



Exento HighVac & LowVac

Exento Product Family



Low-vacuum extraction unit

Exento LowVac



Exento LowVac Clean



High-vacuum extraction unit

Exento HighVac



Exento HighVac Duo

Overview Product Family

Application

Product

Features

Low-vacuum extraction unit

Exento LowVac

- Entry-level device
- Disposable filter system with 25m² or 42m²
- Contamination-free filter change

Exento LowVac Clean

- Continuous operation
- Economically even with large amounts of welding fumes
- Automatic **cleanable** filter cartridge

High-vacuum extraction unit

Exento HighVac

- Maximum flexibility (single-user solution)
- Precise adjustment of extraction power
- Semi-automatic **cleanable** filter cartridge

Exento HighVac Duo

- Economical solution for **2 workstations**
- Extraction power is split between 2 extraction torches (which should be as similar as possible)
- Semi-automatic **cleanable** filter cartridge

Exento HighVac - Variants



Exento HighVac
1x extraction torch connection



Exento HighVac Duo
2x extraction torch connection



Exento
HighVac

Exento HighVac



Single-user solution

Maximum flexibility, compact design

- Extra large vertically mounted filter cartridge
- EN ISO 21904-1, W3-certified
- Intuitive single-button operation, even while wearing gloves
- The device warns when the filter is getting clogged – with the rotary/push knob the cleaning process will be started
- Automatic regulation of the air volume flow to the set value
- Best performance with the Exento extraction set or Exento extraction torch
- Optional Start-Stop automatic



W3

EN ISO 21904-1
 $\eta \geq 99\%$

W3

Perfect Match



01

Plug & Play

No adapter between hose pack & high vacuum hose (Ø44mm) necessary

02

High performance

Extraction torch & Exento HV working perfectly together, EN ISO 21904-1 conform

03

Customer friendly

Fronius the solution provider

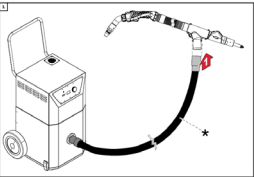
Variants

Base unit



Item number	Description	Voltage	Frequency	1-/3-ph	Plug	Certification
42,0510,0416	Exento HV 230V	230	50/60	1	CEE 7/7	CE
42,0510,0417	Exento HV 400V	400	50/60	3	CEE 16A	CE
42,0510,0418,930	Exento HV 460V	460	50/60	3	CEE 20A (UL/CSA)	UL/CSA
42,0510,0419,970	Exento HV 600V	600	50/60	3	CEE 20A (UL/CSA)	UL/CSA

Extraction hose



Item number	Description
42,0510,0481	HV extraction hose ø44mm 2,5m
42,0510,0482	HV extraction hose ø44mm 5m
42,0510,0489	HV extraction hose ø63mm 5m
42,0510,0490	HV extraction hose ø63mm 7,5m
42,0510,0483	HV extraction hose ø63mm 10m
42,0510,0491	Reducer 63/44mm IT/IT

Consumables

Item number	Description
42,0510,0462,10	Pre-filter mats motor cooling
42,0510,0472	Filter cartridge (ePTFE)
42,0510,0495	Replacement filter set H13 (2 pcs.)
42,0510,0447	Single-use disposal container

Accessories

Item number	Description
42,0510,0473	Start-Stop Automatic
42,0510,0474	Tool tray
42,0510,0488	Exhaust air filter H13 cpl.

Technical Data

	Exento HV 230V/EF	Exento HV 400V	Exento HV 460V	Exento HV 600V
Mains voltage -10/+10 %	1 x 230 V 50/60 Hz	3 x 400 V 50/60 Hz	3 x 460 V 50/60 Hz	3 x 600 V 50/60 Hz
Motor power	1,5 kW / 2.04 hp	2,2 kW / 2.99 hp	2,2 kW / 2.99 hp	2,2 kW / 2.99 hp
Rated current	13 A	5,8 A	5,8 A	4,5 A
Max. extraction capacity	160 m³/h / 94.17 cfm	170 m³/h / 100.06 cfm	170 m³/h / 100.06 cfm	170 m³/h / 100.06 cfm
Max. vacuum	24000 Pa / 96.44 in wc	31000 Pa / 124.46 in wc	31000 Pa / 124.46 in wc	31000 Pa / 124.46 in wc
Noise level	75 dB(A)	77,9 dB(A)	77,9 dB(A)	77,9 dB(A)
Protection class	IP 21			
Dimensions l x b x h	627 x 594 x 1182 mm / 24.7 x 23.4 x 46.5 in			
Weight	65 kg / 143.3 lb			
Filter stages	1			
Filter method	Cleanable filter			
Filter cleaning method	Rotating nozzle			
Filter cleaning trigger	Semi-automatic by pushing a button			
Filter surface	6,7 m² / 10385 in²			
Typ of filter	Filter cartridge			
Filter material	ePTFE-Membran			
Filter efficiency	≥ 99,9 %			
Dust classification	M			
Fan type	Side channel blower			
Compressed air supply	6-8 bar / 87-116 psi			
Automatic air volume control	Yes			
IFA-Certification	W3-certified			



