

# FRV Series Industrial Vacuums

*Certified*  
**EXPLOSION  
PROOF**

**Hazardous Location Equipment  
for Combustible Dust**



**ETL Certified to UL Standards for  
Combustible Dust Collection**  
(Class I, Division 1 & 2, Group D and  
Class II, Div 1 & 2, Group F & G)

- » **Coal Dust**
- » **Talc, Flour, Grain, Graphite**
- » **Plastic Dust and Pellets**
- » **Wood Dust or Fine Powder**
- » **Textile, Rubber, Paint**
- » **Pharmaceuticals**
- » **Food Preparation Facilities**



**Intrinsically Safe  
Pneumatic Power**

**Explosion Proof  
Electric Power**



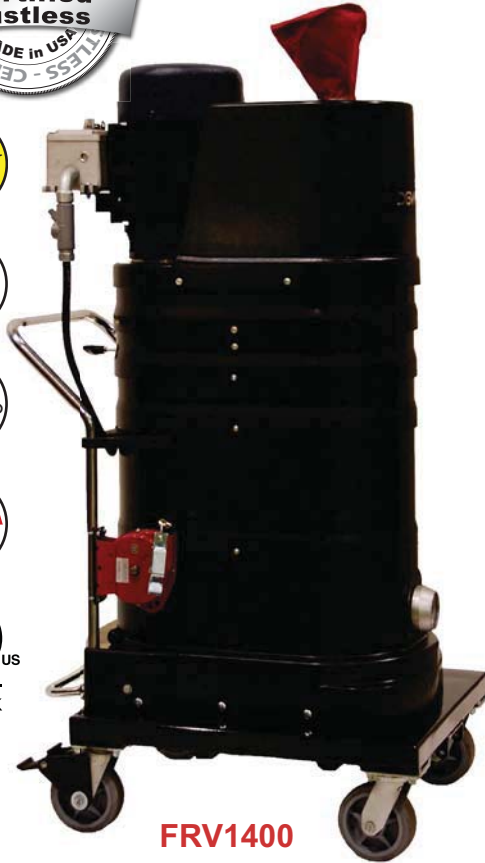
**Ruwac USA**

Latta Equipment Company, Inc  
(704) 752-7944 - [info@lattaequipment.com](mailto:info@lattaequipment.com)  
[www.WorkDustFree.com](http://www.WorkDustFree.com)



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# FRV Series Electric Vacuums



**FRV1400**

## Features and Benefits:

**Air Diffuser/Silencer:** The exhausted air from the turbine is diffused to prevent the re-entrainment of laden dust. The motor deck silencer provides a quiet working environment, even in continuous use.

**Vacuum Producer:** Single or Three Phase: Multi-stage centrifugal turbine produces more suction using less horsepower than any other in its class. Explosion proof TEFC motor is maintenance free, rated for continuous duty and is completely serviceable nationwide.

**Durable Housing:** Constructed with 900 tons of pressure, compression cast composite housing will not dent, break or rust. The carbon impregnated housing is chemically neutral and static dissipating (<10<sup>-6</sup> Ohms) to eliminate static discharge. Housing is modular to accommodate filter upgrades and is backed by our lifetime warranty.

**Superior Filtration:** Our state-of-the-art, MicroClean filter is 99.9% efficient at 0.5 microns. This primary oversized filter is fully grounded and low loading to prevent air flow constriction. It features a self-cleaning filter system and an external shaker.

**Easy to Empty Dustpan:** Foot lever drops large dustpan down for easy emptying without lifting of heavy motor deck or disassembly of filter. There are no messy pre-filters or bags to change. Dustless emptying leaves the filter untouched to prevent recontamination of area.

**Sturdy Base:** Heavy-duty conductive casters and base are fully grounded and provide easy portability. Aluminum inlet features a bronze deflector to drop material out of the air stream. Vacuum has low center of gravity and base is counterbalanced to prevent tipping.

**Accessories:** Each vacuum ships with an accessory package that includes grounded and static conductive hoses and tools.

