WHC

Wall Hot Catalysis Module

Leman Instruments

DESCRIPTION:

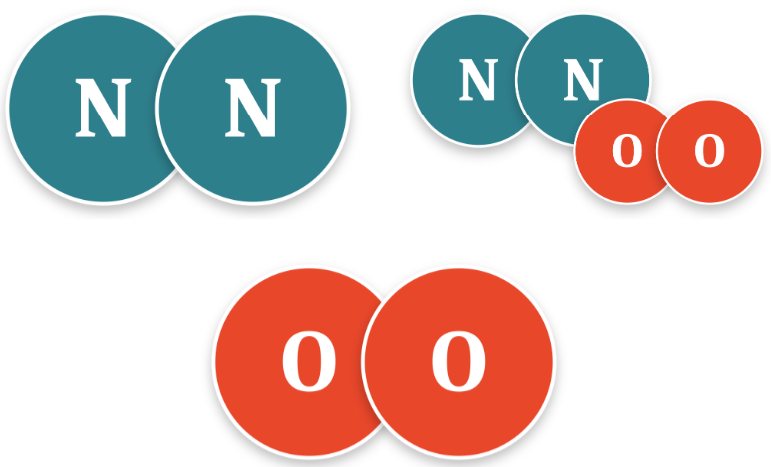
Leman Instruments designed the WHC, a high-purity THC-free gas module to fit almost any application within its specifications. Simple and close to the consumer, it is mostly designed for special integrations or wall-mounted installation.

Compressed gas, supplied from central distribution or an external air compressor, is processed through a hot catalysis process, which removes 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.

This system has been developed to be integrated into variable installations under the OEM concept, or directly on a gas line.

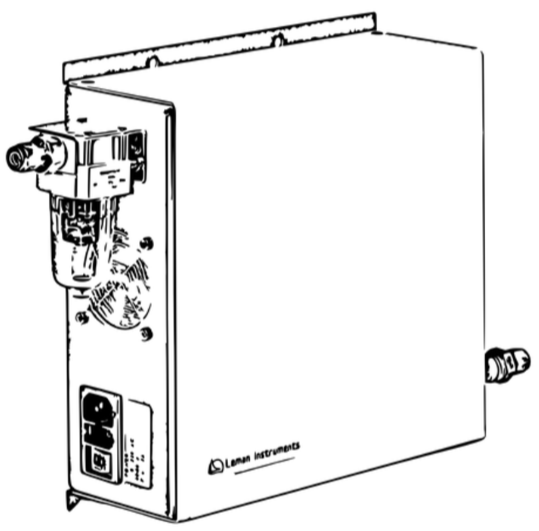
This system is generally used on an AIR line, but it can remove THC from N2, O2, or any other gases within the manufacturer's recommendation.





APPLICATION TYPES:

- Carrier and detector gas polishing for GC/GC-MS
- Final HC scrubbing stage for ICP-MS argon lines
- Baseline improvement for FID and other combustion detectors
- Retrofit upgrade for existing N2, Air, or O2 generator lines
- OEM integration into third-party instruments



FEATURES:

- No maintenance. Extremely affordable.
- Flexible use with different gases.
- Improves resolution and detection limit. Provides high pressure stability.
- Gas without THC is available 24/7.
- Independent source of gas THC free. Needs only dry, oil-free gas and electricity.
- Can be easily moved around the laboratory or placed differently on a line.
- No handling, no storage, no cylinder rental fee.
- Vertical and extra compact integration for space-saving.

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MODELS	WHC
LPM Outflow @1013 / 20°C	3 L/min
Gas purity	50ppb THC · 50ppb CO · 50ppb CH4 · particulates <0.01µm
Outlet Pressure	No pressure regulation — follows inlet pressure
Dimensions cm / in	L: 8.7cm / l: 31cm / H: 25.5cm (3.4in / 12.2in / 10in)
Net weight (kg/lbs)	5kg / 11lbs

Gas quality	Oil-free and dried gas (min -20°C dew point)
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 at full flow
Ambient Temperature	+5 to +35°C