

TECHNICAL DATA SHEET

WK-12iBM Intelligent Vacuum Pump

Reference 4646800356 | Two-stage | Digital vacuum gauge |
Automatic control by vacuum setpoint

The **WK-12iBM** is a high-value intelligent vacuum pump developed for professionals who require maximum precision, evacuation power and operational safety in demanding refrigeration, air-conditioning and industrial applications. Its **two-stage** configuration, **integrated digital vacuum gauge** and **automatic vacuum setpoint control** system allow the process to be monitored with greater reliability, reducing intervention times and increasing the technical quality of the service.



General description

Professional evacuation equipment with a brushless DC motor, compact design and low noise level. It incorporates an integrated solenoid valve and an oil anti-backflow system to protect the circuit when the power supply is interrupted. It is designed to work with common refrigerants used in A/C-R installations, including A1, A2 and A2L.

Key features

- Two-stage design to achieve a high and stable ultimate vacuum.
- Nominal flow rate of 12.5 CFM, equivalent to approximately 354 L/min.
- Full-range digital vacuum gauge with absolute pressure reading.
- Vacuum setpoint configuration with automatic alert when the set value is reached.
- Integrated solenoid valve to prevent oil backflow into the system.
- Brushless motor: high speed, stable operation and greater reliability.
- Reinforced body, compact design and shoulder-strap handle for easier transport.

Technical data for model WK-12iBM

Parameter	Value
Model	WK-12iBM
Pump type	Intelligent vacuum pump with digital vacuum gauge
Stages	Two-stage
Nominal flow rate	12.5 CFM / 354 L/min
Maximum vacuum	2×10^{-1} Pa / 15 microns
Inlet port	1/4" and 3/8" connection
Oil capacity	600 ml
Dimensions	352 × 136 × 312 mm
Weight	11.5 kg
Vacuum gauge reading units	Pa, mBar, mmHg, mTorr, InHg and Micron
Available vacuum range	0–1000 Pa
Ambient operating temperature	5 °C – 40 °C

Intelligent function and vacuum control

The WK-12iBM allows a target vacuum level to be set. During the process, the digital vacuum gauge measures absolute vacuum pressure and, when the configured value is reached, activates a visual alert by flashing the display. This function enables more precise control of the evacuation process and helps the technician work with greater safety, traceability and convenience.

Technical note: the function indicated in the manual corresponds to a setpoint configuration with an automatic alert when the established vacuum is reached. For a commercial product presentation, it may be described as an intelligent vacuum control system with setpoint-based alert/operational stop.

Recommended applications

- Maintenance and commissioning of refrigeration and air-conditioning systems.
- Evacuation of installations using CFC, HCFC and HFC refrigerants.
- Work with refrigerants such as A1, A2 and A2L.
- Industrial vacuum packaging, gas analysis and thermoforming processes.
- Use as a backup pump in high-performance vacuum equipment.

Use and maintenance recommendations

- Use specific oil for vacuum pumps and keep the level between the MIN and MAX marks.
- Check the oil level during operation and refill if it drops to the minimum mark.
- Replace the oil when it is emulsified, contaminated or has lost transparency.
- Do not keep the air inlet connected directly to the atmosphere for more than 3 minutes while operating.
- Check that the power supply matches the voltage indicated on the equipment nameplate and that the connection is grounded.
- Before connecting the pump to an A/C-R system, properly recover the refrigerant from the circuit.