

LUQEL | WATER AS INDIVIDUAL AS YOU ARE



LET'S START
THE WATER REVOLUTION

WATER STATION PROFESSIONAL

PRODUCT DATA SHEET

WATER STATION PROFESSIONAL

1 | 50 MODULAR

The unique LUQEL Water Station with WIFI connection includes the following functions:

FILTRATION	Sediment filter (SED), activated carbon filter (AC), reverse osmosis incl. membrane protection. Filter exhaustion of SED and AC filter time and pressure controlled. Monitoring of pure water quality after reverse osmosis based on conductivity.
TEMPERATURE	Cold and hot water Temperature adjustable between 4 °C and 95 °C 4 °C to 20 °C – flow rate 2 L/min 60 °C to 95 °C – flow rate 0,4 L/min (option to increase to 0,8 L/min)
COOLING	Circulation cooler; stainless steel Cooling capacity: 50 L/h Down to 4 °C – flow rate 2 L/min
CARBONATION	Inline carbonation infinitely variable Fresh: 0,8 g/L Medium: 3,5 g/L Classic: 5,5 g/L
HEATING	Continuous-flow heater The flow rate decreases with increasing dispense temperature: 0,8 L/min at 60 °C and 0,4 L/min at 95 °C (Option for additional heating to double the hot water capacity to 1,6 L/min at 60 °C and 0,8 L/min at 95 °C.)
MINERALISATION	Dosage of seven minerals for individual water taste. Your favorite water is created of any tap water.
TOUCHSCREEN	30 different mineralisation recipes with individualisation options, selected via the intuitive and easily navigable touchscreen display Multi Lingual – DE, EN
NFC-CHIP	Connectivity with LUQEL water bottles with NFC Chip
SOFTWARE	Record water volume and mineral consumption Log of warnings and errors Remote update possible Remote diagnosis available
COMMUNICATION	WLAN 2,4GHz WPA/ WPA2 IEEE-802.11B, IEEE-802.11G, IEEE802.11N Optional use of SIM card via internal hotspot

GENERAL DATA

The water dispenser is a modular system consistent of upper structure, filter module, cooling module, prefilter unit and an optional cabinet for a stand-alone version.

The system is available in two versions: Stand alone
Under table (individual modules)

WATER SUPPLY DATA

Water pressure (domestic water connection)	2 to 8 bar *	* If water pressure is higher than 8 bar, a pressure regulator has to be installed on site.
System working pressure	Up to 10 bar	
Connection valve	G 3/8" angle valve / G 3/8" system entry	
Feed water temperature	Minimum 8 °C	
Wastewater connection	Domestic siphon	

VOLUME FLOW (WATER DELIVERY)

Cooling capacity	50 L/h
Flow rate	2 L/min

STAND ALONE

Total weight	63 kg plus 25 kg cabinet weight (for stand-alone version)
Power supply	220-240 V AC / 50-60 Hz
Average power consumption	~145 W (dependent on consumption behaviour and water temperature) 5 W in standby
Max. power consumption	Only peak value at max. heating output. Low energy consumption even when heating: 200 W per 1 L hot water at 95 °C)
Max. current consumption	13 A (fuse: 16 A)
Power connection	2 mains plugs
Noise volume	40 dB
Included components	Upper structure; filter module, cooling module, prefilter unit

MODULE UPPER STRUCTURE

Total weight	10 kg
Dimension incl. control element (L x T x H)	580 x 500 x 480 mm
Power supply	220-240 V AC / 50-60 Hz
Average power consumption	85 W
Power connection	Mains plug
Included components	Consumables

FILTER MODULE

Total weight	20 kg + 7 kg (filter)
Dimension (L x T x H)	200 x 490 x 610 mm
Included components	HYDRONAR® SEDIMENT FILTER HYDRONAR® ACTIVATED CARBON FILTER HYDRONAR® REVERSE OSMOSIS FILTER HYDRONAR® PERFORMANCE GUARD

COOLING MODULE

Total weight	25 kg
Dimension (L x T x H)	260 x 300 x 620 mm
Power supply	220-240 V AC / 50-60 Hz
Average power consumption	60 W (dependent on consumption behaviour and water temperature)
Max. power consumption	400 W
CO₂ pressure max.	9 bar (optimal function of carbonation at 8 to 9 bar pressure)
Power connection	Mains plug
CO₂ connection	1/4" external thread – connection via plastic hose AD 4 mm

Unique technology with extremely low power consumption. No air vents or air circulation required. Extremely quiet.