Exento HighVac Duo

Exento HighVac Duo



2 Workplaces

Allows the simultaneous use of 2 extraction torches

- High flexibility thanks to two connections, each with NW45/63mm
- EN ISO 21904-1, W3 certification **submitted**
- Intuitive single-button operation, even while wearing gloves
- The device warns when the filter is getting clogged – with the rotary/push knob the cleaning process will be started
- Automatic regulation of the air volume flow to the set value
- Best performance with the Exento extraction set or Exento extraction torch
- Optional Start-Stop automatic



1 System 2 Connection



01

Versatile

High flexibility thanks to two connections, each with NW45/63mm

02

High Performance

Extraction torch & Exento HV Duo working perfectly together, EN ISO 21904-1 conform

03

Customer friendly

Fronius the solution provider

Operating modes

Functional description

The **Exento HighVac Duo** can be operated with one or **two extraction torches**. Details on how to set up the extraction torches correctly are provided in the respective operating instructions.

1x extraction torch



Important information:

- Ensure 2nd connection socket remains covered

2x extraction torches



Important information:

- The total extraction capacity for both extraction torches is set on the device – this is distributed equally between the two extraction torches
- Extraction torch type, hose package length design, and connecting hose lengths should be identical

Variants

Base unit



Item number	Description	Voltage	Frequency	1-/3-ph	Plug	Certification
42,0510,0693	Exento HV Duo 400V	400	50/60	3	CEE 16A	CE
42,0510,0693,930	Exento HV Duo 460V	460	50/60	3	CEE 20A (UL/CSA)	UL/CSA
42,0510,0693,970	Exento HV Duo 600V	600	50/60	3	CEE 20A (UL/CSA)	UL/CSA

Extraction hose



Item number	Description
42,0510,0481	HV extraction hose ø44mm 2,5m
42,0510,0482	HV extraction hose ø44mm 5m
42,0510,0489	HV extraction hose ø63mm 5m
42,0510,0490	HV extraction hose ø63mm 7,5m
42,0510,0483	HV extraction hose ø63mm 10m
42,0510,0491	Reducer 63/44mm IT/IT

Consumables

Item number	Description
42,0510,0462,10	Pre-filter mats motor cooling
42,0510,0472	Filter cartridge (ePTFE)
42,0510,0495	Replacement filter set H13 (2 pcs.)
42,0510,0447	Single-use disposal container

Accessories

Item number	Description
42,0510,0473	Start-Stop Automatic
42,0510,0474	Tool tray
42,0510,0805	Exhaust air filter H13 cpl.

Technical Data

	Exento HV Duo 400V	Exento HV Duo 460V	Exento HV Duo 600V
Mains voltage -10/+10 %	3 x 400 V 50/60 Hz	3 x 460 V 50/60 Hz	3 x 600 V 50/60 Hz
Motor power	3,8 kW / 5.1 hp	3,8 kW / 5.1 hp	3,8 kW / 5.1 hp
Rated current	8,1 A	8,1 A	6,2 A
Max. extraction capacity	280 m³/h / 165 cfm		
Max. vacuum	32 000 Pa / 129 in wc		
Noise level	75 dB(A)		
Protection class	IP 21		
Dimensions l x b x h	1018 x 691 x 878 mm / 40.1 x 27.2 x 34.6 in		
Weight	96 kg / 212 lb		
Filter stages	1		
Filter method	Cleanable filter		
Filter cleaning method	Rotating nozzle		
Filter cleaning trigger	Semi-automatic by pushing a button		
Filter surface	6,7 m² / 10385 in²		
Typ of filter	Filter cartridge		
Filter material	ePTFE-Membran		
Filter efficiency	≥ 99,9 %		
Dust classification	M		
Fan type	Side channel blower		
Compressed air supply	6-8 bar / 87-116 psi		
Automatic air volume control	Yes		
IFA-Certification	W3-Certification submitted		

Operation panel

Version for

Exento HV

Exento HV Duo



Connection socket for
start-stop sensor

Signal horn

USB-A charging socket

Rotary-push button

Turns the product on/off



LED signal lamp

Current operating status

Digital LED display

Exhaust air filter H13 (optional)

Exento HighVac Duo
exhaust air filter H13

Functional description

- The product serves as an additional filter stage and is equipped with an H13 filter. The product is mounted on the exhaust air connection of the **Exento HighVac or Exento HighVac .**
- The product was specially developed for countries where additional filtration of the exhaust air is required.



