



DRYPOINT[®] XCp

Premium Series Heatless Desiccant Dryers

+ Features and Benefits

ADVANCED VESSEL DESIGN:

real world, dynamic load conditions are factored into the vessel design

REDUCED SPACE REQUIREMENTS:

design height is lower by up to 30% compared to traditional designs without increasing the width

ENERGY SAVING TECHNOLOGY:

latest generation PLC with touch screen and standard demand control provide energy savings up to 70%



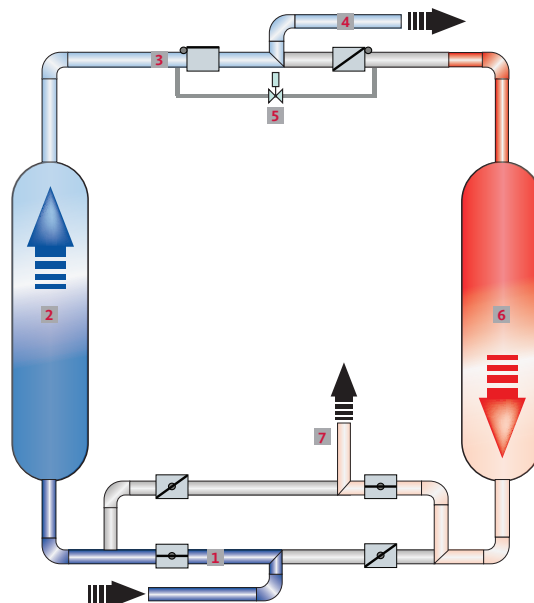
SERVICEABILITY IN MIND:

open frame designs allow for easy access to all major components, thereby simplifying maintenance and reducing PM costs

HIGH END COMPONENTS:

high performance valves with all pipe assemblies fully galvanized

+ Operating Principle



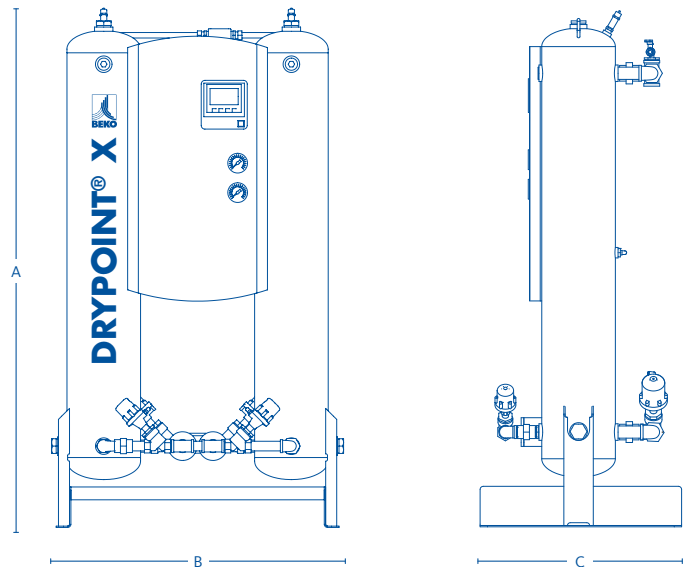
Warm, moisture saturated air enters the dryer through the open inlet valve, a required coalescing pre-filter (not pictured) is installed before entering the drying tower **1**. Air flows upward through the tower **2** where the desiccant extracts and retains water vapor, thereby lowering the dew point, before exiting the top of the tower. The dry air passes through the outlet check valve **3** and passes through the particulate post-filter (not pictured) before exiting the dryer to the air distribution system **4**. A small amount of dry air is diverted from the outlet flow of the drying tower to be used in regenerating the other

tower. This diverted air is controlled by the adjustable purge valve **5** and exits into the regenerating tower at near atmospheric pressure. This dry air flows downward through the tower **6**, absorbing water from the moisture laden desiccant, before exiting near the bottom of the tower. This moist purge air passes through the purge exhaust valve and is vented to open atmosphere **7** through the muffler. After a set amount of time the air flow through the dryer will reverse, turning the drying tower into the regenerating tower.

DRYPOINT® XCp Premium Heatless Desiccant Dryers

with standard humidity control and BEKOTOUCH PLC

| | |
|-----------------------------------|--------------------------|
| Standard pressure dew point | -40 °F |
| Optional pressure dew point | -100 °F (on request) |
| Approx. purge air consumption | 15% at 100 psig / -40 °F |
| Min. / Max. operating pressure | 60 / 150 psig |
| Max. ambient air temperature | 122 °F |
| Min. / Max. inlet air temperature | 40 °F / 120 °F |
| Standard intelligent power supply | 120-240 Vac / 50-60 Hz |
| UL certified controller | |
| IP 65 rated valve assembly | |
| ASME / CRN approved vessels | |



| DRYPOINT® XCp | XCp 80 | XCp 100 | XCp 120 | XCp 160 | XCp 200 | XCp 250 | XCp 300 | XCp 400 | XCp 500 | XCp 650 | XCp 800 |
|-----------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Connection size (NPT) | ¾" | 1" | 1" | 1¼" | 1¼" | 1½" | 1½" | 2" | 2" | 2½" | 2½" |
| Flow Rate (scfm) | 80 | 100 | 120 | 160 | 200 | 250 | 300 | 400 | 500 | 650 | 800 |
| Dimension data | | | | | | | | | | | |
| A (inches) | 69 | 69 | 69 | 69 | 69 | 70 | 70 | 73 | 75 | 76 | 76 |
| B (inches) | 31 | 34 | 34 | 39 | 39 | 45 | 45 | 51 | 54 | 62 | 63 |
| C (inches) | 22 | 24 | 24 | 27 | 27 | 32 | 32 | 36 | 38 | 41 | 44 |
| Weight (lbs) | 128 | 203 | 203 | 311 | 311 | 460 | 460 | 649 | 845 | 1,074 | 1,270 |
| Total fill (lbs) | 95 | 150 | 150 | 230 | 230 | 340 | 340 | 480 | 625 | 795 | 940 |

| DRYPOINT® XCp | XCp 1000 | XCp 1200 | XCp 1500 | XCp 1900 | XCp 2300 | XCp 2800 |
|-----------------------|------------|------------|-----------|-----------|-----------|-----------|
| Connection size (NPT) | 2½" Flange | 2½" Flange | 3" Flange | 3" Flange | 4" Flange | 4" Flange |
| Flow Rate (scfm) | 1000 | 1200 | 1500 | 1900 | 2300 | 2800 |
| Dimension data | | | | | | |
| A (inches) | 90 | 91 | 94 | 94 | 103 | 103 |
| B (inches) | 66 | 66 | 72 | 72 | 91 | 91 |
| C (inches) | 32 | 34 | 44 | 44 | 46 | 46 |
| Weight (lbs) | 1,490 | 1,792 | 2,814 | 2,814 | 4,168 | 4,168 |
| Total fill (lbs) | 1,120 | 1,336 | 2,111 | 2,111 | 3,127 | 3,127 |

Correction Factor

| Operating Pressure (psig) | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
|---------------------------|-----|-----|-----|-----|------|------|------|-----|------|------|
| Correction Factor | .65 | .74 | .83 | .91 | 1.00 | 1.12 | 1.16 | 1.2 | 1.25 | 1.29 |

| Inlet Air Temperature °F | 90 | 95 | 100 | 105 | 110 | 115 | 120 |
|--------------------------|------|------|------|-----|-----|-----|-----|
| Correction Factor | 1.07 | 1.04 | 1.00 | .86 | .73 | .64 | .55 |

Subject to technical errors, changes, omissions and/or corrections without prior notice.