



Desiccant Drying

DRYPOINT® XF

hyper-intelligent heated desiccant drying

DRYPOINT® XF Heated Desiccant Dryers

■ At a Glance

Regenerative desiccant dryers are frequently found in industrial applications around the world. These dryers use a desiccant material, which adsorbs the water vapor in the air stream. Heated regenerative type desiccant dryers utilize an external heater to regenerate the desiccant in one tower while the other tower dries the compressed air to a very low dew point. The XF models use patented, hyper-intelligent technology and autonomous systems to control the performance and maximize cost savings.

■ Features and Benefits

+ Auto-purge Rate & User Modes

Auto-adjusting purge rates and user presets for fully customizable operation

+ Advanced ecoIntelligent PLC

Automatically calculates the most energy efficient mode of operation at any given time

+ Maximum Energy Savings

Up to 90% energy savings compared to a conventional regenerative dryer

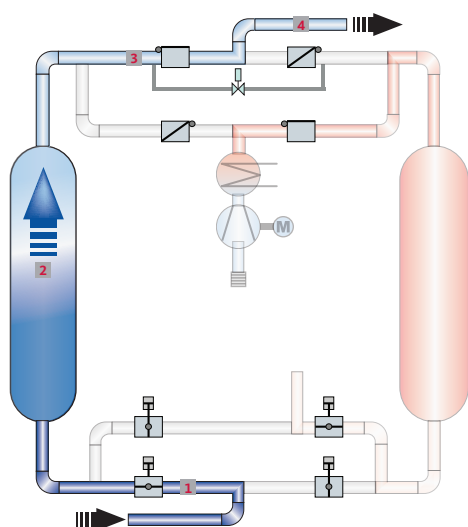
+ BEKOTOUCH 2 Interface

Easy to read, 7" touch screen display with animated P&ID plus free firmware updates

+ Modular Configuration

Engineered to be quickly and easily customized to suit any application with reduced lead-times

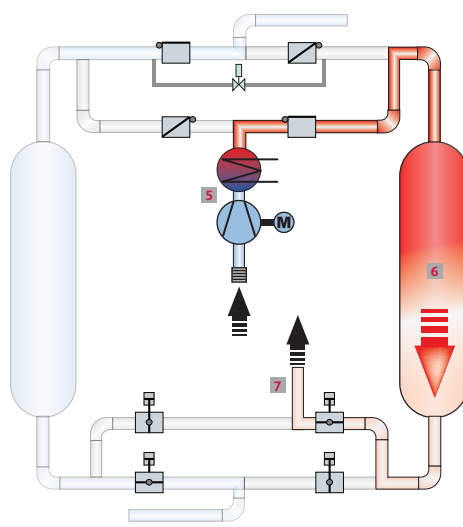
■ How it Works



Adsorption Phase

Extended Operating Cycles

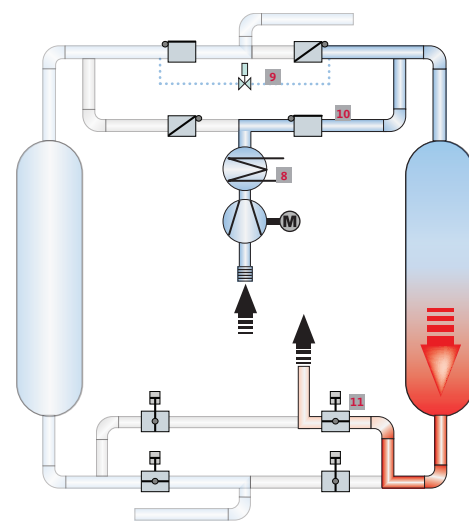
Saturated compressed air enters the dryer and flows through the open inlet valve [1]. Air flows upward through the tower where the desiccant extracts and retains water vapor [2], thereby lowering the dew point, before exiting the top of the tower. The dry air passes through the outlet check valve [3] before exiting the dryer to the air distribution system [4]. The standard dew point demand system extends the adsorption phase up to 24 hours, or until the desiccant reaches a saturated state where regeneration is required, to deliver the desired outlet dew point.



Regeneration Phase

Reduced Regeneration Time and Temperature

The blower forces ambient air across an in-line heater [5] and pushes it into the regeneration tower under atmospheric pressures. This heated, dry air, flows through the tower [6], evaporating water from the moisture laden desiccant, before exiting near the bottom of the tower. This moist air passes through the exhaust valve and is vented to open atmosphere [7]. Based on ambient and system conditions, the advanced ecoIntelligent PLC monitors regeneration to optimize the blower and heater operation, as well as the heater time and temperature to maximize efficiency.



