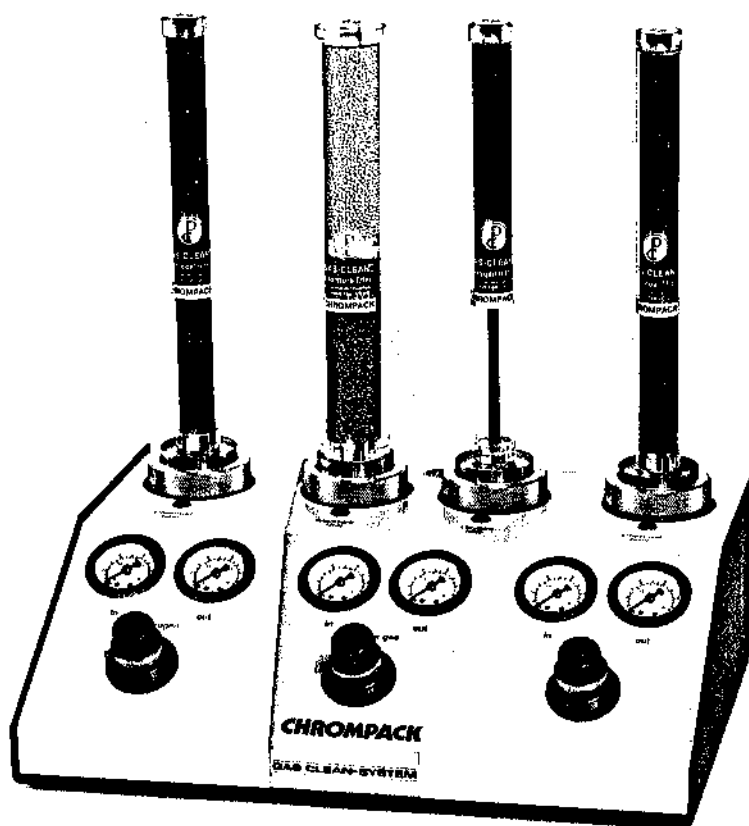




CHROMPACK

USERS MANUAL



GAS CLEAN SYSTEM

USERS MANUAL GAS CLEAN SYSTEM

M7985-86-1

<u>Table of contents</u>	<u>Page</u>
1. General	2
2. Description	2
3. Installation	3
4. Remarks	5
5. Warranty	6
6. Chrompack offices	

1. General

The Gas Clean System enables you efficient and surveyable filtering of gases needed in gas chromatography.

Instead of using a number of independant connecting units, with or without constant pressure regulators, the Gas Clean System combines everything that is necessary to operate one or more gas chromatographs, in just one unit.

Carrier gas, air and hydrogen (for FID supply) are filtered and pressure regulated with the Gas Clean-System.

2. Description

The Gas Clean Unit includes 4 connecting units for Chrompack Gas Clean filters, 6 pressure gauges (0 - 10 bar) and 3 constant pressure regulators (0 - 7 bar).

Pressure gauges indicate pre-pressure of gas supply and pre-pressure of the gas chromatographic system.

Caution: Pre-pressure of gas supply may never exceed 7 bar (100 psi).

Constant pressure regulators enable you proper setting of desired pre-pressure of your gas chromatographic system.

For efficient filtering of carrier gas 2 filters are used in series: - Gas Clean Moisture filter and Gas Clean Oxygen filter.

Filtering of FID supply: - Gas Clean Charcoal filter (for air as well as hydrogen).

Connecting units and Gas Clean filters make filtering of gas streams simple and efficient.

3. Installation

- 3.1. Choose proper place for installation of the Gas Clean System.
- 3.2. Connect gas supply lines to corresponding inlets (1/4" male connectors) at rear of the unit.
If 1/8" tubing is used reducers 1/4" pipe to 1/8" thread are necessary (Cat.no. 4892).

Caution: Only metal tubing is recommended for gas lines.

