

Industrial vacuum cleaners

for gas explosion hazardous areas





Industrial vacuum with gas explosion protected equipment





Deduster with gas explosion protected equipment Motor with direct drive (centrifugal fan) Residual dust filter, dust class H Manometer Motor protection switch Manual cleaning Pocket filter, dust class M Suction connection Stainless steel housing Grounding cable with clamp Disposal container

Our competency $\langle \mathcal{E}_{x} \rangle$

We manufacture industrial vacuum systems powered electrically and by compressed air with matching accessories according to the ATEX Directive 2014/34/EU and the requirements of TRGS 727 for the following areas of application:

- Depending on the version, use in potentially explosive atmospheres in zones 1, 2, 21 or 22 in accordance with ATEX 1999/92/EC
- Suitable for holding combustible and non-combustible dusts
 - All machines can be combined with pre-separators made of V2A, which can separate both solid and liquid combustible median
- · Optionally for the collection of solvent-based substances with activated carbon module
- · Optionally in dust class H design for the collection of carcinogenic, mutagenic or other highly hazardous dusts.

If the area of application changes, all industrial vacuum cleaners for gas-explosion hazardous areas can be adapted to the new requirements thanks to their modular design.

For example, the equipment can be extended up to temperature class T5.

R01



R01



DS 6



R01





Ex-marking

according 2014/34/EU, IEC/EN 60079-0 and ISO 80079-36



II 2 G Ex h IIC T3 Gb II 2 D Ex h IIIC T125°C Db

Equipment group II for all areas except mining

CategoryGas-ExDust-ExCategory 1Zone 0Zone 2Category 2Zone 1Zone 21Category 3Zone 2Zone 22

Explosion protection class

Protected against gas explosions G Protected against gas explosions D

Ex-marking according to IEC/EN 60079-0

Ignition protection typeNon-electrical device

h

Installation site Substance group Gas

IIA Propane or similar combustible gasesIIB Ethylene or similar combustible gases

IIC Hydrogen or similar combustible gases

Installation site Substance group Dust

IIIA flammable lint

IIIB non conductive dusts

IIIC conductive dusts

Maximum surface temperature of the equipment

Temperature class T1 - T6
gas explosion protected equipment

Specification of the maximum surface temperature in °C for dust explosion-proof devices

Equipment Protection Level

Equipment with very high protection level

Equipment with high protection level **b**

Equipment with extended protection level (

Technical data

	R01 025	R01 046	DS 2410	DS 2420	DS 2520	DS 2720	DS 64400	DS 64000
Housing	GRP	GRP	GRP	GRP	GRP	GRP	V2A	V2A
Motor power (kW)	2,5	4,6	4,6	4,6	5,5	7,5	3,0	4,0
Voltage (V)	400	400	400	400	400	400	400	400
Vacuum (mbar)	-206	-213	-230	-170	-230	-210	-37	-44,5
Air flow rate (m³/h) (measured with 3m hose)	300	440	440	540	650	880	2.370	2.900
Sound pressure level (dB(A)) (DIN EN ISO 3744)	70	72	74	75	77	77	78	78
Pocket filter for dust class M (m²)	1,2/2,6	1,2/2,6	4,5	4,5	4,5	4,5	10/20	10/20
Catridge filter for dust class M (m²)	-	-	-	-	-	-	24	24
Residual dust filter for dust class H (m²)	3,2	3,2	4,8	4,8	4,8	4,8	36	36
Width (mm)	520	522	736	740	820	820	660	660
Length (mm)	850	850	938	950	1.003	1.003	965	954
Protection class (IP)	65	65	65	65	65	65	65	65
Capacity (liters)	35	35	90	90	90	90	55	55
Suction connection (mm)	50	70	70	70	70	100	200	200







