



ATEX 3rd Party Certified  
CE 0081 II 2 GD  
Ex d IIB T4 Gb  
Ex tb IIIC T135°C Db IP65  
**LCIE 03 ATEX 6295**



CD EX Series IECEX 3rd Party Certified  
Ex d IIB T4 Gb  
Ex t IIIC T135°C Db IP65  
**IECEX LCI 10.0040 X**  
Certified for providing an Equipment Protection Level of EPL Db and EPL Gb



**GUARANTEED** for the Safe Recovery of Combustible/Conductive Dusts

**ESD Safe** Vacuum Cleaners for Hazardous Locations are designed to prevent ignition hazards. We use metal parts or Static Dissipative Powder Coating to prevent Electrostatic Discharge (ESD)



## Characteristics



Continuous Duty



EX Certified



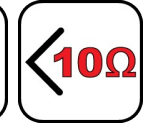
Detachable Tank



SS 304 and 316



Dry Recovery



Less than 10 ohms



HEPA Filter Available  
HEPA - Optional



ULPA Filter Available  
ULPA - Optional



Pharma Applications



Cleanroom Compatible

- Legally certified explosion proof/dust ignition proof.
- Less than 10 Ohms of resistivity.
- HEPA Filter - Optional with an efficiency of 99.995% on 0.3 micron. Tested: IEST-RP-CC001. H14 by MPPS method as per EN 1822 and OSHA compliant. All of our HEPA Vacuum Cleaners are Aerosol Leak Tested before leaving our facility.
- ULPA Filter - With an efficiency of 99.999% on 0.12 micron. Tested: IEST-RP-CC001. Filtration efficiency of 99.9995% on 0.18 micron. Tested: IEST-RP-CC001. U15 by MPPS method as per EN 1822. All of our ULPA Vacuum Cleaners are Aerosol Leak Tested before leaving our facility - Optional
- \*Cleanroom compatible with ISO Class 4 (former Class 10). Can be used in the pharmaceutical industry
- Designed to be attached to process machines and for general cleanup
- Can also be used for the recovery of Tablets in the Pharmaceutical Industry.
- Continuous Duty Single or 3-Phase (TEFC) Explosion Proof/Dust Ignition Proof motor
- Automatic Reverse Purge (ARP) with SD\* Reverse Purge Cartridge
- Available in a fixed or mobile unit
- All stainless Steel Type 304/316 construction.
- For Dry Recovery (Liquids can be recovered into a separate tank)
- Detachable Recovery Tank (DT) for easy disposal of recovered materials

- Vertical mounting for areas with space constraints.
- Equipped with 4 wheels for easy maneuverability
- Motor and switch for use in presence of conductive metal dusts available. North-America: Class II, Group E; Europe: Dust group IIIC
- Other motor performances available.

