

# Total Compressed Air Solutions

## Non-Cycling Refrigerated Compressed Air Dryers

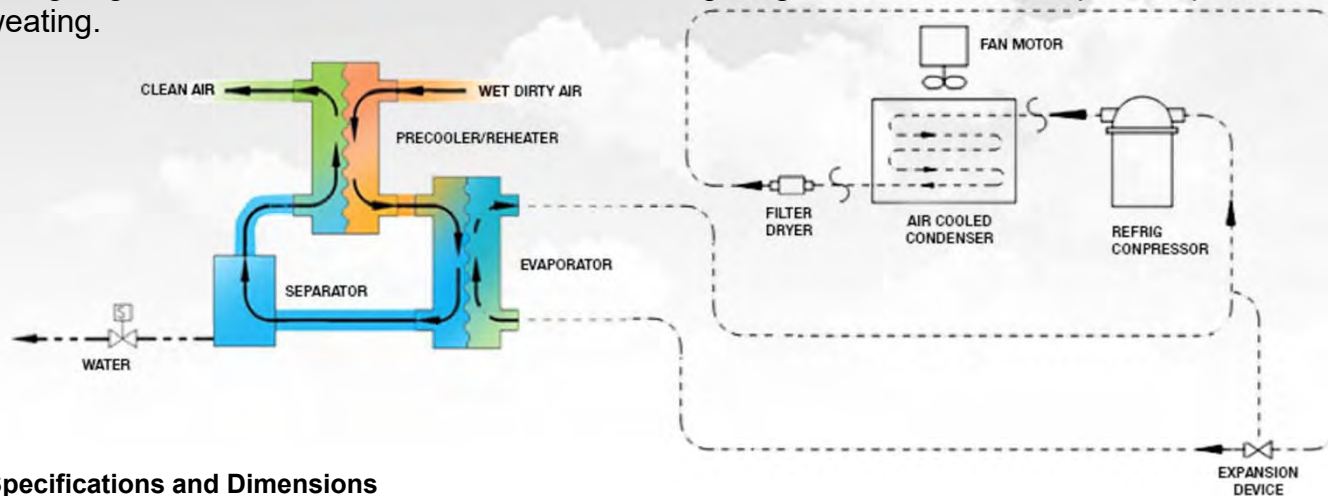
- **WHAT IS AN AIR DRYER?**
- A refrigerated air dryer is used in a compressed air system to eliminate moisture from the compressed air line.
- **WHY DO YOU NEED AN AIR DRYER?**
- To provide continuous, clean, dry air into your compressed air system. The dryer effectively removes gross amounts of water from the air compressor system.
- **TYPE OF AIR DRYERS?**
- There are regenerative, cycling, non-cycling, and high temperature dryers available depending on your application. Refrigerated dryers are used with reciprocating air compressors that generate high heat.
- **HOW DOES AN AIR DRYER WORK?**
- A refrigerated dryer, when installed with a filter, removes contaminants, oil and moisture.
- Clean dry air is then delivered to the point of use, allowing the end user to paint and work with pneumatic tools without harmful moisture.



**FIRST**, the refrigerated air dryer cools the incoming compressed air in an air-to-air heat exchanger. This process causes the outgoing cool dry air to pre-cool the hot incoming air and condense some moisture out.

**NEXT**, the incoming air enters an air-to-refrigerant heat exchanger where the air is cooled to 50° F\* by the liquid refrigerant. **THROUGH** this process the moisture is condensed into liquid water and drained away.

**ALL** of that outgoing air then enters the air-to-air heat exchanger again and is warmed up to keep the outside of the pipes from sweating.



### Air Dryer Specifications and Dimensions

Model	CFM* Capacity	Comparable Compressor HP	Inlet / Outlet Connection Size	Max Inlet Temp ° F	Class 6 PDP*	Voltage Phase Hertz	Dimensions LxDxH (Inches)	Weight (lbs)
IAD15	13	5 RHP	1/2" NPT	158° F	50° F	115/1/60	15.04 x 17.72 x 16.93	55
IAD20	19	5 RHP	1/2" NPT	158° F	50° F	115/1/60	15.04 x 17.72 x 16.93	62
IAD30	27	7.5 RHP	1/2" NPT	158° F	50° F	115/1/60	15.04 x 17.72 x 16.93	70
IAD45	43	10 RHP	1/2" NPT	158° F	50° F	115/1/60	15.04 x 17.72 x 16.93	77

\*Capacity is based on CAGI Standard ADF100. Inlet Temp 100F, Inlet Pressure 100F, Ambient Temp 100F.

(If your application needs to be sized for conditions other than the standard 100/100/100 conditions, you must apply correction factors to properly size your dryer.)