

Scope :

**USER MANUAL
EXchoke™, EMERGENCY SHUTDOWN UNIT
FOR PNEUMATIC TOOLS**

BARTEC

Date:
01.07.2022

Ver.:
1

QA Code:
6

Checked by:
A.R.

Approved by:
S.Gr.

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Document no. :
23891

EMERGENCY SHUTDOWN UNIT FOR PNEUMATIC TOOLS

EXchoke™



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Manufacturer's address:

**BARTEC Technor AS
Vestre Svanholmen 24
4313 SANDNES
Norway**

Further technical information is available on www.bartec-technor.no.

Note on instructions

When working in hazardous areas, the safety of personnel and equipment depends on compliance with the relevant safety regulations. The people in charge of installation and maintenance bear a special responsibility and it is essential that they have knowledge of the applicable rules and regulations. These instructions provide a summary of the most important safety measures and must be read by everyone working with the product. The instructions to be kept for future reference and must be available throughout the expected life of the product.

Technical specifications

The equipment listed in this manual is certified according to the latest requirements of the ATEX Directive 2014/34/EU and IECEx regulations.

There are two versions of the EXchoke™ Emergency Shutdown Unit for Pneumatic Tools, the Standard version and the Extended version.


EXchoke™ Standard version:

The certificate numbers:

DNV-2001-OSL-ATEX-0176X

IECEX DNV 09.0004X

Example of the type label :

Type: TNCN 151510		BARTEC TECHNOR	
EXchoke™ S-230-H3		STAVANGER NORWAY	
X	0470	II2G Ex eb IIC	T5 Gb DNV-2001-OSL-ATEX-0176X
X	Ex eb IIC T5 Gb	IECEX DNV09.0004X	
U_N = 230 V	T.amb -20°C +45°C	IP 66	
I_N = 16 A	S.No./Year		
DO NOT OPEN WHEN ENERGIZED			

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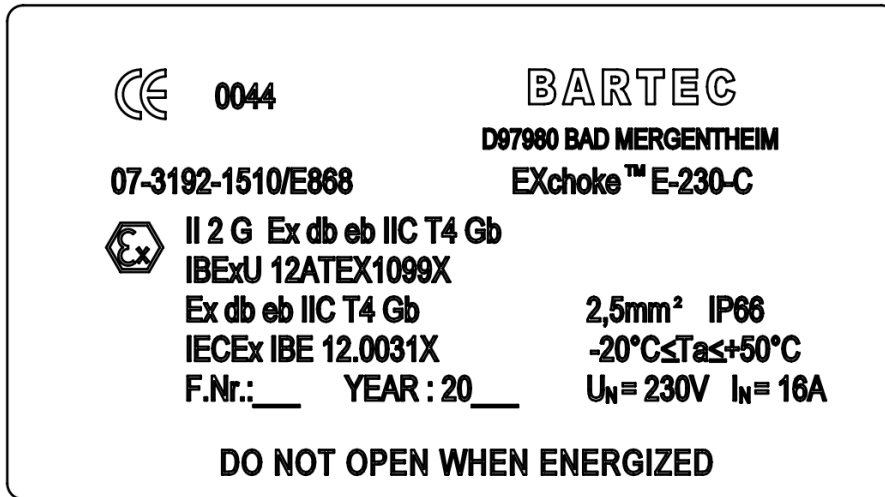
EXchoke™ Extended version:

The certificate numbers:

IBExU 12ATEX1099X

IECEX IBE 12.0031X

Example of the type label :



Description

The EXchoke™ Emergency Shutdown Unit for Pneumatic Tools is as mentioned above available in 2 main versions, Standard and Extended. They are made of acid resistant stainless steel 316L and are rugged and designed for harsh environment like:

- Oil and gas industry
- Chemical industry
- Pharmaceutical
- Industry
- Agribusiness

The EXchoke™ is designed for use in potentially explosive atmospheres, Zone 1, and certified according to the requirements of the ATEX directive and IECEX. The EXchoke™ comprises of a certified Ex e enclosure and a solenoid valve installed in a protective chassis. It has process connections for compressed air, in and out, and a 230 VAC mains plug on a 35 m rubber cable.

The EXchoke™ is manufactured in accordance with the following standards:

EN IEC 60079-0	: 2018	IEC 60079-0	: 2017
EN 60079-1	: 2014	IEC 60079-1	: 2014
EN 60079-7	: 2015+A1:2018	IEC 60079-7	: 2017
EN 60079-18	: 2014	IEC 60079-18	: 2014

Ex Marking

The EXchoke™ shall be marked according to the type labels shown above.

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Meaning of symbols



This symbol means a hazard and precaution to be taken

Safety instructions



The device must be used and maintained in accordance with the following standards:

- IEC/EN 60079-14 (Explosive atmospheres - Part 14: Electrical installations design, selection and erection)
- IEC/EN 60079-17 (Explosive atmospheres - Part 17: Electrical installations inspection and maintenance)
- Decrees, orders, laws, directives, circulars, applications, standards, state of art and other documentation relating to its installation site



It is forbidden to change anything (components, installation, wiring ...) without the prior written consent of BARTEC Technor.