## Specifications

CD-2600 EX (ARP)	111470Z22	111471Z22	111473Z22	111474Z22	111477Z22	111478Z22
<b>Model Name</b>	CD-2600 EX CR (ARP) Z22	CD-2600 EX CR (ARP) Z22	CD-2600 EX CR (ARP) Z22	CD-2600 EX CR (ARP) Z22	CD-2600 EX CR (ARP) Z22	CD-2600 EX CR (ARP) Z22
<b>Type (Powerhead)</b>	Electric	Electric	Electric	Electric	Electric	Electric
<b>TEFC Motor</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Voltage</b>	400 V	400 V	400 V	400 V	400 V	400 V
<b>Hertz</b>	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
<b>Phase</b>	Three	Three	Three	Three	Three	Three
<b>Wattage</b>	2200 W	4000 W	2200 W	4000 W	2200 W	4000 W
<b>Power</b>	2.2 kW	4 kW	2.2 kW	4 kW	2.2 kW	4 kW
<b>Amperage</b>	5.2 amps.	8.2 amps.	5.2 amps.	8.2 amps.	5.2 amps.	8.2 amps.
<b>Air Flow</b>	299 m <sup>3</sup> /h	299 m <sup>3</sup> /h	299 m <sup>3</sup> /h	299 m <sup>3</sup> /h	299 m <sup>3</sup> /h	299 m <sup>3</sup> /h
<b>Vacuum Pressure</b>	2540 mm H <sub>2</sub> O	3380 mm H <sub>2</sub> O	2540 mm H <sub>2</sub> O	3380 mm H <sub>2</sub> O	2540 mm H <sub>2</sub> O	3380 mm H <sub>2</sub> O
<b>VRV Setting</b>	1780 mm H <sub>2</sub> O	2030 mm H <sub>2</sub> O	1780 mm H <sub>2</sub> O	2030 mm H <sub>2</sub> O	1780 mm H <sub>2</sub> O	2030 mm H <sub>2</sub> O
<b>Sound Level</b>	68 dB(A)	68 dB(A)	68 dB(A)	68 dB(A)	68 dB(A)	68 dB(A)
<b>Plug Type</b>	Not Included	Not Included	Not Included	Not Included	Not Included	Not Included
<b>Suction Inlet</b>	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm
<b>Cart Type</b>	Carriage Base (CB)	Carriage Base (CB)	Carriage Base (CB)	Carriage Base (CB)	Carriage Base (CB)	Carriage Base (CB)
<b>Filter Cleaning</b>	Automatic Reverse Purge (ARP)	Automatic Reverse Purge (ARP)	Automatic Reverse Purge (ARP)	Automatic Reverse Purge (ARP)	Automatic Reverse Purge (ARP)	Automatic Reverse Purge (ARP)
<b>Dry Recovery - Tank</b>	36 L	36 L	36 L	36 L	36 L	36 L
<b>Length</b>	66 cm	66 cm	66 cm	66 cm	66 cm	66 cm
<b>Width</b>	51 cm	51 cm	51 cm	51 cm	51 cm	51 cm
<b>Weight (Vacuum Only)</b>	112 kg.	112 kg.	112 kg.	112 kg.	112 kg.	112 kg.
<b>Height</b>	191 cm	191 cm	191 cm	191 cm	191 cm	191 cm
<b>Cord Length</b>	10 m	10 m	10 m	10 m	10 m	10 m
CD-2600 EX (ARP)	111480B1	111482B1	111486B1	111488B1		
<b>Model Name</b>	CD-2600 EX CR (ARP) Z1-2-21-22	CD-2600 EX CR (ARP) Z21	CD-2600 EX CR (ARP) Z1-2-21-22	CD-2600 EX CR (ARP) Z21		
<b>Type (Powerhead)</b>	Electric	Electric	Electric	Electric		
<b>TEFC Motor</b>	Yes	Yes	Yes	Yes		
<b>Voltage</b>	400 V	400 V	400 V	400 V		
<b>Hertz</b>	50 Hz	50 Hz	50 Hz	50 Hz		
<b>Phase</b>	Three	Three	Three	Three		
<b>Wattage</b>	2200 W	2200 W	4000 W	4000 W		
<b>Power</b>	2.2 kW	2.2 kW	4 kW	4 kW		
<b>Amperage</b>	4.8 amps.	4.3 amps.	8.7 amps.	8.2 amps.		
<b>Air Flow</b>	212 m <sup>3</sup> /h	200 m <sup>3</sup> /h	299 m <sup>3</sup> /h	299 m <sup>3</sup> /h		
<b>Vacuum Pressure</b>	2540 mm H <sub>2</sub> O	2540 mm H <sub>2</sub> O	3380 mm H <sub>2</sub> O	3380 mm H <sub>2</sub> O		
<b>VRV Setting</b>	1780 mm H <sub>2</sub> O	1780 mm H <sub>2</sub> O	2030 mm H <sub>2</sub> O	2030 mm H <sub>2</sub> O		

<b>Sound Level</b>	68 dB(A)	68 dB(A)	68 dB(A)	68 dB(A)
<b>Plug Type</b>	Not Included	Not Included	Not Included	Not Included
<b>Suction Inlet</b>	50 mm	50 mm	50 mm	50 mm
<b>Cart Type</b>	Carriage Base (CB)	Carriage Base (CB)	Carriage Base (CB)	Carriage Base (CB)
<b>Filter Cleaning</b>	Automatic Reverse Purge (ARP)	Automatic Reverse Purge (ARP)	Automatic Reverse Purge (ARP)	Automatic Reverse Purge (ARP)
<b>Dry Recovery - Tank</b>	36 L	36 L	36 L	36 L
<b>Length</b>	66 cm	66 cm	66 cm	66 cm
<b>Width</b>	51 cm	51 cm	51 cm	51 cm
<b>Weight (Vacuum Only)</b>	112 kg.	112 kg.	112 kg.	112 kg.
<b>Height</b>	191 cm	191 cm	191 cm	191 cm
<b>Cord Length</b>	10 m	10 m	10 m	10 m

Please note that specifications are subject to change without notice

### Use only recommended tools & accessories



HEPA Filter - Optional



CD-2600 Next to average sized man



CD-2600 Rear View



CD-2600 with Recovery Tank removed



Ø1.5" (Ø38mm) Static Dissipative Tools and Accessories - Optional



Ø2" (Ø50mm) Static Dissipative Tools and Accessories - Optional

### European Headquarters

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### International Headquarters

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**ATEX 3rd Party Certified**  
CE 0081 II 2 GD  
Ex d IIB T4 Gb  
Ex tb IIIC T135°C Db IP65  
**LCIE 03 ATEX 6295**



**CD EX Series IECEX 3rd Party Certified**  
Ex d IIB T4 Gb  
Ex t IIIC T135°C Db IP65  
**IECEX LCI 10.0040 X**  
Certified for providing an Equipment  
Protection Level of EPL Db and EPL Gb



**GUARANTEED** for the Safe Recovery  
of Combustible/Conductive Dusts

**ESD Safe** Vacuum Cleaners for Hazardous  
Locations are designed to prevent ignition  
hazards.

We use metal parts or Static Dissipative  
Powder Coating to prevent Electrostatic  
Discharge (ESD)



