



Catalogue 2020

Atmospheric Water Generators



Atmospheric Water Generators

Water from Air





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Company

GENAQ TECHNOLOGIES S.L.

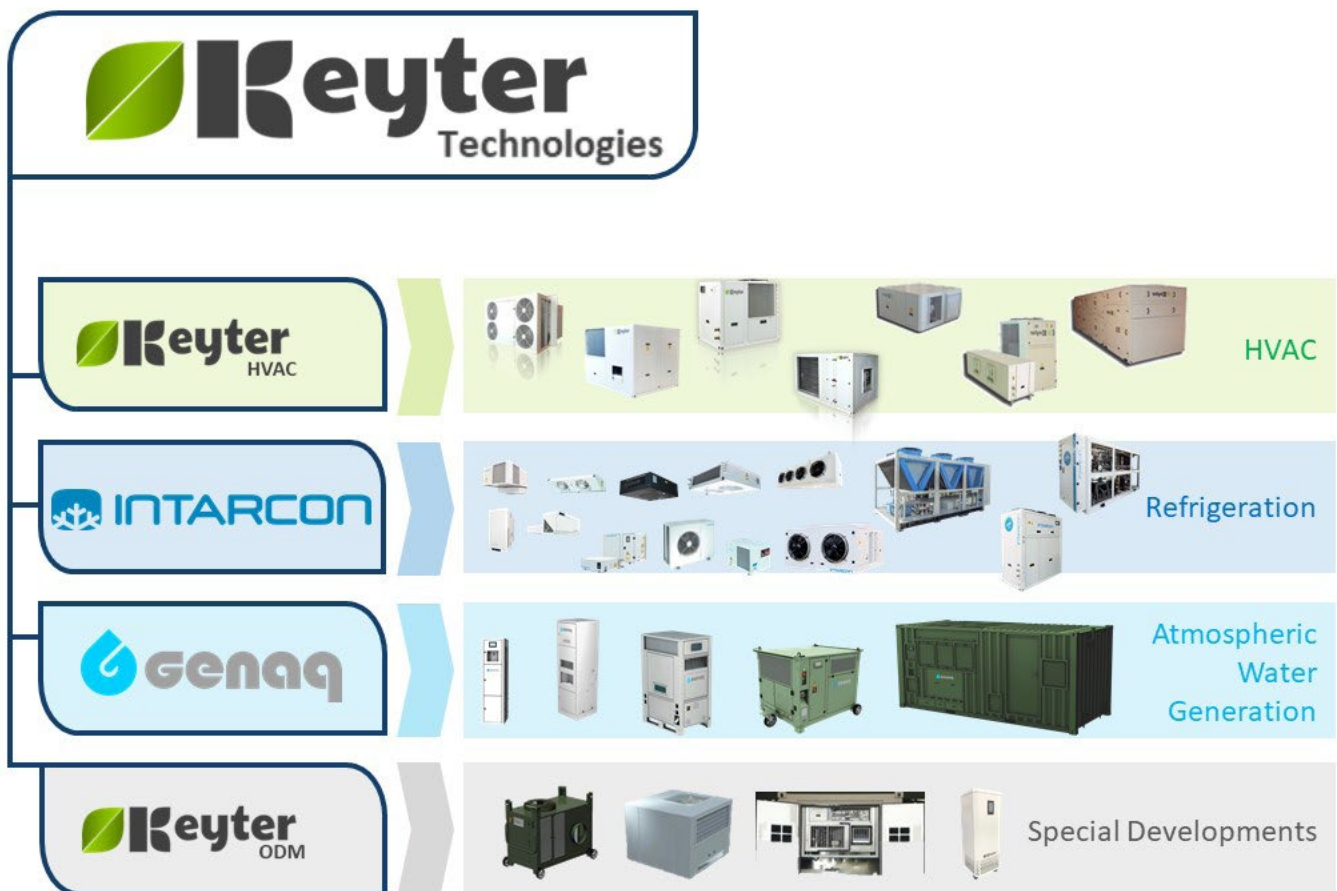
Since 2008, at GENAQ we have been investing in the research, development and industrialization of atmospheric water generators, offering the market a variety of generators as well as customized developments for specific needs. As a result of this development, the 4th generation of GENAQ atmospheric water generators is already in operation in more than 25 countries, in the five continents around the world (US, Africa, South America, Middle East,...). We manufacture our own technology in our facilities located in Lucena, Spain.



KEYTER TECHNOLOGIES GROUP

GENAQ is part of KEYTER TECHNOLOGIES Group, with over 30 years of experience in HVAC, refrigeration and atmospheric water generation. Main figures:

- 💧 40 M\$ turnover
- 💧 450 employees
- 💧 24,000 m2 of production facilities
- 💧 25,000 units manufactured annually

