

Gas Endeavour Animal Nutrition

Pre-Installation & Delivery Check

Version 2.0 | June 2025

Before getting started

These steps should be taken before attending an **online installation session**, to ensure we can offer you the best training possible within the time frame. Upon receiving your package from BPC Instruments, please do the following:

Perform a delivery check

Unpack the box and perform a **delivery check**. A delivery check sheet for your instrument is provided in this document and in the user manual. We have also included photographs of our components for clarity.

We recommend that you do not throw away any packaging until you have checked all items have been delivered and accounted for. If you find that you are missing an item, please do not hesitate to contact our sales team: sales@bpcinstruments.com

Place the instrument

Please place the instrument and its components where you intend to use it e.g. in your lab. Ensure you have enough space for all the components. The instrument, especially the detection unit, needs to be placed on a flat and level surface. If you intend to connect to the instrument remotely, the detection unit needs to be in proximity to an ethernet port.

Read the user manual

Before attending the online installation session or setting up the instrument, it is imperative you read the user manual in full. The manual should be sent *via e-mail* to you when your item has been delivered. Please contact sales if you have not received the user manual.

Connecting to the instrument for the first time

Finally, please connect to the instrument directly for the first time. The detection unit needs to be plugged in and turned on to connect. Instructions on how to connect to the instrument can be found in our user manuals, handbooks and quick guides.

Delivery Check

Gas Endeavour Animal Nutrition (250 mL)

ART NO 28-0000-03



The GE Animal Nutrition system is composed of:

Incubation unit:

20 GL45 glass bottles 250 mL (ART NO 12-0101-01)

Shaking thermostatic water bath (ART NO 12-0106-02)

CO2 Absorption Unit:

2 Bottle holders (9x250 mL) (ART NO 01-0204-03)

20 Glass bottles (250 mL) (ART NO 12-0101-01)

20 Bottle nuts GL45 (ART NO 01-0202-02)

20 Lids GL45 (ART NO 01-0203-01)

BPC Core Unit:

1 BPC Core, its power adapter and ethernet cable (ART NO 28-0301-01)

20 Flow cell units, 2 mL (ART NO 12-0302-01)

20 Flow cell units 9 mL (ART NO 01-0305-02)

FCU volume sheet for calibration

Additional Components:

1 Syringe

1 Festo tubing 50 m (ART NO 08-0610-01)

20 Tubing stoppers (ART NO 21-0406-02)

20 Push-in valves (ART NO 24-0401-01)

40 Check valves (ART NO 90-1009-01)

40 Push-in connectors 6 mm (ART NO 24-0402-02)

12 Soft binders 7/180 mm (ART NO 21-0106-02)

40 Multi-coloured marker clamps (ART NO 21-0405-02)

Number marking stickers.

Funnel (ART NO 21-0407-01)

Bottle/tube opening tool (ART NO 24-0403-01)

Components

Images are examples of the products, exact specification may vary.

Incubation Unit



Shaking thermostatic water bath

Design may vary depending on version.



GL45 glass bottles

The GL 45 glass bottle can be used as a reactor vessel.

CO₂ Absorption Unit



Glass bottle 250 mL

The GL 45 250 ml glass bottle can be used as CO₂ absorption unit



Bottle holder 9 x 250 mL

Provides stabilisation for bottles so that they don't tip over when connected to tubes.



Bottle nut

Designed to fit GL 45 bottles, the nut can be used to hold any of the following items in place while creating a gas-tight seal.



GL45

For sealing GL 45 bottles while still allowing for gas to enter and exit through user attached tubing.

Detection Unit



BPC Core

Detection unit for the instrument. Picture is BPC Core AMPTS with 18 flow cell units in place.



Flow cell unit (FCU)

A single flow cell unit (FCU) as used in the BPC Core. Pictured is the 9 mL resolution.



Ethernet cable

Network cable for connecting any Ethernet network enabled system either directly to a computer or to network equipment.



Power supply

Cable for power supply to the BPC Core detection unit.

Tubing and Connections



Push-in valve 6 mm

Attach two pieces of tubing with an open/close valve function



Tubing stopper

For blocking open tubing



Check valve

The check valve is used to prevent reverse flow of gas or liquid, allowing the target substance to flow in only one direction.



Festo tubing

50 m spool of Festo tubing. May differ from the tubing pictured.



Push-in connectors



Multi-coloured clip markers

For labelling of tubing.



Soft binders 7/180 mm

Soft binders to allow cables to be grouped together.

Other



Funnel



Bottle opening tool

Custom tool to assist with removal of tubing or bottle lids – colour and style may vary



Syringe

The general purpose syringe can be used for filling a flow cell unit.

Items not included

The following items are **not** included in the package:

- Flushing gas to obtain anaerobic conditions inside the reactors.
- Chemicals such as 3 mol/L sodium hydroxide solution, pH indicator (thymolphthalein) and ethanol.
- Additional wall sock adapters (plus/contacts). The ones supplied are according to European, UK or US standards, depending on the country where the instrument will be operated.
- Gas sampling units and gas bags for off-line gas composition analysis.