NANO HC

Integrated Hot Catalysis THC Removal

Leman Instruments

DESCRIPTION:

LEMAN Instruments designed the NANO HC to fit almost any application that needs an independent supply of THC-free gas close to the consumer, in the same elegant, compact laboratory casing as the NANO ZA and NANO N2, that can be stacked into our NANO TOWER or used independently.

The NANO HC integrates a hot catalysis module directly into the NANO casing. Gas, supplied from central distribution or an external compressor — air, N2, O2, or any other compatible gas — is processed through the hot catalysis process to remove THC. After the purification process, gas is filtered of remaining particulates down to 0.01µm. This is a pure catalysis process with no pressure regulation: outlet pressure follows the inlet pressure.

A model with an outflow of up to 3 NL/min is available, delivering <50 ppb THC, CO, and CH4.

This system has been developed to be flexible across gas types: it is used in general on an AIR line but can remove THC from N2, O2, or any other gas within the manufacturer's recommendation.

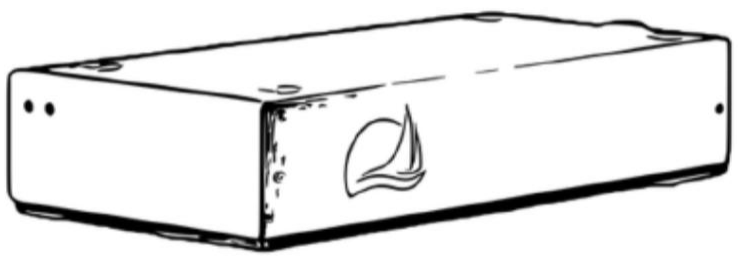
The NANO HC concept is to be touched one time once the installation is done, and then this is it. There are no consumables or short-term maintenance to do. It can be stacked into the NANO TOWER combined gas generator solution or used totally independently.



APPLICATION TYPES:

- Any gas line that requires THC removal
- Any application, any condition





FEATURES:

- No maintenance.
- Extremely affordable.
- Flexible use on different gases.
- Improves resolution and detection limit. Provides high pressure stability.
- Gas without THC available 24/7.
- Independent source of THC-free gas. Needs only dry, oil-free gas and electricity. Can be easily moved around the laboratory.
- No handling, no storage, no cylinder rental fee.



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MODELS	NANO HC
Max Gas Outflow @1013 / 20°C	NANO HC: 3 LPM
Output Gas purity	<50ppb THC · <50ppb CO · <50ppb CH4 · particulates <0.01µm
Output Gas Pressure	No pressure regulation — follows inlet pressure
Dimensions cm / in	L: 43cm / l: 23cm / H: 10cm (16.9in / 9in / 3.9in)
Net weight (kg/lbs)	8kg / 17lbs*

Input Gas quality	Oil-free and dried gas (min -20°C dew point)
Input Gas Pressure	Maximum 10 bar (145 psig)
Manual control	None — no pressure regulation
Input & Output fittings	Stainless steel 1/8" compression
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption	Maximum 100W