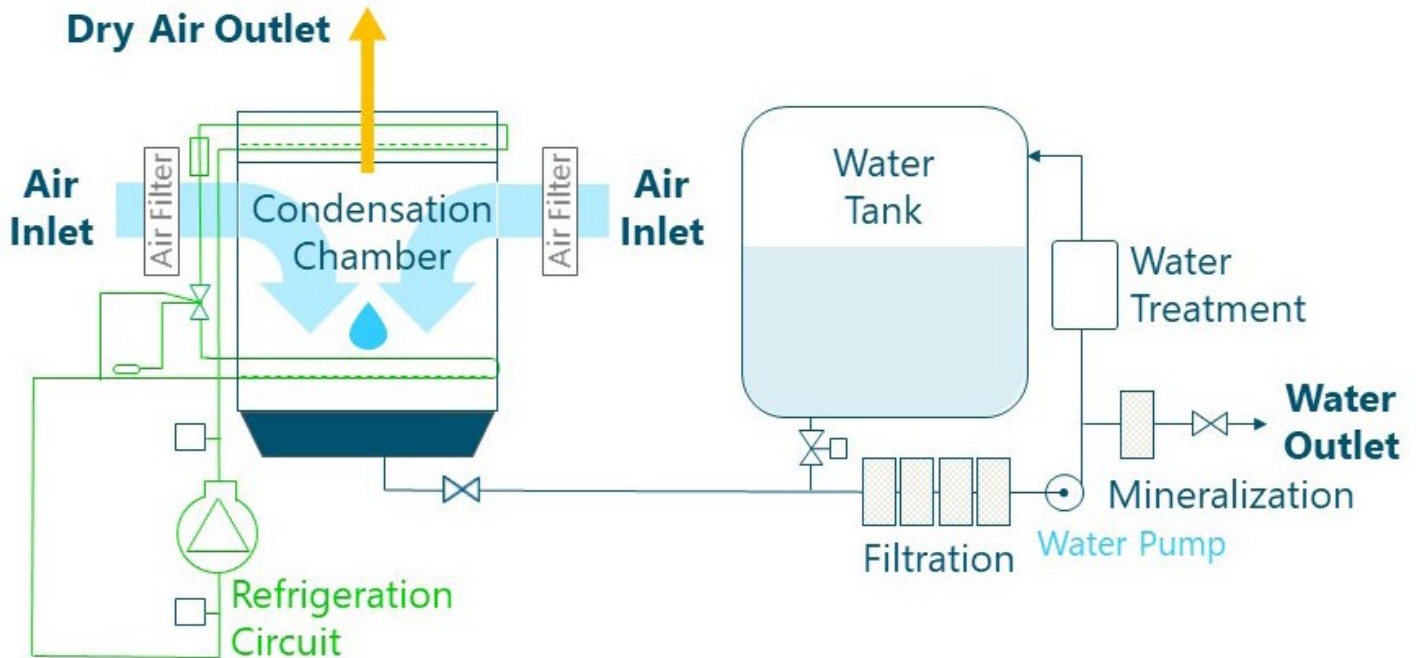


Technology

Working Scheme

GENAQ Atmospheric Water Generators rely on technologies that include:

- 💧 2-stage air filtration
- 💧 Condensation chamber in food-grade materials
- 💧 Efficient refrigeration components and heat exchangers
- 💧 Water filtration including sediment, activated carbon and ultrafiltration
- 💧 UV water purification
- 💧 Mineralization
- 💧 Software optimization control
- 💧 Internet of Things



Why GENAQ?

Certified Generation

GENAQ generators have been tested in Climate Chamber and audited and certified by TÜV Rheinland to provide with real generation data as a function of air temperature and humidity.



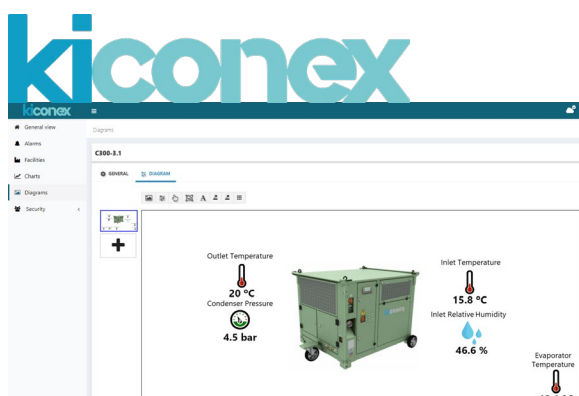
Certified Water Quality

Quality of water generated is systematically analyzed and certified by ENAC*-certified laboratories to meet international drinking water standards.
*ENAC: Spanish National Accreditation Body



Power Supply

GENAQ Generators are compatible with gensets (normally for disaster relief) and with solar PV panels including direct connection and without batteries.



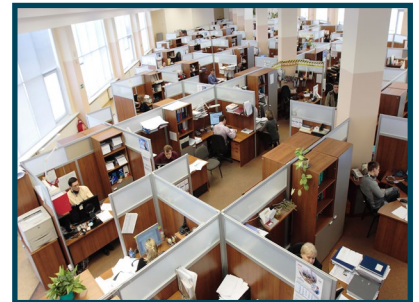
Connected

All GENAQ generators can be monitored and controlled remotely thanks to our Internet of Things (IoT) solution. This in-house solution is based on kiconex technology.

Applications

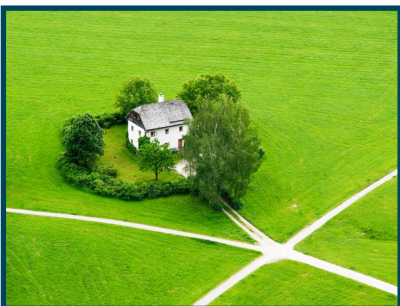
Residential and Offices

GENAQ Atmospheric Water Generators are designed as water dispensers that supply the purest drinking water avoiding plastic waste and storing space, compared with bottled water dispensers. They can be used at homes, hotels, hospitals and offices.



Remote Locations

GENAQ brings an affordable and excellent quality water source when water network is not available or it has a high cost of connection. It is ideal for Oil Rigs, Mining Camps, Construction Sites and any remote facility. GENAQ generators are also compatible with renewable power sources such as photovoltaic panels.



Industrial

The water produced with GENAQ atmospheric water generators is ideal for processes with low mineralization water requirements, such as food industry, agriculture or livestock. It is free of biologic contamination with excellent physical and chemical properties.



Emergency Water Supply

GENAQ Atmospheric Water Generators are a quick deployment water supply in case of emergencies and natural disasters or to be used in civilian or military camps. With a reinforced and easy-to-carry structure designed to overcome any logistical challenge, they supply safe water wherever they are located.