**Warranty:** Three year limited warranty includes machine and filter.

Model:	FRV110	FRV1150	FRV1220	FRV1400
<b>Description:</b>	DS1000-EX & Accessory Package 151510DEX-SP	DS1150-EX & Accessory Package 151510DEX-SP	DS1220-EX & Accessory Package 151510DEX-SP	DS1400-EX & Accessory Package 202025DEX
<b>Legally Certified for:</b>	Class I, Division 1 and 2, Group D; and Class II, Division 1 and 2, Group F & G			
<b>Voltage:</b>	110Volts	208, 230/460 Volts	208, 230/460 Volts	208, 230/460 Volts
<b>Horsepower:</b>	1.5 HP	2 HP	3 HP	5 HP
<b>Motor Type:</b>	Single Phase*	Three Phase	Three Phase	Three Phase
<b>Amp:</b>	16 Amp	6/3 Amp	14/4 Amp	17/7 Amp
<b>Noise Emission:</b>	68 dB	68 dB	68 dB	72 dB
<b>Vacuum Pressure:</b>	5 Hg	5 Hg	5.7 Hg	6.2 Hg
<b>Air Flow:</b>	150 CFM	180 CFM	180 CFM	300 CFM
<b>Filter:</b>	13 ft <sup>2</sup> MicroClean	13 ft <sup>2</sup> MicroClean	13 ft <sup>2</sup> MicroClean	13 ft <sup>2</sup> MicroClean
<b>Filter Efficiency:</b>	99.9% @ 0.5 micron	99.9% @ 0.5 micron	99.9% @ 0.5 micron	99.9% @ 0.5 micron
<b>Collection Capacity:</b>	9 gallons	9 gallons	9 gallons	9 gallons
<b>Inlet:</b>	2" w/bronze cast deflector	2" w/bronze cast deflector	2" w/bronze cast deflector	2.75" w/bronze cast deflector
<b>Casters:</b>	3" heavy duty conductive	3" heavy duty conductive	3" heavy duty conductive	6" heavy duty conductive
<b>Dimensions:</b>	35.25" x 24.5" x 35"	35.25" x 24.5" x 35"	35.25" x 24.5" x 35"	35.25" x 24.5" x 55"
<b>Weight:</b>	150 lbs	155 lbs	155 lbs	200 lbs

Learn About Combustible Dust at [www.WorkDustFree.com](http://www.WorkDustFree.com)

# FRV Series Air Vacuums



**FRV100**



The pneumatically powered, intrinsically safe FRV vacuums include the same great features as the electrically powered models. While there are no certification standards for air powered explosion proof vacuums, Ruwac's are self-certified to the same UL, CSA and ATEX standards that apply for electric machines - with the only difference in construction being the replacement of the electric explosion proof vacuum motor and switch, with our stainless steel venturi. Our air-powered explosion proof vacuums are the safest alternative power explosion proof vacuum cleaner for use in Class I and Class II environments.

Model:	FRV100	FRV 200
<b>Description:</b>	Accessory Package 151510DEX-SP	Accessory Package 202025DEX
<b>Vacuum Producer:</b>	Single Stainless Steel Venturi	Dual Stainless Steel Venturi
<b>Noise Emission:</b>	72 dB	72 dB
<b>Vacuum Pressure:</b>	13 Hg	16 Hg
<b>Air Flow:</b>	150 CFM	275 CFM
<b>Filter:</b>	13 ft <sup>2</sup> MicroClean	28 ft <sup>2</sup> MicroClean
<b>Filter Efficiency:</b>	99.9% @ 0.5 micron	99.9% @ 0.5 micron
<b>Collection Capacity:</b>	9 gallons	9 gallons
<b>Inlet:</b>	2" w/bronze cast deflector	2" w/bronze cast deflector
<b>Casters:</b>	3" heavy duty conductive	3" heavy duty conductive
<b>Dimensions:</b>	32" x 20" x 41"	32" x 20" x 54"
<b>Weight:</b>	100 lbs	133 lbs

## How Much Do You Know About Combustible Dust?

Combustible dust is a light build-up of particular types of dust in a closed area that can be instantly ignited by an accidental spark and lead to loss of life and property. There are many different types of dust that can be considered combustible.

If you have combustible dust in your facility OSHA requires that you have specific housekeeping practices in place.



