

# Compressed Air Drying System

***Now there's no need to sacrifice quality for quantity when it comes to your air compressors.***

- **Three-stage water removal (knockout, desiccant dryer, and after filter)**
- **High volume, minimal flow and pressure restriction**
- **Desiccant dryer and after filter bypass - automatic drains**

Water and other impurities have long been a problem in compressed air systems; and until now, there has not been a complete system that could remove large quantities without constant maintenance.

## COMPONENTS

The LECO Drying System comes pre-piped on a free-standing skid. A mechanical water knockout is the first step in liquid removal. This twenty gallon vertical tank is designed to swirl the incoming air with very little restriction to the flow and pressure, removing large volumes of water by centrifugal force and gravity. The next stage is an engineered compressed air dryer sized to match the CFM output of the compressed air system. The air from the vertical knockout enters the dryer at the bottom and exits at the top. The dryer has a temperature/pressure gauge mounted on the side and is filled with a desiccant material that absorbs liquids and other impurities as the compressed air stream flows through. The final stage is a high flow after dryer with a 40-micron filter element. A differential pressure gauge serves as a visual indicator to replace the filter. The piping is arranged so that the dryer and after filter can be bypassed for blow-down or other non-critical compressed air uses. Both the knockout and dryer have automatic drains.



## FEATURES

The whole unit can be sized to match the compressor system output up to 150PSI and occupies only 28" x 55" of floor space. Pressure drops and flow fluctuations are minimal throughout the system. The knockout and the dryer both have electrically operated drains with adjustable timers. The final filter mechanically controls moisture by the bowl's moisture level. For general blow-down or other less demanding air uses, the desiccant dryer and final filter can be bypassed.

## SYSTEM COMPONENTS

Water Knockout: 20 gallon ASME tank, 200PSI Max., with specially designed baffles.

Dryer: Model 'D' Van Air, 200PSI Max., desiccant sight glass, SS outlet screen, condensate sight glass, ASME tank., filled w/Dry-O-LiteT desiccant\*

After-Filter: Van Air, 250PSI Max., manual drain, 1" ports, clogged filter indication.

Electric Drains (2): 120V, adjustable/programmable timers



# Lubbock Electric Co.

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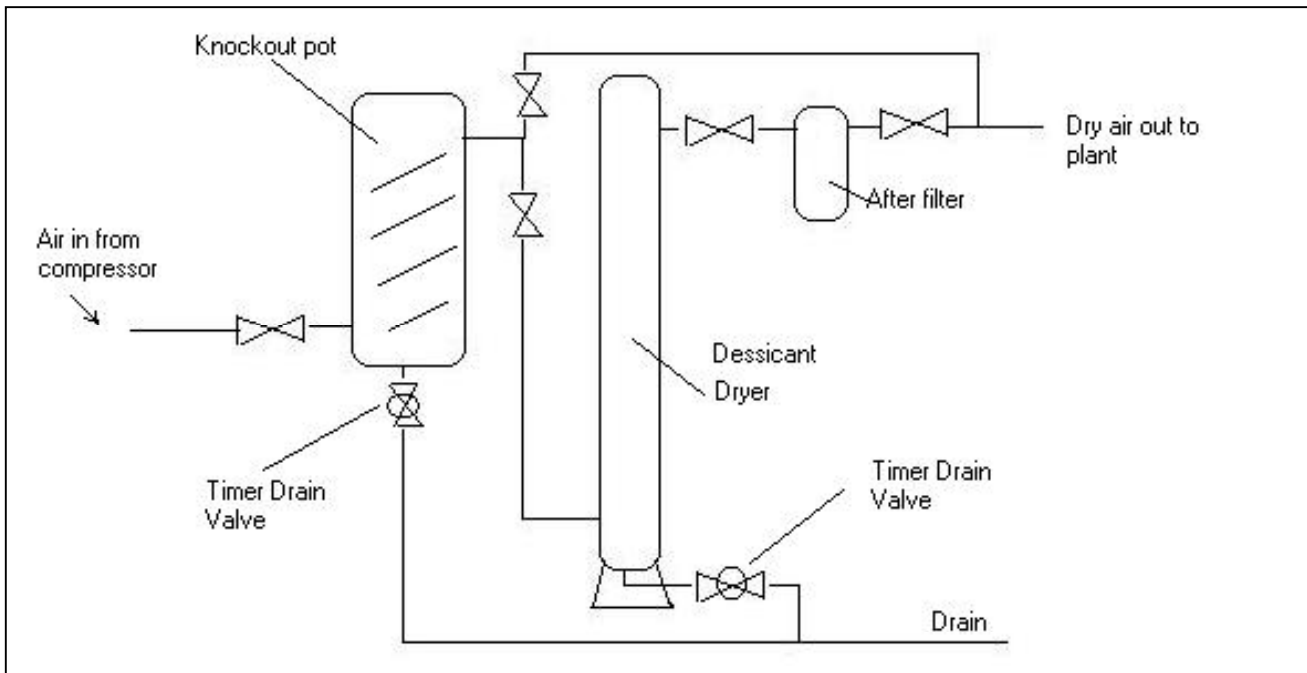
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## LECO Drying System Diagram



### Available Models / Specifications

Assembly No.	Compressor HP	Dryer Model	CFM@ 100 PSIG	CFM@ 125 PSIG	CFM@ 150 PSIG	CFM@ 175 PSIG	CFM@ 200 PSIG	Maximum Working Pressure	Final Filter Size	Desiccant Part No. 50lb. Bag	Desiccant Part No. 50lb. Pail	Desiccant Part No. 500lb. Drum
LECO7150	30	D-12	100	122	144	165	187	250	40	33-311	33-313	33-0203
LECO7175	40	D-16	155	189	223	256	290	250	40	33-311	33-313	33-0203
LECO7200	50	D-20	250	304	359	414	468	200	40	33-311	33-313	33-0203
LECO7250	100	D-24	375	457	538	620	702	200	40	33-311	33-313	33-0203

\*Van Air Systems' Dry-O-LiteT is a low-cost absorbent deliquescent desiccant formulated for single and sequential tower dehydration systems. It is a hard tablet formed from hygroscopic materials that attract and hold moisture. The materials in the compound are non-toxic and are completely soluble in water.

As the desiccant tablet draws water vapor out of the compressed air, the surface of the tablet slowly dissolves and forms a solution, which eventually drops from its surface. The deliquescent desiccant tablet continues to remove moisture and forms this solution until the tablet is entirely consumed. When used in a properly sized single or sequential tower desiccant air dryer, Dry-O-Lite will remove sufficient moisture vapor to establish a 55% RH in the airline.

***Call us today for all of your compressed air needs! We sell Quincy, Kellogg, and Atlas Copco. We service all brands, reciprocal or screw-type.***

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