

CLEAN ROOM • WET AND DRY RECOVERY

Tiger-Vac CWR MRAC

Cleanroom wet and dry recovery vacuum with activated carbon middle ring (MRAC) for the adsorption of toxic fumes and vapours. ULPA U15 filtration, EMI/RFI shielded and ESD safe. Compatible with ISO Class 4 and pharmaceutical production.

- ULPA U15 — 99.9995 % at MPPS • aerosol tested before dispatch
- MRAC ring with 8 kg activated carbon pellets — for toxic fumes and organic solvents
- 5-stage filtration: bag + double cloth filter + dual ULPA U15
- EMI/RFI shielded • ESD safe • below 10 ohm
- Wet + dry recovery • 28.4 L tank (CWR-10) or 47.3 L (CWR-15)
- Designed for cleanrooms and pharmaceutical production • ISO Class 4



Tiger-Vac CWR MRAC cleanroom vacuum with activated carbon filter for pharmaceutical production

ULPA U15 — EN 1822 / IEST-RP-CC001 • ISO Class 4 (ISO 14644-1) • EMI/RFI shielded • ESD safe — below 10 ohm • CE — Machinery Directive 2006/42/EC

Quick facts	
Filter class	ULPA U15
Cleanroom	ISO Class 4
Filter efficiency	99.9995 % at MPPS
Carbon filter (option)	MRAC ring, 8 kg carbon
Power	1 kW / 240 V
Air flow	189 m³/h
Sound	75 dB(A)
Tank CWR-10	28.4 L (steel)
Tank CWR-15	47.3 L (steel/poly)
Recovery	Wet + dry
EMI/RFI	Shielded
Wheels	4-wheel dolly

What is the Tiger-Vac CWR MRAC?

The CWR MRAC series is Tiger-Vac's pharmaceutical wet and dry recovery vacuum for cleanroom environments, designed for applications where dust and liquids are accompanied by toxic fumes or vapours from organic solvents. The defining feature is the Middle Ring with Activated Carbon (MRAC) — an intermediate ring containing 8 kg of activated carbon pellets, mounted between the collection tank and the filter housing to adsorb vapours that would otherwise pass through the filtration system. The ring is an optional component, but the series is purpose-built around it.

The 5-stage filtration system consists of a synthetic disposable bag, a double cloth filter, and two ULPA U15 final filters — one for the working air and one for the motor cooling air. This means all air leaving the vacuum, including the air used to cool the motor, is filtered before being exhausted into the room. Each ULPA U15 filter retains at least 99.9995 % of all particles at MPPS and is individually aerosol tested before dispatch from the factory.

The vacuum is EMI/RFI shielded and electrically rated as static dissipating with a resistance below 10 ohm, making it suitable for use near sensitive electronic equipment and in environments with ESD control requirements. The unit is available with a stainless steel tank in two capacities (CWR-10: 28.4 L and CWR-15: 47.3 L), and the CWR-15 is also available with a polyethylene tank (POLY MRAC) as an alternative to stainless steel.

Activated carbon as an option: The MRAC ring is an optional component and is not supplied as standard. It must be specified at the time of order. Four carbon types are available depending on the fumes to be adsorbed — see the “Options and upgrades” section below.

Technical specifications

Parameter	Value
Filter class	ULPA U15 (EN 1822 / IEST-RP-CC001)
Filter efficiency	99.999 % at 0.12 µm • 99.9995 % at 0.18 µm (MPPS)
Cleanroom compatibility	ISO Class 4 (ISO 14644-1)
Filtration	5-stage: disposable bag + double cloth filter + dual ULPA U15
Activated carbon filter	MRAC ring with 8 kg carbon pellets (optional)
Motor type	Bypass, heavy-duty, 2-stage
EMI/RFI	Shielded
ESD	Static dissipating • below 10 ohm
Power	1 kW / 1,050 W
Voltage	240 V, 50 Hz, single phase
Current	5 A
Air flow	189 m³/h
Vacuum pressure	2,180 mmH ₂ O
Sound level	75 dB(A)
Suction inlet	Ø38 mm
Tank CWR-10	28.4 L (stainless steel)
Tank CWR-15 MRAC	47.3 L (stainless steel)
Tank CWR-15 POLY MRAC	47.3 L (polyethylene)
Bag capacity	19 L (disposable bag)
Liquid capacity CWR-10	28.5 L
Liquid capacity CWR-15	47.3 L
Wheel system	4-wheel dolly
Dimensions CWR-10	H 113 × W 46 × D 61 cm
Dimensions CWR-15	H 122 × W 46 × D 61 cm
Weight CWR-10	44 kg
Weight CWR-15	45 kg