Continuous  
Duty



EX Certified



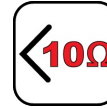
Detachable  
Tank



SS 304 and  
316



Dry Recovery



Less than 10  
ohms



HEPA Filter  
Available  
HEPA -  
Optional



ULPA Filter  
Available  
ULPA -  
Optional



Pharma  
Applications



Cleanroom  
Compatible

## Specifications for CD-2600 EX (ARP)

Name	Part Number	Voltage	Hertz	Phase	Wattage	Power	Amperage	Air Flow	Vacuum Pressure	Plug Type	Dry Recovery - Tank
CD-2600 EX CR (ARP) Z22	111470Z22	400 V	50 Hz	Three	2200 W	2.2 kW	5.2 amps.	299 m <sup>3</sup> /h	2540 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										
CD-2600 EX CR (ARP) Z22	111471Z22	400 V	50 Hz	Three	4000 W	4 kW	8.2 amps.	299 m <sup>3</sup> /h	3380 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										
CD-2600 EX CR (ARP) Z22	111473Z22	400 V	50 Hz	Three	2200 W	2.2 kW	5.2 amps.	299 m <sup>3</sup> /h	2540 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										
CD-2600 EX CR (ARP) Z22	111474Z22	400 V	50 Hz	Three	4000 W	4 kW	8.2 amps.	299 m <sup>3</sup> /h	3380 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										

<b>CD-2600 EX CR (ARP) Z22</b>	<b>111477Z22</b>	400 V	50 Hz	Three	2200 W	2.2 kW	5.2 amps.	299 m <sup>3</sup> /h	2540 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										
<b>CD-2600 EX CR (ARP) Z22</b>	<b>111478Z22</b>	400 V	50 Hz	Three	4000 W	4 kW	8.2 amps.	299 m <sup>3</sup> /h	3380 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										
<b>CD-2600 EX CR (ARP) Z1-2-21-22</b>	<b>111480B1</b>	400 V	50 Hz	Three	2200 W	2.2 kW	4.8 amps.	212 m <sup>3</sup> /h	2540 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										
Description: All Stainless Steel											
<b>CD-2600 EX CR (ARP) Z21</b>	<b>111482B1</b>	400 V	50 Hz	Three	2200 W	2.2 kW	4.3 amps.	200 m <sup>3</sup> /h	2540 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										
<b>CD-2600 EX CR (ARP) Z1-2-21-22</b>	<b>111486B1</b>	400 V	50 Hz	Three	4000 W	4 kW	8.7 amps.	299 m <sup>3</sup> /h	3380 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										
<b>CD-2600 EX CR (ARP) Z21</b>	<b>111488B1</b>	400 V	50 Hz	Three	4000 W	4 kW	8.2 amps.	299 m <sup>3</sup> /h	3380 mm H <sub>2</sub> O	Not Included	36 L
	Dimensions: H191 cm x W51 cm x L66 cm    Weight: 112 kg.    Sound Level: 68 dB(A)										

Please note that specifications are subject to change without notice

## Technical Sheet for CD-2600 EX (ARP)

HEPA/ULPA FILTERS AND ACCESSORIES - Optional	
Part #	Description
213181	ULPA FILTER (U15), Ø13.8125" x 3.875"(35.1cm X 98.4mm) HIGH, RATED 250 CFM
213182	HEPA FILTER (H14) W/GASKET, Ø13.8125"(35.1cm)x3.875"(98.4mm) HIGH
215012	HEPA HOUSING FOR CD-2600 -STAINLESS STEEL 304

REVERSE PURGE FILTER CARTRIDGE - Included	
Part #	Description
214182A	FILTER CARTRIDGE, ALUMINIZED SPUN BOND POLYESTER, 16"H x 3.63"ID x 7.932"OD,1" PLEATS, 13 SQ.FT

SKIRT FOR REVERSE PURGE FILTER CARTRIDGE - Optional	
Part #	Description
214177	SD* SKIRT FOR FILTER CARTRIDGE, 16" HIGH X 3.63" ID X 7.932" OD

GROUND CONTINUITY TESTER - Included	
Part #	Description
211065B	MULTIMETER

Ø1.5" (Ø38mm) CLEANROOM TOOLS AND ACCESSORIES - Optional	
Part #	Description
381427B	CLEAR URETHANE SUCTION HOSE ASMBLY 1.5" x 12.5', w/ 2" SS FEMALE CAMLOCK & 1.5" SS FEMALE SCREW TYPE
381366	DOUBLE BEND WAND ASSEMBLY (2pc), 1.5"(38mm) x 54"(137cm), STAINLESS STEEL w/STAINLESS TOOL COUPLING
381370	FLOOR TOOL ASSEMBLY, AUTOCLAVABLE, 1.5"(38mm) x 14"(36cm), STAINLESS STEEL w/WHITE NITRILE BLADES
381372	CREVICE TOOL Ø1.5"(38mm)x11"(27.9cm) -STAINLESS STEEL

**Ø1.5" (Ø38mm) EXPLOSION PROOF TOOLS & ACCESSORIES - MANDATORY FOR USE WHEN RECOVERING CONDUCTIVE, METAL & PYROTECHNIC DUST. STATIC DISSIPATIVE (LESS THAN 10 OHMS) - Optional**

