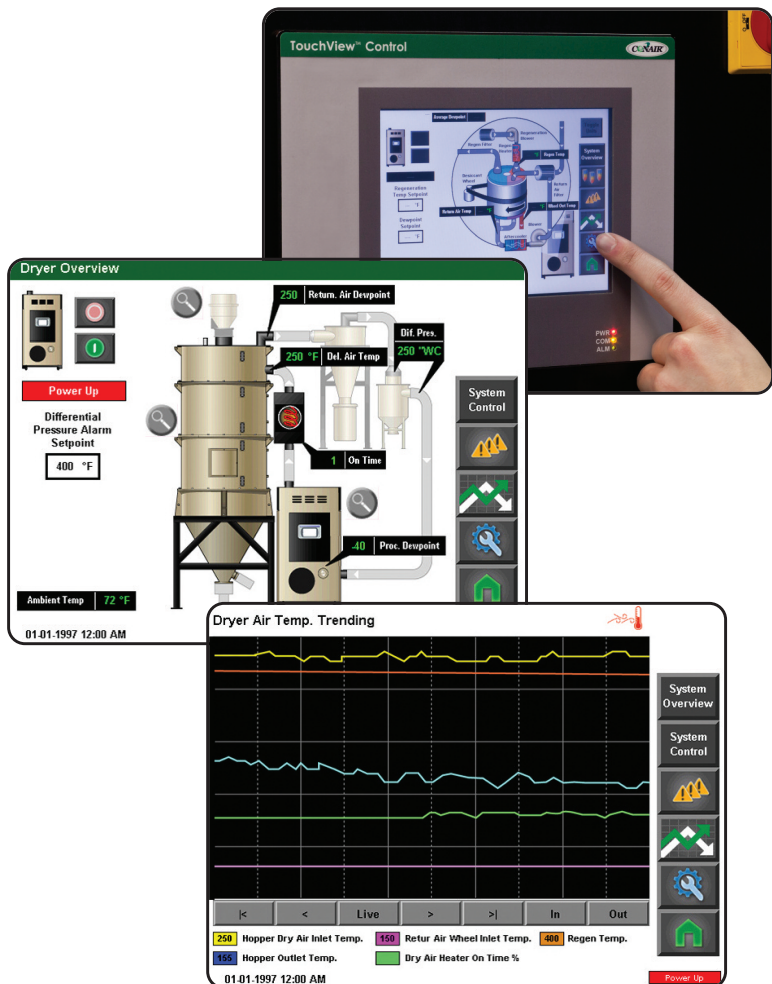
DC-1 CONTROL FEATURES

- Six character, seven segment LED display for high visibility of setpoint and actual operating parameters
- Full access to setup parameters and alarms through error codes
- Autostart count down timer
- Operator password protection
- English/Metric units
- Solid-state heater contactors with isolation protection
- Return air temperature display



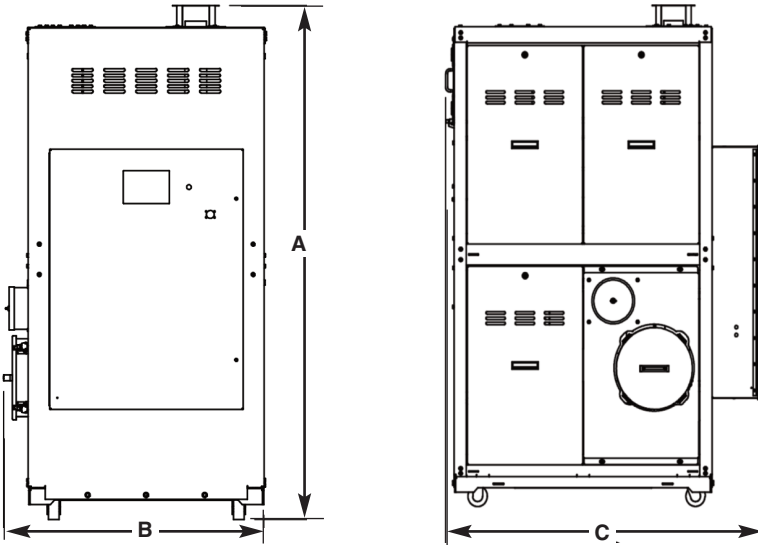
DC-T CONTROL FEATURES

- 8-inch color touch screen
- Web-enabled
- Trending - air temperature and dew point
- Password protected (multiple level)
- English/Metric units
- Return air temperature display
- Real-time clock - time of day
- Date format selection
- Auto start
- Temperature setback
- Solid-state heater contactors with isolation protection
- Multiple hopper control
- The DM3-e is the latest generation of technology created for analyzing drying performance from a multi-zone, resistance temperature detector (RTD) probe installed in the drying hopper. Embedded into the DC-T dryer control software, the DM3-e is designed to provide early detection of poor drying conditions and provide alarms for correcting problems. Up to 15 hoppers can be monitored.



