



NON-CYCLING REFRIGERATED DRYER | 75-250 CFM

XCNCA Series



X Series: NeXt-Generation Champion Air Treatment

XCNCA SERIES | NON-CYCLING REFRIGERATED DRYERS

Designed for Worry-Free Air Quality

Champion Refrigerated Dryers make providing continuous dry air as easy as piping a self-contained unit into your compressed air supply line.

Corrosion-resistant heat exchangers, an enhanced control-system and high-efficiency moisture-separation ensure a steady long-term supply of dry air. This virtually eliminates cost due to ruined product finishes, scrapped materials or replacement of pneumatic tools and manufacturing equipment destroyed by wet air.

Optimized for Performance

Our dryers offer multiple design features to ensure a constant dew point and to deliver continuous dry-air performance that satisfies the CAGI industry standards. The dryer's full function control with enhanced control parameters, diagnostics and alarms is more sophisticated and powerful than similarly sized competitive products. We also test every unit to ensure leak-free operation and compliance with operating specifications.

Minimize lifecycle costs with an **efficient,**
reliable and **environmentally-sound**
solution for cleaner, drier air.

Affordable Reliability

At Champion, equipment reliability is paramount to our design and manufacturing. Built to meet stringent quality standards, our refrigerated dryers deliver minimal downtime and highly affordable reliability that customers can count on year after year.

High quality refrigerated dryer design and carefully selected components ensure unmatched reliability.

- Refrigeration system and heat exchanger work together to cool compressed air as it passes through the dryer.
- Cooling process condenses moisture and contaminants, which are removed via a high-efficiency separator and automatically discharged through a disposal drain.
- Precooler/reheater boosts efficiency by lowering refrigeration compressor power and warming outlet air to prevent pipe sweating.
- Optimally sized and matched components maintain consistent dew point performance under varying load and ambient conditions.
- Electrical certified to meet UL safety standards 60335-1 and 60335-2-40.
- Certified to meet ETL safety and performance standards.
- Increased sustainability through the use of R513A refrigerant.





XCNCA Series 75–250 CFM

Our refrigerated dryers provide the features and benefits that provide the **reliability, quality and performance** that you need from your compressed air system.

Quiet Compressor

Our highest-quality, fully hermetic compressor ensures quiet, dependable operation while utilizing R-513A—a sustainable, low-GWP refrigerant engineered for environmental responsibility.

Superior Heat Exchanger

100% corrosive-resistant heat exchanger delivers patented superior heat transfer, lowest pressure drop and extreme reliability.

Highly Efficient Separator

High efficiency separator removes moisture for all applications, even under partial load conditions.

Clog Resistant Condensate Drain

Adjustable electric condensate drain with large port resists clogging.

High Quality Enclosure

Full cabinet made from heavy gauge steel, powder coated to yield a durable finish.

Large Condensers

Generously-sized condensers precisely positioned to avoid any accumulation of dust or debris.

International Air Quality Class Standards

ISO 8573-1 Air Quality Standard

ISO 8573-1, the international standard for compressed air quality, defines the amount of contamination permissible in compressed air.

The ISO standard identifies three primary forms of contamination in compressed air systems: solid particles, water and oil. These contaminants are classified and assigned a quality class, ranging from Class 0, the highest purity level, to Class 6, the most relaxed.

XCNCA Series refrigerated air dryers offer the perfect balance between technology and simplicity to dry compressed air systems to ISO 8573-1 Air Quality Class 4-5 pressure dew points.

Note: Bundle filtration option when purchased with the Dryer (FP)



Standard Pre-Filtration

XC Series GP grade filtration* removes solid and oil contaminants from the air stream before entering the dryer.

ISO Air Quality Class:

- Solids – Class 2
- Remaining oil – Class 4
- Removes solids 1.0 micron and larger
- Remaining oil content < 2.0 mg/m³

Standard After-Filtration

XC Series HE grade filtration* provides high efficiency oil removal protecting downstream equipment.

ISO Air Quality Class:

- Solids – Class 1
- Remaining oil – Class 1
- Removes 99.999+% of solids ≥ 0.01 micron
- Remaining oil content < 0.01 mg/m³

*Filters shipped loose for field installation.

Specifications

XCNCA SERIES | NON-CYCLING REFRIGERATED DRYER

MODEL	INLET FLOW		PRESSURE DROP	VOLTAGE**	IN/OUT CONNECTIONS	POWER CONSUMPTION	REFRIG-ERANT	DIMENSIONS H x W x D		WEIGHT	
	SCFM	NM ³ /H	PSI			KW		INCHES	MM	LBS	KG
XCNCA75	75	120	2.94	115/1/60	¾" FPT	0.66	R-513A	24.3 × 15.2 × 19.7	618 × 387 × 501	94	43
XCNCA100	100	160	3.5	115/1/60	¾" FPT	0.85	R-513A	24.3 × 15.2 × 19.7	618 × 387 × 501	99	45
XCNCA150	150	240	3.2	115/1/60	1½" FPT	0.88	R-513A	37.5 × 19.7 × 30.3	953 × 501 × 770	154	70
XCNCA200	200	321	4.4	115/1/60	1½" FPT	1.12	R-513A	37.5 × 19.7 × 30.3	953 × 501 × 770	170	78
XCNCA250	250	401	5.71	115/1/60	1½" FPT	1.52	R-404A	49.3 × 20.9 × 31.8	1253 × 531 × 531	440	200

Performance data presented in accordance with ISO 7183 (Option A2) conditions: 100°F inlet temperature, 100°F ambient temperature and 100 psig conditions.

Overall dimensions include base, threaded conn., elec enclosure protrusions.

**See pricebook for other voltages.



*Premium Warranty**

1 Year—Standard

4 Years—Extended

5 Years—Total

*Parts and labor included.
Contact your local distributor for more details.

Champion is committed to
delivering **superior products** built with
the **exceptional standards** you expect.

CHAMPION®

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