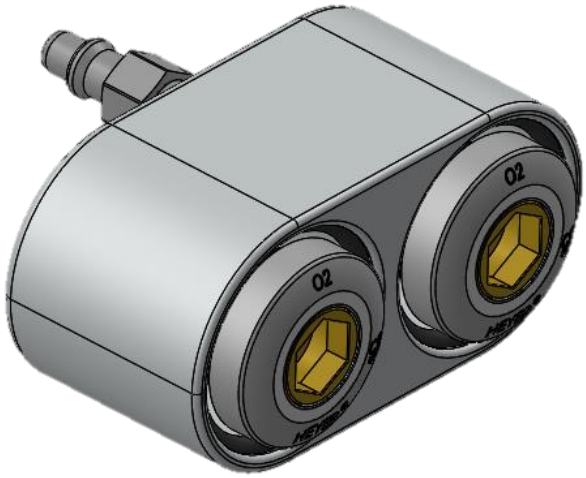
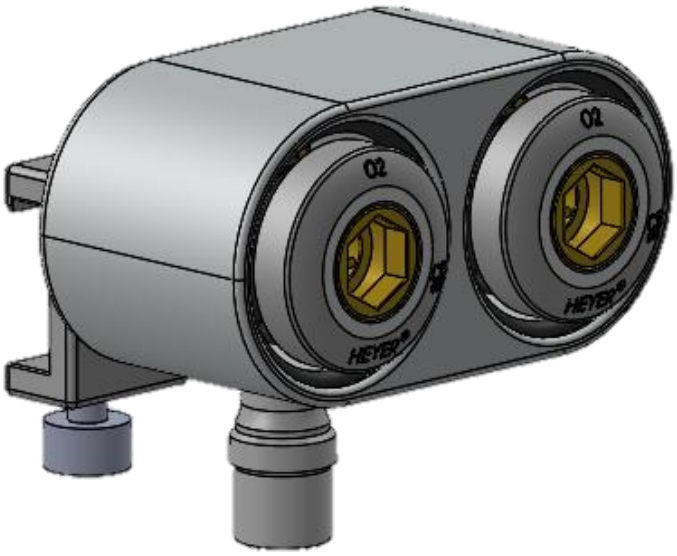
Instruction for Use
Extraction distributor box





Please Note!!!
The information and technical details mentioned in this documentation reflect the status at the time of printing. Depending on the state of design and development, there may be differences between the illustrations in the instructions for use and the product´s actual appearance. This does not affect the accuracy of the information, instructions, and the operating procedures described.

The product may only be used by people who are familiar with the medical device's basic functions.
The instructions for use are intended for medical and specialized technical personnel.
Serious incidents related to the product must be reported to the manufacturer and the competent authority of the Member State where the user is established.

1. Table of Contents

1. Table of Contents 2
2. Introduction 2
3. Intended purpose 3
4. Variants 3
5. Übersicht 3
6. Functional description 4
7. Operation 4
7.1 Connection 4
7.2 Handling 4
7.2.1 Engaging 4
8. Technical Data 5
9. Cleaning 5
9.1 Disinfections 6
10. Inspection / Maintance 6
10.1 Repair 6
11. Manufacturer 6

2. Introduction

Dear customer,



Thank you for choosing a Heyer Aerotech GmbH product!

Please read the instructions for use before using the product!

These „Instructions for use apply to our product:

Extraction distributor box *(in all variants)*

The information listed below will help you quickly familiarize yourself with our product, features and operation.

Our product has been produced in accordance with all currently applicable standards and directives (etc. DIN 13260-2, DIN EN ISO 9170-1) and correspond to the current state of the art.

IMPORTANT NOTE!
There are no warranty claims for damage or malfunction caused by improper assembly, transport,storage or use !

WARNING!
Risk of fire! O^2 has as fire-promoting effect!
Do not allow oxygen fittings to come into contact with oil, grease or flammable liquids.
Do not smoke! No open fire!