Are you prepared for your next OSHA visit? Are you keeping your employees safe? Are you doing what you need to prevent the loss of property?

You can obtain your FREE Combustible Dust Housekeeping Guide by visiting:

[www.WorkDustFree.com](http://www.WorkDustFree.com)

## Included Accessory Kit



### 151510DEX-SP Accessory Package:

1.5" ID x 10" Urethane, Static-Conductive Hose w/ Two 1.5" Molded Cuffs; Exclusive 16" Conductive Rubber Floor Tool w/ Replaceable Bristles and Squeegee; 54" Aluminum Two Piece Wand; 11" Aluminum Crevice Tool; 3" Round Static-Conductive Brush w/ Carbon Impregnated Nylon Bristles; 2" Button Lock Reducer x 1.5"

### 202025DEX Accessory Package:

2" ID x 25' Urethane Static Conductive Smooth Bore Hose w/ Two 2" Molded Cuffs ; 20" Ruwac Signatural Aluminum Cast Floor Tool with Rollers; 45" Stainless Steel Single Bend Wand; 15" Stainless Steel Crevice Tool Floor Tool; 20", 2" Button Lock Hose Connectors



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**EXPLOSION  
PROOF**

**The FRV Series Explosion Proof Vacuums** are designed

for collecting and containing very fine explosive dusts. Whether doing light general housekeeping in your plant or heavy pickup in and around production equipment and storage areas, the exceptional cleaning power, durability and safety of our explosion-proof vacuums have made the FRV Series the vacuum of choice for combustible dust everywhere.

Manufactured under strict quality control in our ISO 9001 registered plant, our explosion-proof vacuums are made in the U.S.A. and are intrinsically safe, with all parts and components fully grounded, static dissipating and guaranteed to be spark-free. Every one of our explosion-proof vacuums conforms to Class I, Division 1 & 2, Group D and Class II, Division 1 & 2, Groups F & G requirements for use in hazardous locations. Electric models are ETL third party certified to UL and CSA and our air models are built to these same high standards.

For over 30 years, Ruwac has been manufacturing explosion proof vacuums for a wide array of hazardous applications world-wide. We are very familiar with the cleaning issues involved with fine combustible dusts. Please be assured that our FRV Series explosion-proof vacuums will provide years of maximum safety, high performance cleaning, low maintenance costs, and easy operation. We guarantee it. Call us for a personal consultation by a certified Ruwac explosion proof application engineer.



Latta Equipment Company, Inc  
(704) 752-7944 - info@lattaequipment.com  
www.WorkDustFree.com

# Explosion Proof Options & Accessories

## Explosion Proof HEPA

OPTIONAL: Modular housing allows for upgrades to HEPA filtration at any time, to collect and contain debris down to and including 0.3 microns.



## Retractable Grounding Reel

OPTIONAL: Retractable grounding reel provides third source of grounding for electric vacuums. Reel is standard on the air powered vacuums.



## Overhead Cleaning Kit

OPTIONAL: Accessory package 1560ODEX includes: 9" aluminum wall brush; 4-6" aluminum pipe cleaning tool; two 60" aluminum wands w/tool coupling.



## Pre-Separator

OPTIONAL: Collect 97% of debris before reaching the vacuum with Ruwac's HEC - High Efficiency Cyclone. Increases filter life. 30 & 55 gallon drum. Tipping drum and forklift pockets makes emptying easy. Very portable.



## Disposable Dustpan Liner

OPTIONAL: Static conductive and disposable the dustpan liner comes with lid for quick removal and disposable of explosive dust.



## Extended Caster Assembly

OPTIONAL: The heavy duty frame sits on 6" casters and is counterbalanced for increased movability.



## Grounded and Sealed Vacuums

You may not be required to use Explosion Proof Vacuums

Find out more about Ruwac - (704) 752-7944

## Collecting Conductive Metal Dusts?

Designed for the collection of combustible metal dusts and materials that contain an ignition source, are impact sensitive, unstable or explosive, (Class II, Group E) the NA35 series completely immerses vacuumed particles in liquid. Particulates entering the vacuum are immediately mixed in a turbulent liquid bath. The force of this rapidly moving air and liquid completely submerges all collected particles. This stops the already contained materials from finding any possible ignition source that could be introduced to the vacuum, guaranteeing a safe working environment and eliminating risk of an explosion.



