

Made in Italy 

# LASER SERIES

ROTARY SCREW COMPRESSORS

VARIABLE SPEED

Single stage high pressure up to 20 bar



## PLUG & PLAY Solution

Complete air compression and treatment unit  
Designed and sized according to the customer's requirements.

## A unique solution on the market thanks to Adicomp's experience

Onair, a new brand entirely dedicated to air compression, comes from the twenty-year experience of Adicomp, world-leading company in the production of special and gas compressors, with a range fully dedicated to high pressures

### Applications

The LASER series compression units are designed for intensive use, and are known for their high efficiency. Compact and quiet, they have been specifically designed for laser cutting industrial environments, which therefore require air flow rates at high operating pressures.

Use of the LASER series Onair systems therefore allows to cut by air, thus avoiding the use of nitrogen and considerably saving money. Fully designed and made in Italy, the last generation screw compression units of our parent company Termomeccanica are capable of reaching pressures up to 20 bar.

This particularity allows LASER compressors to be extremely versatile and suited to all compressed air requirements at different operating pressures.



### Range of models

- Up to 16 bar
- Up to 20 bar

### Pumping Unit

All the Onair line compressors are equipped with a pumping unit from our parent company Termomeccanica with operating pressures guaranteed of up to 20 bar.

### ABB Inverter

The use of the inverter on all the LASER series models ensures that the compressor flow rate follows the compressed air consumption in real time. This way, there is considerable energy saving since the motor absorbs electric power only according to the actual demand for compressed air. Use of the inverter also makes it possible to achieve higher operating pressures to improve performance even in air treatment. This system can also considerably reduce the size of the initial tank or even make it unnecessary.



### WIDE RANGE

The LASER series compressors are available in a wide range of powers and pumping units with pressures up to 20 bar. The compressors can be figured in the steady fixed speed version, or with a variable speed inverter (INV).



### GREEN VOCATION

Thanks to the use of highly efficient electric motors with service factors 1, the Onair compressors minimise energy consumption. The noise level of the machine is also low, thanks to a careful study of the cabin ergonomics and the use of a new type of radial electric fans



### PLUG & PLAY

The compact design of the LASER compressors makes installation quick and easy. In fact, simply connect the machine to the power and pneumatic line and the compressor is immediately operational. Routine maintenance is easy, since all the internal mechanical parts can be easily accessed and inspected.



### TRANSPORTABILITY

The panel at the base and the compact dimensions of the LASER compression control units make it possible to easily lift and transport them using a forklift or pallet truck. You may also request the Plug & Play solution on skid which includes a base for handling via forklift or pallet truck.



### ELECTRONIC BOARD

The controller installed on the LASER compressors is used to view and set the main operating parameters of the machine both via the integrated keypad and remotely, simply by connecting the compressor to a PC. The graphic interface of this electronic board makes it possible to immediately view alarms, operation notifications and all information on maintenance.



The board is designed to control up to 4 compressors in "master-slave" mode. By using a plug&play, wi-fi or cable configuration, it is also possible to control the compressor remotely by simply using a PC or tablet, thus considerably reducing the intervention times and costs.

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## AIR TREATMENT ISO 8573-1

ISO class 8573-1:2010	Particulate			Mass concentration mg/m <sup>3</sup>	Water		Oil Total oil (aerosol, liquid and vapor) mg/m <sup>3</sup>
	Maximum quantity of particulate per m <sup>3</sup>				Dew point in vapor pressure	Liquid g/m <sup>3</sup>	
	0,1 - 0,5 micron	0,5 - 1 micron	1 - 5 micron				
0	Based on the specifications of the user or supplier of the appliance and on the strictest standards with respect to that set forth by Class 1						
1	≤ 20.000	≤ 400	≤ 10	-	≤ -70 °C	-	0,01
2	≤ 400.000	≤ 6.000	≤ 100	-	≤ -40 °C	-	0,1
3	-	≤ 90.000	≤ 1.000	-	≤ -20 °C	-	1
4	-	-	≤ 10.000	-	≤ +3 °C	-	5
5	-	-	≤ 100.000	-	≤ +7 °C	-	-
6	-	-	-	≤ 5	≤ +10 °C	-	-
7	-	-	-	5-10	-	≤ 0,5	-
8	-	-	-	-	-	0,5 - 5	-
9	-	-	-	-	-	5 - 10	-
X	-	-	-	> 10	-	> 10	> 10

The flexibility and technical skills of Onair allow the customer to achieve the air quality necessary for their laser cutting application with reference to **ISO standards**.

### Cooling system

A new type of radial electric fans is used in the LASER series compressor cooling system, which ensure high cooling performance of the machine and at the same time reduce its noise.

Moreover a further chiller air cooler is inserted in the air treatment system, specifically sized so as to avoid in-line condensation, therefore allowing the dryer and filters to work at the maximum of their efficiency.

**ONAIR is a brand of**

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