We cannot accept any responsibility for failure to observe these regulations:

- Make sure of the compatibility between the information on the nameplate, the explosive atmosphere present, the area of use and ambient temperatures on surfaces
- Any damage on the device can cause the explosion-proof protection to become ineffective
- A defective or abnormal use as well as the noncompliance with the instructions of the present document exclude any clause of guarantee and do not engage our responsibility
- Liability for manufacturer traceability is ensured only at the first known delivery destination (serial number specified on the certification label)
- It is also required to observe the regulations of the country of use



Transport, storage

- Check if the product has been damaged during transport. If any damage is observed, do the statutory reserves to the carrier
- Do not put damaged products into service

Packaging	Location storage	Duration storage
Open	In a covered location, clean (without contact with external substances) and closed with temperature a constant humidity (-40°C < T < +70°C). Shielded from important temperature variations	2 years and more with regular inspection (cleanliness and mechanical damage)

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Putting into service

- Verify that the information on the label of the product is in accordance with the permissible conditions for the Ex area of the site of use (Group II: Surface Industries - Category 2: high level of protection for ATEX G = for Gas / D = for Dust, IECEx EPL - G = for Gas / D = for Dusts - IPxx: IP rating (waterproofness for solids and liquids)
- The unit including cable and plug must be inspected for any damage before connecting to power and air
- Make sure that the incoming air is connected to the process port marked with “AIR INLET / LUFT INN”. The process connection must be properly connected and secured
- Make sure that the outgoing air is connected to the process port marked with “AIR OUTLET / LUFT UT”. The process connection must be properly connected and secured
- Earthing / bonding: The unit is equipped with external connection facility for bonding. It is in reliable electrical contact with the internal earthing terminal and/or earth bar, as well as with any bonding terminals
- External bonding shall be connected
- When all is connected and secured, the power inlet plug may be installed in the service socket outlet

For other installation applications, contact BARTEC Technor AS for further information.

Before startup

- Make sure the unit has been placed on a steady surface
- Before connecting air, the pneumatic hoses and connectors must be inspected for any damage and replaced if necessary
- Before connecting power, the cable and plug must be inspected for any damage and replaced if necessary
- Make sure the pneumatic connections are securely fastened, and use safety wire and locking pin when required

Operation

STANDARD Version

Activation

- Connect power and air
- The solenoid valve will open instantly
- Pneumatic tools can now be operated

WARNING!

- **EXchoke™ must never be activated before air outlet and pneumatic tool is connected**
- **Air outlet or pneumatic tool must never be disconnected when EXchoke™ is activated**

Shutdown/restart

- EXchoke™ will shut down when power is lost or the mains plug is removed from the socket outlet
- To restart, restore power supply

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 **WARNING!**

- **Before restart, connected pneumatic tools must be switched off to prevent unintentional start.**

EXTENDED Version

Activation

- Connect power and air
- Press “PÅ/ON/RESET” button to activate air outlet on EXchoke™. Green indicator lamp will indicate that the EXchoke™ is active and air outlet is pressurized.
- Pneumatic tools can now be operated

 **WARNING!**

- **EXchoke™ must never be activated before air outlet and pneumatic tool is connected**
- **Air outlet or pneumatic tool must never be disconnected when EXchoke™ is activated**

Shutdown/restart

- EXchoke™ will shut down when power is lost or emergency stop button is activated
- To restart, restore power supply and/or reset emergency stop button and press “PÅ/ON/RESET” button

 **WARNING!**

- **Before restart, connected pneumatic tools must be switched off to prevent unintentional start.**

Maintenance

Maintenance shall be performed according the below requirements and according to EN IEC 60079-17. The maintenance and repair work on devices must be made only by authorized and trained personnel.

- Any repair must be performed by qualified personnel and in accordance with instructions from BARTEC Technor AS

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Before any work is started the device must be switched off. In addition:

- Prevent and avoid any formation of layers of dusts: make a periodic cleaning with a wet cloth
- Do not take apart the command and control units (push buttons, pilot light, etc.)



It is advisable that the following checks must be made at least once a year:

- The external equipment and surfaces must not be damaged
- The cable entries and blanking plugs must be securely fastened and in place
- If the enclosure is opened and prior to closing, check the cleanliness of gasket and screws/quick locks and that they are without any kind of damages



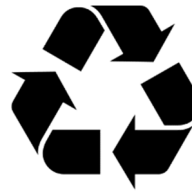
Special / Specific Conditions of Use (Special Conditions):

There are no special / specific conditions related to the use of this unit.



Dismantling, taking out of service:

When the unit is taken out of service, the materials must be disposed in a safe and environmentally friendly way. The enclosure units contain metal, electronic **components** and plastic parts. Therefore, the statutory requirements for disposing of electronic scrap (WEEE) must be observed (e.g. disposal by an approved disposal company). WEEE (Waste Electrical and Electronic Equipment) Directive, 2012/19/EU.



SS316L