3. Intended purpose

The extraction distributor box is suitable for the extraction of medical gases and vacuum from the central gas supply network in rooms used for medical purpose

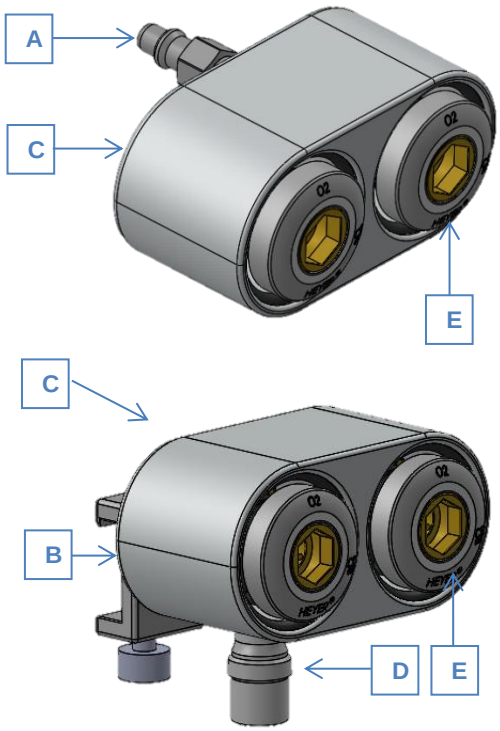
NOTE:
When using the extraction distributor box it must be checked whether the required values for flow rate and permissible pressure drop can be achieved, as otherwise malfunctions may occur.
These values depend, among other things, on the capacity of the piping system installed on site.
Therefore, the use of external distributors at the outlet point must be checked on a case-by-case basis and is the responsibility of the user! Fundamental requirements for terminal units, such as flow rate and permissible pressure drop, are regulated in the standard DIN EN ISO 9170-1 and 7396-1.

4. Variants

Variants	
Type of gas	Oxygen (O_2) / Compressed air (Air) / Nitrous oxide (N_2O) / Carbon oxid (CO_2) / Vacuum (Vac) / Air (Air 800)
Number of integrated connectors	Two / Three / Four
Connection	Direct / Rail clamp
Colour coding	ISO / Neutral
Push-button design	RC-Line / RS-Line / AL-Line

The dimensions and allocation of the outlet comply with the DIN 13260-2 standard.

5. Overview



Position	Description
A	Plug-in nipple (gas type specific) (direct)
B	Schienenklemme (only rail clamp)
C	Housing extraction distributor box Gehäuse-Entnahmeverteiler-Box
D	Connection for outgassing (9/16´´ thread) (only rail clamp)
E	Plug-in connection for med. gases and vacuum

6. Functional description

The outlet of the extraction distributor box is designed in such a way that the user is able to establish a safe connection between plug-in nipple and outlet.
Furthermore, the design of the outlet prevents confusion between the different types of gas.

7. Operation

7.1 Connection

NOTE:
Fire hazard! Ensure that the outlet and plug –in connector never gets in contact with oil, fat or flammable liquids.

NOTE:
Please observe the detailed user instructions supplied with the product used in combination with the outlet

NOTE:
Make sure that the plug-in nipple / the device to be connected is intact! Damaged outlets /plug-in nipples can cause malfunctions

Extraction distributor box:

- Connect the extraction distributor box (direct) with the plug nipple (A) to the medical gas outlet. Make certain that gas type of plug-in nipple matches the gas type of the wall outlet before each use

OR

- Connect the extraction distributor box (rail clamp) via connection for outgassing (D) to a hose
- Fasten the extraction distributor box (rail clamp) to the rail with the rail clamp
- Couple the connection hose into the wall outlet

7.2 Handling

7.2.1 Engaging

NOTE:
Fire hazard! Ensure that the outlet and plug –in connector never gets in contact with oil, fat or flammable liquids.

NOTE:
Please observe the detailed user instructions supplied with the product used in combination with the outlet / plug-in connector

NOTE:
When using the extraction distributor box it must be checked whether the required values for flow rate and permissible pressure drop can be achieved, as otherwise malfunctions may occur.
These values depend, among other things, on the capacity of the piping system installed on site.
Therefore, the use of external distributors at the outlet point must be checked on a case-by-case basis and is the responsibility of the user! Fundamental requirements for terminal units, such as flow rate and permissible pressure drop, are regulated in the standard DIN EN ISO 9170-1 and 7396-1.