 **Genaaq** **stratus**
Water Dispenser



GENAQ stratus S50

Description

GENAQ Stratus S50 is an atmospheric water generator in a water dispenser format with a nominal generation capacity of 52 liters/day.

- It supplies the highest quality of water for houses, offices, hotels, hospitals, etc.
- Due to its small dimensions, it is ideal for small offices bringing a high quality of drinking water (up to 15 people).
- Plumbing installation is not required, it only requires a power supply and doesn't need any storage space, nor it produces any waste.
- Several water purification options are available.



Features

Atmospheric Water Generator GENAQ Stratus S50-3.6	
Version	3.6
Nominal generation, at 30°C and 80% RH (±10%)	52 l/day
Dimensions (Height x Width x Depth)	1500 x 400 x 515 mm
Weight	105 kg
Color	White
Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Power Supply	
Power supply (other voltages available)	230V-I-50Hz
Nominal power	0.7 kW
Plug/Socket	Type F
Refrigerant Circuit	
Refrigerant	R134A
Evaporation coil built in copper tubes and aluminum fins, lacquered with epoxy paint	
Condensation coil built in copper tubes and aluminum fins	
Air Circuit	
Nominal air flow	350 m ³ /h
Fan maximum power	101 W
Recordable F7 fine particles air filter and thick particles prefilter	
Hydraulic Circuit	
Food grade low density lineal polyethylene tube	
Nominal water flow	1.8 l/min
Pump maximum power	29 W
Filters: Sediment 5-micron, Activated carbon, Ultrafiltration, Mineralization	
Water tank	15 l
Water preservation by UV lamp and sodium hypochlorite dosing pump (optional)	
Electrical and Control Circuit	
Control	DIXELL IPG208D-10021 and VTIPG
Electronic control unit with temperature display	
Electrical and control panel with thermal, magnetothermal and differential protection	
Safety, Alarms, Operating and Defrosting Cycles Control	
Safety Devices	
Protection against refrigerant pressure abnormal levels for high and low pressure	
Automatic resetting thermal protections in the compressor and motor fan	
Protection fuses and electrical panel's general grounding	
Operation Limits	
Temperature	10°C to 55°C
Relative Humidity	10% to 100%
Storage Limit	-15°C to 70°C

Options

Power Supply	Color	Chlorine Dosing	Consummables Kit
Soft Starter	Marine Environment	Energy and Water Meter	Spare-parts Kit
Plug/Socket type	Cold and Hot Water	Internet of Things	

Generation (liter per day)

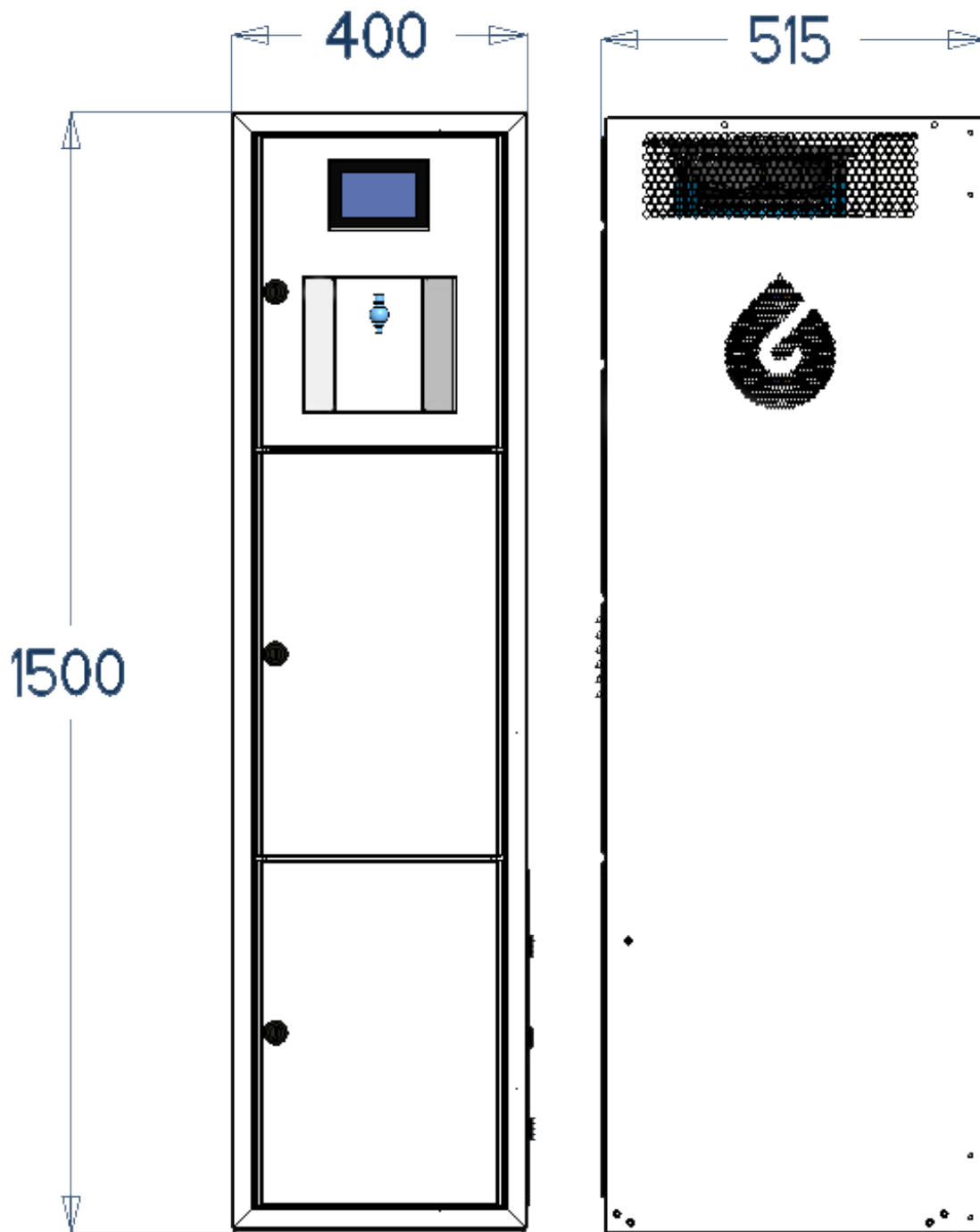
		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	67	64	61	55	45	34	22	13
	90	-	-	67	64	61	54	45	34	21	12
	80	-	71	66	63	59	52	43	32	20	12
	70	71	69	64	60	54	47	37	25	17	10
	60	67	64	59	52	46	39	28	20	12	5.4
	50	60	57	50	43	37	28	21	14	6.7	2.6
	40	47	43	37	29	24	19	14	7.0	2.9	0.9
	30	29	27	23	18	15	11	5.7	2.6	0.9	0.5
	20	16	15	12	7	5.2	2.9	1.5	0.5	-	-
	10	6.1	5.5	3.3	2.1	1.1	0.5	-	-	-	-