Part #	Description
381400A	KANAFLEX SUCTION HOSE ASMBLY SD* 1.5"(38mm) x10'(3m) w/HOSE CUFF w/RING FOR USE w/1.5" CAMLOCK INLET
381364A	WAND ASSEMBLY (2pc), 1.5" X 54", S/S WITH ALUMINUM TOOL COUPLING, w/TAPER FOR USE w/HOSE CUFF w/RING
381236	UNIVERSAL TOOL SD* w/CONDUCTIVE BRUSH STRIPS, RUBBER BLADES, BRASS AXLE & WHEELS, 1.5" x18",ALUMINUM
381372D	CREVICE TOOL, 1.5"(38mm) x 11"(28cm), STAINLESS STEEL, FOR USE WITH HOSE CUFF WITH RING
381185DA	ROUND BRUSH, ALUMINUM SD*, 5"(12.5cm), WITH CONDUCTIVE BRISTLES, FOR USE w/HOSE CUFF w/RING
383461D	CONICAL NOZZLE ASSEMBLY(STRAIGHT)7.5"(19cm)CONDUCTVE RUBBER FOR HOSE CUFF W/RING (383461M+381147D)

**Ø2" (Ø50mm) CLEANROOM TOOLS AND ACCESSORIES - Optional**

Part #	Description
500362	EPDM HOSE ASSEMBLY Ø2"(50mm)x6.6'(2m)W/Ø2" SS FEMALE CAMLOCK ON 1 END&HOSE CLAMP ON OTHER
500160	WAND ONLY, SINGLE BEND, 2"(50mm) x 48" (122cm), ALUMINUM, WITH TAPER FOR FLOOR TOOL
500161	UNIVERSAL TOOL NO COUPLING WITH RUBBER BLADES&REGULAR BRUSH STRIPS Ø2"(50mm)x20"(51cm) -ALUMINUM
500156B	CREVICE TOOL SD* (NO COUPLING) Ø2"(50mm)x15"(38cm) -ALUMINUM
500235M	TIGER-CLAW ONLY (TRANSPARENT FOODGRADE SILICONE) Ø2"(50mm)x4.5"(11.5cm)
500231M	CONICAL NOZZLE ONLY (TRANSPARENT FOODGRADE SILICONE) Ø2"(50mm)x7.5"(19cm)
500554A	ADAPTOR FOR USE WITH Ø2"(50mm)CONICAL NOZZLE&TIGER CLAW -STAINLESS STEEL AISI 304, ELECTROPOLISHE

**Ø2" (Ø50mm) EXPLOSION PROOF TOOLS & ACCESSORIES - MANDATORY FOR USE WHEN RECOVERING CONDUCTIVE, METAL & PYROTECHNIC DUST. STATIC DISSIPATIVE (LESS THAN 10 OHMS) - Optional**

Part #	Description
500306B	KANAFLEX SUCTION HOSE ASSEMBLY SD* Ø2"(50mm)x15'(4.5m)WITH Ø2" FEMALE CAMLOCK,HOSE CUFF&RING
500160SS	WAND ONLY SINGLE BEND Ø2"(50mm)x48"(1.2m) -STAINLESS STEEL AISI 304 FOR HOSE CUFF & RING
500161A	UNIVERSAL TOOL Ø2"(50mm)x20"(51cm)SD* NO COUPLING WITH BRASS WHEELS&CONDUCTIVE BRISTLES&RUBBER BLADE
500558	CREVICE TOOL Ø2"(50mm)x15"(38cm) -STAINLESS STEEL AISI 304
501184DA	DUSTING BRUSH ALUMINUM SD* 2"(50mm) x 5"(13cm) w/CONDUCTIVE BRISTLES, FOR USE w/HOSE CUFF w/RING
500230D	CONICAL NOZZLE ASSEMBLY -CONDUCTIVE RUBBER Ø2"(50mm)x7.5"(19cm)FOR USE WITH HOSE CUFF & RING

**AVAILABLE UPGRADES - Optional**

Part #	Description
212779-M3EU	UPGRADE TO BALDOR MOTOR CL5030T-E, 1.5HP 120/230V 1PHSE FOR CLASS I -GRP D, CLASS II -GRPS E,F &G
212771-M1EU	UPGRADE TO BALDOR MOTOR CEM7071T-E, 230/460V 3PHASE, FOR CLASS I-GROUP D, CLASS II-GROUPS E,F&G
212771-M5EU	UPGRADE TO BALDOR MOTOR CEM7071T-E-5, 2HP 575V 60Hz 3PHASE, FOR CLSS I-GROUP D, CLSS II-GROUPS E,F&G
218705	UPGRADE (FROM VIGANO) TO KILLRK B7MS1R BOX FOR (1HP TO 5HP) CLASS I-GROUP D, CLASS II-GRPOUS E,F & G



LCIE

# ATTESTATION D'EXAMEN UE DE TYPE EU TYPE EXAMINATION CERTIFICATE



1 Version : 05

## LCIE 03 ATEX 6295

Issue : 05

### Directive 2014/34/UE

### Directive 2014/34/EU

2 Appareil ou Système de Protection destiné à être utilisé en Atmosphères Explosibles

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres

3 Produit :  
Aspirateurs

Product :  
Vacuum cleaners

**Type: CD-xx EX yy ou/ou CD/EUR xx EX yy ou/ou EUR/HLMT xx EX yy, CDPU xx**

4 Fabricant :

Manufacturer :

**TIGER VAC INTERNATIONAL INC.**

5 Adresse :

Address :

2020 DAGENAIS BLVD. WEST  
LAVAL, QUEBEC,  
H7L 5W2  
CANADA

6 Ce produit et ses variantes éventuelles acceptées sont décrits dans l'annexe de la présente attestation et dans les documents descriptifs cités en référence.

