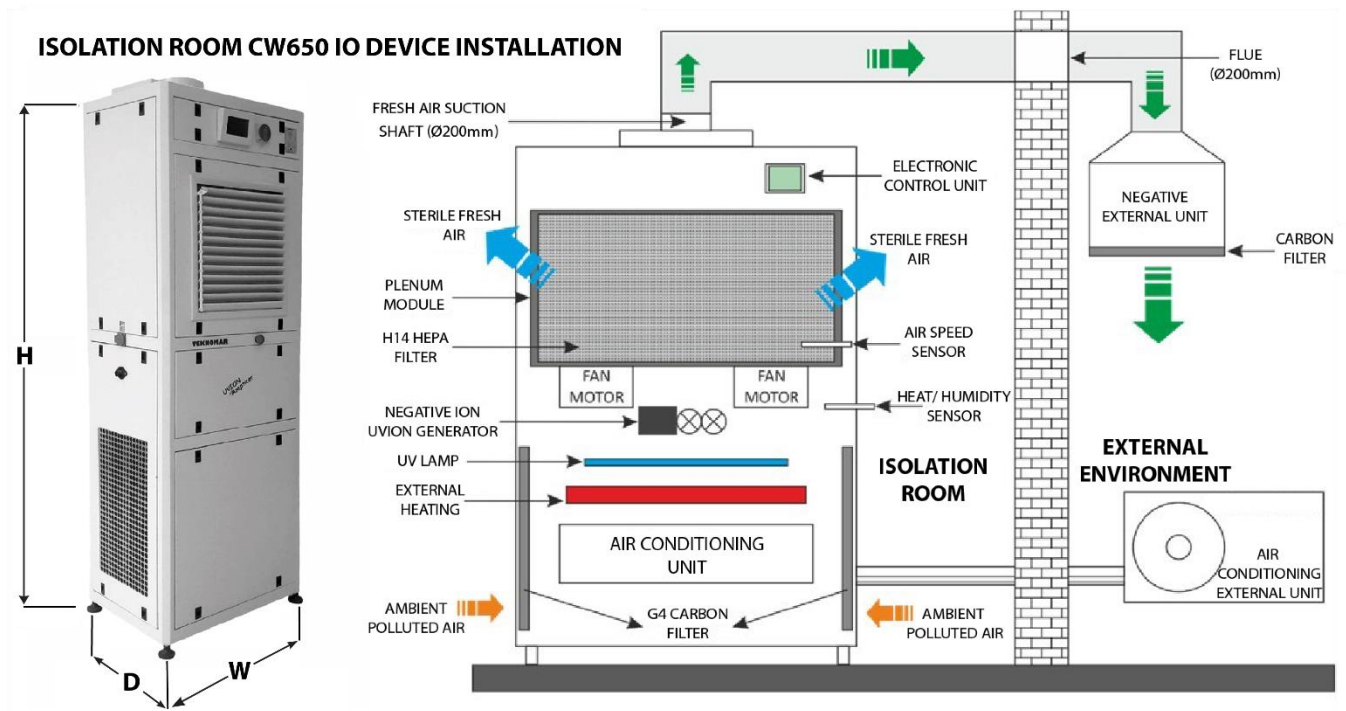


ISOLATION ROOM CW650 IO DEVICE

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

Technical Specifications/ Datasheet



DEFINATION

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

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

FRESH AIR INTRODUCTION CAPACITY (m³/h)	(-) 600
INTERNAL AIR CAPACITY	1000
TOTAL AIR CHANGE CAPACITY (m³/h)	1200
EFFICACY AREA AT CLASS 10.000 (m³)	80
EFFICACY AREA AT CLASS 100.000 (m³)	110
PARTICULAR DECONTAMINATION	96% ≥ Particular Decontamination at the Level of 0.3 µm Within the First 1 Hour
BIO DECONTAMINATION	96% ≥ Bio Decontamination Within the First 1 Hour
BIO DECONTAMINATION EFFICACY	Unfilterable Resistant Long Ethylene Agents, All Kinds of Microorganisms, Viruses, Influenza, RSV Pathogens, Mold, Fungus, etc.
DEVICE CHASSIS	Electrostatic Powder Coated Steel
SOUND VOLUME (at 1m)	55 dB
AIR DIFFUSER	Up Down Direction Adjustable
AIR BLOWING METHOD	Vertical Laminar Flow
AIR SUCTION METHOD	Lateral Below With Carbon Filter
SUCTION SHAFT DIAMETER	200 mm
NEGATIVE / POSITIVE EXTERNAL UNIT	Yes
ELECTRICAL INFORMATION	220-230V AC 50-60 Hz
PROTECTION CLASS	IP20 / EN 60601-1-2:2015
SCREEN	4.3" LCD Touch Screen
CONTROL SYSTEM	The Unit Controls Continuously the Environment Temperature, Pressure, Air Humidity, Filtration Clogging and Air Speed With 1% Precision.
SOFTWARE	PLC / HMI
MENU LANGUAGE	Turkish / English
ALARM WARNING	Error Conditions, With Alarm Codes Audible and Visual Warning
PASSWORD PROTECTION	User and Technical Service Password
AIR SPEED SENSOR	1% m/ sec Sensitivity, 4-20 mA
MARGIN PRESSURE SENSOR	40-450 Pa
HEAT& HUMIDITY SENSOR	1% °C, 1% Rh Sensitivity, 4-20 mA Rod Type
MOISTENING	External Ultrasonic Nebulizer (Optional)

FRESH AIR SUCTION FILTER	EU4 CARBON FILTER
AMBIENT AIR SUCTION FILTER	G4 CARBON FILTER
UVION MODULE	Atmospheric Plasma Negative Ion Generator
ION GENERATOR	TiO2, AgI, CuS Coated Cylindrical Borosilicate Glass Tube Ion Generator
ATMOSPHERIC PLASMA	HV (5000 V Plasma) Supply
UV LAMP	2 Units 15W UVC 254 nm Germicidal Lamp
SPEED COMPENSATION SYSTEM	Automatic Air Speed Flow Adjusted According to Filter Clogging
SEALING	Provides Filter Safety with A Leak-Proof HEPA Plenum Box Suitable With DOP Test.
PLENUM BOX FILTER RESISTANCE	125 Pa
OPTIONAL WORKING MODE	The Device Can Optionally Work in Negative and Positive Modes with a Single Button.
DOCUMENTS	
ISO 9001	Yes
ISO 13485	Yes
EC CERTIFICATE	Yes
DOMESTIC GOODS CERTIFICATE	Yes
CERTIFICATE of FREE SALE (CFS)	Yes
USABILITY TEST APPROVAL	Yes
TSE SERVICE CERTIFICATE (TURKISH STANDARDS INSTITUTION)	TS 12850 and TS 12426 Service Adequacy Certificate
MAINTENANCE PERIOD AND KIT	
MAIN FILTER HEPA 14 (1 PIECE)	1 Time In 6 Months
AMBIENT AIR G4 CARBON FILTER (2 PIECE)	1 Time In 6 Months
FRESH AIR CARBON FILTER (1 PIECE)	1 Time In 6 Months
UV LAMP (2 PIECE)	1 Time In 6 Months
UVION PATHOGEN IONIZER UNIT (1 SET)	1 Time In 1 Year
SOFTWARE VALIDATION	1 Time In 1 Year

TEKNOMAR MAKİNA İMALAT İTH. İHR. SAN. VE TİC. LTD. ŞTİ. Tel: +90 312 385 0040 Fax: +90 312 385 6784 info@teknomar.com.tr

All rights of specification and design change on the equipments produced due to the technological innovations and changes are reserved