Data measured in Climate Chamber and audited and certified by TÜV Rheinland. Generation may be affected by factors such as height (-5.5% approx. every 500m), filter cleaning, wind, etc.

Consumption (kWh per liter)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	0.32	0.34	0.35	0.39	0.43	0.48	0.67	0.85
	90	-	-	0.32	0.34	0.36	0.40	0.43	0.49	0.67	0.85
	80	-	0.31	0.32	0.34	0.37	0.42	0.44	0.50	0.70	0.88
	70	0.30	0.31	0.34	0.36	0.40	0.45	0.47	0.58	0.76	0.97
	60	0.32	0.34	0.37	0.41	0.47	0.49	0.59	0.74	0.88	1.45
	50	0.36	0.38	0.44	0.51	0.54	0.64	0.69	0.88	1.35	2.30
	40	0.46	0.50	0.57	0.66	0.73	0.78	0.96	1.41	2.25	4.07
	30	0.68	0.71	0.81	0.88	1.06	1.17	1.67	2.56	4.25	5.38
	20	0.97	1.00	1.25	1.76	2.00	2.81	3.61	6.11	-	-
	10	1.99	2.09	2.93	3.68	4.79	7.03	-	-	-	-

Dimensions in mm



GENAQ stratus S200

Description

GENAQ Stratus S200 is an atmospheric water generator in a water dispenser format with a nominal generation capacity of 201 liters/day.

- It supplies the highest quality of water for houses, offices, hotels, hospitals, etc.
- It is ideal for larger offices bringing a high quality of drinking water (up to 70 people).
- Plumbing installation is not required, it only requires a power supply and doesn't need any storage space, nor it produces any waste.
- Several water purification options are available.



Features

Atmospheric Water Generator GENAQ Stratus S200-2.4	
Version	2.4
Nominal generation, at 30°C and 80% RH (±10%)	201 l/day
Dimensions (Height x Width x Depth)	1765 x 595 x 710 mm
Weight	185 kg
Color	White
Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Power Supply	
Power supply (other voltages available)	230V-I-50Hz
Nominal power	2.5 kW
Plug/Socket	Type F
Refrigerant Circuit	
Refrigerant	R407-C
Evaporation coil built in copper tubes and aluminum fins, lacquered with epoxy paint	
Condensation coil built in copper tubes and aluminum fins	
Air Circuit	
Nominal air flow	1000 m ³ /h
Fan maximum power	168 W
Recordable F7 fine particles air filter and thick particles prefilter	
Hydraulic Circuit	
Food grade low density lineal polyethylene tube	
Nominal water flow	1.8 l/min
Pump maximum power	29 W
Filters: Sediment 5-micron, Activated carbon, Ultrafiltration, Mineralization	
Water tank	40 l
Water preservation by UV lamp and sodium hypochlorite dosing pump (optional)	
Electrical and Control Circuit	
Control	DIXELL IPG208D-10021 and VTIPG
Electronic control unit with temperature display and ambient relative humidity	
Electrical and control panel with thermal, magnetothermal and differential protection	
Safety, Alarms, Operating and Defrosting Cycles Control	
Safety Devices	
Protection against refrigerant pressure abnormal levels for high and low pressure	
Automatic resetting thermal protections in the compressor and motor fan	
Protection fuses and electrical panel's general grounding	
Operation Limits	
Temperature	10°C to 55°C
Relative Humidity	10% to 100%
Storage Limit	-15°C to 70°C

Options

Power Supply	Color	Chlorine Dosing	Consummables Kit
Soft Starter	Marine Environment	Energy and Water Meter	Spare-parts Kit
Plug/Socket type	Cold and Hot Water	Internet of Things	

Generation (liter per day)

