

**27**  
YEARS  
OF  
EXCELLENCE



**NEW** | DIMENSIONS  
SOLUTIONS

# Laser dryers

The desiccant air dryer

**"The perfect solution for laser cutting"**

- > Guards the lens & other optic system
- > Moisture Indicator to ascertain outlet air quality
- > Purge Economizer offers potential savings
- > Oil Check apparatus for air quality validation
- > AVS safeguards your precise equipment at all time



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## Laser dryers

Laser cutting systems employ a series of expensive and sensitive optical components including lenses, mirrors, and beam delivery systems. These components are susceptible to damage when exposed to contaminated compressed air.

Particulates in the air can erode optical surfaces, while oil and water droplets in the compressed air can form a film on the laser optics, causing beam divergence and distortion, reducing effectiveness of cutting process.

Our LC series Laser dryer offers the perfect solution by delivering clean, dry compressed air round the clock ensuring desired cut quality and accuracy for your components.



### Laser dryer - LC series

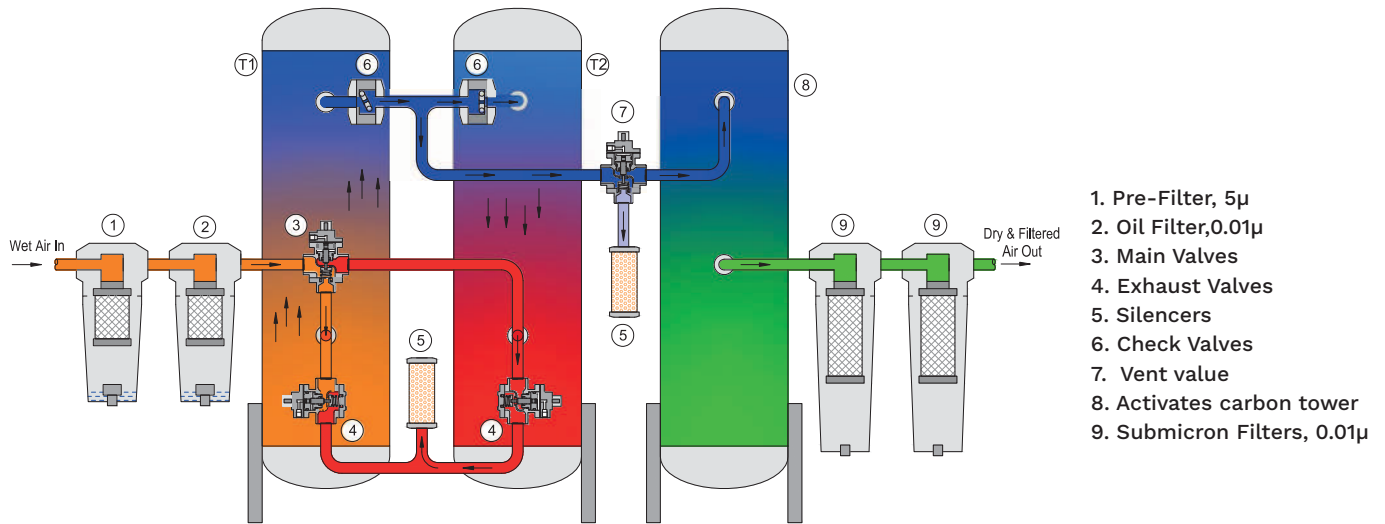
Outlet air quality confirms to ISO 8573-1 standards

Moisture content :  $-40^{\circ}\text{C PDP}$

Residual oil content :  $0.003 \text{ mg / m}^3$

Particles down to :  $0.01 \text{ micron}$

## Schematic diagram



Coalescing filters of 5 micron (1) and 0.01 micron (2) remove bulk moisture and liquid oil from the compressed air. This pre-treated air diffuses to the bottom of the adsorber (T1) and passes through the desiccant bed which adsorbs moisture and dries the air. Dry air leaving the adsorber (T1), is further treated by Activated carbon tower (8) and Submicron filters (9). Activated carbon tower removes traces of oil vapour and submicron filters remove particles down to 0.01 micron making compressed air suitable for laser cutting process. AVS system (7) ensures 100% clean compressed air to the application at all time.

## Engineered the best



Moisture indicator

Inbuilt Moisture indicator helps to ascertain outlet air quality instantly in terms of moisture content.



