



## X-Series High-Efficiency Compressed Air Water Separators



Intelligent Air Technology



# Remove Bulk Water from Your Compressed Air System

## The Problem

Bulk water exists in all compressed air systems which causes problems - corrosion of piping, permanent damage to valves, cylinders, pneumatic tools, machinery and reducing the effectiveness of aftercoolers/heat exchangers.

## The Simple Solution

Over 99% of bulk water can be easily and economically removed by installing a CompAir X-Series High-Efficiency Water Separator. Now, your compressed air system will operate much more efficiently with reduced downtime and maintenance costs. This new, patented technology, will also improve the effectiveness of aftercoolers, refrigerant dryers, filters and other downstream equipment.



Corrosion of Piping



Damaged Pneumatic Tools



Rapid Corrosion of Untreated Aluminum



No corrosion with Alocrom treatment

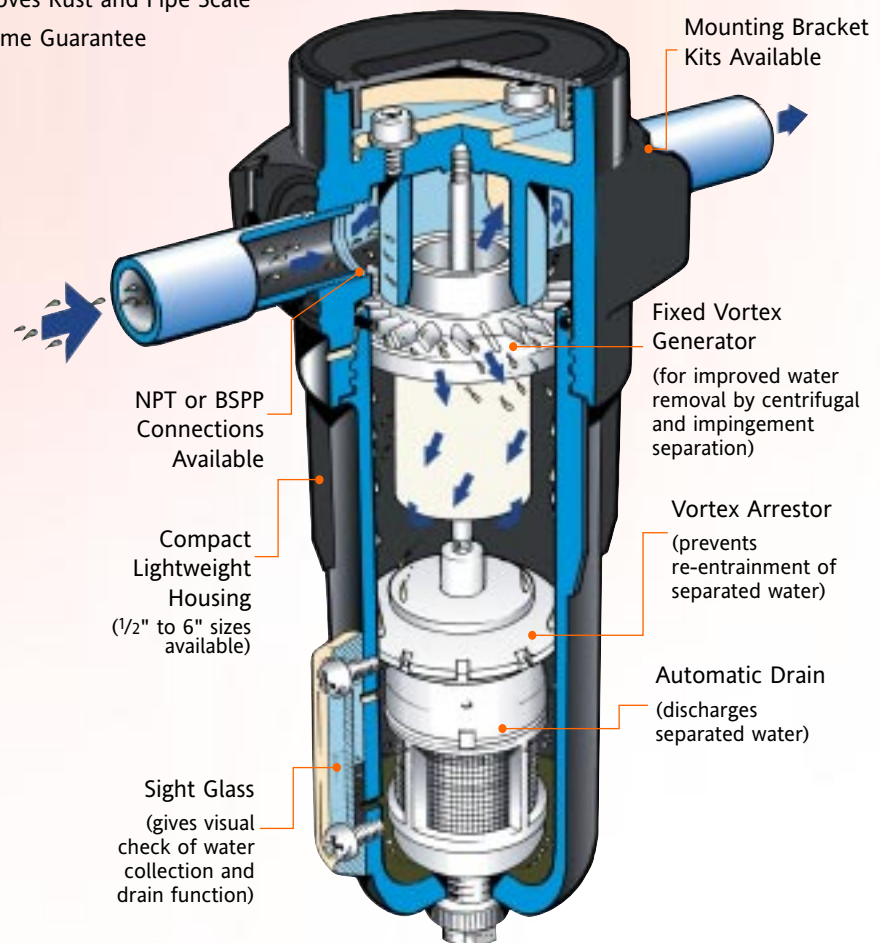
Corrosion protected inside and out with Alocrom treatment. A tough epoxy paint finish is baked on to offer extra long life as seen in the results of a 150 hour salt spray test above.