This product any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

7 Le LCIE, Organisme Notifié sous la référence 0081 conformément à l'article 17 de la directive 2014/34/UE du Parlement européen et du Conseil du 26 février 2014, certifie que ce produit est conforme aux Exigences Essentielles de Sécurité et de Santé pour la conception et la construction de produits destinés à être utilisés en atmosphères explosibles, données dans l'annexe II de la Directive.  
Accréditation Cofrac Certification de Produits et Services, n°5-0014. Portée disponible sur [www.cofrac.fr](http://www.cofrac.fr).

LCIE, Notified Body number 0081 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014 certifies that product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.  
Cofrac Accreditation Product and Services Certification n°5-0014. Scope available on [www.cofrac.fr](http://www.cofrac.fr).

Les résultats des vérifications et essais figurent dans le(s) rapport(s) confidentiel(s) N° :

The examination and test results are recorded in confidential report(s) N°:

**60005908-2 ; 60030838-528783 ; 60036253-535812 ; 86610-577691 ;  
114100-626870-01 ; 144558-692912**

8 Le respect des Exigences Essentielles de Sécurité et de Santé est assuré par la conformité à :

Compliance with the Essential Health and Safety Requirements has been assured by compliance with :

**EN 60079-0:2012 + A11 : 2013, EN 60079-1:2007 et /and EN 60079-31:2014.**

9 Le signe « X » lorsqu'il est placé à la suite du numéro de l'attestation, indique que cet appareil est soumis aux conditions particulières d'utilisation, mentionnées dans l'annexe de cette attestation.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

10 Cette Attestation d'Examen UE de Type concerne uniquement la conception et la construction du produit spécifié.  
Des exigences supplémentaires de la directive sont applicables pour la fabrication et la fourniture du produit. Ces dernières ne sont pas couvertes par la présente attestation.

This EU Type Examination Certificate relates only to the design and construction of the specified product.  
Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

11 Le marquage du produit est mentionné dans l'annexe de cette attestation.

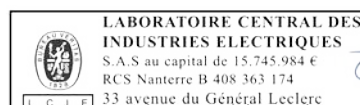
The marking of the product is specified in the schedule to this certificate.

Fontenay-aux-Roses, le 31 juillet 2017

Responsable de Certification

Certification Officer

Julien Gauthier



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CERT-ATEX-FORM 04 Rev. 02

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LCIE

Laboratoire Central des Industries Electriques  
Une société de Bureau Veritas

33 Avenue du Général Leclerc  
92260 Fontenay-aux-Roses  
FRANCE

[WWW.LCIE.FR](http://WWW.LCIE.FR)



#### 12 DESCRIPTION DU PRODUIT

Le matériel se compose d'un moteur électrique, d'un boîtier de commande et d'un réservoir de récupération d'un volume interne de 10 dm<sup>3</sup> à 150 dm<sup>3</sup>, métalliques.

Il est destiné à la récupération de liquides ou de poussières. Le raccordement électrique est réalisé par des matériels certifiés pour l'emploi considéré.

Position de fonctionnement verticale.

#### DETAIL DE LA GAMME

Les différents type d'équipement sont CD-xx EX yy, CD/EUR xx EX yy, EUR/HLMT xx EX yy, et la source d'alimentation CDPU xx.

Le "xx" est une valeur numérique utilisée pour différencier la puissance nominale du moteur de ventilation.

Le "yy" sert à indiquer le système de filtration installé dans l'aspirateur.

#### CARACTERISTIQUES

Tensions d'alimentation : 400 V

Intensité: 2,68 A à 22 A

Fréquence : 50 Hz

Puissance du moteur : 1,1 kW à 10 kW

#### MARQUAGE

Le marquage du produit doit comprendre :

TIGER VAC INTERNATIONAL INC.

Adresse : ...

Type : CD-xx EX yy ou CD/EUR xx EX yy ou

EUR/HLMT xx EX yy ou CDPU xx ... (1)

N° de fabrication : ...

Année de fabrication : ...

⊕ II 2GD

Ex d IIB T4 Gb Ex tb IIIC T135°C Db IP65

Tfluide ≤ 25°C -20°C ≤ Tamb ≤ 30°C (1)

or Ex tb IIIC T135°C Db IP65 -20°C ≤ Tamb ≤ 40°C (1)

or Ex d IIB T4 Gb Tfluide ≤ 25°C -20°C ≤ Tamb ≤ 30°C (1)

LCIE 03 ATEX 6295

AVERTISSEMENT- NE PAS OUVRIR SOUS TENSION

(1) Complété par le modèle

L'appareil doit également comporter le marquage normalement prévu par les normes de construction qui le concernent sous la responsabilité du fabricant.