To save energy it is recommended to turn off the cooler overnight using a time switch. Cooler is operational within max. 5 minutes in the morning.

Coolant	90 g R290 (propane); coolant particularly environmentally friendly; device is intrinsically safe
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Coolant does not need to be refilled during operation. Subject to a defective device, the refill must be actioned by a qualified service engineer.

PREFILTER MODULE

Total weight	1 kg
Dimension (L x T x H)	225 x 133 x 235 mm
Included components	Stop valve, prefilter, check valve EN1717

CABINET MODULE FOR STAND ALONE

Total weight	25 kg
Dimension (L x T x H)	600 x 570 x 870 mm

HEATING EXTENSION

Total weight	1 kg
Power supply	220-240 V AC / 50-60 Hz
Max. current consumption	13 A (fuse: 16 A)
Max. power consumption	3000 W
Average power consumption	3 W (dependent on consumption behaviour and water temperature)
Installation	Integrated in upper structure
Power connection	Mains plug (separately fused)

ACCESSORIES

CONSUMABLES

7 different minerals	Calcium, Chloride, Hydrogen Carbonate, Magnesium, Potassium, Sodium, Sulphate Filling quantity of mineral bottles: 500 mL
Dimension bottle (ø x H)	70 mm x 210 mm Included in scope of delivery

HYDRONAR® PERFORMANCE GUARD

Filling quantity	500 mL
Weight bottle	820 g
Dimension bottle (ø x H)	70 x 210 mm
Dosing	To prolong operating lifetime by membrane protection from scaling. Included in scope of delivery

HYDRONAR® SEDIMENT FILTER

Body material Filter material	Stainless steel PE
Dimension (ø x H)	53 x 379 mm
Total weight	1.250 g
Pore size filter	5 µm
Exchange interval	6 months (manufacturer recommendation) Included in scope of delivery

HYDRONAR® ACTIVATED CARBON FILTER

Body material Filter material	Stainless steel Activated carbon made from coconut shells
Dimension (ø x H)	69 x 379 mm
Total weight	2.490 g
Pore size filter	5 µm
Exchange interval	6 months (manufacturer recommendation) Included in scope of delivery

HYDRONAR® REVERSE OSMOSIS FILTER

Body material Filter material	Stainless steel PA
Dimension (ø x H)	80 x 480 mm
Total weight	2.000 g
Exchange interval	36 months (manufacturer recommendation) Included in scope of delivery

Prefilter	Prevention of deposits in entry system Filter candles – Removal of particles >80 µm Included in scope of delivery
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CO₂ pressure reducer	For CO ₂ bottles incl. connection hose for Water Station Max. dimension: 200 x 180 x 80 mm (B x H x T) Working pressure: 9 bar, for optimal function of carbonisation, the pressure reducer has to be set at 7 to 8 bar. Coupling of CO ₂ bottle: 28 x 1/4" refillable bottle
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Outlet to carbonator: 1/4" connection via plastic hose AD 4 mm
 Overpressure protection with shut-off valve at gas outlet.
 Fulfils requirements of VO (EG) 1935/2004, VO (EG) 2023/2006 and LSGB
 Not included in scope of delivery

CO₂ bottle Size: 6 kg or 10 kg
 Max. dimension (ø x H): 200 x 710 mm
 Incl. hoop guard and rotating valve
 CO₂ gas: Food approval E290
 Warning: CO₂ bottle must not contain riser pipe

Dispensable water volume with 6 kg CO₂ bottle and maximum carbonation 900 L
 Dispensable water volume with 10 kg CO₂ bottle and maximum carbonation 1.500 L
 Dispensable water volume with 6 kg CO₂ bottle and maximum carbonation 1.500 L
 Dispensable water volume with 10 kg CO₂ bottle and maximum carbonation 2.500 L

Not included in scope of delivery

CLEANING | HYGIENE

Our unique multilevel hygiene concept fulfils the highest hygiene standards.

