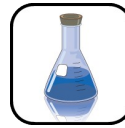## Characteristics

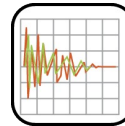|					
ULPA - Included	High Efficiency	Cleanroom Compatible	Pharma Applications	Static Dissipating	Less than 10 ohms
Dry Recovery	SS 304	SD Accessories - Included	EMI Shielded		

- 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
- 4-stage filtration system includes an ULPA Filter (U15), Cloth Filter, Dome Filter and Disposable Filter Bag
- Special filter lined with stainless steel is available for the recovery of broken wafers and sharp objects.
- Designed for use in Contamination Controlled Environments
- Thru-Flow heavy duty motor.
- For dry recovery only
- All Stainless Steel SAE 304 construction
- Equipped with a Shoulder Strap and Carrying Case.
- Includes a complete tool kit.

Specifications

MV-1CR (HH-CC)	110741B	110741C	110741D	110741E
Model Name	MV-1CR (HH-CC) WITH EUROPEAN PLUG	MV-1CR (HH-CC) WITH UK PLUG	MV-1CR (HH-CC) WITH SWISS PLUG	MV-1CR (HH-CC) WITH CHINESE PLUG
Type (Powerhead)	Electric	Electric	Electric	Electric
Voltage	240 V	240 V	240 V	240 V
Hertz	50 Hz	50 Hz	50 Hz	50 Hz
Phase	Single	Single	Single	Single
Wattage	1000 W	1000 W	1000 W	1000 W
Power	1 kW	1 kW	1 kW	1 kW
Amperage	4.2 amps.	4.2 amps.	4.2 amps.	4.2 amps.
Air Flow	187 m^3/h	187 m^3/h	187 m^3/h	187 m^3/h
Vacuum Pressure	1750 mm H_2O	1750 mm H_2O	1750 mm H_2O	1750 mm H_2O
Sound Level	70 dB(A)	70 dB(A)	70 dB(A)	70 dB(A)
Suction Inlet	38 mm	38 mm	38 mm	38 mm
Cart Type	Hand Held (HH)	Hand Held (HH)	Hand Held (HH)	Hand Held (HH)
Filter Cleaning	None	None	None	None
Dry Recovery - Disposable Filter Bag	1.9 L	1.9 L	1.9 L	1.9 L
Length	56 cm	56 cm	56 cm	56 cm
Width	20 cm	20 cm	20 cm	20 cm
Weight (Vacuum Only)	5.4 kg.	5.4 kg.	5.4 kg.	5.4 kg.
Height	20 cm	20 cm	20 cm	20 cm
Cord Length	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

ULPA filter for MV-1CR (HH-CC) - individually laser tested

MV-1CR Tools and Accessories - Optional

...The name to vacuum with
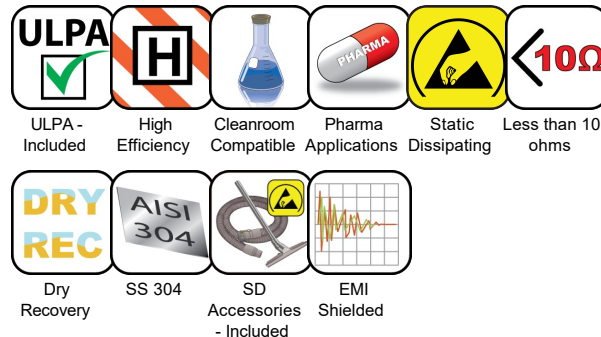
ULPA - Included | High Efficiency | Cleanroom Compatible | Pharma Applications | Static Dissipating | Less than 10 ohms

Dry Recovery | SS 304 | SD Accessories - Included | EMI Shielded

Specifications for MV-1CR (HH-CC)