Micron Filters

4-step air purification process with borosilicate depth filter media in removes bulk moisture and oil completely.



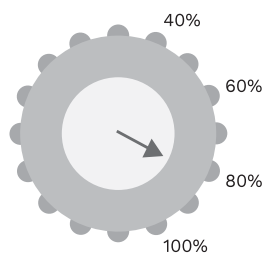
Oil check Apparatus

Oil check apparatus helps to measure the oil content in the outlet air down to 0.1 to 0.2mg/m<sup>3</sup>



Auto vent system (AVS)

Prevents untreated air entries to the Laser cutting head.



Purge Economizer

Purge Economizer offers potential saving during varying load conditions,



Activated Carbon

Activated carbon bed removes oil vapor content down to 0.003mg/m<sup>3</sup> and offers technically oil-free air.



## Flow rates and Dimension

S. NO	Product Model	FAD cfm	In/Out	Width mm	Depth mm	Height mm	Weight kg
1	LC 004 DL	40	1/2"	700	600	1700	260
2	LC 006 DL	60	3/4"	700	700	1700	290
3	LC 008 DL	80	1"	700	700	2250	330
4	LC 010 DL	100	1"	1000	700	1750	400
5	LC 012 DL	120	1"	1000	700	1970	450
6	LC 015 DL	150	1"	1200	800	1770	520
7	LC 020 DL	200	1-1/2"	1200	800	2200	580
8	LC 025 DL	250	1-1/2"	1300	900	1950	700



### Common technical data

Pressure	: 12 to 16 bar g
Inlet temp.	: 45°C
Ambient temp.	: 40°C
Air humidity	: 100%
Installation	: Indoor
Power supply	: 230V AC 50Hz

### Nomenclature

LC 010 DL →  
 LC: Series name  
 010 x 10 = 100 cfm  
 D: 16 bar g  
 L: -40°C PDP

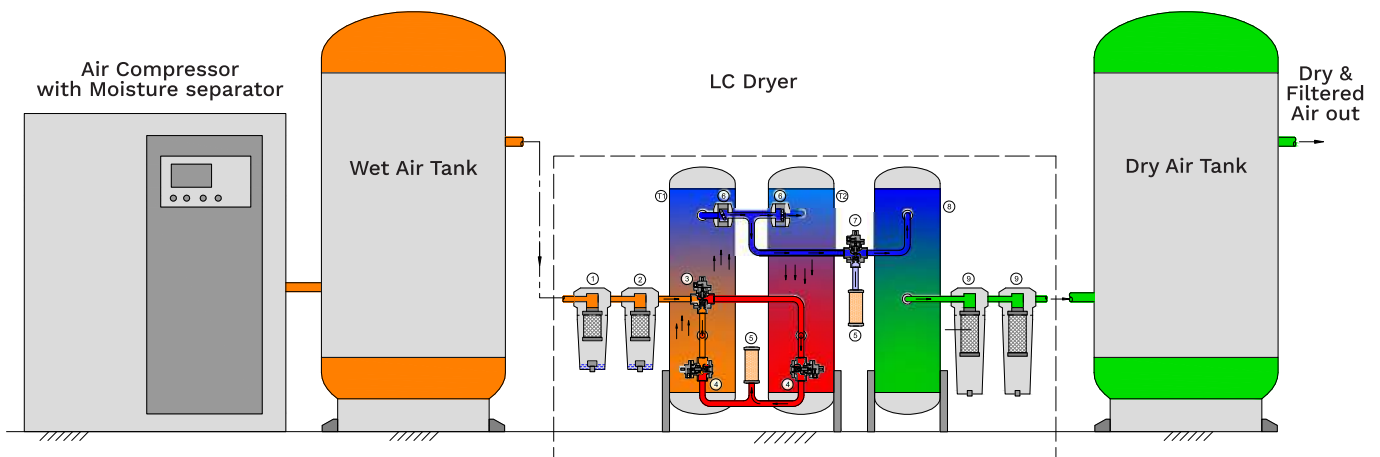
### Pressure variants

D : 12 to 16 bar g  
 E : 16.1 to 40 bar g  
 F : 40.1 to 70 bar g

### Dew point variants

L: -40°C at 12 bar g  
 Other upon request

## Recommended Installation layout



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SHPL/LC/01-R00

