



Translation of the original operating-instructions

Refill-Station

Filling station for HeliCan

Catalog No. 551-070



INFICON GmbH

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Table of Contents

1	Abo	ut this Manual	. 4
	1.1	Target Groups	. 4
	1.2	Warnings	. 4
2	Safe	ety	. 5
	2.1	Intended use	. 5
	2.2	Duties of the Operator	. 6
	2.3	Owner Requirements	. 6
	2.4	Dangers	. 7
3	Sco	pe of Delivery, Transport, Storage	. 8
4	Des	cription	. 9
	4.1	Function	. 9
	4.2	Design of device	. 9
	4.3	Technical Data	10
		4.3.1 Mechanical data	10
		4.3.2 Ambient conditions	10
		4.3.3 Physical data	10
5	Inst	allation	11
6	Ope	ration	13
7	Clea	aning	14
8	Dec	ommissioning	15
	8.1	Disposing of the device	15
	8.2	Send in refill station for maintenance, repair or disposal	15
9	Cert	tificates	17
	9.1	CE Declaration of Conformity	17
	9.2	Product safety declaration	18

1 | About this Manual INFICON

1 About this Manual

This document applies to the Refill-Station indicated on the title page.

Product names may occur in the document, which are added for identification purposes only and belong to the respective owner of the rights.

1.1 Target Groups

This instruction manual is aimed at the operator of the device, at technically qualified specialists, and trained personnel.

1.2 Warnings



A DANGER

Imminent hazard resulting in death or serious injuries



MARNING

Hazardous situation resulting in potential death or serious injuries



A CAUTION

Hazardous situation resulting in minor injuries

NOTICE

Hazardous situation resulting in damage to property or the environment

INFICON Safety | 2

2 Safety

2.1 Intended use

The device is used exclusively for filling the helium pressure cans (HeliCan) used in the INFICON SMART-Spray.

Incorrect usage

Avoid the following unintended uses:

- · Filling pressure cans for devices other than the SMART-Spray
- Use with helium concentrations other than those specified by INFICON (helium with a purity >= 95%)
- · Evacuating the device
- · Installation and use in electrotechnical systems/machines
- · Inhalation of helium
- · Connection of pressurized liquids
- Connection of gases with excessively high pressures (> 6 bar relative)
- Use without suitable fastening
- · Spraying gas without a pressure can connected, in the face, ear or eye
- · Use of the device in case of detectable defects
- · Use in radioactive areas
- · Pressure cans that are not intended for use with the SMART-Spray.
- Pressure cans that have been filled with excessive pressure (> 6 bar relative) or use a direct gas connection instead of a pressure can.
- Use of gases other than helium (flammable, toxic, explosive) or helium concentrations other than those specified
- · Use outside the technical specifications, see "Technical Data"
- · Use of accessories or spare parts, which are not listed in this manual
- Flushing (e.g. for cleaning) with liquids or gases via the gas connection
- Permanent switching (e.g. with clamping device, cable tie) of the operating button

2 | Safety INFICON

2.2 Duties of the Operator

- Read, observe, and follow the information in this instruction manual and in the work instructions provided by the owner. This concerns in particular the safety and warning instructions.
- · Always observe the complete operating instructions for all work.
- If you have any questions about operation or maintenance that are not answered in this instruction manual, contact INFICON service.

2.3 Owner Requirements

The following notes are for companies or any person who is responsible for the safety and effective use of the product by the user, employees or third parties.

Safety-conscious operation

- · Operate the device only if it is in perfect technical condition and has no damage.
- Only operate the device properly in accordance with this instruction manual, in a safety and risk conscious manner.
- Adhere to the following regulations and observe their compliance:
 - Intended use
 - Universally valid safety and accident prevention regulations
 - International, national and local standards and guidelines
 - Additional device-related provisions and regulations
- · Only use original parts or parts approved by the manufacturer.
- · Keep this instruction manual available on site.

Personnel qualifications

- Only instructed personnel should be permitted to work with and on the device. The instructed personnel must have received training on the device.
- Make sure that authorized personnel have read and understood the instruction manual and all other applicable documents.

INFICON Safety | 2

2.4 Dangers

The measuring instrument was built according to the state-of-the-art and the recognized safety regulations. Nevertheless, improper use may result in risk to life and limb on the part of the user or third parties, or damage to the unit or other property may occur.

Danger from exploding refill station

Parts of the Refill-Station can fly around and cause serious injuries.

- · Only fill empty HeliCan that have been approved by INFICON.
- · Fill the HeliCan with a maximum of 6 bar relative.
- · Only use helium for filling.
- · Always keep the openings, ventilation and air vents clear and clean.

Health hazard due to escaping helium

Risk of suffocation or fainting if helium escapes.

- · Only use the Refill-Station in well-ventilated rooms.
- Before each filling, check all components for damage and proper condition.
- · Never press the fill button without a HeliCan screwed on.
- Always screw the HeliCan properly onto the Refill-Station before starting the filling process.
- Stop the filling process if a leak is detected or if the filling process takes longer than 10 seconds.

