

# Carousel Plus Dryer

## D - Series



### Multi Hopper Cart (Optional)

Nu-Vu Conair's Multi-Hopper Cart (MHC) is perfect for easy preparation and movement of press-ready resin. The MHC features our dependable CH series mass-flow hoppers on a convenient push cart. The MHC lets material changes take place quickly, cleanly, and safely away from the processing machine.



### Technical Specifications

| Model                                                             | D 50                     | D 75 | D 100     | D 150        | D 200      | D 300      | D 400      |
|-------------------------------------------------------------------|--------------------------|------|-----------|--------------|------------|------------|------------|
| Performance characteristics (with full hopper)                    |                          |      |           |              |            |            |            |
| Dry air quantity {M³ / Hr}                                        | 50                       | 75   | 100       | 150          | 200        | 300        | 400        |
| Drying temperature                                                | 38° - 191°C with options |      |           |              |            |            |            |
| Dewpoint                                                          | -40°C                    |      |           |              |            |            |            |
| Dimensions inches (cm)                                            |                          |      |           |              |            |            |            |
| A - Height                                                        | 46.5 {118.1}             |      |           | 64.2 {163.1} |            |            |            |
| B - Overall width                                                 | 27.5 {69.8}              |      |           | 29.7 {75.3}  |            |            |            |
| C - Depth                                                         | 30.1 {76.5}              |      |           | 52.6 {133.5} |            |            |            |
| Outlet / inlet tube size OD                                       | 2.5 {63.5}               |      |           |              | 5.0 {127}  |            |            |
| Approximate weight lbs {kg}                                       |                          |      |           |              |            |            |            |
| Installed                                                         | 297 {135}                |      |           | 672 {305}    | 739 {335}  | 795 {361}  | 851 {386}  |
| Shipping                                                          | 350 {159}                |      | 375 {170} | 885 {401}    | 1114 {505} | 1170 {531} | 1461 {663} |
| Voltage - Total Connected Load Kw                                 |                          |      |           |              |            |            |            |
| Connected Load for PET Material                                   | 6.5                      | 8.5  | 15        | 17.9         | 22.9       | 25.6       | 42.9       |
| Connected Load for Engineering Plastic                            | 6.5                      | 8.5  | 15        | 17.9         | 22.9       | 25.6       | 42.9       |
| Water-cooled requirements (for optional aftercooler or precooler) |                          |      |           |              |            |            |            |
| Recommended temperature                                           | 7.2° - 29.4°C            |      |           |              |            |            |            |
| Water flow liters / min.                                          | 9.1                      |      |           | 11.4         |            |            |            |
| Water connections NPT                                             | 3/8 inch                 |      |           | 3/4 inch     |            |            |            |

All specifications are subject to change without prior notice.

Nu-Vu Conair Carousel Plus™ dehumidifying dryers guarantee moisture removal from resins, regardless of moisture content. You can be assured your moulded or extruded products will be unaffected by moisture content that can jeopardize their quality.

Equipped with highly efficient desiccant wheels, long-life tube heaters and powerful blowers; these D Series Dryers offer a choice of full-colour, high-resolution touchscreen controls, for the simplest yet most sophisticated control over the drying of your valuable resin.

### Unique Features

- Reduced energy costs, smaller carbon footprint
- Simple to use, advanced touchscreen controls
- Maximum uptime, maximum reliability
- Precise, adjustable dewpoint control
- Audible/visual alarm
- Temperature setback
- Dewpoint monitor and control
- Compact & aesthetically pleasing
- Variable speed (500 M<sup>3</sup> / Hr and above)

### Optional Features

- Volatile trap
- Pre-cooler
- Process filter check
- Dew Point Sensor (for 4" and 7" screen)
- Communications - modbus TCP
- Variable speed (400 M<sup>3</sup> / Hr)
- Air to air HE (D 50 to D 200)

#### VFD



### How it works

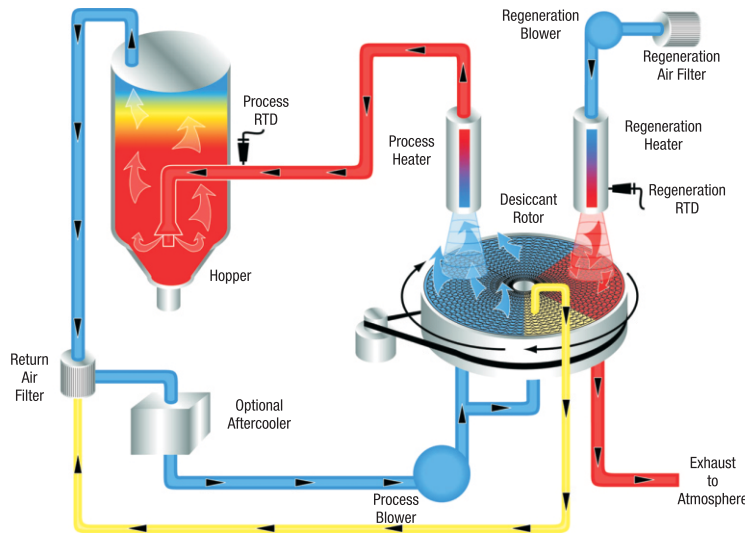
The core of the Carousel Plus dryer is the unique fluted desiccant rotor, which contains molecular sieve desiccant. The molecular sieve has been grown into the rotor's porous fiberglass substrate, preventing the possibility of desiccant breakdown and dusting over time. The desiccant rotor revolves slowly at the rate of 12 revolutions per hour passing through three cycles with each revolution.



