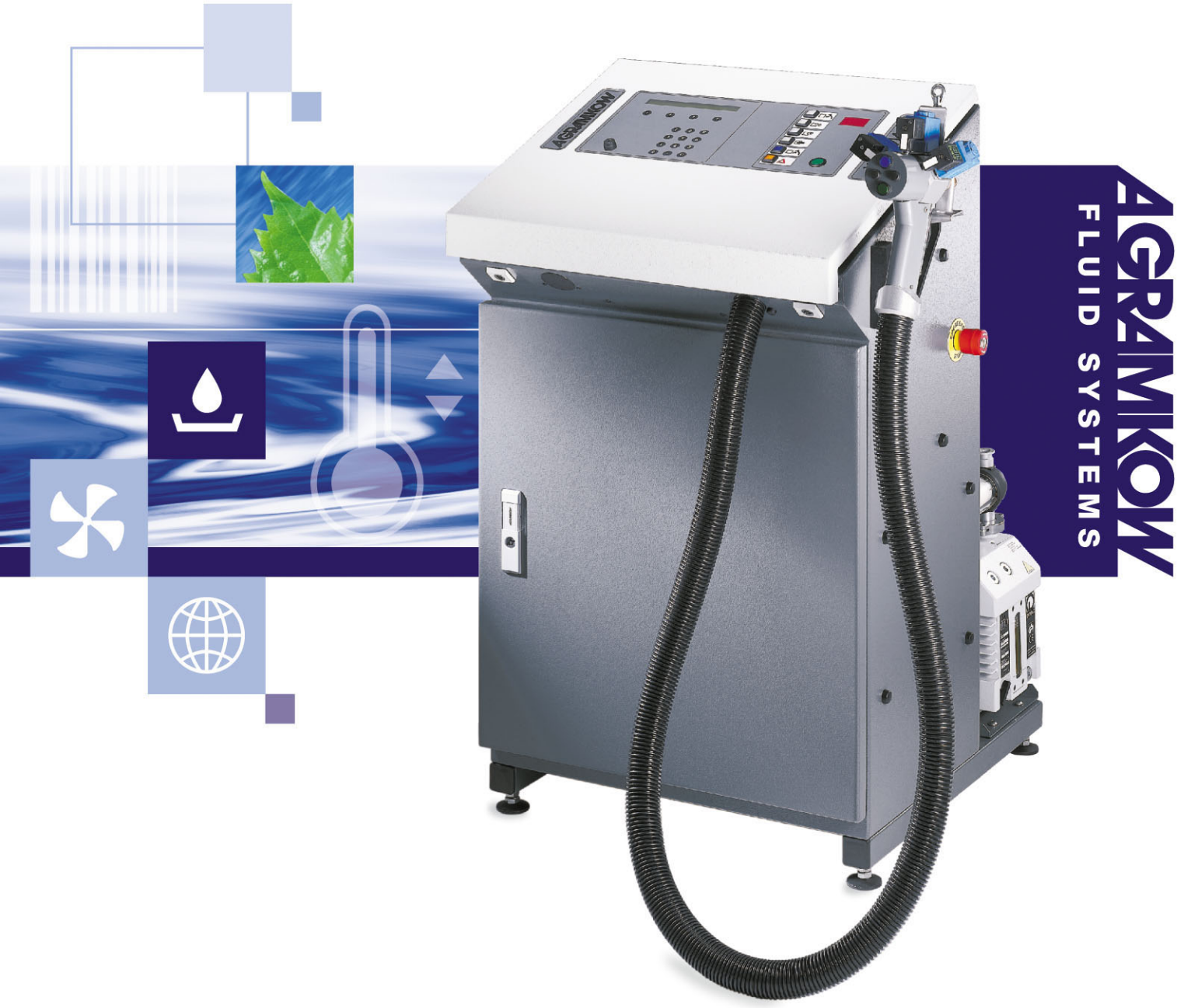
AGRAMKOW FLUID SYSTEMS

the Safe Choice...



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EMAC

Refrigerant Charging Station

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The **EMAC** evacuation and charging stations offers various features in order to meet the demands within the Refrigeration and Air Conditioning Industry. The various **EMAC** models ensure high charging accuracy within refrigerator production – and high charging speeds within production of air-conditioners.

These models also comply with the growing requirements as to flexibility and efficiency of the production equipment. Especially the feature for the valuation of important production data makes the **EMAC** an instrument for quality assurance and production documentation.

APPLICATION

All processes where
- systems are evacuated
- a pressure rise test is performed
- systems are charged with refrigerant

ADVANTAGES

- Measurement of charging amount independent of ambient temperatures (by MASSFLOW)
- High charging speed
- Easy operation by new operation philosophy.
- Process data – e.g. vacuum obtained, detected leaks and charging amounts may by means of interfaces be:
  a. printed (optional)
  b. stored on an external PC (optional)
- Electronic self-monitoring and fault identification
- Easy operation – the station is delivered ready to plug in
- Designed according to ergonomics
- Easy to service
- Minimum refrigerant escape at disconnection of the gun

MODELS

EMAC10
with integrated refrigerant supply pump. Charging speed up to 40 g/s.

EMAC25
Charging up to 60 g/s, external refrigerant supply required

EMAC25X
Charging speed up to 120 g/s, external pressure supply required

OPTIONS

- 2-sided evacuation
- Time-controlled evacuation
- Pneumatic gun
- Throw-off automatic
- Communication interface for storage of data, connection to production line information system possible
- Mobile version
- Bar code reading systems
- Printer output

OPERATION

The concept is to segregate the operation and the programming level, thus errors in the operation of the station are avoided. The process can be performed manually or – if requested – by bar code. By pressing the start button on the gun or on the operation keyboard the process will start.

PROCESS

The following process sequences are performed automatically:
- Evacuation to a preset level
- Pressure rise test
- Precision Charging

The process can be disconnected and restarted at any time. The sequences are visualized by signal lamps. The display on the operation keyboard shows all values relevant to the processes. If an error occurs, the reason will be displayed. Single process sequences can also be activated in the programming mode.

SPECIFICATIONS
EMAC10 AND EMAC25/25X

Voltage supply	3 ph 400 V/50 Hz ± 10% + N + PE 1 ph 230 V/50 Hz ± 10% + N + PE
Power consumption	Max 2 kVA
Refrigerants	R22, R134a, R404A, R410A, R407C
Charging amounts	25-99999 g
Vacuum measuring system	Pirani measuring system
Vacuum measuring range	Resolution up to 10^{-3} mbar
Charging channels	99 channels for entering of various process data like e.g. final vacuum, limit vacuum or vacuum time
Vacuum pump	16 m^3/h, 2-stage (others on request)
Charging accuracy	Up to 100 g: <± 1 g Over 100 g: <± 1 %
Charging speed	EMAC10: 40 g/s (with build-in supply pump) EMAC25: 60 g/s EMAC25X: 120 g/s
Operation temperature	10-50°C
Dimensions (L X W X H)	720 X 720 X 1050 mm
Weight	EMAC25/25X: 130 Kg EMAC10: 160 Kg
Code no	EMAC10: 161-000020A EMAC25: 162-000050A EMAC25X: 163-000020A

Alterations reserved