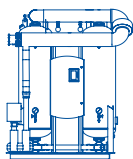
Cooling Phase

Reduced Cooling Time or Reduced or No Purge

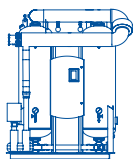
After the heater turns off [8], the blower cools the heater down to a preset temperature. After that temperature is reached, the ecoIntelligent PLC will select the optimal method of desiccant bed cooling, whether via purge air [9] or ambient air [10]. Based on ambient and system conditions, the ecoIntelligent PLC monitors the cooling temperature and optimizes the purge amount from 3% to zero purge for maximum efficiency. After cooling conditions are met, the exhaust valve then closes [11] and the vessel is re-pressurized. The air flow through the dryer will then reverse.

DRYPOINT® XF Heated Desiccant Dryers

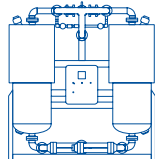
Compare



XFe Series
Economy Heated Blower Purge



XFi Series
ecoIntelligent Heated Blower Auto-purge



ACH Series
Heated Purge

Flow Rates

800 - 6,000 scfm	800 - 6,000 scfm	70 - 4,050 scfm
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Standard Outlet Pressure Dew Point | Optional

-40 °F	-40 °F	-40 °F -80 °F
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Maximum Inlet Air Temperature

120 °F	120 °F	120 °F
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Maximum Operating Pressure | Optional

150 psig	150 psig	150 psig 250 psig
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Average Purge Air

3%	0-3%	7%
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Available Options

Mounted filters, 3-valve bypass, Outdoor package, Dew point demand control, Tower insulation, Valve position indicators, Cover3More extended warranty	Mounted filters, 3-valve bypass, Outdoor package, Tower insulation, Valve position indicators, Cover3More extended warranty	Mounted filters, 3-valve bypass, Dew point demand control, Tower insulation, Cover3More extended warranty
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Product Family

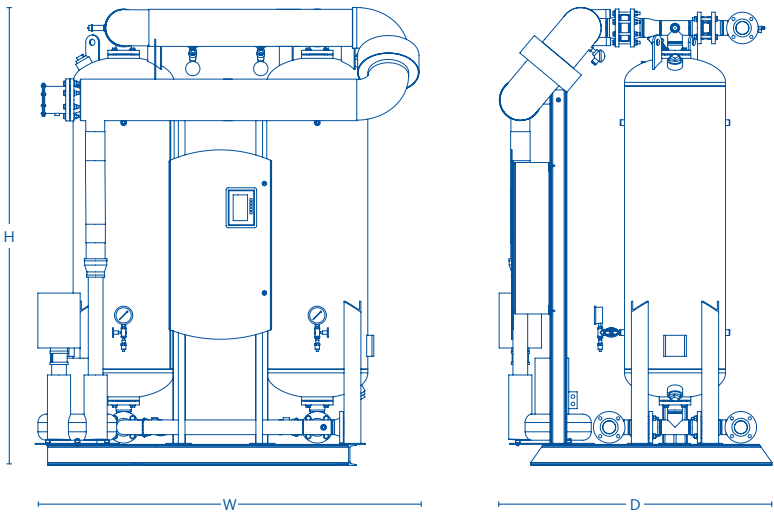


Heat regenerated and blower operated desiccant air dryers

■ Technical Details

DRYPOINT® XFe Economy Heated Blower Purge Desiccant Dryers
with external heated blower, high performance valves and **BEKOTOUCH 2** interface

- › Standard outlet pressure dew point: -40 °F
- › Electrical power supply: 460 VAC / 3 Ph / 60 Hz
- › Required pre-filtration grade SX: .01 µm | Required post-filtration grade FX: 1 µm
- › cUL certified controls with NEMA 4 indoor rating
- › Min. / max. inlet air temperature: 40 °F / 120 °F
- › Min. / max. ambient temperature: 40 °F / 120 °F
- › Min. / max. operating pressure: 60 / 150 psig



DRYPOINT® XFe	XFe 800	XFe 1000	XFe 1200	XFe 1500	XFe 1800
Connection Size (NPT)	2½" Flange	2½" Flange	3" Flange	3" Flange	4" Flange
Flow Rate (scfm)	800	1000	1200	1500	1800
Dimensions and Weight					
H x W x D (inches)	103 x 77 x 56	103 x 78 x 58	109 x 89 x 65	93 x 90 x 66	112 x 89 x 69
Empty Weight (lbs)	3,600	4,050	4,700	5,852	6,957
Total Fill (lbs)	1,260	1,570	1,890	2,370	2,840