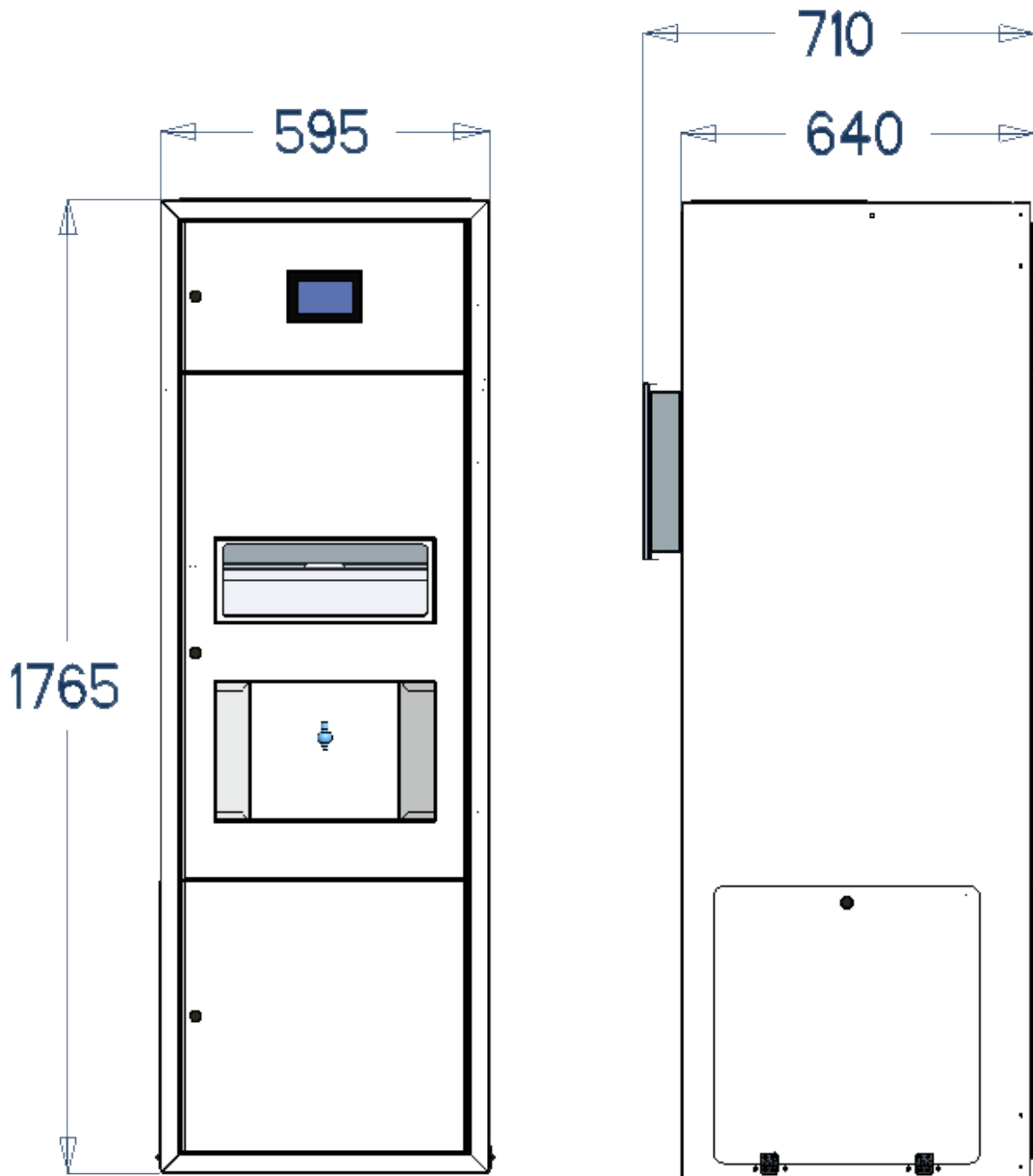
		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	294	281	254	212	152	100	54	14
	90	-	-	294	280	253	210	150	98	53	14
	80	-	301	293	278	247	201	142	92	50	13
	70	303	299	288	269	230	181	125	74	20	11
	60	297	290	275	244	200	152	95	58	15	6
	50	281	270	242	204	159	109	71	20	8	3
	40	236	219	186	139	105	75	46	10	4	1.0
	30	149	136	113	88	63	42	9	4	1.1	0.6
	20	84	76	61	35	11	5	2.5	0.7	-	-
	10	15	14	8	5	2.4	0.9	-	-	-	-

Data measured in Climate Chamber and audited and certified by TÜV Rheinland. Generation may be affected by factors such as height (-5.5% approx. every 500m), filter cleaning, wind, etc.

Consumption (kWh per liter)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	0.24	0.26	0.28	0.34	0.42	0.56	0.88	2.47
	90	-	-	0.24	0.26	0.28	0.34	0.43	0.56	0.89	2.48
	80	-	0.24	0.25	0.26	0.29	0.36	0.44	0.58	0.92	2.56
	70	0.24	0.24	0.25	0.27	0.31	0.39	0.47	0.67	2.06	2.83
	60	0.24	0.25	0.26	0.30	0.36	0.42	0.59	0.85	2.38	4.22
	50	0.26	0.27	0.30	0.35	0.41	0.55	0.69	2.06	3.65	6.72
	40	0.31	0.33	0.38	0.46	0.56	0.67	0.96	3.32	6.06	11.88
	30	0.44	0.46	0.54	0.62	0.81	1.00	3.41	6.02	11.46	15.70
	20	0.63	0.66	0.83	1.23	3.13	4.92	7.34	14.35	-	-
	10	2.64	2.81	3.99	5.22	7.51	12.31	-	-	-	-

Dimensions in mm





WILPHOENI

WILPHOENI

A large offshore oil rig is shown at sea, supported by several massive concrete legs. The rig is a complex of steel structures, including a tall derrick on the left and various platforms and cranes. A yellow crane is prominent in the middle. The rig is surrounded by blue water, and a coastline with green fields and some buildings is visible in the background under a clear blue sky. The text 'WILPHOENIX' is visible on a platform on the left and on a container in the middle.

Genaaq nimbus Remote Supply

GENAQ nimbus n500

Description

GENAQ Nimbus N500 is an atmospheric water generator in a Remote Supply format, with a nominal generation capacity of 504 liters/day.

- It is ideal for industrial installations such as oil rigs, mining camps, construction sites or any other remote facility.
- It is designed to be transported with pallet trucks and to fit on an EUR-pallet.
- It can operate under extreme environmental conditions up to 55°C with the ability to extract water with low ambient humidity.
- It has been optimized to minimize the energetic cost of water generation.
- Compatible with external tank, maintaining its water safe thanks to the integrated recirculation mode.
- Several water purification options are available.



