



# 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](http://www.iecex.com)

Certificate No.: **IECEX LCIE 15.0048** Page 1 of 4 Certificate history:  
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  
Certification Body:

**Julien Gauthier**

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](http://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**





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Manufacturer: **TIGER-VAC INTERNATIONAL INC.**  
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

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**ISO 80079-36:2016** Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements  
Edition:1.0

**ISO 80079-37:2016** 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"  
Edition:1.0

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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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 <sup>(1)</sup> Dc IP6X

Vacuum cleaners "for collection of combustible dust" design:

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

Internal: Ex h IIIC T85°C or T200°C <sup>(1)</sup> Da

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<sup>(1)</sup> 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

<b>C</b>	*	<b>EX</b>	*	
				Design code:
				Vacuum cleaner for explosive atmospheres = Certification of external part only
				Vacuum Cleaner for the collection of combustible dust = Certification of both internal and external part
				EX = Certified for use in Hazardous Areas
				Model:
				(1.1) = 1.1 kW
				(1.2) = 1.2 kW
				Product Type:
				C = C SERIES



## 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.