#### 13 CONDITIONS PARTICULIERES D'UTILISATION

Aucune

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CERT-ATEX-FORM 04 Rev. 02

#### DESCRIPTION OF PRODUCT

The equipment consists of an electrical motor, of command box and of a tank for recuperation with a free internal volume of 10 dm<sup>3</sup> to 150 dm<sup>3</sup>, made of metals.

It is intended to the recuperation of liquids or dusts.

The electrical connection is realized by certified equipments for considered use.

Vertical position of functioning.

#### RANGE DETAILS

Equipment type are CD-xx EX yy, CD/EUR xx EX yy, EUR/HLMT xx EX yy, and power supply unit CDPU xx EX. The "xx" is a numerical value used to differentiate the power rating of the blower motor assemblies.

The "yy" is used to indicate the filtration system installed in the vacuum cleaner.

#### RATINGS

Rated voltage : 400 V

Current : 2,68 A to 22 A

Frequency : 50 Hz

Power of the motor : 1,1 kW to 10 kW

#### MARKING

The marking of the product shall include the following :

TIGER VAC INTERNATIONAL INC.

Address : ...

Type : CD-xx EX yy or CD/EUR xx EX yy or

EUR/HLMT xx EX yy or CDPU xx ... (1)

Serial number : ...

Year of construction : ...

⊕ II 2GD

Ex d IIB T4 Gb Ex tb IIIC T135°C Db IP65

Tfluide ≤ 25°C -20°C ≤ Tamb ≤ 30°C (1)

or Ex tb IIIC T135°C Db IP65 -20°C ≤ Tamb ≤ 40°C (1)

or Ex d IIB T4 Gb Tfluide ≤ 25°C -20°C ≤ Tamb ≤ 30°C (1)

LCIE 03 ATEX 6295

WARNING-DO NOT OPEN WHEN ENERGIZED

(1) Completed with the model.

The equipment shall also bear the usual marking required by the product standards applying to such equipment under the manufacturer responsibility.

#### SPECIFIC CONDITIONS OF USE

None

**14 EXIGENCES ESSENTIELLES DE SANTE ET DE SECURITE**

Couvertes par les normes listées au point 8.

**ESSENTIAL HEALTH AND SAFETY REQUIREMENTS**

Covered by standards listed at 8.

**15 DOCUMENTS DESCRIPTIFS**

**DESCRIPTIVE DOCUMENTS**

N°	Description	Reference	Rev.	Date	Page(s)
1.	Technical file	TVATEX1206B	09	2017/03/07	29
2.	Operation and maintenance manual	/	/	/	/

**16 INFORMATIONS COMPLEMENTAIRES**

**ADDITIONAL INFORMATION**

**Essais individuels**

N/A

**Produits considérés conformes à la Directive 2014/34/UE**  
(conformément à l'Article 14 de la Directive 2014/34/UE)

**Routine tests**

N/A

**Product regarded as conforming to Directive 2014/34/EU**  
(in accordance with Article 14 of Directive 2014/34/EU)

Désignation <i>Designation</i>	Fabricant <i>Manufacturer</i>	Type	Document de référence <i>Document of reference</i>
3phase asynchronous motor	CIMA SpA	440M(F) Ex21	TVATEX1206B
Vaccum Pump	Solarys srl	4** ... xxx ... xEXx ... xxxx-x	TVATEX1206B
3 phase and mono phase motor	Euromotori Srl	MAK56 %160	TVATEX1206B
Electrical motor	Rael motori elettrici S.r.l	RLM serie	TVATEX1206B
Cable gland	A.D VIGANO S.r.l	FGA or PAP	TVATEX1206B
Cable gland	Cembre	4900 and 4901	TVATEX1206B
3 phase motor	Cemp S.r.l	AB..r, DB..r, HB..r	TVATEX1206B
Control station	A.D VIGANO S.r.l	EJB .....	TVATEX1206B
Control station	COELBO S.r.l	CCF2 and CCF7/A	TVATEX1206B
Adaptors and plugs	ELFIT S.p.A	RE* and PLG	TVATEX1206B
Cable gland	FEAM S.r.l	P** or P*R*	TVATEX1206B

Ces produits sont déclarés conformes par leurs fabricants et leur conformité ne relève pas de la responsabilité du LCIE.

These products are declared compliant by their manufacturers and their conformity does not fall under the responsibility of LCIE.

**Conditions de certification**

Les détenteurs d'attestations d'examen UE de type doivent également satisfaire les exigences de contrôle de production telles que définies à l'article 13 de la Directive 2014/34/UE.

**Conditions of certification**

Holders of EU type examination certificates are also required to comply with the production control requirements defined in article 13 of Directive 2014/34/EU.

En accord avec l'Article 41 de la Directive 2014/34/UE, les attestations d'examen CE de type mentionnant la Directive 94/9/CE émises avant la date d'application de la Directive 2014/34/UE (20 avril 2016) peuvent être considérées comme émises en accord avec la Directive 2014/34/UE. Les nouvelles versions de ces attestations peuvent conserver le numéro de l'attestation d'origine émise avant le 20 avril 2016.