Name	Part Number	Voltage	Hertz	Phase	Wattage	Power	Amperage	Air Flow	Vacuum Pressure	Dry Recovery - Disposable Filter Bag
MV-1CR (HH-CC) WITH EUROPEAN PLUG	**110741B**	240 V	50 Hz	Single	1000 W	1 kW	4.2 amps.	187 m^3/h	1750 mm H$_2$0	1.9 L
Dimensions: H20 cm x W20 cm x L56 cm Weight: 5.4 kg. Sound Level: 70 dB(A)										
MV-1CR (HH-CC) WITH UK PLUG	**110741C**	240 V	50 Hz	Single	1000 W	1 kW	4.2 amps.	187 m^3/h	1750 mm H$_2$0	1.9 L
Dimensions: H20 cm x W20 cm x L56 cm Weight: 5.4 kg. Sound Level: 70 dB(A)										
MV-1CR (HH-CC) WITH SWISS PLUG	**110741D**	240 V	50 Hz	Single	1000 W	1 kW	4.2 amps.	187 m^3/h	1750 mm H$_2$0	1.9 L
Dimensions: H20 cm x W20 cm x L56 cm Weight: 5.4 kg. Sound Level: 70 dB(A)										
MV-1CR (HH-CC) WITH CHINESE PLUG	**110741E**	240 V	50 Hz	Single	1000 W	1 kW	4.2 amps.	187 m^3/h	1750 mm H$_2$0	1.9 L
Dimensions: H20 cm x W20 cm x L56 cm Weight: 5.4 kg. Sound Level: 70 dB(A)										

Please note that specifications are subject to change without notice

Technical Sheet for MV-1CR (HH-CC)

ULPA FILTER - Included	
Part #	**Description**
212304	ULPA FILTER (U15)

UPSTREAM HEPA FILTER - Optional	
Part #	**Description**
212077	UPSTREAM HEPA FILRER ASMBLY w/GASKET 99.99% EFF. ON 0.3 MICRON (USED IN THE PLACE OF THE DOME FILTER

FILTERS AND ACCESSORIES - Included	
Part #	**Description**
212078	CLOTH FILTER ASSEMBLY WITH RING
211623	MOTOR DOME FILTER FOR MV-1

DISPOSABLE FILTER BAGS - Included	
Part #	**Description**
212075	PAPER FILTER BAGS (PACKAGE OF 5)

SPECIAL FILTERS - Optional

Part #	Description
212079	SPECIAL FILTER ASSEMBLY WITH RING, CLOTH + STAINLESS STEEL (FOR BROKEN WAFERS)

SHOULDER STRAP - Included

Part #	Description
211607	SHOULDER STRAP SET

CARRYING CASE - Included

Part #	Description
215400A	CARRYING CASE ASSEMBLY WITH HANDLE FOR MODEL MV-1CR (HH-CC)

TOOLS AND ACCESSORIES - Included

Part #	Description
212070C	SUCTION HOSE ASSEMBLY SD* 5'(1.5m)
323316	MICRO TOOL KIT, Ø1.25"(32mm), ESD* SAFE PLASTIC
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
323330	EXTENSION WANDS, BOTH STRAIGHT, 1.25"(32mm) x 20.5"(52cm), STAINLESS STEEL (SET OF 2)

TOOLS AND ACCESSORIES - Optional

Part #	Description
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

POWER CORDS - Optional

Part #	Description
212080	DETACHABLE POWER CORD 35'(10.5m) FOR CANADA & USA
212081	DETACHABLE POWER CORD 35'(10.5m) FOR EUROPE
212082	DETACHABLE POWER CORD 35'(10.5m) WITH UK PLUG
212083	DETACHABLE POWER CORD 35'(10.5m) WITH SWISS PLUG

Filtration System for MV-1 CR (BP), MV-1 CR (GC) and MV-1 CR (HH)

4 STAGE FILTRATION SYSTEM

1. PAPER FILTER BAG WITH MICRO-LINER (one micron efficiency): collects the bulk of the recovered materials and keeps the other filters free from clogging. Also allows for easy emptying. Part No. 212230 for MV-1(BP) & (GC) Part No. 212075 for MV-1(HH)

2. CLOTH FILTER (one micron efficiency): This washable main filter prolongs the life of the ULPA filter. Part No. 212232 for MV-1(BP) & (GC) Part No. 211623 for MV-1 CR (HH)

3. DOME FILTER: Protects the motor in the event that filters 1 and 2 are used incorrectly. Part No. 211623 for MV-1(BP) & (GC) Part No. 211623 for MV-1 CR (HH)

4. ULPA FILTER[‡]: Minimum efficiency of 99.999% on particles as small as 0.12 micron. Purifies exhaust air and ensures cleanroom compatibility. Part No. 212073

A. Suction intake with closing valve to prevent spillage
B. EMI/RFI electronic filter suppressor
C. Clean air exhaust

** A special filter lined with stainless steel is available for the recovery of broken wafers and sharp objects. Replaces filters 1 and 2. Part No. 213254 for MV-1(BP) & (GC) Part No. 212079 for MV-1 CR (HH)