DRYPOINT® XFe	XFe 2300	XFe 2800	XFe 3300	XFe 4000	XFe 5000	XFe 6000
Connection Size (NPT)	4" Flange	4" Flange	6" Flange	6" Flange	6" Flange	6" Flange
Flow Rate (scfm)	2300	2800	3300	4000	5000	6000
Dimensions and Weight						
H x W x D (inches)	105 x 118 x 96	119 x 130 x 86	117 x 140 x 101	138 x 133 x 105	136 x 147 x 102	127 x 158 x 97
Empty Weight (lbs)	8,763	10,539	12,419	16,089	16,089	23,456
Total Fill (lbs)	3,640	4,390	5,180	6,260	7,820	9,380

Correction Factor

Operating Pressure (psig)	60	70	80	90	100	110	120	130	140	150
Correction Factor	.65	.73	.82	.91	1.00	1.09	1.18	1.27	1.35	1.44

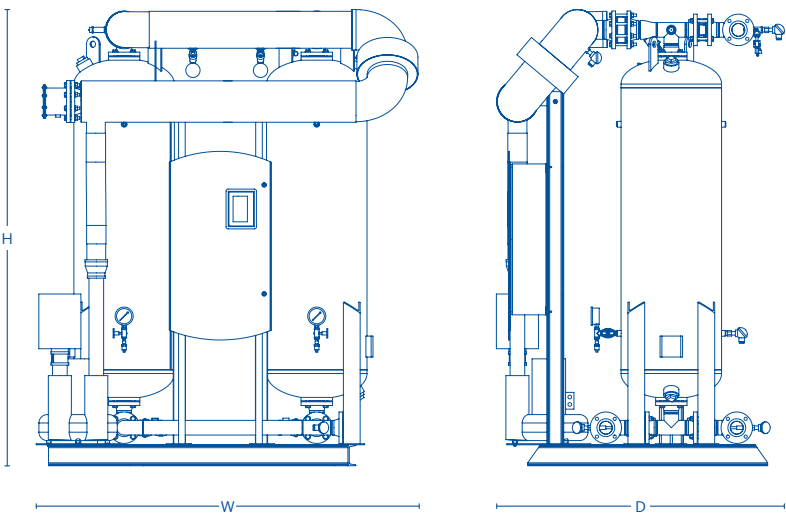
Inlet Air Temperature °F	90	95	100	110	115	120
Correction Factor	1.15	1.06	1.00	.82	.60	.51

The correction factors on this page provide an estimation of the performance that can be achieved with the model sizes shown. Sizing must be done by a product specialist, please consult your BEKO Technologies representative.

■ Technical Details

DRYPOINT® XFi ecoIntelligent Heated Blower Auto-purge Desiccant Dryers
with environmentally aware, auto-adjusting ecoIntelligence software and **BEKOTOUCH 2** interface

- › Standard outlet pressure dew point: -40 °F
- › Electrical power supply: 460 VAC / 3 Ph / 60 Hz
- › Required pre-filtration grade SX: .01 µm | Required post-filtration grade FX: 1 µm
- › cUL certified controls with NEMA 4 indoor rating
- › Min. / max. inlet air temperature: 40 °F / 120 °F
- › Min. / max. ambient temperature: 40 °F / 120 °F
- › Min. / max. operating pressure: 60 / 150 psig



DRYPOINT® XFi	XFi 800	XFi 1000	XFi 1200	XFi 1500	XFi 1800
Connection Size (NPT)	2½" Flange	2½" Flange	3" Flange	3" Flange	4" Flange
Flow Rate (scfm)	800	1000	1200	1500	1800
Dimensions and Weight					
H x W x D (inches)	103 x 77 x 66	103 x 78 x 58	109 x 89 x 65	93 x 90 x 66	112 x 89 x 69
Empty Weight (lbs)	3,600	4,050	4,700	5,852	6,957
Total Fill (lbs)	1,260	1,570	1,890	2,370	2,840

DRYPOINT® XFi	XFi 2300	XFi 2800	XFi 3300	XFi 4000	XFi 5000	XFi 6000
Connection Size (NPT)	4" Flange	4" Flange	6" Flange	6" Flange	6" Flange	6" Flange
Flow Rate (scfm)	2300	2800	3300	4000	5000	6000
Dimensions and Weight						
H x W x D (inches)	105 x 118 x 96	119 x 130 x 86	117 x 140 x 101	138 x 133 x 105	136 x 147 x 102	127 x 158 x 97
Empty Weight (lbs)	8,763	10,539	12,419	16,089	16,089	23,456
Total Fill (lbs)	3,640	4,390	5,180	6,260	7,820	9,380