Features

Atmospheric Water Generator GENAQ Nimbus N500-4.2	
Version	4.2
Nominal generation, at 30°C and 80% RH (±10%)	504 l/day
Dimensions (Height x Width x Depth)	1800 x 795 x 1180 mm
Weight	380 kg
Color	White
Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Power Supply	
Power supply (other voltages available)	400V-III-50Hz
Nominal power	4.1 kW
Plug/Socket	32A 5-pin Socket
Refrigerant circuit	
Refrigerant	R134A
Evaporation coil built in copper tubes and aluminum fins, lacquered with epoxy paint	
Condensation coil built in copper tubes and aluminum fins	
Air Circuit	
Nominal air flow	2000 m3/h
Fan maximum power	500 W
Recordable M5 fine particles air filter and thick particles prefilter	
Hydraulic Circuit	
Food grade low density lineal polyethylene tube	
Nominal water flow	11 l/min
Pump maximum power	10 W
Filters: Sediment 5-micron, Activated carbon, Ultrafiltration, Mineralization	
Water tank	50 l
Water preservation by UV lamp and sodium hypochlorite dosing pump (optional)	
Electrical and Control Circuit	
Control	IPG208D-10021 DIXEL
Electronic control unit with temperature display and ambient relative humidity	
Electrical and control panel with thermal, magnetothermal and differential protection	
Safety, Alarms, Operating and Defrosting Cycles Control	
Internet of Things	
Safety Devices	
Protection against refrigerant pressure abnormal levels for high and low pressure	
Automatic resetting thermal protections in the compressor and motor fan	
Protection fuses and electrical panel's general grounding	
Operation Limits	
Temperature	10°C to 55°C
Relative Humidity	10% to 100%
Storage Limit	-15°C to 70°C

Options

Power Supply	Color	Chlorine Dosing
Soft Starter	Marine Environment	Consumables Kit
Plug/Socket type	Cold and Hot Water	Spare-parts Kit

Generation (liter per day)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	736	702	636	531	380	237	124	67
	90	-	-	735	701	632	526	375	233	122	66
	80	-	754	733	695	617	504	356	219	114	63
	70	758	746	720	673	576	452	313	188	95	51
	60	744	725	687	610	501	380	243	133	72	36
	50	702	675	605	510	398	279	181	95	48	20
	40	590	548	466	374	269	191	106	57	25	6.8
	30	401	367	290	223	144	96	54	25	7.3	4.0
	20	214	195	138	99	64	37	17	4.7	-	-
	10	89	79	56	33	16	6.3	-	-	-	-

Data measured in Climate Chamber and audited and certified by TÜV Rheinland. Generation may be affected by factors such as height (-5.5% approx. every 500m), filter cleaning, wind, etc.

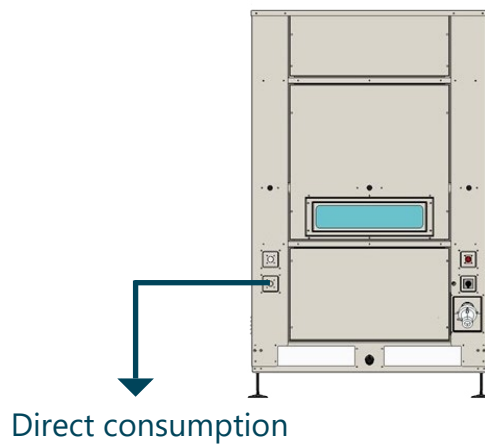
Consumption (kWh per liter)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	0.16	0.17	0.19	0.23	0.28	0.39	0.64	0.88
	90	-	-	0.16	0.17	0.19	0.23	0.28	0.39	0.65	0.89
	80	-	0.16	0.16	0.17	0.19	0.24	0.29	0.41	0.67	0.91
	70	0.16	0.16	0.17	0.18	0.21	0.26	0.31	0.44	0.73	1.01
	60	0.16	0.17	0.17	0.20	0.24	0.28	0.38	0.62	0.85	1.22
	50	0.17	0.18	0.20	0.24	0.28	0.36	0.45	0.74	1.05	1.63
	40	0.20	0.22	0.25	0.29	0.36	0.44	0.70	0.96	1.47	2.88
	30	0.28	0.29	0.35	0.40	0.59	0.73	0.98	1.46	2.78	3.80
	20	0.41	0.43	0.61	0.72	0.90	1.19	1.78	3.48	-	-
	10	0.76	0.81	0.97	1.26	1.82	2.98	-	-	-	-

Working Modes

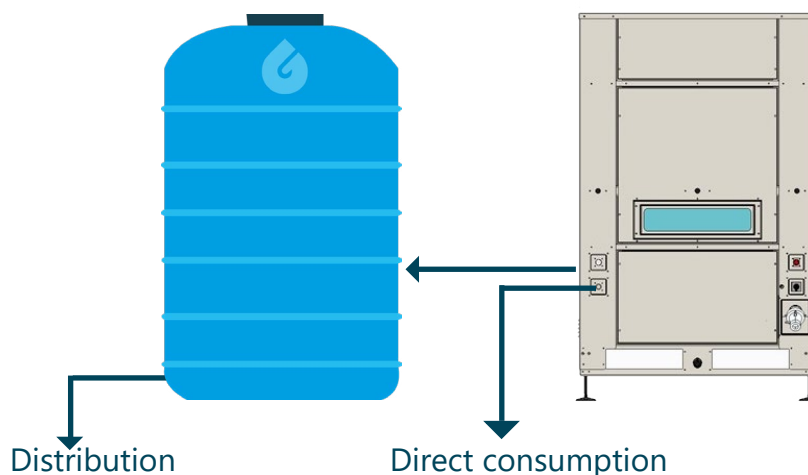
Manual

- 💧 The generator will store water only in the internal tank.
- 💧 Once full, the generator stops.
- 💧 Water is served at the Outlet through the Water Switch.
- 💧 This mode intended for demonstration purposes.