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to Directive 94/9/EC that were in existence prior to the date of application of Directive 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. New issues of such certificates may continue to bear the original certificate number issued prior to 20 April 2016.

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CERT-ATEX-FORM 04 Rev. 02

#### 17 DETAILS DES MODIFICATIONS

- Version 00 : Certification pour une utilisation en zone gaz  
01/12/2003
- Version 01 : Certification pour une utilisation en zone  
14/02/2005 poussière.  
Changement de moteurs.
- Version 02 : Ajout d'un nouveau type pour une utilisation en  
17/08/2005 zone poussière
- Version 03 : Mise à jour normative selon les normes EN  
19/08/2010 60079-0:2006; EN 60079-1:2007; EN 61241-  
0:2006 and EN 61241:2004  
Ajout d'un nouveau type EUR HLMT ...  
Mise à jour documentaire
- Version 04 : Mise à jour normative selon les normes EN  
19/07/2012 60079-0:2009; EN 60079-1:2007 and EN  
60079-31:2009.
- Version 05 : Mise à jour normative selon les normes EN  
60079-0:2012 + A11 : 2013 and EN 60079-  
31:2014  
Mise à jour du dossier technique

#### DETAILS OF CHANGES

- Issue 00 : Certification to use the apparatus in gas area  
2003/12/01
- Issue 01 : Certification to use the apparatus in dust area  
2005/02/14 Change of motors
- Issue 02 : Adding of new type to use only in dust area  
2005/08/17
- Issue 03 : Normative update according to EN 60079-0:2006;  
2010/08/19 EN 60079-1:2007; EN 61241-0:2006 and EN  
61241:2004 standards  
Adding of new type EUR HLMT ...  
Documentary update
- Issue 04 : Normative update according to EN 60079-  
2012/07/19 0:2009; EN 60079-1:2007 and EN 60079-  
31:2009 standards.
- Issue 05 : Normative update according to EN 60079-  
0:2012 + A11 : 2013 and EN 60079-31:2014  
standards.  
Technical file update



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx LCI 10.0040X Issue No: 3 Certificate history:  
Status: **Current** Issue No. 3 (2019-02-21)  
Date of Issue: **2019-02-21** Issue No. 2 (2012-08-08)  
Page 1 of 4 Issue No. 1 (2011-09-22)  
Issue No. 0 (2010-11-10)

Applicant: **TIGER-VAC INTERNATIONAL INC**  
2020 Dagenais Blvd. West  
Laval, Quebec H7L 5W2  
**Canada**

Equipment: **Vacuum Cleaner**  
*Optional accessory:*

Type of Protection: **d and t**

Marking:  
TIGER-VAC INTERNATIONAL INC  
Address : ...  
Type : CD-xx EX yy or CD/EUR xx EX yy or EUR/HLMT xx EX yy or CDPU xx EX  
Serial number : ...  
  
Year of construction : ...  
Ex d IIB T4 Gb Ex t IIIC T135°C Db IP65  
  
Tfluide < 25°C Tamb < 30°C (1)  
or Ex t IIIC T135°C Db IP65 Tamb < 40°C (1)  
or Ex d IIB T4 Gb Tfluide < 25°C Tamb < 30°C (1)  
IECEX LCI 10.0040X  
WARNING – DO NOT OPEN WHEN ENERGIZED.  
Remark (1): marking depends on final environment of product gas only or dust only or both gas and dust.

Approved for issue on behalf of the IECEx  
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:  
(for printed version)

Date:

2019-02-21

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





# IECEX Certificate of Conformity

Certificate No: IECEX LCI 10.0040X Issue No: 3

Date of Issue: 2019-02-21 Page 2 of 4

Manufacturer: **TIGER-VAC INTERNATIONAL INC**  
2020 Dagenais Blvd. West  
Laval, Quebec H7L 5W2  
**Canada**

Additional Manufacturing location(s):

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 apparatus 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:

<b>IEC 60079-0 : 2007-10</b> Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate **does not** indicate compliance with electrical 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 Report:

[FR/LCI/ExTR10.0043/00](#)      [FR/LCI/ExTR10.0043/01](#)      [FR/LCIE/ExTR19.0008/00](#)

### Quality Assessment Report:

[FR/LCI/QAR10.0008/08](#)



# IECEx Certificate of Conformity

Certificate No: IECEx LCI 10.0040X

Issue No: 3

Date of Issue: 2019-02-21

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The equipment is a vacuum cleaner intended for wet and dry recovery in potential explosive atmospheres. Equipment type are CD-xx EX yy, CD/EUR xx EX yy, EUR/HLMT xx EX yy, and power supply unit CDPU xx EX. The "xx" is a numerical value used to differentiate the power rating of the blower motor assemblies. The "yy" is used to indicate the filtration system installed in the vacuum cleaner.