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Operating Pressure (psig)	60	70	80	90	100	110	120	130	140	150
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Inlet Air Temperature °F	90	95	100	110	115	120
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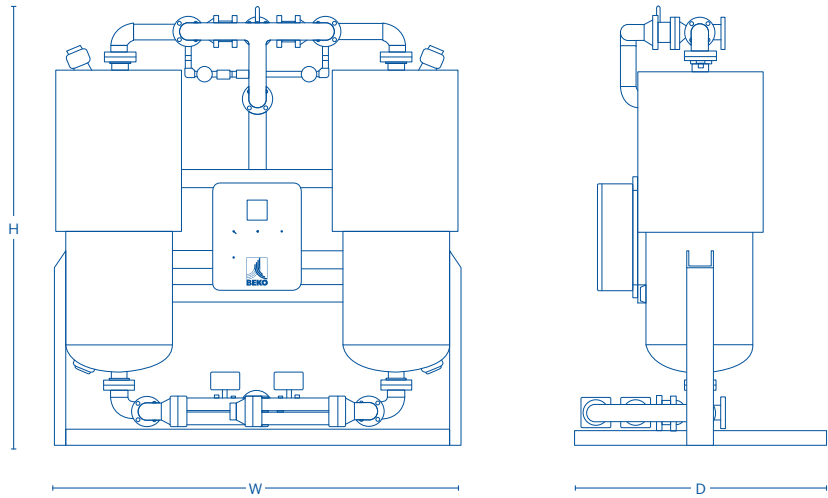
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■ Technical Details

DRYPOINT® ACH Heated Purge Desiccant Dryers

with PLC controller and optional insulation

- › Standard outlet pressure dew point: -40 °F
- › Optional outlet pressure dew point: -80 °F
- › Electrical power supply: 460 VAC / 3 Ph / 60 Hz
- › Required pre-filtration grade SX: .01 µm | Required post-filtration grade FX: 1 µm
- › NEMA 4 indoor
- › Min. / max. inlet air temperature: 40 °F / 120 °F
- › Min. / max. ambient temperature: 40 °F / 120 °F
- › Min. / max. operating pressure: 60 / 150 psig
- › Optional operating pressure: 250 psig



DRYPOINT® ACH	ACH 70	ACH 130	ACH 180	ACH 260	ACH 355	ACH 460	ACH 575
Connection size (NPT)	¾"	1"	1"	1½"	1½"	2"	2"
Flow Rate (scfm)	70	130	180	260	355	460	575

Dimensions and Weight							
H x W x D (inches)	72 x 50 x 22	72 x 54 x 24	90 x 54 x 36	92 x 60 x 24	92 x 62 x 26	96 x 70 x 42	96 x 72 x 30
Empty Weight (lbs)	475	600	700	1,078	1,225	1,372	1,764
Total Fill (lbs)	100	180	250	360	490	640	800

DRYPOINT® ACH	ACH 720	ACH 1010	ACH 1300	ACH 1725	ACH 2350	ACH 3250	ACH 4050
Connection size (NPT)	2½"	3" Flange	3" Flange	4" Flange	4" Flange	6" Flange	6" Flange
Flow Rate (scfm)	720	1010	1300	1725	2350	3250	4050

Dimensions and Weight							
H x W x D (inches)	96 x 90 x 38	96 x 96 x 42	108 x 96 x 56	112 x 104 x 48	120 x 120 x 54	120 x 144 x 56	120 x 144 x 60
Empty Weight (lbs)	2,352	4,704	5,390	6,272	8,036	11,760	12,740
Total Fill (lbs)	1,000	1,400	1,800	2,400	3,300	4,500	5,600

Correction Factor

Operating Pressure (psig)	60	70	80	90	100	110	120	130	140	150
Correction Factor	.65	.73	.82	.91	1.00	1.09	1.18	1.27	1.35	1.44

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+3
Years on all
Products

ask your
**sales
representative**
for complete details
and extend your full
warranty today

Cover3More Extended Warranty Program

We give you more: In addition to a robust, standard 2-year warranty on BEKO Technologies products, we offer our customers the option of extending the standard warranty even further with the **Cover3More** program – a low cost, all-encompassing, and simple warranty extension program.

