

## Characteristics



- ULPA Filter - With an efficiency of 99.999% on 0.12 micron. 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 - Included
- \*Cleanroom compatible with ISO Class 4 (former Class 10). Can be used in the pharmaceutical industry
- Static Free and ESD Safe.
- EMI/RFI Shielded
- TELECOM package available.
- 4-stage Filtration System includes an ULPA Filter (U15), Double Cloth Filter and Disposable Filter Bags. An internal OSHA compliant HEPA Filter (H14) is available as an optional 5th stage of filtration
- Designed for use in Contamination Controlled Environments
- Powerful dual speed Thruflow motor.
- For dry recovery only
- Made entirely of chrome-polished steel.
- Mounted on a 4-wheel dolly for easy maneuverability.
- Includes a complete tool kit.

# Specifications

EMI-CWR	110110B	110110C	110110D	110110E
<b>Model Name</b>	EMI-CWR	EMI-CWR	EMI-CWR	EMI-CWR
<b>Type (Powerhead)</b>	Electric	Electric	Electric	Electric
<b>Voltage</b>	240 V	240 V	240 V	240 V
<b>Hertz</b>	50 Hz	50 Hz	50 Hz	50 Hz
<b>Phase</b>	Single	Single	Single	Single
<b>Wattage</b>	1000 W	1000 W	1000 W	1000 W
<b>Power</b>	1 kW	1 kW	1 kW	1 kW
<b>Amperage</b>	4.6 amps.	4.6 amps.	4.6 amps.	4.6 amps.
<b>Air Flow</b>	204 m <sup>3</sup> /h			
<b>Vacuum Pressure</b>	2410 mm H <sub>2</sub> O			
<b>Sound Level</b>	70 dB(A)	70 dB(A)	70 dB(A)	70 dB(A)
<b>Plug Type</b>	European	UK	Swiss	Chinese
<b>Suction Inlet</b>	38 mm	38 mm	38 mm	38 mm
<b>Cart Type</b>	4 Wheel Dolly (4W)			
<b>Filter Cleaning</b>	None	None	None	None
<b>Dry Recovery - Tank</b>	15.1 L	15.1 L	15.1 L	15.1 L
<b>Dry Recovery - Disposable Filter Bag</b>	9.5 L	9.5 L	9.5 L	9.5 L
<b>Length</b>	38 cm	38 cm	38 cm	38 cm
<b>Width</b>	43 cm	43 cm	43 cm	43 cm
<b>Weight (Vacuum Only)</b>	16 kg.	16 kg.	16 kg.	16 kg.
<b>Height</b>	71 cm	71 cm	71 cm	71 cm
<b>Cord Length</b>	10.6 m	10.6 m	10.6 m	10.6 m

Please note that specifications are subject to change without notice

## Use only recommended tools & accessories



EMI-CWR Tools and Accessories with Disposable Filter Bags - Included



EMI SUPPRESSION / RFI SHIELDING



ULPA Filter - Included



Stainless steel holding bracket - Optional

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## Specifications for EMI-CWR

Name	Part Number	Voltage	Hertz	Phase	Wattage	Power	Amperage	Air Flow	Vacuum Pressure	Plug Type	Dry Recovery - Tank	Dry Recovery - Disposable Filter Bag
EMI-CWR	110110B	240 V	50 Hz	Single	1000 W	1 kW	4.6 amps.	204 m <sup>3</sup> /h	2410 mm H <sub>2</sub> O	European	15.1 L	9.5 L
	Dimensions: H71 cm x W43 cm x L38 cm    Weight: 16 kg.    Sound Level: 70 dB(A)											
EMI-CWR	110110C	240 V	50 Hz	Single	1000 W	1 kW	4.6 amps.	204 m <sup>3</sup> /h	2410 mm H <sub>2</sub> O	UK	15.1 L	9.5 L
	Dimensions: H71 cm x W43 cm x L38 cm    Weight: 16 kg.    Sound Level: 70 dB(A)											
EMI-CWR	110110D	240 V	50 Hz	Single	1000 W	1 kW	4.6 amps.	204 m <sup>3</sup> /h	2410 mm H <sub>2</sub> O	Swiss	15.1 L	9.5 L
	Dimensions: H71 cm x W43 cm x L38 cm    Weight: 16 kg.    Sound Level: 70 dB(A)											
EMI-CWR	110110E	240 V	50 Hz	Single	1000 W	1 kW	4.6 amps.	204 m <sup>3</sup> /h	2410 mm H <sub>2</sub> O	Chinese	15.1 L	9.5 L
	Dimensions: H71 cm x W43 cm x L38 cm    Weight: 16 kg.    Sound Level: 70 dB(A)											

