

# W2 MDI EX 1/2D

## INDUSTRIAL VACUUMS



- ✓ ACD classification for vacuuming combustible dust in non-classified zones
- ✓ Compliance to EN IEC 62784:2018 for zone 22

### Suction Unit

|                         |                                                   |                    |
|-------------------------|---------------------------------------------------|--------------------|
| Power supply            | V - Hz                                            | 115/230 - 50/60 1~ |
| Marking                 | II 1/2D Ex h tb IIIC T80° (int)/T95°C (ext) Da/Db |                    |
| Zone use                | Hazardous location                                |                    |
| EX Category             | CE EX 21 1/2D                                     |                    |
| Power                   | kW                                                | 1 x 1,1            |
| Maximum depression      | mmH2O                                             | 2.250              |
| Maximum air flow rate   | m3/h                                              | 215                |
| Noisiness (EN ISO 3744) | dB(A)                                             | 74                 |

### Filter Unit

|                         |                     |              |
|-------------------------|---------------------|--------------|
| Primary filter          | Pockets             |              |
| Surface area - diameter | cm <sup>2</sup> -mm | 20.000 - 420 |
| Filter media - class    | IEC 60335-2-69      | M ANT        |
| Filter class            |                     |              |

### Collection unit

|                      |                         |    |
|----------------------|-------------------------|----|
| Capacity             | lt                      | 40 |
| Collection container | Stainless Steel AISI304 |    |

### Encumbrances

|            |    |            |
|------------|----|------------|
| Dimensions | cm | 63x57x120h |
| Weight     | kg | 53         |

## APPLICATIONS:



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### **SUCTION UNIT**

The suction unit is equipped with a brushless motor which, thanks to the absence of carbon brushes, allows the machine to be used in the safest conditions, even in potentially explosive atmospheres. The motor is protected by a series of efficient filters and is activated by an independent switch located on a solid metal head, soundproofed with sound-absorbing material. The head is supplied as standard with a vacuum gauge and voltage presence indicators.

### **FILTER UNIT**

The antistatic polyester pocket filter is located inside the steel filtering chamber and protects the suction unit, ensuring high dust retention and purity of the exhaust air thanks to its large surface area and high filtration efficiency. A manual cleaning system, consisting of a vertically moving filter shaker, allows the operator to clean the filter effortlessly at any time, extending the filter's life and preventing it from becoming saturated and reducing suction power. The suction system positioned below the filter allows the simultaneous suction of dust, solids and liquids without the need to replace or remove the filter.

### **COLLECTION UNIT**

The container is equipped with an inert liquid bath system (oil not included with the vacuum cleaner) to prevent explosions due to the presence of flammable dust such as aluminium or titanium. The inert liquid must be chosen according to the dust to be vacuumed. The container includes a stainless steel deflector, a PPL filter to separate dust and allow the oil to be reused, and 3 filtration layers for oil mists. An overpressure valve prevents the risk of an explosive atmosphere forming inside the container. The vacuum cleaner is mounted on a sturdy metal structure and fitted with heavy-duty industrial wheels for easy manoeuvrability also when used on uneven surfaces.