

# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx LCIE 15.0048	Page 1 of 4	Certificate history:
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Status: Current Issue No: 2 Issue 1 (2019-08-13) Issue 0 (2015-11-25)

Date of Issue: 2021-07-29

Applicant: TIGER-VAC INTERNATIONAL INC.

2020 Dagenais Boulevard, West

Laval, Québec H7L 5W2 Canada

Equipment: Vacuum cleaner or Vacuum cleaner for the collection of combustible dust , Type: C (1.1) EX and C (1.2) EX

Optional accessory:

Type of Protection: Ex h tc

Marking: External: Ex h tc IIIC T85°C or T200°C Dc IP6X

Internal: Ex h IIIC T85°C or T200°C Da

Full marking in Annex 01

Approved for issue on behalf of the IECEx Julien Gauthier

Certification Body:

Position: Certification Officer

Signature:

(for printed version)

Date:

- 1. This certificate and schedule may only be reproduced in full.
- 2. This certificate is not transferable and remains the property of the issuing body.
- 3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE) 33 Avenue du General Leclerc FR-92260 Fontenay-aux-Roses France





## **IECEx Certificate** of Conformity

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Date of issue: 2021-07-29 Issue No: 2

TIGER-VAC INTERNATIONAL INC. Manufacturer:

2020 Dagenais Boulevard, West Laval, Québec H7L 5W2

Canada

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

### STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

ISO 80079-36:2016

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

Edition:2

Edition:1.0

Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and

requirements

ISO 80079-37:2016 Edition:1.0

Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of

protection constructional safety "c", control of ignition source "b", liquid immersion "k"

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## **TEST & ASSESSMENT REPORTS:**

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

FR/LCIE/ExTR15.0101/00 FR/LCIE/ExTR19.0073/00 FR/LCIE/ExTR21.0012/00

**Quality Assessment Report:** 

FR/LCI/QAR10.0008/11



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Date of issue: 2021-07-29 Issue No: 2

#### **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Vacuum cleaners intended for use in potentially explosive atmospheres.

The basic differences between each model are the size of the tank, the type of carriage and the type of filtration system.

The electrical components are the single-phase motor (the brush motor or the brushless motor), the rocker switch, the pilot light switch, the power module, the power cables and the electrical cable gland fitting.

Two possible designs for the equipment:

- · Vacuum cleaners for the collection of dusts or liquids in potentially explosive atmospheres classified Zone 22 (Dust).
- Vacuum cleaners for the specific collection of combustible dusts in potentially explosive atmospheres classified Zone 22 (Dust) and ensuring a very high level of protection inside the collection tank.

SPECIFIC CONDITIONS OF USE: NO



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)** Issue 02:

Normative update according to IEC 60079-0, Edition 7.0 standard. Addition of the mechanical part according to ISO 80079-36, Edition 1.0 and ISO 80079-37 Edition 1.0 standards. Addition of a new brushless motor. Technical document update.

Annex:

Annex 01 to Certificate IECEx LCIE 15.0048 issue 02\_1.pdf



## Annex 01 to Certificate IECEx LCIE 15.0048 issue 02



### **FULL EQUIPMENT DESCRIPTION**

Vacuum cleaners intended for use in potentially explosive atmospheres.

The basic differences between each model are the size of the tank, the type of carriage and the type of filtration system. The electrical components are the single-phase motor (the brush motor or the brushless motor), the rocker switch, the pilot light switch, the power module, the power cables and the electrical cable gland fitting.

Two possible designs for the equipment:

- Vacuum cleaners for the collection of dusts or liquids in potentially explosive atmospheres classified Zone 22 (Dust).
- Vacuum cleaners for the specific collection of combustible dusts in potentially explosive atmospheres classified Zone 22 (Dust) and ensuring a very high level of protection inside the collection tank.

#### **MARKING**

TIGER-VAC INTERNATIONAL INC.

Address: ..

Type: C (1.1) EX or C (1.2) EX

Serial number: ... Year of construction: ...

Vacuum cleaner « for explosive atmospheres » design:

Ex h tc IIIC T85°C or T200°C (1) Dc IP6X

Vacuum cleaners "for collection of combustible dust" design:

External: Ex h tc IIIC T85°C or T200°C (1) Dc IP6X

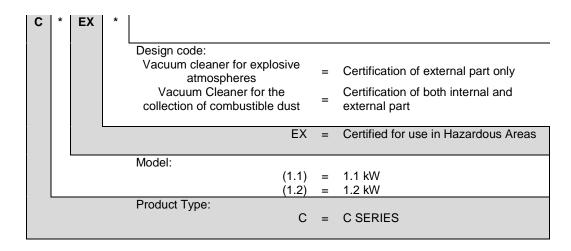
Internal: Ex h IIIC T85°C or T200°C (1) Da

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(1) T85°C for the version C (1.1) Ex T200°C for the version C (1.2) Ex

WARNING - DO NOT OPEN WHEN ENERGIZED.

### **RANGE DETAILS**





## **Annex 01 to Certificate IECEx LCIE 15.0048 issue 02**



## **RATINGS**

Electrical ratings:

Rated power: 1.1kW or 1.2kW Rated voltage: 220-240V or 120V Frequency: 50/60Hz or 60Hz Rated current: 5A or 8A or 13A

## **ROUTINE TESTS**

None.