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## Technical Sheet for EMI-CWR

### ULPA FILTER AND ACCESSORIES - Included

Part #	Description
211027	ULPA FILTER (U15)

### HEPA FILTER - UPSTREAM (OPTIONAL 5th STAGE OF FILTRATION). NB: 3 spacers are required to install Upstream HEPA Filter. Can also be factory installed upon request - Optional

Part #	Description
211027B	HEPA FILTER 99.995% EFFICIENCY ON 0.3 MICRON (CE VERSION)
211098	SPACER -NEOPRENE(WITH SELF ADHESIVE)

### FILTERS AND ACCESSORIES - Included

Part #	Description
211226	DOUBLE CLOTH FILTER ASSEMBLY

### DISPOSABLE FILTER BAGS - Included

Part #	Description
211028	PAPER FILTER BAG (PACKAGE OF 5)

DISPOSABLE FILTER BAGS - Optional	
Part #	Description
211069	PAPER FILTER BAG (PACKAGE OF 12)

TOOLS AND ACCESSORIES - Included	
Part #	Description
323303	SUCTION HOSE ASSEMBLY 10'(3m) SD* WITH SS ENDS FOR EMI-CWR (WITH STRAIGHT HANDLE)
323331	STAINLESS STEEL WANDS 1.25" 32cm (SET OF 2) - ONE CURVED AND ONE STRAIGHT
323311A	COMBI TOOL 1.25"(32mm) x 11"(28cm), STATIC CONDUCTIVE PLASTIC WITH CONDUCTIVE NYLON BRISTLES
323317A	UTILITY FLOOR TOOL, 1.25"(Ø32mm) x 12"(30cm), STATIC CONDUCTIVE PLASTIC w/GREY SQUEEGEE BLADES
323312A	ROUND BRUSH, 1.25"(32mm) x 3"(7.5cm), ESD SAFE PLASTIC, WITH HOLE FOR BUTTON LOCK
323314A	UPHOLSTERY FLAT TOOL, 1.25"(32mm) x 5"(13cm), ESD SAFE PLASTIC
323313A	CREVICE TOOL, 1.25"(32mm) x 9"(23cm), BLACK, ESD SAFE PLASTIC
323316	MICRO TOOL KIT, Ø1.25"(32mm), ESD* SAFE PLASTIC
323321A	ROUND TOOL, WITH RUBBER BLADES, Ø1.25"(32mm), ESD SAFE PLASTIC
211065	GROUND CONTINUITY TESTER

TOOLS AND ACCESSORIES - Optional	
Part #	Description
323412	FLOOR TOOL ASSEMBLY, AUTOCLAVABLE, 1.25"(32mm) x 12"(30cm), STAINLESS STEEL w/WHITE NITRILE BLADES
323413	CREVICE TOOL, AUTOCLAVABLE, Ø1.25"(32mm)x10"(25.4cm) -STAINLESS STEEL