## Benefits

- 99% Efficient
- Cost-Effective
- Low Maintenance
- Proven Patented Design
- High Flow Rates
- Very Low Differential Pressure
- Automatic Drainage
- Removes Rust and Pipe Scale
- Lifetime Guarantee

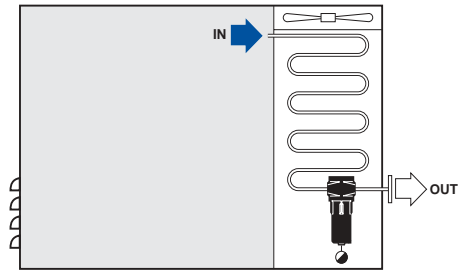
## Options

- Available with Automatic or Manual Drain
- Z-Range Level Sensing Drains
- Mechanical Float Drains
- Timed Solenoid Drains



# Compressors and Aftercoolers

In compressors, condensation occurs between compression stages, and unless effectively removed, causes inefficiency and potential damage. At the aftercooler stage, water will also condense and reduce its ability to achieve maximum air density and minimized power loss. CompAir X-Series High-Efficiency Water Separators positioned at the point of discharge will remove condensed water and improve overall efficiency and reliability.

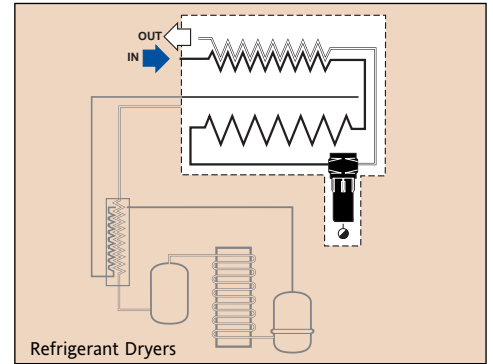


Compressor with Aftercooler

# Refrigerant Dryers

The difficulty with refrigerant based dryers is that water will always condense after the lowest temperature in the heat exchanger. No matter how efficient the heat exchanger can be made, if this condensed water is not removed from the compressed air stream, it will re-evaporate and significantly reduce the dewpoint efficiency.

By installing a CompAir X-Series High-Efficiency Water Separator at the lowest temperature in the heat exchanger, the best possible outlet pressure dewpoint will be achieved. Typically 1.8 °F (+1 °C) above the lowest temperature. [e.g. lowest temperature 35.6 °F (+2 °C), then outlet pressure dewpoint 37.4 °F (+3 °C).]



Refrigerant Dryers

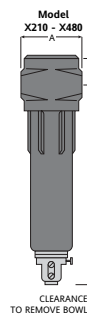
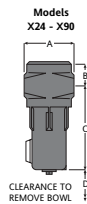
# Technical Specifications

Maximum Operating Pressure:	232 psi g (16 bar g)
Maximum Recommended Operating Temperature:	150 °F (66 °C)
Minimum Recommended Operating Temperature:	(35 °F) 1.5 °C
Typical Pressure Differential at Rated Flow:	0.3 - 0.9 psi (20 - 60 m bar)

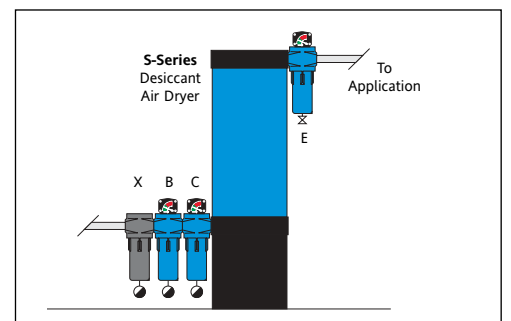
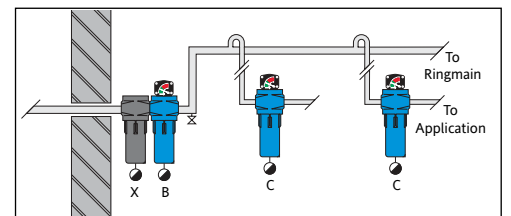
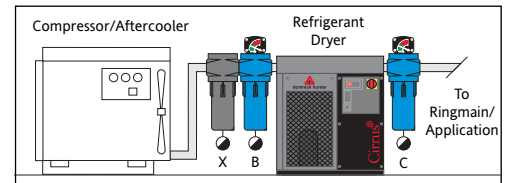
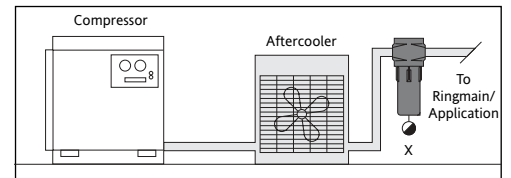
Pressure	psi g	15	44	73	100	131	160	189	218	232
Line	bar g	1	3	5	7	9	11	13	15	16
Correction Factor		0.5	0.71	0.87	1.0	1.12	1.22	1.32	1.41	1.56