Ask us if this is the right vacuum for you.

**(704) 752-7944**

# DS2-Ex Series

**POWERFUL, HIGH CFM AND RUGGED  
EXPLOSION-PROOF VACUUM**



## Designed for use with:

- »» Class I, Group D; Class II, Groups F & G Atmospheres
- »» Vacuuming and Containing Combustible Dusts (Sugars, Grains, Plastics, Wood, Rubbers, Pharmaceuticals, Coal, etc.)
- »» Multiple Operators
- »» Large Chips or Debris
- »» Abrasive Dust Collection
- »» Point of Source Extraction
- »» Portable or Central Systems

# Ruwac

We vacuum everything.

[www.WorkDustFree.com](http://www.WorkDustFree.com)

Call: 800-614-9598



# DS2-Ex Series

## Hazardous Location Equipment for Combustible Dust



Offering continuous duty operation with high performance in a compact size, Ruwac's DS2 Explosion Proof series is OSHA compliant and ideal for use inside Class I, Group D and Class II, Groups F & G rated atmospheres. Fully grounded and guaranteed non-sparking by impact, the DS2-Ex is capable of safely removing large quantities of combustible dusts and particles into an easily disposable 24 gallon foot-actuated dustpan. It also features 48 ft² of Ruwac's industry-leading MicroClean antistatic filtration. (Note: Group E motors and switches are available.)

Ruwac's DS2-Ex Series is equipped with an explosion-proof TEFC motor and lifetime guaranteed fiberglass composite housing built to withstand rugged use while safely dissipating static. Anti-static casters and a counter-balanced base provide safe, easy mobility during operation, and an optional HEPA filter upgrade ensures that only purified air is returned out of the system.

### MICROCLEAN FILTRATION



- 99.99% efficient at 0.5 microns
- Proven pleated design
- 3-year filter guarantee

SINGLE TURBINE

DS2151-EX	DS2210-EX	DS2310-EX	DS2410-EX	DS2710-EX
Single Phase	Three Phase	Three Phase	Three Phase	Three Phase
1.5 Hp	2 Hp	3 Hp	5 Hp	10 Hp
120 V	230 / 460 V	230 / 460 V	230 / 460 V	230 / 460 V
135 CFM	180 CFM	180 CFM	300 CFM	288 CFM
5.5 Hg"	5 Hg"	5.7 Hg"	6.2 Hg"	8.2 Hg"
46 ft² Filter	46 ft² Filter	46 ft² Filter	46 ft² Filter	46 ft² Filter
24 gal. capacity	24 gal. capacity	24 gal. capacity	24 gal. capacity	24 gal. capacity

DUAL TURBINE

DS2420-EX	DS2520-EX	DS2720-EX
Three Phase	Three Phase	Three Phase
5 Hp	7.5 Hp	10 Hp
230 / 460 V	230 / 460 V	230 / 460 V
310 CFM	370 CFM	506 CFM
6.7 Hg"	7.2 Hg"	6.9 Hg"
46 ft² Filter	46 ft² Filter	46 ft² Filter
24 gal. capacity	24 gal. capacity	24 gal. capacity

## OPTIONS



### HEPA After Filters

- For absolute filtration -- Returns only clean air!
- DOP tested and certified
  - Class H14 HEPA: 99.997% efficient @ 0.3 microns



### NA250 Extended

- Safely collects explosive / glowing media (Aluminum, Magnesium, Titanium) entering the vacuum by submerging them into liquid bath
- Designed for any existing portable vacuum up to 525 CFM



### Tubings & Fittings

- Elbows, adapters, inlets and couplings in a range of sizes and materials that will help you to easily install and customize your vacuum system!



### Hoses & Tools

- Ruwac offers a wide variety of accessories to fulfill your vacuum needs! Contact us today to receive your very own copy of our Accessory Catalog!



