

VERAGON V05 CIV 500L/D

VERAGON'S V05 CIV PRODUCES 'WATER FROM THE AIR', RESULTING IN AN END PRODUCT OF DRINKING OR DEMINERALISED WATER, AT A LOWER COST THAN CONVENTIONAL BOTTLED SUPPLIES, WITH NO ENVIRONMENTAL IMPACT.



Like all Veragon products, the V05CIV has been tested in the field by some of the world's most demanding commercial operators. It has also undergone field trials with NGOs including the United Nations World Food programme.

The V05 CIV Air to Water Generator initially draws the humid air through a filtration system before it enters the condensation chamber. This filtered air then makes contact with ultra-cold plates, creating an accelerated dew point. This induces condensation of the water vapour in the air, changing it from gas to liquid. The condensed water is then collected in the storage tank.

The water is then purified using UV light and ultrafiltration in order to inactivate organic and chemical impurities, as well as any bacteria present in the water.

The sanitized water is then mechanically filtered, removing unpleasant odours and tastes. The sanitized and filtered water is then mineralized via special mineralizing cartridges, or, optionally, via the micro-dosage and dilution of hyper-concentrated mineral salts.

Before delivery, the water is finally cooled by a chiller (optional in the basic version) which makes it

pleasantly cool to drink. To avoid contamination from the tap, the last stage of treatment is the irradiation of ultraviolet rays (type B). The quality of the water meets standard potability requirements. Dedicated probes continuously monitor the quality of the water.

Veragon's V05 CIV produces up to 500 liters of water a day under optimal conditions.

This provides a viable alternative solution to wells or to other water supply systems, such as bottled water, reverse osmosis or desalination systems.

V05 CIV TECHNICAL FEATURES

WATER PRODUCTION CAPABILITY	Up to 500 Liters/day (about 20 Lt/h)
WORKING CONDITIONS	17-45 °C / 20-100% RH
UNIT FRAME	Galvanized metal frame
TANK	PE 500 Lt - Polyethylene for drinking water
SIZE, WEIGHT (AIR TREATMENT)	H 220cm / W 140cm / L 240cm / 1050 kg
DISINFECTION	UV-C / OZONE / ULTRAFILTRATION
REFRIGERATING GAS (AIR TREATMENT)	R410C / 407
ELECTRICAL SUPPLY	380V - 50 Hz / 5 pin plug (triphase + neutral)
REQUIRED ELECTRIC POWER SOURCE	10.0 kWh
REFRIGERATION CAPACITY SUPPLIED WATER (**)	Δ T° 20° (up to 50° external T°)
NOISE	About 60 db
POWER CONSUMPTION (indicative temp. 30°)	About 5.5 kWh
WATER QUALITY DELIVERED	Certified drinkable water
COMPLIANCE WITH WATER STANDARD	World Health Organization, Food and Agriculture Organization of the United Nations, Rome 2007 - D.L. 2001 n. 31 Italy
CERTIFICATION	ISO9001:2008 / CE / DM174
COLOR	Upon request

TROPICALIZED = T 40° - RH 90% (**) OPTIONAL IN THE BASIC SPEC

V05 CIV MODELS

TYPE	DISINFECTION	VERSION	CODE	BASIC EQUIPMENT
STANDARD	UV Light	BASIC SPEC	V05CIV-S-B	Electromechanical operation, water quality constantly measured, hydraulic pipes and fittings in polyacetal and PEAD, filter, activated carbon filter bloc, mineralization cartridge.
	Ultrafiltration	TOP SPEC	V05CIV-S-T	Electromechanical, water quality constantly measured, hydraulic pipes and fittings in polyacetal and PEAD, filter, activated carbon filter bloc, mineralization cartridge, water chiller, PLC control panel, display for alarm and vital function.

V05 CIV RECOMMENDED OPTIONAL FEATURES

OPTIONAL FEATURE	DESCRIPTION	CODE
MINERALIZATION SYSTEM	Automatic water mineralization. Checks the micro-dosage and dilution of the liquid solution of hyper- concentrated salts allowing the production of water with desired type and quantity of dissolved minerals.	MS
BIOFILM PROBE	Microorganisms (pathogenic and not) may generate an organic film on the inner walls of the hydraulic circuits. The sensor allows the constant monitoring of the state of such biofilms and the consequent change of the biocide. (Option only applicable if the units are equipped with a PLC).	BP
HEAVY METAL FILTRATION SYSTEM	The Heavy Metal module (HM) ensures separation from any heavy metals from the generated water. The product is certified XRAS - DVGW for drinking water.	MF
WATER CHILLER	Device for cooling the supplied water. The chiller is capable to lowers the temperature of the water it by reducing it by 20°, even in external conditions with T° above 40 °C.	WC
HUMAN MACHINE INTERFACE	The HMI includes a 10" color, touch display, a software for remote control of the main functions of the generator and the treatment process. The software can issue alarms signals via email or telephone.	HM
PACKAGING MACHINE PREPARATION	The preparation allow the hydraulic and electric connection for packaging machine.	PI