3 Scope of Delivery, Transport, Storage

Item number 551-070	Quantity
Refill-Station	1
Spacer sleeve	3
Digital operating instructions, to download as PDF from	1
www.inficon.com	

▶ Check the scope of delivery of the product for completeness after receipt.

Transport

NOTICE

Damage caused by transport

Transport in unsuitable packaging material can damage the device.

- ► Keep the original packaging.
- ▶ Only transport the device in its original packaging.
- ▶ Remove the screwed-in HeliCan before transport.

Storage

Always store the device in compliance with the technical data, see "Technical Data [> 10]".

Only store and transport the appliance without the HeliCan screwed in.

INFICON Description | 4

4 Description

4.1 Function

The Refill-Station is used to fill HeliCan with helium.

4.2 Design of device



1	Connection for helium including union nut
2	Connection fitting for 50 ml and 405 ml HeliCan
3	Manometer
4	Mounted connecting hose (When attaching the Refill-Station, ensure that the connecting hose is not damaged.)
5	Fill button

4 | Description INFICON

4.3 Technical Data

4.3.1 Mechanical data

	551-070
Dimensions (W x H x D)	170mm x 100mm x 170mm
Weight with Refill-Station	approx. 1300 gr

4.3.2 Ambient conditions

	551-070
Permissible ambient temperature (during operation)	10 °C to 40 °C
Permissible storage temperature	-20 °C to 60 °C
Minimum humidity (in operation)	> 30%
Max. relative humidity up to 31°C	80 %
Max. relative humidity from 31°C to 40°C	Decreasing on linear basis from 80% to 50%
Max. relative humidity above 40°C	50 %
Relative humidity during storage and transport	Minimum 10% Maximum 90%
Max. altitude above sea level	2000 m

4.3.3 Physical data

	551-070
Helium supply	Max. 6 bar
Helium purity	>= 95%

INFICON Installation | 5

5 Installation



A CAUTION

Risk of injury due to incorrect installation

Injury caused by Refill-Station falling down.

Poor posture or fatigue due to unergonomic installation of the Refill-Station.

- ▶ Attach the Refill-Station properly to the wall or work area.
- ▶ When using as a table-top device, ensure that the Refill-Station is sufficiently stable.



NOTICE

Damage to the pressure cans due to excessive filling pressure

Limit the helium supply to 6 bar using a pressure reducer.



- 1 Mounted connecting hose (When attaching the Refill-Station, ensure that the connecting hose is not damaged.)
- 2 Hole for attaching the Refill-Station Ø 5 mm
- 3 Hole for attaching the Refill-Station Ø 5 mm
- 4 Connection for helium including union nut

5 | Installation INFICON

1 Set up the Refill-Station in a stable position and install the Refill-Station using the spacer sleeves supplied.

- 2 When installing the Refill-Station, use the spacer sleeves supplied.
- 3 Connect the helium supply line to the connection fitting using a suitable hose (outer diameter 8 mm, inner diameter 6 mm).
- **4** Attach the hose using the union nut supplied.
 - ⇒ The Refill-Station is installed.



1	Refill-Station
2	Spacer sleeve
3	Fastening screw (not included in the scope of delivery)

INFICON Operation | 6

6 Operation



A DANGER

Danger from exploding Refill-Station

Parts of the Refill-Station can fly around and cause serious injuries.

- ▶ Only fill empty HeliCan that have been approved by INFICON.
- ▶ Fill the HeliCan with a maximum of 6 bar relative.
- ▶ Only use helium for filling, maximum 6 bar relative.
- ▶ Always keep the openings, ventilation and air vents clear and clean.



MARNING

Health hazard due to escaping helium

Risk of suffocation or fainting if helium escapes.

- ▶ Only use the Refill-Station in well-ventilated rooms.
- ▶ Before each filling, check all components for damage and proper condition.
- ▶ Never press the fill button without a HeliCan screwed on.
- ➤ Always screw the HeliCan properly onto the Refill-Station before starting the filling process.
- ➤ Stop the filling process if a leak is detected or if the filling process takes longer than 10 seconds.

Damaged or contaminated connection fitting

- ▶ Before screwing in the HeliCan, carry out a visual inspection of the connection fitting of the Refill-Station and the HeliCan. The connection fitting must be free of dirt and damage.
- ✓ Refill-Station is properly set up or fastened and connected ready for operation.
 - Screw the HeliCan onto the connection fitting and tighten the HeliCan fingertight.
 - **2** Press the fill button and fill the HeliCan until the filling pressure of 6 bar relative is reached.
 - 3 Unscrew the HeliCan from the Refill-Station.
- ⇒ HeliCan is filled.

7 | Cleaning INFICON

7 Cleaning



MARNING

Injury due to improper handling of liquids

Damage to the device due to cleaning with liquids.