SPECIFICATIONS

W MODELS, 600 - 5000



APPLICATION NOTES:

All dryers are supplied with an aftercooler/intercooler as standard. The aftercooler/intercooler reduces the temperature of the return air from the drying hopper, improving the efficiency of the desiccant. The aftercooler/intercooler should be connected with the proper water flow rate and temperature to attain the optimal throughput.

When to use central models

Models W600 - W5000 of Carousel Plus dryers are all configured as central dryers. Central dryers do not have process heaters. These models should be used when drying multiple materials that require different drying temperatures. Central models dehumidify the process air, which is then heated to the correct set point by a Heater Pack, Hopper Temperature Controller (HTC) or GasTrac Dryer (CGT).

When to use additional filtration

The standard return air cartridge filter is sized for the airflow of each dryer model and is suited for most applications. You should consider adding an optional dust collector and/or volatile trap if:

- The material contains excessive fines. An additional dust collector or cyclone will extend time between filter cleaning.
- The material produces volatiles during drying which condense into a waxy or oily residue. A volatile trap will help to protect the desiccant.

MODELS	W600*	W800*	W1000*	W1300*	W1600*	W2000*	W2400*	W3200*	W4000*	W5000*
Performance characteristics (with full hopper)										
Drying temperature	All models 100° - 375°F {38° - 191°C} with options									
Dew point	All models -40°F {-40°C}									
Dimensions inches {cm}										
A - Height	95.7 {243.0}			92.2 {234.2}			98.3 {249.7}			
B - Width	48.9 {124.2}			53.6 {136.2}			60.7 {154.1}			
C - Depth	64.8 {164.6}			98.6 {247.6}			114.5 {290.8}			
Outlet/inlet hose diameter	8.0 {20.3}			12.0 {30.5}			12.0 {30.5}			
Approximate weight lbs {kg}										
Installed	1300 {590}	1300 {590}	1400 {636}	1600 {726}			2000 {907}			
Shipping	1495 {678}	1495 {678}	1515 {687}	2620 {1188}			3385 {1535}			
Voltage - Standard/Central full load amps†										
400 V/3 phase/50 Hz‡	89.2 / 34.3	115.9 / 33.5	116.6 / 34.2	152.7 / 42.9	159.4 / 49.6	213.7 / 76.4	248.7 / 84.0	282.7 / 90.5	371.3 / 96.8	371.9 / 97.4
460 V/3 phase/60 Hz	77.6 / 29.8	100.9 / 29.2	101.5 / 29.8	133.4 / 37.8	138.6 / 43.0	186.4 / 66.9	216.5 / 73.1	247.3 / 80.0	323.0 / 84.0	323.7 / 84.7
575 V/3 phase/60 Hz	62.1 / 23.9	80.7 / 23.4	81.1 / 23.8	106.6 / 30.2	110.8 / 34.4	149.1 / 53.6	173.0 / 58.4	197.7 / 64.0	258.1 / 67.1	258.7 / 67.7
380 V/3 phase/60 Hz	93.9 / 36.1	121.9 / 35.2	122.7 / 36.0	160.7 / 45.2	167.8 / 52.2	224.6 / 80.1	261.7 / 88.3	297.6 / 95.3	390.9 / 101.9	391.5 / 102.5
Water requirements {for aftercooler/intercooler or optional precooler}§										
Recommended temperature**	45° - 85°F {7° - 29°C}			45° - 85°F {7° - 29°C}			45° - 85°F {7° - 29°C}			
Water flow gal./min. {liters/min.}	6 - 25 {22.7 - 94.6}††			12 - 40 {45.4 - 151.4}††			15 - 50 {56.8 - 189.3}††			
Water connections NPT	1 1/2 inch NPT			1 1/2 inch NPT			1 1/2 inch NPT			

SPECIFICATION NOTES:

* Dryers W600-W5000 that are central dryers do not have process heaters. Heater Packs, Hopper Temperature Controllers (HTC's), or GasTrac Dryers (CGT's) are used at the hopper for heating the process air. See the Hopper Temperature Controller (HTC) and GasTrac Dryer (CGT) specification sheets for further technical information. Even though Heater Packs are remote from the dryer, they are controlled by the dryer.

† The first full load amps number listed includes current to operate the dryer and the heat supply controlled by the dryer. The second full load amps number is current required for the dryer only, when operated as a central dryer with heaters (more than one) controlled and powered remotely.

‡ Dryers running at 50 Hz will have 17% less airflow, and a 17% reduction in material throughput.

§ When drying below 150°F {66°C} a precooler is required.

** Temperatures above or below the recommended levels may affect dryer performance. Tower, chiller or municipal water sources can be used.

†† Higher chilling water temperatures will require a greater flow rate.

Specifications may change without notice. Consult a Conair sales representative for the most current information.

INSTALLATION NOTE:

Wiring between process air heater, Heater Pack, and dryer where control for this heater is located is not included. Maximum wire length between dryer and heat source is 100 feet {30 meters}. Consult Conair or a qualified electrician to determine gauge of wire required for distance. Maximum physical distance between dryer and hopper is 20 feet {6 meters}.

