



PROtrace

Enhanced flow and leak testing
- In one new powerful system

The AGRAMKOW PROtrace — all you need and more

Verifiable Quality You Can Trace

AGRAMKOW PROtrace provides the testing quality necessary to give you confidence in your findings and help you achieve Sigma Six level quality standards. It presents the opportunity to perform different pressure tests and conduct tracer gas filling, using different media for both FLOW test and LEAK testing with just one test instrument. Better yet, it houses an MPC that makes PROtrace compatible with the Production Line Information System (PLIS) and is ready to go on-line with your production line system for easy set-up, verification and traceability. You can use either a printer or PLIS for traceability.



PROtrace with MPC
(Multi Purpose Controller)

Comprehensive Features

PROtrace together with the HRM6 provides the flexibility never found in one single system. Like; 2 medias, mix process, He recovery (central or local), Application pressure switch test, PLIS compliance and much more.

With PROtrace, you can perform complete UL/EN specific testing. You can even use it with a leak detector to conduct leak detection tests. So you can maximize testing utility, drive down costs, and reduce the time required to obtain the information needed to make quality decisions for small test volume refrigerator and large volume air conditioning units.

*Conducting
pressure
tests have never
been so
easy*



Gun with ADC
(Automatic disconnection)



Manual couplings



HRM6 – Helium recovery unit



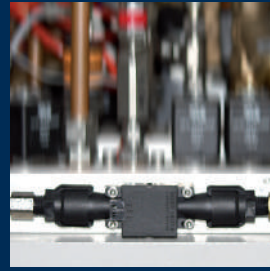
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*g flow,
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convenient.*

Efficient and Cost Effective

PROtrace's intuitive, easy to use interface and testing versatility save time and increase workflow efficiency. By providing highly reliable testing before you reach final assembly, you can reduce the time needed to correct defects already in the early stages of production.

Plus, PROtrace's durability makes it more cost effective by maximizing uptime and Overall Equipment Effectiveness (OEE) through scheduled Total Preventive Maintenance (TPM).



*Leak detector
- Full traceability
with PLIS.*

Six Sigma Ready

Globalization has changed customers' expectations of quality. This is why more and more companies are adopting Six Sigma Quality, a highly disciplined process that focuses on producing defect-free products while increasing production effectiveness. By helping you to eliminate flow or leak defects, PROtrace can do its part to help you reduce losses and achieve world-class manufacturing quality standards.

Installation flexibility

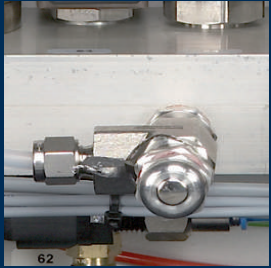
To comply with various installation conditions, the connecting hoses are adaptable to both sides of the station and the pressure-recovery process can be divided by means of the satellite option.



PROtrace – Flow and leak testing

Satellite – Split operation

PROtrace All-in-one solution



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Built-in features

1 Inlet Filter

Preventing particle from media supply entering the application (no external add on device, easy filter element change equals cost savings).

2 Inlet supply pressure monitoring

Minimising down time and securing the quality level of the test.

3 Two level pressure testing

Improved operator safety during the performance test by increasing the pressure in steps.

4 Flow sensor

Maximising quality and product performance.

5 High performance valves

Optimized process time for refrigerators (small test volume) and air-conditions (large test volume) due to high performance valves.

6 Pressure relief valve

Improved operator safety.

7 Recovery or Blow-off satellite

Cutting cycle time.

8 Build in active protective shield monitoring system

Maximizing operator safety.

GAS TYPES:

Nitrogen
Helium
Forming gas

FEATURES:

Integrated filter, no additional cost

Tracer gas supply pressure monitoring system

Built in pressure relief valve

The opportunity to offer 2 media, one for flow test and one for leak detection

Options for 2 pressure settings of tracergas and flow

Total Preventive Maintenance

PLIS compliance – Management of data, traceability, improving productivity

PASS/FAIL interface

Start/ Stop can be placed at conveyer for easier handling

OPTIONS:

Leybold 2-stage 16 m³ vacuum pump

Blockage test

Flow test

Nitrogen and tracer gas test

Nitrogen tracer gas mix test

Application pressure switch test

Second hose with coupling for parallel processing

Flexgun or ADC only

Gun optionally with or without integrated valves

FLEX-Gun with valve and ADC

Recovery satellite or blow off satellite

Leak detector

Test leak with certificate

Printer, bon or label

Scanner

Pass/Fail interface

Status indicator

Bottle trolley

Gun park or fixed arm with balancer

Helium Recovery (HRM6)



PROtrace All-in-one solution

You Want to Maximize Testing Quality

From the smallest component to the biggest system, PROtrace can be configured to do the job. With a choice of advanced technologies, 2 vacuum system options, 1024 programmable channels and multiple media options, you get exactly what you need.

Easy Installation and Maintenance. Maximum support.

AGRAMKOW makes it easy to integrate PROtrace into your production line with installation support and hands-on training.

TPM secures a traceable and immediate alert for the maintenance department and a high OEE.

AGRAMKOW provides local support wherever our products are sold. We have regional offices and service partners around the globe to ensure our customers get the backup and assistance they need.

Put our experience to the test

AGRAMKOW designs, develops, and markets state-of-the-art charging systems, test systems and production line information systems that are deployed in leading manufacturing facilities around the globe.

Always in the vanguard of new performance technology, AGRAMKOW has continually pioneered the development of new capabilities in response to the rapidly changing needs of the refrigeration and air conditioning industry.

AGRAMKOW has subsidiaries in Asia, North America, Latin America and Europe as well as service partners worldwide.

AGRAMKOW

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Technical specifications

PROtrace

Charging capacity	5 bar – 40 bar*
Charge selection	1024 programmable channels
Typical cycle time	15-60 sec. @ 600-4000 ml
Media	Nitrogen Helium Forming gas
Supply	1 or 2 off standard bottle of 10m ³ Central supply
Bottle	Space for 2 bottles of 10m ³ (Mobile)
Flow sensor	0-20 (NI/min) ±1(NI/min)
Supply voltage	220-255V/50/60Hz ±5% 3Ph+PE 380-440V/50/60Hz ±5% 3Ph+N+PE 220-255V/50/60Hz ±5% 1Ph+N+PE
Power consumption	<600W (excl. vacuum pump)
Display	320x240 TFT w. touch, colour
Operation temperature	12-50°C Humidity 85% non condensing
Compressed Air supply	Min. 6 bar, non lubricated Air quality class 3, 4, 2 according to ISO 8573-1
Charging hoses	3 or 6 meter incl. HK2, HK3, N1/4", N3/8", N3S-V-GN, N2S-V-GN & N3S-V-SUS-C309
Vacuum system	Ejector or 2-stage 16 m ³ /h vacuum pump
Dimensions (LxWxH)	700x700x950
Noise level	<70 dB(A)
Code	211-000020A

* Others on request

Alterations reserved.