▶ Only clean the appliance with a dry or slightly damp cloth.



MARNING

Injury due to explosion or damage

Injury due to explosion of the Refill-Station.

- ▶ Remove the HeliCan before cleaning or maintenance.
- ▶ Disconnect the HeliCan from the helium supply before cleaning or maintenance.

Only clean the Refill-Station with a damp cloth.

INFICON Decommissioning | 8

8 Decommissioning

8.1 Disposing of the device

The device can either be disposed of by the operator or be sent to the manufacturer. The device consists of materials that can be recycled. This option should be exercised to prevent waste and also to protect the environment.

During disposal, observe the environmental and safety regulations of your country.



Refill station must not be disposed of with household waste.

8.2 Send in refill station for maintenance, repair or disposal



MARNING

Danger due to harmful substances

Contaminated devices could endanger health. The contamination declaration serves to protect all persons who come into contact with the device. Devices sent in without a return number and completed contamination declaration will be returned to the sender by the manufacturer.

- ► Fill in the declaration of contamination completely.
 - 1 Contact the manufacturer and send in a completed declaration of contamination before return shipment.
 - ⇒ You will then receive a return number and the shipping address.
 - 2 Use the original packaging when returning.
 - **3** Before shipping the instrument, attach a copy of the completed contamination declaration to the outside of the package.

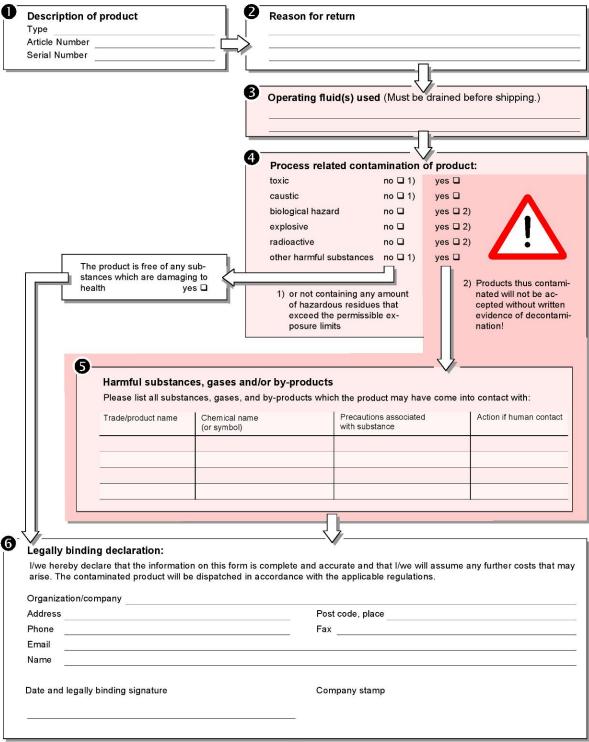
For contamination declaration see below.

8 | Decommissioning **INFICON**

Declaration of Contamination

The service, repair, and/or disposal of vacuum equipment and components will only be carried out if a correctly completed declaration has been submitted. Non-completion will result in delay.

This declaration may only be completed (in block letters) and signed by authorized and qualified staff.



Copies:
Original for addressee - 1 copy for accompanying documents - 1 copy for file of sender

INFICON Certificates | 9

9 Certificates

9.1 CE Declaration of Conformity





EU Declaration of Conformity

We - INFICON GmbH - herewith declare that the products defined below meet the basic requirements regarding safety and health and relevant provisions of the relevant EU Directives by design, type and the versions which are brought into circulation by us. This declaration of conformity is issued under the sole responsibility of INFICON GmbH.

In case of any products changes made, this declaration will be void.

Designation of the product:

Helium can refill station

Models: Refill-Station for HeliCan

551-070

Cologne, June 28th, 2024

Catalogue numbers:

p.p. Dr. H. Bruhns, Vice President LDT The products meet the requirements of the following Directives:

Directive 2011/65/EU (RoHS)

Applied harmonized standards:

EN IEC 63000:2018

Cologne, June 28th, 2024

pro W. Schneider, Research and Development

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www.inficon.com E-mail: leakdetection@inficon.com 9 | Certificates **INFICON**

9.2 Product safety declaration



EU Declaration of Conformity

We - INFICON GmbH - herewith declare that the products defined below meet the basic requirements regarding safety and health and relevant provisions of the relevant EU Directives by design, type and the versions which are brought into circulation by us. This declaration of conformity is issued under the sole responsibility of INFICON GmbH.

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Dr. H. Bruhns, Vice President LDT

The products meet the requirements of the following

- Directive 2001/95/EC (General Product Safety)
- Directive 2014/68/EU (Pressure Equipment)

Applied harmonized standards:

- EN ISO 12100:2010
- EN IEC 61010-1:2020

Cologne, June 28th, 2024

W. Schiel

W. Schneider, Research and Development

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