Read the Installation instructions - Activation of the operating hours counter for the required filter change



It's recommended to use the 3-phase Exento HighVac



Exento HighVac
exhaust air filter H13



As an option for

Exento HV

Exento HV Duo



Exhaust air – connection

As an option for

Exento HV

Exento HV Duo



Functional description

In some countries, under certain conditions, air recirculation is not permitted.

In this case, the exhaust air must be routed to the outside

Exento HighVac

HV Absaugschlauch NW63

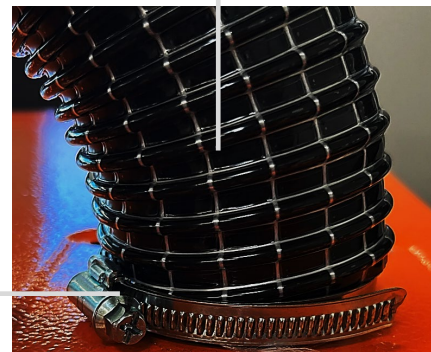


Remove cover grid



Coupling NW63

No Fronius part number
use project part number



Hose clamp NW60-80

No Fronius part number
use project part number

Exento HighVac Duo



Exhaust air connection

Item number 42,0510,0806



It's recommended to use the 3-phase Exento HighVac

Exento LowVac - Variants

Exento LowVac
with disposable filter



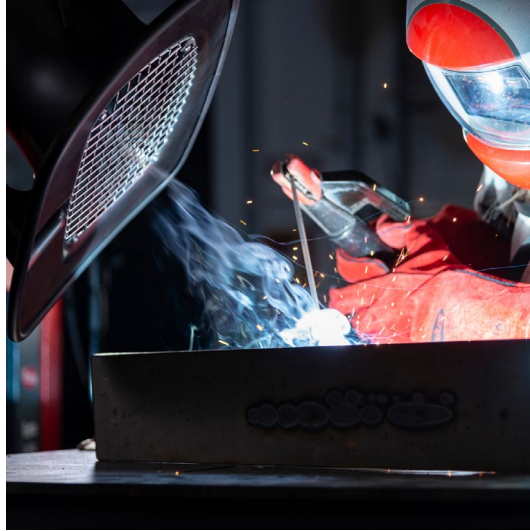
Exento LowVac Clean
with cleanable filter





Exento
LowVac

Exento LowVac



Perfect entry
for regular use

- Long filter life due to 25 m² filter surface (optionally extendable to 42 m²)
- Contamination-free filter change
- Modular design - Extraction arm lengths available in 2m / 3m / 4m
- EN ISO 21904-1, W3-certified
- Acoustic and visual filter monitoring, phase control
- Robust construction, durable and powder coated housing
- Start-Stop Automatic and hood with LED lighting optional available



W3

EN ISO 21904-1
η ≥ 99%

W3

Perfect entry



01

Filter Size

Long filter life due to 25 m² standard filter surface (optionally extendable to 42 m²)

02

More Safety

Acoustic and visual filter monitoring, phase control & Contamination-free filter change





03

+40% higher capture rate*

Optimized flanged hood

*... compared with conventional oval extraction hood

Comparison of filter life

Device	Application	Filter surface	Welding time (arc ignited)	Consumption welding wire*	Filter life (factor)
-	sporadic	13 m ²	6 ¾ h	40,7 kg 	100%
-	occasional	17 m ²	13 h	86 kg 	210%
Exento LowVac Basic equipment, filter 25 m ²	frequent	25 m ²	20 h	114 kg 	280%
Exento LowVac Upgrade filter 42 m ²	regular	42 m ²	33 ¼ h	218 kg 	540%

Notes:

- The results were determined by extensive service life tests on a welding machine.
- The smaller the filter area, the greater the air velocity through the filter medium. Particles form a solid filter cake around the medium and the air can no longer flow through the medium or can only do so poorly. The dust holding capacity is very poor.
- The larger the filter area, the lower the air velocity through the filter medium. Particles form an open-pored filter cake on the filter medium, which in turn serves as a filter. The air can flow through the filter cake and the filter medium long and well. The dust holding capacity is very good.

