



Chromatec Catalytic Purifier 20.0 series

Oxygen in carrier gas and hydrocarbons in air are the most critical impurities for gases in gas chromatography. Catalytic purifier suggests a solution for both above demands, providing cost effective and high performance purification suitable for most gas chromatography application.

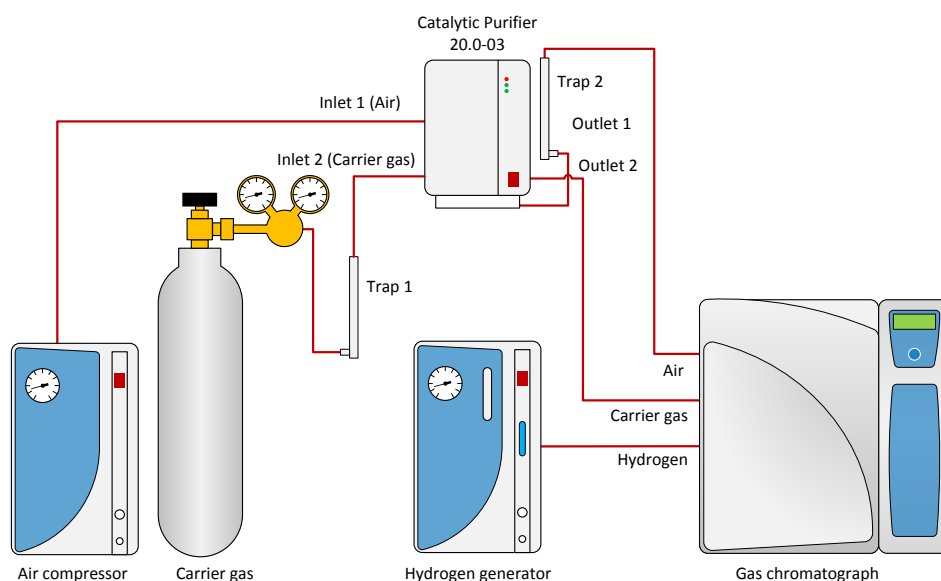
Key features:

- Purifier doesn't require consumables at running
- Catalytic removal of hydrocarbons in air flow
- Regeneration of oxygen removal channel

Application range:

- Fuel gas for gas chromatography detectors: FID, NPD, FPD/PFPD, CCD, SCD
- Carrier gas for gas chromatography
- Fuel gas for gas analyzers based on FID, SCD detectors
- Suitable for GC-MS in combination with additional purifiers

Typical flow diagram of Catalytic Purifier 20.0 connection:



Technical Specification:

Model	20.0-01	20.0-02	20.0-03
Product Number	451-0511	451-0512	451-0513
Purification of air from organic impurities	Yes	-	Yes
Purification of inert gases from oxygen	-	Yes	Yes
Operating temperature of reactor, °C	400	400	400
Warm-up time, min, not more	30	30	30
Maximum air flow, ml/min	700	-	700
Max flow of inert gas, ml/min	-	500	500
Maximum content of organics in output air, as a methane, mg/m ³ (at max content of organics, as a methane, 50 mg/m ³ in input air flow)	0.1	-	0.1
Maximum content of oxygen in output gas (at max O ₂ content 0,08 % vol. in input gas), ppm	-	0.1	0.1
Oxygen trapping capacity, L	-	10	10
Maximum pressure drop at reactor (at 600 ml/min air flow), MPa	0.08	-	0.08
Maximum pressure drop at reactor (at 100 ml/min inert gas flow), MPa	-	0.08	0.08

Note: Oxygen channel is regenerated in hydrogen flow at working temperature

Environmental Conditions:

Ambient Operating Temperature:	from 10 to 35°C
Relative humidity:	not more than 80 %
Storage Temperature:	from -50 °C to 50°C
Power Requirements:	~220V ±10%, 50±1Hz
Power consumption:	700W (max), 100W (average)

Other specification:

Dimensions: (WxDxH);	219 mm x 168 mm x 327 mm
Weight:	5 kg
Fittings	1/8"

Safety and Certification:

Products designed and manufactured under regulations of GOST R ISO 9001 quality standard.

At electromagnetic compatibility hydrogen generators meets the requirements of IEC 61010-1, CE-certified as a part of chromatograph "Chromatec-Crystal 9000"

Information and technical specification in this publication are subject to change without notice.

For more information please contact us at:
 info@chromatec-instruments.com
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