

Air Compressor series

CZA AIR GENERATOR



Feb. 2018

CINEL® s.r.l.
Gas Generators Technology



DESIGN AND PRODUCTION
OF LABORATORY
GAS GENERATORS

Compressor CZA

The Air Compressor model CZA is designed specifically to supply Dry Air to feed the Zero Air purifier for FID Application. The compressed air passes through an internal coalescent filters to eliminate water and particles up 0,01 micron, then through a specific dryer for the residual humidity. The internal reservoir of Air allows the system to automatically go into stand-by mode.

Dry Air for Zero
Air Generator

Technical data

Application

STANDARD AIR FLOW RATE	up to 15 l/min
OULET PESSURE (MAX)	7 bar
INPUT VOLTAGE	110 or 230 V - 50 or 60 Hz
WEIGHT	50 Kg
POWER CONSUMPTION	600 W
INDEX OF PROTECTION	IP2
TEMPERATURE	+5°C to +30°C
RELATIVE HUMIDITY	0-80%
SOUND PRESSURE LEVEL	<50 dB(A)
INTERAL TANK	5 l
OUTPUT PORT	G 1/4
CASE DIMENSIONS	60x45,5x70,5 cm (WxDxH)



ZA series
ZERO AIR
GENERATORS



"Design and production
of laboratory
gas generators"



The constant supply
of zero grade air from an existing air source





Description

The CINEL ZA series Air Generators produce laboratory grade purified and hydrocarbon free air from an existing in house oil free compressed air supply or from our CZA oil free compressor, eliminating the need for inconvenient high-pressure gas cylinders. The CINEL ZA Series Zero Air Generators remove HC pollutants to less than 0.1 ppm, CO to less than 0.1 ppm and all kinds of particles.

The system is designed to be a complete turnkey, is easy to install, and requires only minimal annual maintenance. The pretreated air passes through a coalescent filter to eliminate oil, water and the particles higher than 5 microns. The hydrocarbons including methane are removed by oxidation on a platinum/palladium catalyst heated at high temperature. A particle filter at the exit of the catalyst, makes it possible to eliminate the residual particles from outgoing flow.

Application

GC-FID
GC-FPD, GC-NPD



Technical data

	ZERO AIR 1500	ZERO AIR 3000	ZERO AIR 6000	ZERO AIR 10000	ZERO AIR 15000
ZERO AIR FLOW RATE	1.5 l/min	3 l/min	6 l/min	10 l/min	15 l/min
HC & CO out	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm
MAX CO in	50 ppm	50 ppm	50 ppm	50 ppm	50 ppm
MAX HC in	100 ppm	100 ppm	100 ppm	100 ppm	100 ppm
MAX TEMP. in	40 °C	40 °C	40 °C	40 °C	40 °C
PRESSURE in	4.5 - 10 bar	4.5 - 10 bar	4.5 - 10 bar	4.5 - 10 bar	4.5 - 10 bar
PRESSURE drop	< 1 bar	< 1 bar	< 1 bar	< 1 bar	< 1 bar
STABILITY	30 min	30 min	30 min	30 min	30 min
IN/OUT CONNECTIONS	IN: G 1/4 OUT: G 1/8	IN: G 1/4 OUT: G 1/8	IN: G 1/4 OUT: G 1/8	IN: G 1/4 OUT: G1/8	IN: G 1/4 OUT: G1/8
INPUT VOLTAGE	110 or 230 V - 50 or 60 Hz	110 or 230 V - 50 or 60 Hz	110 or 230 V - 50 or 60 Hz	110 or 230 V - 50 or 60 Hz	110 or 230 V - 50 or 60 Hz
WEIGHT	13 kg	13 kg	13 kg	16 kg	16 kg
DIMENSIONS	28x43x17 cm (WxDxH)	28x43x17 cm (WxDxH)	28x43x17 cm (WxDxH)	28x43x17 cm (WxDxH)	28x43x17 cm (WxDxH)
WORKING TEMP.	Amb. +20°C	Amb. +20°C	Amb. +20°C	Amb. +20°C	Amb. +20°C
INDEX OF PROTECTION	IP2	IP2	IP2	IP2	IP2
POWER CONSUMPTION	350 Watt	350 Watt	350 Watt	700 Watt	700 Watt