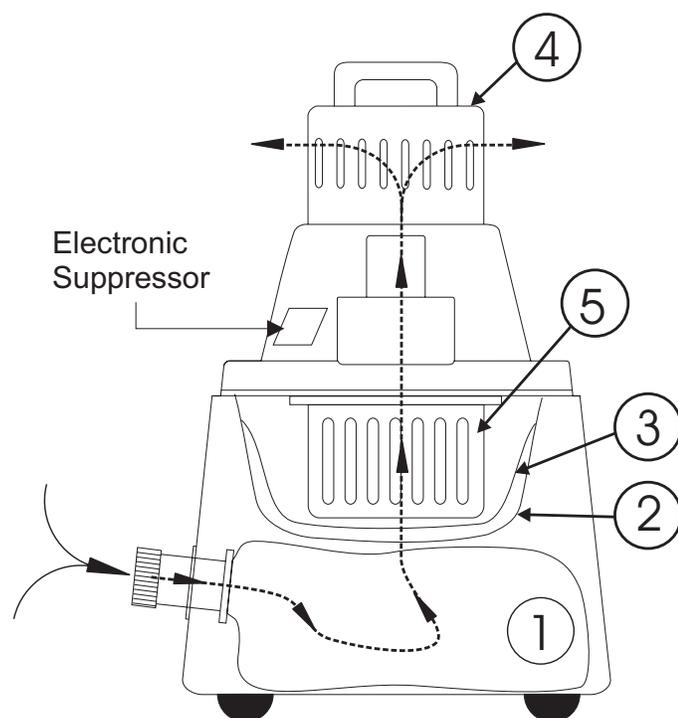
STAINLESS STEEL HOLDING BRACKET - Optional	
Part #	Description
219098A	CABLE & HOSE HOLDING BRACKET ASSEMBLY, STAINLESS STEEL FOR 32mm TUBES
219098B	CABLE & HOSE HOLDING BRACKET ASSEMBLY, STAINLESS STEEL, FOR 38mm TUBES

## 4 STAGE FILTRATION SYSTEM (UPGRADABLE TO 5 STAGES)

1. **Paper Filter Bag with liner** (one micron efficiency) collects the bulk of recovered materials and keeps the other filters clean.

**Double Cloth Filter** (2 stages, washable) consisting of:

2. **Dralon filter** with smooth surface prevents caking of fine dust.
3. **Polyester filter** (one micron efficiency) prolongs the life of the ULPA filter.
4. **ULPA filter** (Ultra Low Penetration Air) Minimum efficiency of 99.999% on 0.12 micron. The ULPA filter is large enough to handle the amount of airflow that the vacuum produces without any significant pressure drop. It also ensures compatibility with Class 10 cleanroom conditions.
5. **(Optional 5th Stage) Internal HEPA filter** (High Efficiency Particulate Air) can be incorporated in the filtration system for a total of 5 stages. The filter is installed before the motor and is used when recovering toxic or nuisance dusts. It protects the motor from contamination and it allows the motor to be serviced without danger to the operator. HEPA filter: 99.99% efficiency on 0.3 micron.



### Class 10 Compatible

When we first set out to build our cleanroom vacuum cleaners, we did not attempt to modify an existing model and adapt it for cleanroom use. We knew that the cleanroom industry deserved and wanted better, so we started from scratch. A quick glance at the EMI-CWR's innovative features will prove that we did not leave anything out.

EMI cleanroom vacuum cleaners are certified for use in class 10 cleanrooms. Cleanroom compatibility tests have been performed by independent labs and copies of the test reports are available upon request. As part of our quality assurance program, every ULPA filter is individually laser tested and every vacuum cleaner is individually leak tested before being shipped. This assures compatibility with Class 10 cleanroom conditions.

### Static Free Vacuum System (ESD Safe)

The EMI-CWR is designed to be grounded during use. Any static electricity that is produced while vacuuming is dissipated through the conductive hose, through the vacuum cleaner and it is discharged to the ground. A ground continuity tester is included with every vacuum cleaner to verify ground continuity before use. The EMI cleanroom vacuum cleaners eliminate static electricity and static charge buildup and they protect sensitive electronic equipment.

For critical static control applications requiring zero voltage potential (telecommunication facilities, computer and electronics manufacturing, integrated circuit manufacturing, etc.) a special TELECOM package is available. Conductive wheels are incorporated on the vacuum cleaner and a special tool kit is provided. ESD safe micro tools and a round brush with conductive bristles are standard with the EMI-CWR.

### Additional Features

The EMI-CWR is equipped with a dual speed control that allows the operator to regulate the suction. The EMI-CWR also incorporates a thermo-protector which prevents the motor from overheating if there is a blockage in a nozzle or hose. The heavy duty construction ensures that the EMI-CWR will resist abuse and the industrial gaskets and seals ensure that the vacuum cleaner will always be leak free.

### Warranty

The EMI-CWR cleanroom vacuum cleaners are covered by a two year warranty against defects in workmanship and materials.