Test conditions:

- Welding current: 312 A
- Welding voltage: 30,3 V
- Wire diameter: 1,2 mm
- Wire feed: 11 m/min

*... 15 kg wire spools

Exento LowVac Config

Order example

42,0510,0411	Exento LV 230V/EF
42,0510,0436	Swivel joint
42,0510,0476	Mounting frame with 3m hose
42,0510,0437	Extraction hood

6 Varianten Grundgeräte Exento LowVac

1x115V 60Hz	1x230V 50Hz	1x230V 60Hz	3x400V 50Hz	3x460V 60Hz	3x600V 60Hz	Zukünftige

1 Variante - Drehkranz

Drehkranz	Zukünftige

3 Varianten - Tragegestell mit Schlauch

2m	3m	4m	Zukünftige

2 Varianten - Absaughaube

Ohne Beleuchtung	Mit Beleuchtung	Zukünftige



Variants

Base unit



Item number	Description	Voltage	Frequency	1-/3-ph	Plug	Certification
42,0510,0411	Exento LV 230V/EF	230	50	1	CEE 7/7	CE, UKCA
42,0510,0410,901	Exento LV 115V/B	115	60	1	NEMA 5-20	UL/CSA
42,0510,0412,981	Exento LV 230V/B	230	60	1	NEMA 6-15	UL/CSA
42,0510,0413	Exento LV 400V	400	50	3	CEE 16A	CE, UKCA
42,0510,0414,930	Exento LV 460V	460	60	3	CEE 20A (UL/CSA)	UL/CSA
42,0510,0415,970	Exento LV 600V	600	60	3	CEE 20A (UL/CSA)	UL/CSA

Variable components

Item number	Description
42,0510,0436	Swivel joint
42,0510,0475	Mounting frame with 2 meter hose
42,0510,0476	Mounting frame with 3 meter hose
42,0510,0477	Mounting frame with 4 meter hose
42,0510,0437	Extraction hood
42,0510,0408	Extraction hood with LED

Consumables

Item number	Description
42,0510,0389	Filter 25 m²
42,0510,0406	Filter 42 m²

Accessories

Item number	Description
42,0510,0405	Start Stop Automatic
42,0510,0407	Exhaust air connection NW 200

Technische Daten

	Exento LV 230V/EF	Exento LV 115V/B	Exento LV 230V/B	Exento LV 400V	Exento LV 460V	Exento LV 600V
Mains voltage -10/+10 %	1 x 230 V / 50 Hz	1 x 115 V / 60 Hz	1 x 230 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 600 V / 60 Hz
Motor power	1,5 kW / 2.04 hp	1,5 kW / 2.04 hp	1,5 kW / 2.04 hp	1,5 kW / 2.04 hp	1,5 kW / 2.04 hp	1,5 kW / 2.04 hp
Rated current	9,1 A	17 A	9,2 A	3,1 A	2,6 A	1,9 A
Max. extraction capacity	1100 m³/h / 647 cfm					
Max. vacuum	2250 Pa / 9.04 in wc					
Noise level	70 dB(A)					
Protection class	IP 21					
Dimensions l x b x h	836 x 795 x 1169 mm / 32.9 x 31.3 x 46.0 in					
Weight	127 kg / 280 lb					
Filter stages	2					
Filter method	Disposable filter					
Filter surface	25 m² / 38750 in²					
Typ of filter	Safe Change Filter					
Filter material	Non-woven polyester					
Filter efficiency	≥ 99,5 %					
Filter class	E12					
Additional filter	Pre-filter (aluminium)					
Fan type	Radial fan					
Extraction arm type	Flexible extraction arm					
Extraction arm lenght	2m / 3m / 4m					
IFA-Certification	W3-certified					

Operation panel

Signal light

Pressure switch
sealed with dummy plug



On/Off switch
with green signal light

Installation opening, connection socket
for Start-Stop sensor

Pressure measurement port

Signal horn



Exento

LowVac
Clean

powered by KIMBLE

Exento
LowVac Clean

Exento



Reliable solution

for continuous use and
high welding fume emissions

LowVac Clean

- Self-cleaning filter system
- User-friendly disposal of collected dust particles via integrated disposable bags
- Modular design - Extraction arm lengths available in 2m / 3m / 4m
- EN ISO 21904-1, W3 certification **submitted**
- Acoustic and visual filter monitoring, phase control
- Robust construction, durable and powder coated housing
- Start-Stop Automatic and hood with LED lighting optional available



Self-Cleaning & Reliable



01

High Availability

Economically even with large amounts of welding fumes because of self-cleaning filter system