The certificate cover only the electrical parts as described:

- Motor: Cemp S.p.A, ref AB30 xxxxy2 (differences are depending upon vacuum power),
- Motor: Motori Elettrici, ref RLM xxxxy2 (differences are depending upon vacuum power),
- Motor (alternate): Euromotori S.r.l, ref MAK xx (differences are depending upon vacuum power),
- Motor (alternate): LEROY-SOMER, ref LSPX xxxxy (differences are depending upon vacuum power),
- Control station: A.D. Vigano srl; type EJB,
- Control station (alternate): Coelbo Srl; type CCF2 and CCF7/A,
- Cord Bushing/Cable gland: EL.FIT S.p.A.; type FG,
- Cord Bushing/Cable gland (alternate): FEAM.; type P\*\* or P\*R\*,
- Adaptors and plugs: EL.FIT S.p.A.; types RE and PLG.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The user must ensure that the used accessories are those recommended by the manufacturer.



# IECEX Certificate of Conformity

Certificate No: IECEx LCI 10.0040X

Issue No: 3

Date of Issue: 2019-02-21

Page 4 of 4

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

Issue 0: Initial assesment

Issue 1: Correction of mistakes in product models, correction of editorial points, update of date of issue.

Issue 2: Normative update according to standards IEC 60079-0, Ed 5 ; IEC 60079-1, Ed 6 ; IEC 60079-31, Ed 1.

Issue 3: Addition of a new cable gland, Manufacturer: FEAM, type: P\*\* and P\*R\* and addition of a specific condition of use.

## **Annex:**

[Annex 01 to Certificate IECEx LCI 10.0040X issue 03 .pdf](#)



## Annex 01 to Certificate IECEx LCI 10.0040X issue 03



### FULL EQUIPMENT DESCRIPTION

The equipment is a vacuum cleaner intended for wet and dry recovery in potential explosive atmospheres. Equipment type are CD-xx EX yy, CD/EUR xx EX yy, EUR/HLMT xx EX yy, and power supply unit CDPU xx EX. The "xx" is a numerical value used to differentiate the power rating of the blower motor assemblies. The "yy" is used to indicate the filtration system installed in the vacuum cleaner.

The certificate cover only the electrical parts as described:

- Motor: Cemp S.p.A, ref AB30 xxxyy2 (differences are depending upon vacuum power),
- Motor: Motori Elettrici, ref RLM xxxyy2 (differences are depending upon vacuum power),
- Motor (alternate): Euomotori S.r.l, ref MAK xx (differences are depending upon vacuum power),
- Motor (alternate): LEROY-SOMER, ref LSPX xxxyy (differences are depending upon vacuum power),
- Control station: A.D. Vigano srl; type EJB,
- Control station (alternate): Coelbo Srl; type CCF2 and CCF7/A,
- Cord Bushing/Cable gland: EL.FIT S.p.A.; type FG,
- Cord Bushing/Cable gland (alternate): FEAM.; type P\*\* or P\*R\*,
- Adaptors and plugs: EL.FIT S.p.A.; types RE and PLG.

### MARKING

TIGER VAC INTERNATIONAL INC.

Address : ...

Type : CD-xx EX yy or CD/EUR xx EX yy or EUR/HLMT xx EX yy or CDPU xx EX

Serial number : ...

Year of construction : ...

Ex d IIB T4 Gb Ex t IIIC T135°C Db IP65

Tfluide < 25°C Tamb < 30°C (1)

or Ex t IIIC T135°C Db IP65 Tamb < 40°C (1)

or Ex d IIB T4 Gb Tfluide < 25°C Tamb < 30°C (1)

IECEx LCI 10.0040X

WARNING – DO NOT OPEN WHEN ENERGIZED.

Remark (1): marking depends on final environment of product gas only or dust only or both gas and dust

### RANGE DETAILS

The nomenclature used is CD-xx EX yy, CD/EUR xx EX yy, EUR/HLMT xx EX yy and power unit CDPU xx.

The "xx" is a numerical value used to differentiate the power rating of the blower motor assemblies.

The "yy" is used to indicate the filtration system installed in the vacuum cleaner.

List of the vacuum cleaner models:

- CD (1.5) / (2.2) / (3) / (4) / (5.5) / (7.5) / (11) / (15) EX,
- CD/EUR (1.5) / (2.2) / (3) / (4) / (5.5) / (7.5) / (11) / (15) EX,
- EUR/HLMT (1.5) / (2.2) / (3) / (4) / (5.5) / (7.5) / (11) / (15) EX,
- CDPU (1.5) / (2.2) / (3) / (4) / (5.5) / (7.5) / (11) / (15) EX.

### FULL CONDITIONS OF CERTIFICATION

The user must ensure that the used accessories are those recommended by the manufacturer.





## Annex 01 to Certificate IECEX LCI 10.0040X issue 03



### ROUTINE TESTS

Each apparatus shall be submitted to earth continuity and dielectric strength test.

### APPARATUS OVERVIEW

N/A

### ADDITIONAL MANUFACTURING LOCATIONS

N/A

### TEST & ASSESSMENT REPORTS

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

Test Report:

FR/LCI/ExTR10.0043/00,  
FR/LCI/ExTR10.0043/01,  
FR/LCI/ExTR19.0008/00.

Quality Assessment Report:

FR/LCI/QAR10.0008/08