SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

Phone: +91 7015865225 **Email:** info@scienticoindia.com **Web:** scienticoindia.com **Address:** #71, Industrial Area, Ambala Cantt, Haryana, India

Maintenance Kit | PolarX - 596

Category: Refrigeration and Air Conditioning · **Country of Origin:** India

Product Overview

The Maintenance Kit PolarX - 596 is a complete refrigeration maintenance set for filling, evacuating, and leak-testing R134A refrigeration systems. This maintenance kit includes a filling station with vacuum pump, filling balance, and hoses, a 1,000 g filling cylinder, manometers for low side (-1 to 10 bar), high side (-1 to 30 bar), and cylinder pressure (-1 to 25 bar), a vacuum meter (0 to 1,000 mbar), two temperature ranges (-60°C to 40°C and -60°C to 85°C), a battery-operated leak detector, a digital multimeter, and hand tool sets for ring spanners, screwdrivers, and Allen keys. Experiments cover system filling, evacuation, leak detection, and primary and secondary controller setting.

View this product online: https://scienticoindia.com/product/maintenance-kit-polarx-596/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Maintenance Kit PolarX - 596, Technical Specifications

Parameter	Value
Model	PolarX - 596
Refrigerant	R134A
Filling Cylinder Capacity	1,000 g
Low Side Pressure Range	-1 to 10 bar
High Side Pressure Range	-1 to 30 bar
Cylinder Pressure Range	-1 to 25 bar
Vacuum Range	0 to 1,000 mbar
Temperature Range 1	-60°C to 40°C
Temperature Range 2	-60°C to 85°C
Leak Detector	Battery-operated
Multimeter	Digital
Scope of Delivery	1 filling station with hoses, 1 set of ring spanners, 1 set of straight screwdrivers, 1 set of Allen keys, 1 multimeter, 1 leak detector

Technical Data

Filling Station

Parameter	Value
Refrigerant Compatibility	R134A
Filling Cylinder Capacity	1,000 g
Function	Filling and evacuation of refrigeration systems
Vacuum Pump	Included, removes air and humidity from refrigeration circuit
Filling Balance	Included, monitors correct refrigerant charge

Measuring Ranges

Parameter	Range
Low Side Pressure (intake)	-1 to 10 bar
High Side Pressure	-1 to 30 bar
Cylinder Pressure	-1 to 25 bar
Vacuum	0 to 1,000 mbar
Temperature Range 1	-60°C to 40°C
Temperature Range 2	-60°C to 85°C

Instruments

Instrument	Type
Multimeter	Digital
Leak Detector	Battery-operated
Manometers	Intake pressure, high pressure, cylinder pressure
Vacuum Meter	Included

Hand Tools

Item	Detail
Ring Spanners	1 set
Straight Screwdrivers	1 set
Allen Keys	1 set

Key Features

Key Features

- **Maintenance Kit Function:** Filling, evacuation, leak detection, and troubleshooting of R134A refrigeration systems
- **Filling Station:** Handles filling and evacuation with hoses, vacuum pump, and filling balance
- **Refrigerant:** Designed for R134A
- **Filling Cylinder Capacity:** 1,000 g
- **Low Side Pressure:** -1 to 10 bar
- **High Side Pressure:** -1 to 30 bar
- **Cylinder Pressure:** -1 to 25 bar
- **Vacuum Range:** 0 to 1,000 mbar
- **Temperature Ranges:** -60°C to 40°C and -60°C to 85°C
- **Leak Detector:** Battery-operated
- **Multimeter:** Digital, for electrical measurements during troubleshooting
- **Hand Tools:** Ring spanners, straight screwdrivers, and Allen keys, one set each

- **Components:** Common refrigeration industry components for direct practice relevance

Experiments

- Performing maintenance tasks on refrigeration systems
- Filling of a refrigeration system
- Evacuation of a refrigeration system
- Leak detection in refrigeration systems
- Setting of primary and secondary controllers

Construction and Design

The Maintenance Kit PolarX - 596 is assembled as a complete, practice-oriented maintenance set for R134A refrigeration systems. The filling station is the central component. It incorporates a vacuum pump for system evacuation and a filling balance for refrigerant charge monitoring, connected via hoses to the refrigeration circuit. The filling cylinder has a 1,000 g capacity. Manometers cover three pressure points: intake pressure (-1 to 10 bar), high side pressure (-1 to 30 bar), and cylinder pressure (-1 to 25 bar). A vacuum meter covers 0 to 1,000 mbar. Two temperature measurement ranges are provided: -60°C to 40°C and -60°C to 85°C.

This maintenance kit includes a battery-operated leak detector for identifying refrigerant leaks without requiring an external power source. A digital multimeter supports electrical measurements and fault-finding during troubleshooting tasks. The hand tool set consists of ring spanners, straight screwdrivers, and Allen keys, covering the fastener types commonly encountered in refrigeration system maintenance. All components in the set are standard refrigeration industry items, ensuring direct relevance to practical field tasks.

Scope of Delivery

- 1 filling station with hoses
- 1 set of ring spanners
- 1 set of straight screwdrivers
- 1 set of Allen keys
- 1 multimeter
- 1 leak detector

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q1: What refrigerant is the Maintenance Kit PolarX - 596 designed for?
The kit is designed for use with refrigerant R134A. All components, including the filling station, filling cylinder, and manometers, are selected and rated for R134A systems.

Q2: What is the capacity of the filling cylinder included in the PolarX - 596?
The filling cylinder has a capacity of 1,000 g. The correct refrigerant charge during filling is monitored using the included filling balance.

Q3: What pressure ranges do the manometers cover?
Three pressure measurements are provided. The low side (intake) manometer covers -1 to 10 bar. The high side manometer covers -1 to 30 bar. The cylinder manometer covers -1 to 25 bar. A vacuum meter covers 0 to 1,000 mbar.

Q4: How does the vacuum pump function in the evacuation process?
The vacuum pump removes air and humidity from the refrigeration system before refrigerant is introduced. Evacuation is a required step before filling to ensure the system is free of non-condensables and moisture.

Q5: What tools and instruments are included in this maintenance kit?
The kit includes a digital multimeter, a battery-operated leak detector, one set of ring spanners, one set of straight screwdrivers, and one set of Allen keys, alongside the filling station with hoses, vacuum pump, filling balance, manometers, and vacuum meter.

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