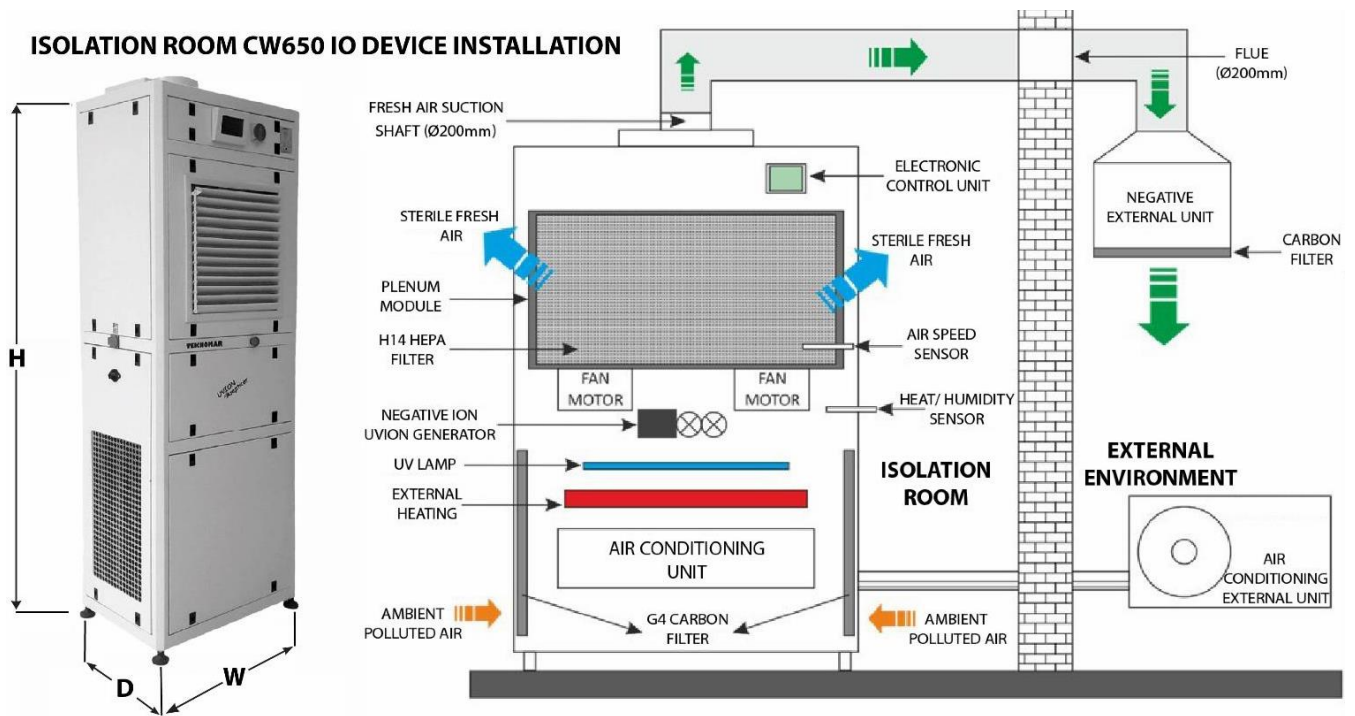


## ISOLATION ROOM CW650 IO DEVICE

Negative Pressure High Level Hygienic Particle Reduction,  
Air Conditioning and Bio Decontamination Device

### Technical Specifications/ Datasheet



### DEFINITION

The section where patients with airborne, infectious diseases are located is considered “dirty”. The patient room should be isolated by keeping it at negative pressure relative to the areas outside the room. Recirculation of the isolation room air inside the hospital should be prevented and given outside the hospital. Contamination to the central system and other places should be avoided. Thus, both the microorganism load in the room is reduced and the spread of polluted air to other parts of the hospital is prevented. With the measures taken for isolation rooms; it is aimed to prevent patients from being infected both from the external environment and from infecting other patients and healthcare workers. Since the air system of negative pressure environments should not be connected to the central systems, the Isolation Room CW650 IO Device has been produced as an alternative for these spaces. Due to its compact structure, does not require construction.