02

More Safety

Acoustic and visual filter monitoring, phase control

03

+40% higher capture rate*

Optimized flanged hood

*... compared with conventional oval extraction hood

Variants

Base unit



Item number	Description	Voltage	Frequency	1-/3-ph	Plug	Certification
42,0510,0732	Exento LV Clean 400V	400	50	3	CEE 16A	CE, UKCA
42,0510,0732,930	Exento LV Clean 460V	460	60	3	CEE 20A (UL/CSA)	UL/CSA
42,0510,0732,970	Exento LV Clean 600V	600	60	3	CEE 20A (UL/CSA)	UL/CSA

Variable components

Item number	Description
42,0510,0436	Swivel joint
42,0510,0475	Mounting frame with 2 meter hose
42,0510,0476	Mounting frame with 3 meter hose
42,0510,0477	Mounting frame with 4 meter hose
42,0510,0437	Extraction hood
42,0510,0408	Extraction hood with LED

Consumables

Item number	Description
42,0510,0786	Pre-filter insert (aluminium)
42,0510,0785	Filter cartridge 15m² (ePTFE)
42,0510,0784	Disposable bags set
42,0510,0783	Dust collection container

Accessories

Item number	Description
42,0510,0473	Start Stop Automatic
42,0510,0787	Exhaust air connection NW 250

Technical Data

	Exento LV Clean 400V	Exento LV Clean 460V	Exento LV Clean 600V
Mains voltage -10/+10 %	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 600 V / 60 Hz
Motor power	2,2 kW / 2.99 hp	2,2 kW / 2.99 hp	2,2 kW / 2.99 hp
Rated current	4,4 A	4,4 A	2,9 A
Max. extraction capacity	1450 m³/h / 853 cfm		
Max. vacuum	3300 Pa / 13 in wc		
Noise level	73 dB(A)		
Protection class	IP 21		
Dimensions l x b x h	973 x 834 x 1350 mm / 38.3 x 32.8 x 53.2 in		
Weight	197 kg / 435 lb		
Filter stages	2		
Filter method	Cleanable filter		
Filter cleaning method	Rotating nozzle		
Filter cleaning trigger	Automatic		
Filter surface	15 m² / 23250 in²		
Typ of filter	Filter cartridge		
Filter material	ePTFE-membran		
Filter efficiency	≥ 99,9 %		
Dust classification	M		
Additional filter	Pre-filter (aluminium)		
Fan type	Radial fan		
Compressed air supply	5-6 bar / 73-87 psi		
Extraction arm type	Flexible extraction arm		
Extraction arm lenght	2m / 3 m / 4 m		
IFA-Certification	W3-Certification submitted		

Operation panel

**Connection socket for
start-stop sensor**

**Communication
interface**

For Service & Options

USB-A charging socket

LED signal lamp

Current operating status



Signal horn

Rotary-push button

Turns the product on/off

Digital LED display

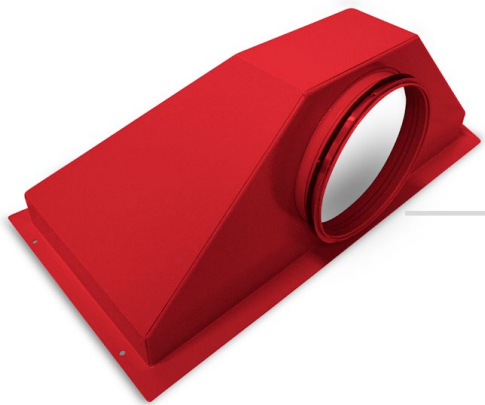
Exhaust air – connection



Functional description

In some countries, under certain conditions, air recirculation is not permitted. In this case, the exhaust air must be routed to the outside

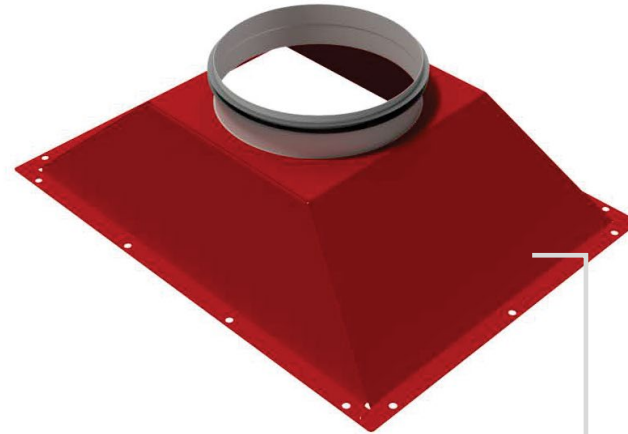
Exento LowVac



Exhaust air connection NW200

Item number 42,0510,0407

Exento LowVac Clean



Exhaust air connection NW250

Item number 42,0510,0787



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