



# DRYPOINT<sup>®</sup> XCe

## Economy 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:

*all models include a feature rich controller with energy saving modes and innovative programming*



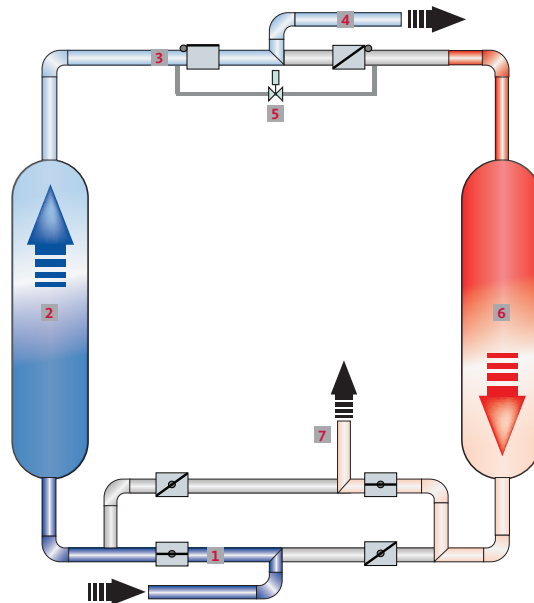
#### SERVICEABILITY IN MIND:

*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



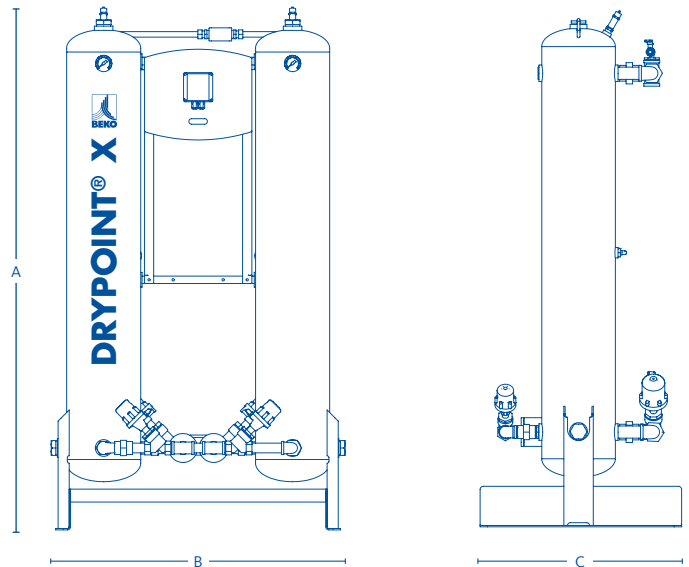
Warm, moisture saturated air enters the dryer through the open inlet valve, a required coalescing pre-filter (not pictured) is installed before entering the drying tower **1**. Air flows upward through the tower **2** where the desiccant extracts and retains water vapor, thereby lowering the dew point, 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® XCe Economy Heatless Desiccant Dryers

with basic controller and slanted seat valves

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® XCe	XCe 80	XCe100	XCe 120	XCe 160	XCe 200	XCe 250
Connection size (NPT)	¾"	1"	1"	1½"	1½"	1½"
Flow Rate (scfm)	80	100	120	160	200	250
Dimension data						
A (inches)	69	69	69	69	69	70
B (inches)	31	34	34	39	39	45
C (inches)	22	24	24	27	27	32
Weight (lbs)	128	203	203	311	311	460
Total fill (lbs)	95	150	150	230	230	340

DRYPOINT® XCe	XCe 300	XCe 400	XCe 500	XCe 650	XCe 800
Connection size (NPT)	1½"	2"	2"	2½"	2½"
Flow Rate (scfm)	300	400	500	650	800
Dimension data					
A (inches)	70	73	75	76	76
B (inches)	45	51	54	62	63
C (inches)	32	36	38	41	44
Weight (lbs)	460	649	845	1,074	1,270
Total fill (lbs)	340	480	625	795	940

## 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.