### FIELDS OF USAGE

Contact isolation (MRSA, VRE, E.coli, open abscess, Hepatitis A, skin diphtheria, Ebola, rotavirus, parainfluenza, lavsa, decubitus, Droplet isolation (meningitis, diphtheria), whooping cough, plague, pneumonia, adenovirus, parvovirus 19, Influenza, measles, mumps...etc.), Respiratory isolation (measles, varicella - zona, Tuberculosis, SAR, Crimean Congo...etc.) Patient isolation rooms, Tuberculosis laboratories, Work areas with risk of pathogen contamination

<b>MODEL</b>	<b>ISOLATION ROOM CW650 IO</b>
<b>TYPE</b>	Compact Type-High Level Hygienic Particle Reduction, Air Conditioning and Bio Decontamination Device
<b>CLASS</b>	MODULE A- CLASS I
<b>PHYSICAL AND TECHNICAL SPECIFICATIONS</b>	
<b>EXTERIOR DIMENSIONS (W-D-H) (mm)</b>	780x560x2250
<b>PACKAGE SIZES (mm)</b>	920X700X2350
<b>EXTERNAL UNIT PACKAGE SIZE (mm)</b>	700X1150X1000
<b>DEVICE WEIGHT (kg)</b>	147
<b>WORKING MODE</b>	NEGATIVE
<b>EFFICACY AREA (h=at 3m)</b>	≤ 20 m <sup>2</sup>
<b>PROGRAMS</b>	3 Negative, 1 Automatic Total 4 Programs
<b>HEATING &amp; COOLING CAPACITY (Btu)</b>	10000
<b>EXTERNAL HEATING CAPACITY (kW)</b>	1.3
<b>AMBIENT AIR-CONDITIONING</b>	16-30 °C
<b>AIR CONDITIONING EXTERNAL UNIT</b>	Air Conditioning External Unit Operating Temperature -10 +44 °C
<b>ENERGY LABEL COOLING/ HEATING</b>	A++ / A+++ 60 % ≤ Energy- saving
<b>AIR CONDITIONING INTERNAL UNIT</b>	High-Performance A1 Class Inverter Heating Cooling Unit
<b>AIR CONDITIONING POWER CONSUMPTION (Kw)</b>	2.7
<b>FILTRATION POWER CONSUMPTION (Kw)</b>	0.5
<b>H14 MAIN FILTER SIZE (mm)</b>	610x610x78
<b>HEPA RETENTION RATE</b>	Filtration Efficacy at 0.3 – 0.5 Micrometer Particle Size
<b>HEPA PERFORMANCE</b>	99,998%
<b>DIFFUSER SIZE (W –H) (cm)</b>	54x54 1 Piece