First connect hose on the device side. The connection must only be tightened by hand.

Before using, ensure that the gas type of the low-pressure hose system / plug-in nipple corresponds to the gas type of the outlet and / or that the low-pressure hose is tightly connected to the medical device.

When plugging in the device to be connected or when plugging the connector into the outlet it **is not** necessary to manually operate the outlet.
The connector or the device is simply connected by softly plugging it into the wall outle

7.2.2 Disengaging or unlocking / park position

By pressing the push button, the nipple will be released from the locking rolls. The plug is now held in the park position, which allows the plug-in nipple to be parked in the gas sampling point even without gas sampling.

NOTE:
Holding down the pushbutton does not trigger a release!

The self-closing valve is closed in this state, i.e. the gas or vacuum flow is interrupted.
By a pull of the connector or of the device the nipple can now be removed

8. Technical Data

Technische Daten	
Gas type	Medical oxygen (O2) / Compressed air (Air) / Nitrous oxide (N2O) / Carbon dioxide (CO2) / Nitrogen (N2) / Compressed air for operating surgical tools (Air 800) & Vacuum (Vac)
Operating pressure med. gases	450 kPa ± 50 kPa
Operating pressure vaccum	Absolute pressure < 60 kPa
Operating pressure Air 800	800 kPa +200 kPa -100 kPa
Safety facilities	Gas type-secured standard plug according to DIN EN ISO 13260-2
Storage conditions	Temperature: -40 bis 60 °C Rel. humidity: 5-95 %
Operating conditions	Temperature: 15 bis 40 °C Rel. humidity: 5-95%
Material	Stainless steel, HDPE, brass, nickel-plated brass, NBR, PA6 GF, silicone
UMDNS-Code	17-682
Classification	IIa

9. Cleaning

NOTE:
Pay attention the hygiene regulation of the hospital / operator!!

NOTE:
Ensure that no liquids penetrate the individual components. The penetration of liquids could impair the function!

The below listed measures must be carried out before the first use and whenever necessary from a clinical, hygienic point of view.
Only agents that do not attack the materials used (stainless steel, aluminum, PVC) may be used for cleaning and disinfection.

- Remove impurities immediately. Use a cloth dampened with disinfectant to remove it.
- Remove any remaining disinfectant after the exposure time.
- Check products for visible contamination. Possibly repeat the above steps.
  Check the product for visible damage and replace if necessary.

9.1 Disinfections

We recommend surface disinfections products or quick disinfectants for medical devices from the neoform MED series from Dr. Weigert or other suitable means from the current list of the VAH (Association for Applied Hygiene).

10. Inspection / Maintance

Repairs and periodic inspection should be performed by a qualified expert who is familiar with the product. For the purpose of above actions it is necessary to have suitable testing equipment and original spare parts.

The following maintenance work must be carried out regularly

IMPORTANT NOTE:

- A check of the tightness and functionality of the outlet must be carried out every six months! Defective parts are replaced if necessary. Apply only original spare parts for replacement.
- The O-rings of the outlet (plug-in connection) are to be replaced recurrently every eight years

For maintenance operations, it is recommended to conclude a maintenance contract with Heyer Aerotech or a customer service authorized by Heyer Aerotech

NOTE!
With the Heyer Aerotech outlet, maintenance work can also be performed at any time under operating pressure, i.e. without interrupting the medical gas supply

The extraction distributor box is subject to a visual inspection regularly.
During the inspection, the outlet (plug-in connection) must be checked for integrity.

If defects are discovered, do not take the outlet (plug-in connection) into operation.

10.1 Repair

NOTE:
Any repairs may only be performed by qualified and authorized personnel.

11. Manufacturer

Heyer Aerotech GmbH
Nieverner Str. 30-34
56132 Nievern

Contact:
Phone. +49 2603 50707-0
E-Mail: office@heyer-aerotech.de
heyer-aerotech.de

CE 0044