# Product Range

MODEL*	PIPE SIZE	FLOW RATES			Dimensions ins.				WEIGHT lbs.
		102 psi g @ (7 bar g)			A	B	C	D	
		NL/s	scfm	Nm <sup>3</sup> /hr					
X24	½ NPT	40	88	144	3.50	1.65	6.22	2.36	2.20
X36	¾ NPT	60	127	216	3.50	1.65	7.65	2.36	2.43
X45	1 NPT	75	159	270	3.35	0.91	7.76	2.36	2.43
X90	1½ NPT	150	318	540	4.72	2.28	9.88	3.15	5.95
X210	2 NPT	350	742	1260	6.30	2.64	20.12	3.94	13.01
X420	2½ NPT	700	1470	2520	7.95	3.03	23.82	3.94	28.44
X480	3 NPT	800	1695	2880	7.95	3.03	23.82	3.94	28.44

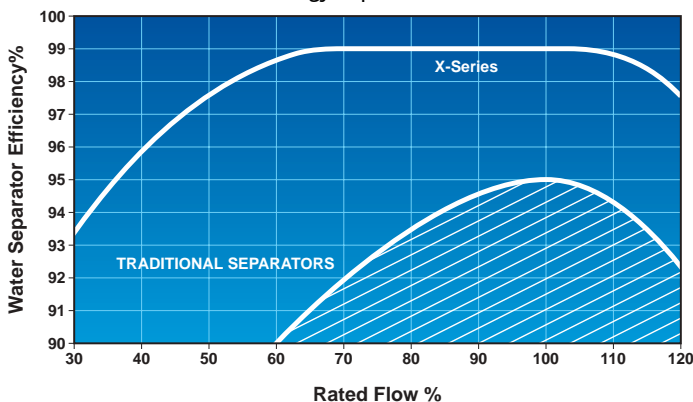


# Recommended Water Separator Installation for High Performance



B = Grade B General Purpose Filter • C = Grade C High Efficiency Filter  
E = Grade E Dust Filter • X = X-Series High-Efficiency Water Separators

X-Series - far exceeds the performance of traditional low technology separators



# Intelligent Air Technology

Compressed air solutions for every application

## Compressors

Up to 2,750 cfm

1 - 604 hp

Up to 6,000 psi

## Lubricated

Rotary Vane

Single-Stage Screw

Two-Stage Screw

Speed Regulated Screw

Piston

Portable

## Oil-Free

Two-Stage Screw

Water-Sealed Screw

Piston

Portable

## Complete Accessories Program

Filters and Dryers

Cooling Systems

Heat Recovery

Condensate Management

Air Receivers

Multi-Set Controllers

Lubricants

## Value Added Services

Air Audit

Performance Reporting

Utility Air

Performance Contracting

## Complete Service for Compressed Air Technology

Engineering of Complete Compressor Stations

Local Service Centers

Guaranteed Parts Availability



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211 East Russell Road  
Sidney, Ohio 45365-0927  
United States of America

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Email sales@CompAirUSA.com

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.

Brochure Re-Order Ref. No. 98700-518  
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CompAir is an ISO 9001 registered company

REGISTERED TO THE ISO 9001:2008  
STANDARD BY THE REGISTER OF QUALITY