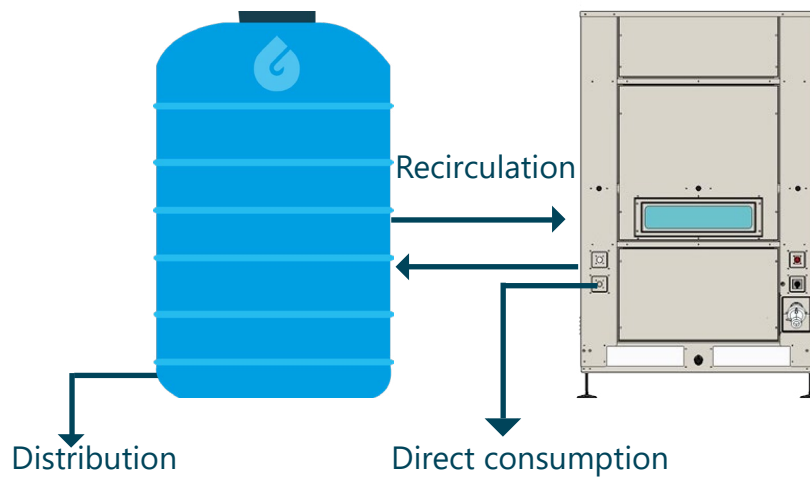
Automatic

- 💧 The generator will store water in the internal tank and, once full, will empty it by pouring the water through the outlet.
- 💧 This mode intended for filling an external tank.
- 💧 However, if water is not chlorinated, it cannot be stored without an additional water treatment.

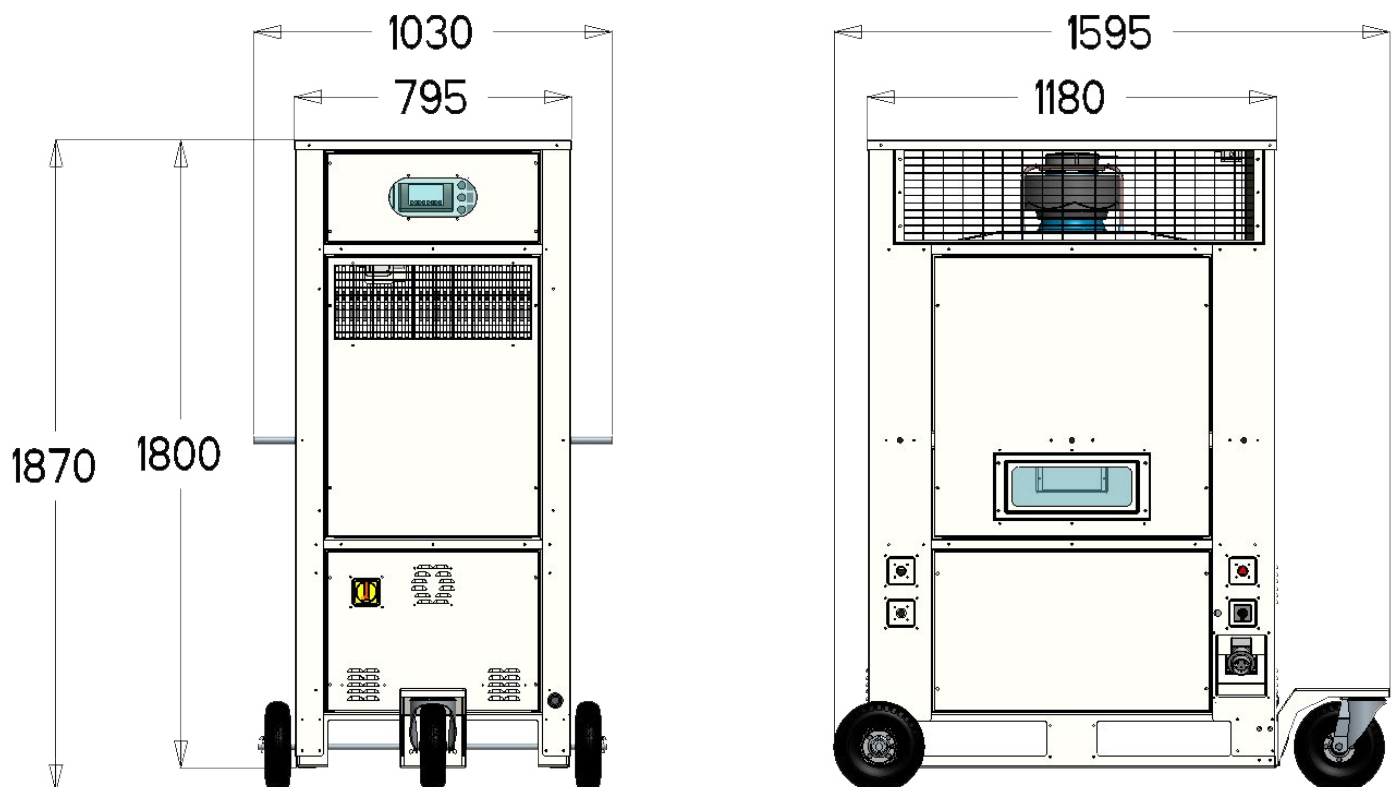


External Tank

- The generator will store water in an external tank.
- Once the internal tank is full, the generator will empty the tank by pouring the water through the Outlet to Tank.
- Water from the external tank is recirculated through sediment filtration and UV.
- Water is served at the Outlet though the Water Switch.
- Mode intended for filling an external tank with recirculation, preserving it safe.



Dimensions in mm



GENAQ nimbus n4500

Description

GENAQ Nimbus N4500 is an atmospheric water generator in a Remote Supply format, with a nominal generation capacity of 4537 liters/day.