### Choose the control you need... DC-C Plus or DC-C Premium

| Control                                                  | DC-C Plus    | DC-C Premium |
|----------------------------------------------------------|--------------|--------------|
| <b>Standard</b>                                          |              |              |
| Processor / control type                                 | Proprietary  | Proprietary  |
| Display / HMI screen                                     | 4-inch color | 7-inch color |
| Trending screens (dewpoint, temperature, heater on-time) | ●            | ●            |
| Auto start / stop                                        | 1 day / time | 7 day / time |
| English / metric units                                   | ●            | ●            |
| Password protected                                       | ●            | ●            |
| Web-enabled                                              | ●            | ●            |
| Temperature setback (manual/auto)                        | ●            | ●            |
| Dewpoint monitor and control                             | ○            | ●            |
| Energy usage meter                                       | ●            | ●            |
| Audible and visual alarm                                 | ●            | ●            |
| VNC viewer                                               |              | ●            |
| Predictive maintenance                                   | ●            | ●            |

Dew point sensor need to be consider as an optional item



| Control                    | DC-C Plus | DC-C Premium        |
|----------------------------|-----------|---------------------|
| <b>Available options</b>   |           |                     |
| Drying monitor             |           | ○                   |
| Vacuum conveying           | ○         | ○                   |
| Number of vacuum receivers | 1         | 2                   |
| Ratio loading              |           | Conveying dependent |
| Purge                      |           | Conveying dependent |
| Vacuum fill                |           | Conveying dependent |
| Modbus TPC communications  |           | ○                   |
| H2O flow control           |           | ○                   |
| Phase detection            | ●         | ●                   |
| Process filter check       | ○         | ○                   |
| Water-cooled aftercooler   | ●         | ●                   |

● Standard ○ Option

| D 600                    | D 800 | D 1000     | D 1300       | D 1600       | D 2000 | D 2400 | D 3200        | D 4000       | D 5000 |
|--------------------------|-------|------------|--------------|--------------|--------|--------|---------------|--------------|--------|
| 600                      | 800   | 1000       | 1300         | 1600         | 2000   | 2400   | 3200          | 4000         | 5000   |
| 38° - 191°C with options |       |            |              |              |        |        |               |              |        |
| -40°C                    |       |            |              |              |        |        |               |              |        |
|                          |       |            |              |              |        |        |               |              |        |
| 93.8 {238.3}             |       |            | 92.2 {234.2} |              |        |        | 98.3 {249.7}  |              |        |
| 49.3 {125.2}             |       |            | 53.9 {136.9} |              |        |        | 58.2 {147.8}  |              |        |
| 63.1 {160.2}             |       |            | 97.5 {247.6} |              |        |        | 112.9 {286.7} |              |        |
| 8.0 {20.3}               |       |            | 12.0 {30.5}  |              |        |        |               |              |        |
|                          |       |            |              |              |        |        |               |              |        |
| 1300 {590}               |       | 1400 {636} | 1600 {726}   |              |        |        | 2000 {907}    |              |        |
| 1495 {678}               |       | 1515 {687} | 2620 {1188}  |              |        |        | 3385 {1535}   |              |        |
|                          |       |            |              |              |        |        |               |              |        |
| 54                       | 84.8  |            | 128.3        | 132          | 165.8  |        | 248.5         | 256.5        | 325.5  |
| 44                       | 69.8  |            | 98.3         | 102          | 135.8  |        | 188.5         | 196.5        | 265.5  |
|                          |       |            |              |              |        |        |               |              |        |
| 7° - 29°C                |       |            |              |              |        |        |               |              |        |
| 22.7 - 94.6              |       |            |              | 45.4 - 151.4 |        |        |               | 56.8 - 189.3 |        |
| 1 1/2 inch               |       |            |              |              |        |        |               |              |        |

\* Total connected load excluding process heater.

LEADING MANUFACTURER OF PLASTIC AUXILIARY EQUIPMENT

Material Storage | Conveying | Drying | Blending | Heat Transfer | Size Reduction



(An ISO 9001:2015 Certified Organization)

### Nu-Vu Conair Pvt. Ltd.

Plot No. 147 & 148, Devraj Industrial Park, Piplaj-Pirana Road, Piplaj, Ahmedabad - 382405, Gujarat, India

☎ +91 79 2970 8147 | 📠 +91 97129 28201, +91 90990 76206

✉ marketingindia@conairgroup.com | 🌐 www.conairgroup.in