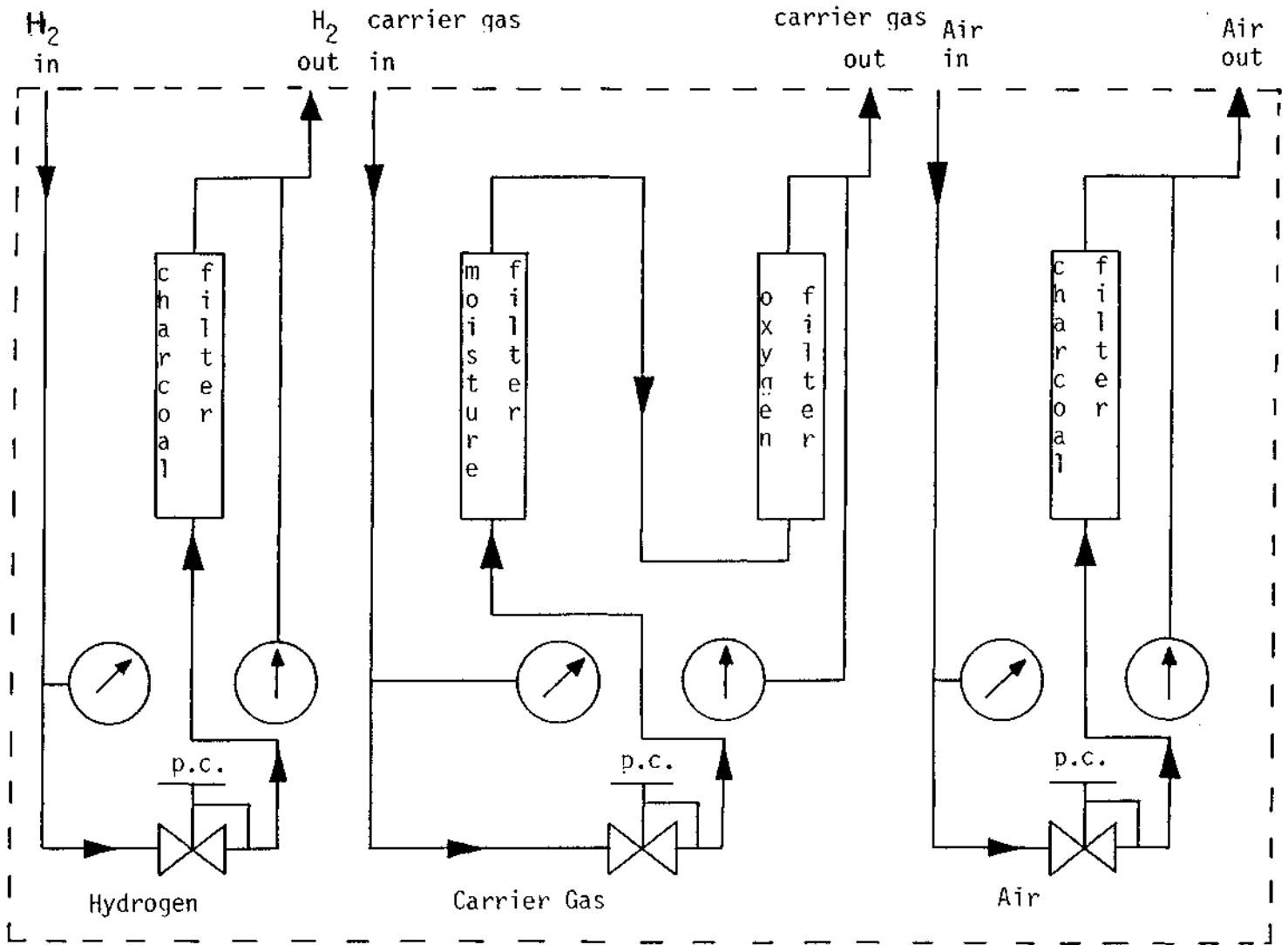
- 3.3. Connect outlets of the unit to corresponding inlets of your gas chromatograph(s).
- 3.4. Close all 3 pressure regulators (p.c.) by turning counter clockwise.
Unlock by lifting red ring.
- 3.5. Tighten all 4 knurled ring nuts of connecting units to assure proper fitting of "flushheads".
- 3.6. Apply some pressure to gas supply lines. Pre-pressure of Gas Clean System is registered by pressure gauges "in".

Caution: Pre-pressure may never exceed 7 bar (100 psi).

- 3.7. Check for leakage at inlets of the unit.
- 3.8. Apply pressure to gaslines to your chromatographic system by turning constant pressure regulators clockwise.
Unlock pressure regulator by lifting red ring. Pre-pressure of gas chromatographic system is registered by pressure gauges "out".
- 3.9. Check for leakage at outlets of the unit.
- 3.10. Flush total system (gas lines + Gas Clean System) to remove main part of unwanted components in the unflushed system.
- 3.11. After proper flushing of the total system filters can be installed. For installation of filters see Chrompack description of filters.
- 3.12. Pre-pressure of gas chromatograph(s) can be set by constant pressure regulators.
- 3.13. Operation of gas chromatographic system can start now.

com
as supply

to
GC(s)



4. Remarks

For your gas chromatographic system we recommend the following filters:

		<u>Cat.no.</u>
Carrier gas	: 1. Moisture filter	7971
	2. High Capacity Oxygen filter	7970
FID supply	: 1. Charcoal filters (air and H ₂)	7972

5. Warranty

This Chrompack product is warranted for a period of 6 (six) months to be free of defects in material and workmanship and to meet the stated performance and quality.

Replacements required as a result of such defects will be made free of charge.

Products are not warranted for misuse.

No other warranty is implied or expressed by Chrompack.

Chrompack shall not be liable for any incidental, consequential, or compensatory damage or injury arising from the use of, or in conjunction with its products.

The maximum liability which can be assumed by Chrompack for break or warranty shall be the invoice price of the product.

If you have any problem with this product that cannot be solved with this manual, or if the product should not meet the specifications given, contact the nearest Chrompack office or the main office in Middelburg.

We will be glad to help to solve the problem.

Please contact us for forwarding instructions if, for any reason, it is necessary to return materials to us.

We cannot accept returns without prior authorization.

Chrompack is not responsible for printing errors and reserves the right to change specifications, designs or prices without prior notice and without liability for such changes.

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