# HIGH EFFICIENCY CYCLONE PRE-SEPARATORS



## HOW IT WORKS

The High Efficiency Cyclone (HEC) by Ruwac is part of an exclusive pre-separation system designed for applications where your vacuum filters may be clogging prematurely. By attaching an HEC between any Ruwac vacuum and above a drum or direct bagging system, the materials entering will be separated before they enter your vacuum system inside the cyclone at a high velocity, thus breaking down particles before they enter the vacuum's filter unit. Once it reaches the vacuum's filter unit, the material will be finely separated to avoid filter clogging.



## PRE-SEPARATION SYSTEMS

95(+)% efficient with submicron particles, the High Efficiency Cyclone (HEC) in itself is your solution to increasing your vacuum's collection capacity while sparing you from costly filter changes. Now with these 4 unique HEC Separation Systems, the clean-up process is made much easier thanks to a wide variety of benefits and features such as tipping drums, bagging systems and lifting assemblies. All systems are compatible with the 8", 12" or 14" HECs.



**HEC-S**

- Includes standard, reinforced removable drum
- Attaches to any drum allowing for multiple filling cycles and reuse of old drums
- 3" Casters with heavy duty caddy for ultimate mobility



**HEC-XLT**

- Tipping drum for fast emptying eliminates any heavy lifting
- Fork lift pockets for ultimate mobility even under heavy loads
- Equalizer kit allows plastic bags to be used for collection within drum



**HEC-XT**

- Universal direct bagging system allows for dustless clean-up and minimizes contact with contents
- External gravity drop for continuous discharge and vacuum operation
- Oversized internal drop out chamber with velocity break
- 6" Heavy duty casters and counter-balanced base for ultimate mobility



**HEC-DB**

- Lifting assembly mechanically raises cyclone from drum for easy emptying
- Tipping drum for fast emptying eliminates any heavy lifting
- Fork lift pockets for ultimate mobility even under heavy loads
- Equalizer kit allows plastic bags to be used for collection within drum



Latta Equipment Company, Inc  
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Call Toll Free: 1-800-614-9598 (U.S. Only)

# Rubber Conductive Tools w/Stainless Steel Connectors



## Rubber Tool Standard Specifications

- Fully conductive
- Non-scratching
- Variety of tools for many situations

### 1: 12" Flexible Rubber Nozzle w/ 90 degree bend

#35655	1.5" hose connection <sup>1</sup>	\$73.16
#50655	2.0" hose connection <sup>1</sup>	\$100.52
#50655-BL	2.0" hose connection w/button lock <sup>1</sup>	\$107.89

### 2: Bulk Pickup Tool

#35651	1.5" hose connection <sup>1</sup>	\$55.74
#50651	2.0" hose connection <sup>1</sup>	\$88.37
#50651-BL	2.0" hose connection w/button lock <sup>1</sup>	\$95.73

### 3: 5" Utility Tool

#35656	1.5" hose connection <sup>1</sup>	\$87.89
#50656	2.0" hose connection <sup>1</sup>	\$95.26
#50656-BL	2.0" hose connection w/button lock <sup>1</sup>	\$102.63

### 4: 8" Bent Rubber Nozzle

#35653	1.5" hose connection <sup>1</sup>	\$62.63
#50653	2.0" hose connection <sup>1</sup>	\$95.26
#50653-BL	2.0" hose connection w/button lock <sup>1</sup>	\$102.63

### 5: 6" Crevice Tool

#35654	1.5" hose connection <sup>1</sup>	\$55.74
#50654	2.0" hose connection <sup>1</sup>	\$88.37
#50654-BL	2.0" hose connection w/button lock <sup>1</sup>	\$95.73

### 6: 16" Crevice Tool

#35657	1.5" hose connection <sup>1</sup>	\$65.75
#50657	2" hose connection <sup>1</sup>	\$93.50
#50657-BL	2" hose connection w/button lock <sup>1</sup>	\$105.50

### 7: 4" Round Brush w/ Brass and Nylon Bristles

#35652	1.5" hose connection <sup>1</sup>	\$145.79
#50652	2.0" hose connection <sup>1</sup>	\$146.73
#50652-BL	2.0" hose connection w/ button lock <sup>1</sup>	\$154.10

### 8: 16" Roller Floor Tool w/ Replaceable Nylon Bristles and Squeegees

#35658	1.5" hose connection <sup>1</sup>	\$195.00
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LATTA EQUIPMENT COMPANY, INC.