Parameter	Value
Cord length	10.6 m
Recovery type	Wet and dry (combined)

Included accessories and filters

The CWR MRAC is supplied complete with all necessary filters and a full accessory kit. All filters and components are designed for cleanroom use.



ULPA U15 filter for Tiger-Vac CWR MRAC, part no. 211027

ULPA U15 filter (working air)
Part no. 211027 • Included



ULPA U15 filter for cooling air, Tiger-Vac CWR MRAC

ULPA U15 filter (cooling air)
Part no. 211027 • Included



Activated carbon cartridge for MRAC ring, Tiger-Vac CWR

Activated carbon cartridge (MRAC ring)

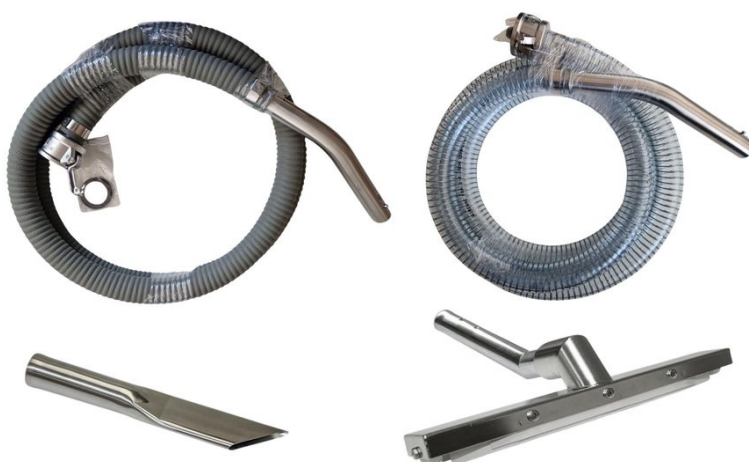
Part no. 212200B/C/K/L • Optional



Complete accessory kit for Tiger-Vac CWR MRAC

Complete accessory kit

Included



Needle trap in stainless steel for Tiger-Vac CWR MRAC

Needle trap (stainless steel)

Part no. 215500 • Optional



Liquid filter with stainless steel ring for Tiger-Vac CWR MRAC

Liquid filter with stainless steel ring

Part no. 211394A • Included

Standard contents also include: Double cloth filter (part 211305) • Synthetic disposable bags (pack of 5) • Drain hose with camlock • Clear urethane suction hose 32 mm × 3 m with stainless steel curved handle • Extension wands in stainless steel (set of 2) • Combi tool • Floor tool with wheels and squeegee blades • Round tool with rubber blades • Upholstery flat tool • Crevice tool • Defoaming liquid for wet recovery • Ground continuity tester.

Options and upgrades

The activated carbon MRAC ring is the key optional feature of the series and must be specified at the time of order. Four carbon cartridge types are available depending on the chemical exposure in the production environment:

Part no.	Carbon type and application
212200B	Standard 3 mm activated carbon — general use
212200C	Mersorb activated carbon — mercury vapours
212200K	KOGC3/KINA3 carbon — chloride vapours
212200L	A-3 carbon — arsine and phosphine vapours

As an alternative to the ULPA filter in the MRAC configuration, an internal HEPA filter (part no. 211027B, 99.995 % at 0.3 µm) can be fitted where ULPA U15 over-specifies the application. The needle trap (part no. 215500) in electropolished stainless steel is a key option for environments handling needles, glass fragments and other sharps.

CONTACT

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