Secure your future with a minimal investment. The **Cover3More** extended warranty program from BEKO Technologies ensures that your investment is covered for a total of 5-years at a nominal cost.

- › Extends the standard factory warranty for an additional 3-years
- › May be purchased at any time up to 18-months post-sale
- › Can be applied to stocked or installed products
- › No hassle and easy to calculate without any hidden costs
- › Applicable to all product lines
- › 2-year standard warranty covers parts and labor
- › 3-year extended warranty covers parts only, no parts restrictions
- › Significantly reduces your risk of having unexpected costs

Cover3More on the Following Product Lines

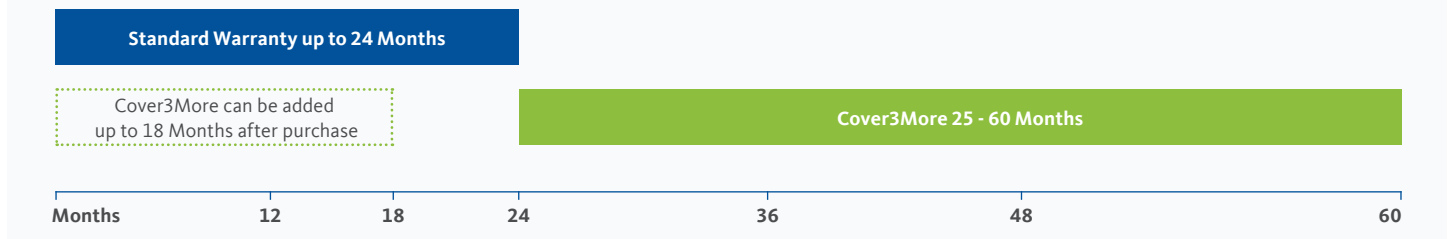
DRYPOINT® RA	Refrigerant Air Dryers	BEKOMAT®	Zero Air Loss Drains
DRYPOINT® X / AC	Desiccant Air Dryers	QWIK-PURE®/ÖWAMAT®	Oil-water Separators
DRYPOINT® M	Membrane Air Dryers	METPOINT®	Instrumentation
CLEARPOINT®	Filters and Water Separators	BEKOKAT®	Hydrocarbon Removal Systems

Reliability you can count on: With the Cover3More extended warranty program, BEKO Technologies not only lengthens the standard warranty period by 3-years from the installation date, but also draws on the company's vast compressed air industry experience to quickly resolve any product problems you may experience in the least disruptive way possible, thereby keeping downtime to an absolute minimum. Should a repair be required, it will be handled by qualified, authorized personnel, and only original parts will be used.

All maintenance procedures, including filter element changes, must be carried out in accordance with the manual in order to maintain any warranty.

Cover3More Extended Warranty Program

■ Compare



■ How it Works

- 1** Select the product or products that you wish to cover with the extended warranty.
- 2** Contact your BEKO Technologies sales representative to help calculate your final net price for extended coverage.
- 3** Include the information received along with your purchase order or purchase the warranty extension up to 18-months post-sale.

What we need from you: It's not much. In fact, if you are purchasing the Cover3More extended warranty with a new equipment purchase, all you have to do is include a line item on your order indicating which items you wish you cover, and we will take care of the rest. If you happen to be adding coverage to a product you've already taken delivery of, then all we need is the company name and contact information of the original purchaser, the product model number of the product to be covered, serial number, and original purchase order number or BEKO Technologies invoice number, and we will apply coverage appropriately. **Please feel free to contact us at +1 (800) 235-6797 to get started.**

What's in the fine print: The optional 36-month warranty extension (i.e. Cover3More) is a limited extended warranty that covers parts only from months 25-60.

However, all of the aforementioned installation, performance, and quality requirements must still be met in order to maintain extended warranty coverage. Failure to do so will render all warranties null and void.

The limited extended warranty coverage may be purchased and applied to any of the BEKO Technologies product lines included in the scope of the Cover3More extended warranty program from the original date of purchase from BEKO Technologies to 18-months thereafter.

Extended warranty coverage may not be purchased during the final 6-months of the standard warranty coverage, which are months 19-24 from the date of shipment or at BEKO Technologies' discretion, the date of installation.

The purchase price of the Cover3More limited extended warranty is not prorated and the current published purchase price is always applied.

Should the extended warranty coverage be purchased post-delivery or post-sale, then the serial number of all products to which the warranty shall be extended must be provided to BEKO Technologies at the time of purchase of the extended warranty.

Reliable | Efficient | Innovative

What can we do for you?



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