330 EAST HEBRON STREET, SUITE J  
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Vacuum & Cyclone can be connected as one unit



Lid raises on gas springs



Drum locks in place at a 45 degree angle for easy liner installation



LATTA EQUIPMENT COMPANY, INC.



330 EAST HEBRON STREET, SUITE J  
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Drum locks in place to tie off waste liner



Drum tilts more to dump material



Vacuum & Cyclone can be separated



Cyclone cart has forklift pockets



This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

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**Email:** wolfgang@ruwac.com

**Manufacturer:** Same as Applicant

**Address:**  
**Country:**  
**Contact:**  
**Phone:**  
**Email:**

**Party Authorized To Apply Mark:** Same as Applicant  
**Report Issuing Office:** Intertek Cortland

**Control Number:** 3169683

**Authorized by:**

*for Michelle Lake*  
 William T. Starr, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

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Intertek Testing Services NA Inc.  
 165 Main Street, Cortland, NY 13045  
 Telephone 800-345-3851 or 607-753-6711 Fax 607-756-6699

**Standard(s):** Vacuum Cleaners, Blower Cleaners, and Household Floor Finishing Machines (UL 1017, 7th Edition, Dated December 7, 2001, with Revisions Through and Including June 15, 2006)

Vacuum Cleaners, Blower Cleaners, and Household Floor Finishing Machines (CSA C22.2 No. 243-01, 3rd Edition, Dated December 7, 2001, Reaffirmed June 2006)

Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations (UL 1203, 4th Edition, Dated September 15, 2006)

Explosion-Proof Enclosure for Use in Class I Hazardous Locations (CSA C22.2 No. 30-1986, Dated November 1988, Reaffirmed 2007)

Enclosures for Use in Class II Groups E, F, and G Hazardous Locations (CSA C22.2 No. 25-1966, Reaffirmed 2004)





# AUTHORIZATION TO MARK

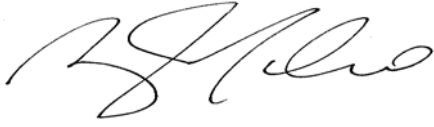
<b>Product:</b>	Industrial Vacuum for use in the following locations:  Class I, Division 1, Group D Class II, Division 1, Group F & G Maximum Ambient of +40°C Temperature Code: T3C*  *When Model DS1400-EX employs the Leeson Motor, Model 850588, the temperature code is to be marked as T3B
<b>Models:</b>	DS1000-EX DS1150-EX DS1220-EX DS1400-EX



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<b>Party Authorized To Apply Mark:</b>	Same as Manufacturer		
<b>Report Issuing Office:</b>	Cortland, NY		
<b>Control Number:</b>	<u>3169683</u>	<b>Authorized by:</b>	 _____
			for William T. Starr, Certification Manager



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## AUTHORIZATION TO MARK

<b>Standard(s):</b>	Vacuum Cleaners, Blower Cleaners, and Household Floor Finishing Machines (UL 1017, 8th Edition, Dated September 10, 2010)  Vacuum Cleaners, Blower Cleaners, and Household Floor Finishing Machines (CSA C22.2 No. 243-10, 4th Edition, Dated September 10, 2010)  Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations (UL 1203, 4th Edition, Dated September 15, 2006, Rev October 28, 2009)  Explosion-Proof Enclosure for Use in Class I Hazardous Locations (CSA C22.2 No. 30-1986, Dated November 1988, Reaffirmed 2007)  Enclosures for Use in Class II Groups E, F, and G Hazardous Locations (CSA C22.2 No. 25-1966, Reaffirmed 2004)
<b>Product:</b>	Industrial Vacuum for use in the following locations:  Class I, Division 1, Group D Class II, Division 1, Group F & G Maximum Ambient of +40°C Temperature Code: T3B/T3C depending on motor model installed.
<b>Models:</b>	DS2151-EX, DS2210-EX, DS2310-EX, S2410-EX, DS2420-EX, DS2520-EX, DS2710-EX, DS2720-EX