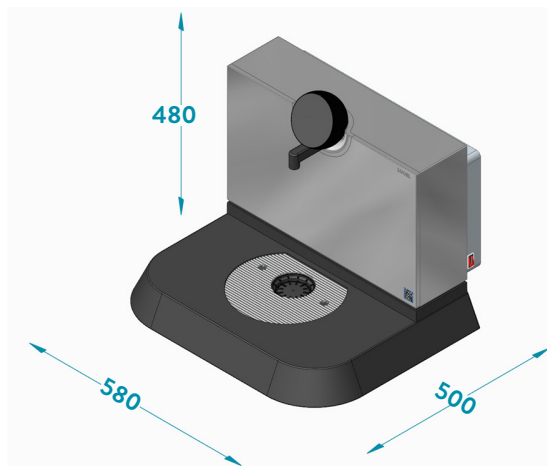
Thermal disinfection Thermal disinfection of dispense nozzle as retrograde germ barrier every hour for 5 min at 95 °C, other intervals programmed by a service engineer.
 Automated thermal disinfection with hot water: 1 x daily

UV disinfection During every dispense, water is irradiated with UV light ensuring the highest possible hygienic standard.

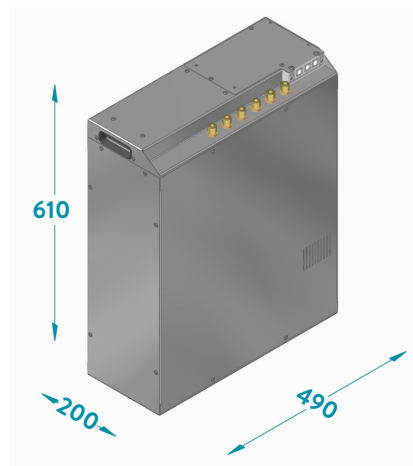
Full system sanitisation & cleaning Cleaning interval of 6 months or after longer standstill by a qualified service engineer.

ILLUSTRATION OF MODULES PLUS EXTENSIONS

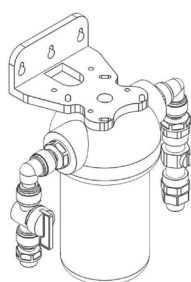
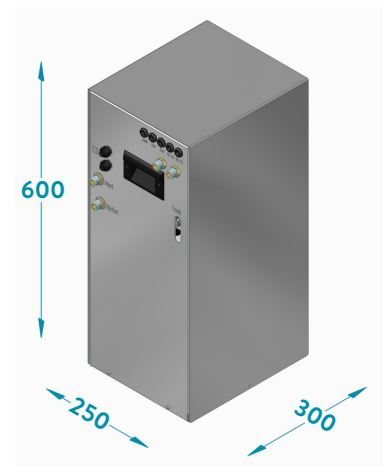
Module upper structure



Filter module



Cooling module



Prefilter module



CO₂ bottle with pressure reducer
 *not included in scope of delivery

WATER STATION PROFESSIONAL 1 | 50 MODULAR: TECHNICAL DATA

Model	WSP Stand Alone	WSP Modular	Heating Extension
Type	Stand alone	Under table	For increased hot water output
Water types			
Cooled still		✓	
Carbonated		✓	
Hot		✓	
Specification			
Power supply	2x 220-240 V AC / 50-60 Hz		plus 220-240 V AC / 50 - 60 Hz
Average power consumption (dependent on consumption behaviour and water tempera- ture)	145 W (in standby: 5 W)		plus 3 W
Max. power consumption	3000 W		plus 3000 W
Max. current consumption	13A (fuse 16 A)		plus 13A (separately fused: 16 A)
Noise volume	40 dB(A)		
System working pressure	up to 10 bar		
CO ₂ max. pressure	up to 8 bar		
Inline carbonation variable	up to 5,5 g/L		
CO ₂ bottle size	up to 10 kg		
Water temperature	4-95 °C		
Flow rate still, ambient	2 l/min		
Flow rate cool, CO ₂	2 l/min		
Flow rate still, cool	2 l/min		
Flow rate 95 °C	0,4 l/min		0,8 l/min
Total weight	63 kg plus 25 kg for the cabinet	Module upper structure: 10 kg Filter module: 20 kg Filter: 7 kg Cooling module: 25 kg Prefilter module: 1 kg	
Dimension (L x T x H)	600 x 570 x 1.350 mm	Module upper structure: 580 x 500 x 480 mm Filter module: 200 x 490 x 610 mm Cooling module: 260 x 300 x 620 mm Prefilter module: 225 x 133 x 235 mm	
Under table components fit in base cabinets with the dimen- sions (L x T x H)	550 x 515 x 650 mm		
Output height	29 cm		
Order number			