<b>FRESH AIR INTRODUCTION CAPACITY (m<sup>3</sup>/h)</b>	(-) 600
<b>INTERNAL AIR CAPACITY</b>	1000
<b>TOTAL AIR CHANGE CAPACITY (m<sup>3</sup>/h)</b>	1200
<b>EFFICACY AREA AT CLASS 10.000 (m<sup>3</sup>)</b>	80
<b>EFFICACY AREA AT CLASS 100.000 (m<sup>3</sup>)</b>	110
<b>PARTICULAR DECONTAMINATION</b>	96% ≥ Particular Decontamination at the Level of 0.3 μm Within the First 1 Hour
<b>BIO DECONTAMINATION</b>	96% ≥ Bio Decontamination Within the First 1 Hour
<b>BIO DECONTAMINATION EFFICACY</b>	Unfilterable Resistant Long Ethylene Agents, All Kinds of Microorganisms, Viruses, Influenza, RSV Pathogens, Mold, Fungus, etc.
<b>DEVICE CHASSIS</b>	Electrostatic Powder Coated Steel
<b>SOUND VOLUME (at 1m)</b>	55 dB
<b>AIR DIFFUSER</b>	Up Down Direction Adjustable
<b>AIR BLOWING METHOD</b>	Vertical Laminar Flow
<b>AIR SUCTION METHOD</b>	Lateral Below With Carbon Filter
<b>SUCTION SHAFT DIAMETER</b>	200 mm
<b>NEGATIVE / POSITIVE EXTERNAL UNIT</b>	Yes
<b>ELECTRICAL INFORMATION</b>	220-230V AC 50-60 Hz
<b>PROTECTION CLASS</b>	IP20 / EN 60601-1-2:2015
<b>SCREEN</b>	4.3" LCD Touch Screen
<b>CONTROL SYSTEM</b>	The Unit Controls Continuously the Environment Temperature, Pressure, Air Humidity, Filtration Clogging and Air Speed With 1% Precision.
<b>SOFTWARE</b>	PLC / HMI
<b>MENU LANGUAGE</b>	Turkish / English
<b>ALARM WARNING</b>	Error Conditions, With Alarm Codes Audible and Visual Warning
<b>PASSWORD PROTECTION</b>	User and Technical Service Password
<b>AIR SPEED SENSOR</b>	1% m/ sec Sensitivity, 4-20 mA
<b>MARGIN PRESSURE SENSOR</b>	40-450 Pa
<b>HEAT&amp; HUMIDITY SENSOR</b>	1% °C, 1% Rh Sensitivity, 4-20 mA Rod Type
<b>MOISTENING</b>	External Ultrasonic Nebulizer (Optional)

<b>FRESH AIR SUCTION FILTER</b>	EU4 CARBON FILTER
<b>AMBIENT AIR SUCTION FILTER</b>	G4 CARBON FILTER
<b>UVION MODULE</b>	Atmospheric Plasma Negative Ion Generator
<b>ION GENERATOR</b>	TiO <sub>2</sub> , AgI, CuS Coated Cylindrical Borosilicate Glass Tube Ion Generator
<b>ATMOSPHERIC PLASMA</b>	HV (5000 V Plasma) Supply
<b>UV LAMP</b>	2 Units 15W UVC 254 nm Germicidal Lamp
<b>SPEED COMPENSATION SYSTEM</b>	Automatic Air Speed Flow Adjusted According to Filter Clogging
<b>SEALING</b>	Provides Filter Safety with A Leak-Proof HEPA Plenum Box Suitable With DOP Test.
<b>PLENUM BOX FILTER RESISTANCE</b>	125 Pa
<b>OPTIONAL WORKING MODE</b>	The Device Can Optionally Work in Negative and Positive Modes with a Single Button.
<b>DOCUMENTS</b>	
<b>ISO 9001</b>	Yes
<b>ISO 13485</b>	Yes
<b>EC CERTIFICATE</b>	Yes
<b>DOMESTIC GOODS CERTIFICATE</b>	Yes
<b>CERTIFICATE of FREE SALE (CFS)</b>	Yes
<b>USABILITY TEST APPROVAL</b>	Yes
<b>TSE SERVICE CERTIFICATE (TURKISH STANDARDS INSTITUTION)</b>	TS 12850 and TS 12426 Service Adequacy Certificate
<b>MAINTENANCE PERIOD AND KIT</b>	
<b>MAIN FILTER HEPA 14 (1 PIECE)</b>	1 Time In 6 Months
<b>AMBIENT AIR G4 CARBON FILTER (2 PIECE)</b>	1 Time In 6 Months
<b>FRESH AIR CARBON FILTER (1 PIECE)</b>	1 Time In 6 Months
<b>UV LAMP (2 PIECE)</b>	1 Time In 6 Months
<b>UVION PATHOGEN IONIZER UNIT (1 SET)</b>	1 Time In 1 Year
<b>SOFTWARE VALIDATION</b>	1 Time In 1 Year

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