- It is ideal for industrial installations requiring large amounts of drinking water such as oil rigs, mining camps, construction sites or any other remote facility.
- It can operate under extreme environmental conditions up to 55°C with the ability to extract water with low ambient humidity.
- It has been optimized to minimize the energetic cost of water generation.
- Compatible with external tank, maintaining its water safe thanks to the integrated recirculation mode.
- Several water purification options are available.



Features

Atmospheric Water Generator GENAQ Nimbus N4500-4.0	
Version	4.0
Nominal generation, at 30°C and 80% RH (±10%)	4537 l/day
Dimensions (Height x Width x Depth)	2170 x 2210 x 3420 mm
Weight	2200 kg
Color	White
Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Power Supply	
Power supply (other voltages available)	400V-III-50Hz
Nominal power	35 kW
Plug/Socket	Direct Connection (3x25mm)
Refrigerant Circuit	
Refrigerant	R134A
Evaporation coil built in copper tubes and aluminum fins, lacquered with epoxy paint	
Condensation coil built in copper tubes and aluminum fins	
Air Circuit	
Nominal air flow	22000 m ³ /h
Fan maximum power	3 x 2600 W
Recordable M5 fine particles air filter and thick particles prefilter	
Hydraulic Circuit	
Food grade low density lineal polyethylene tube	
Nominal water flow	25 l/min
Pump maximum power	750 W
Filters: Sediment (Three steps), Activated carbon, Mineralization	
Water tank	120 l
Water preservation by UV lamp and sodium hypochlorite dosing pump (optional)	
Electrical and Control Circuit	
Control	IPG208D-10021 DIXEL
Electronic control unit with temperature display and ambient relative humidity	
Electrical and control panel with thermal, magnetothermal and differential protection	
Safety, Alarms, Operating and Defrosting Cycles Control	
Internet of Things	
Safety Devices	
Protection against refrigerant pressure abnormal levels for high and low pressure	
Automatic resetting thermal protections in the compressor and motor fan	
Protection fuses and electrical panel's general grounding	
Operation Limits	
Temperature	10°C to 55°C
Relative Humidity	10% to 100%
Storage Limit	-15°C to 70°C

Options

Power Supply	Color	Chlorine Dosing
Soft Starter	Marine Environment	Consummables Kit
Plug/Socket type	Cold and Hot Water	Spare-parts Kit

Generation (liter per day)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	6435	6187	5687	4828	3631	2270	1161	555
	90	-	-	6351	6102	5590	4737	3532	2207	1132	548
	80	-	6421	6263	5996	5412	4537	3129	2045	1047	520
	70	6566	6388	6163	5813	5043	4049	2704	1731	885	430
	60	6628	6322	5961	5299	4471	3329	2168	1189	676	306
	50	6478	6034	5327	4528	3490	2387	1585	853	452	176
	40	5594	4998	4199	3089	2286	1588	906	524	238	59
	30	3824	3141	2497	1865	1164	786	474	232	69	34
	20	1905	1648	1109	795	524	308	149	42	-	-
	10	684	589	413	245	122	47	-	-	-	-

Data measured in Climate Chamber and audited and certified by TÜV Rheinland. Generation may be affected by factors such as height (-5.5% approx. every 500m), filter cleaning, wind, etc.

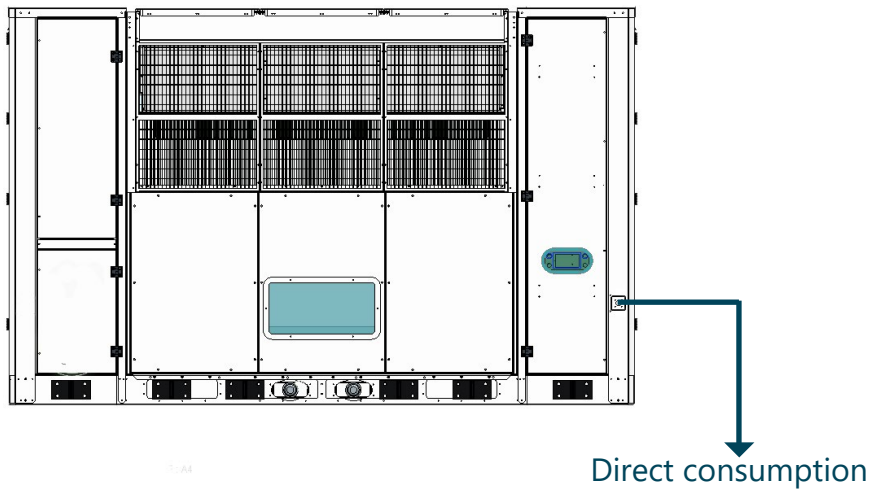
Consumption (kWh per liter)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	0.17	0.17	0.19	0.22	0.27	0.37	0.62	0.96
	90	-	-	0.17	0.18	0.19	0.23	0.27	0.37	0.63	0.96
	80	-	0.17	0.17	0.18	0.20	0.24	0.30	0.39	0.66	0.99
	70	0.16	0.17	0.18	0.19	0.21	0.26	0.33	0.43	0.71	1.09
	60	0.16	0.17	0.18	0.20	0.24	0.29	0.39	0.62	0.81	1.29
	50	0.17	0.18	0.20	0.24	0.28	0.38	0.46	0.74	1.00	1.70
	40	0.19	0.22	0.25	0.31	0.39	0.47	0.73	0.94	1.38	2.97
	30	0.26	0.30	0.37	0.43	0.66	0.81	1.01	1.43	2.62	3.92
	20	0.42	0.46	0.68	0.81	0.99	1.30	1.85	3.46	-	-
	10	0.89	0.98	1.18	1.55	2.22	3.60	-	-	-	-

Working Modes

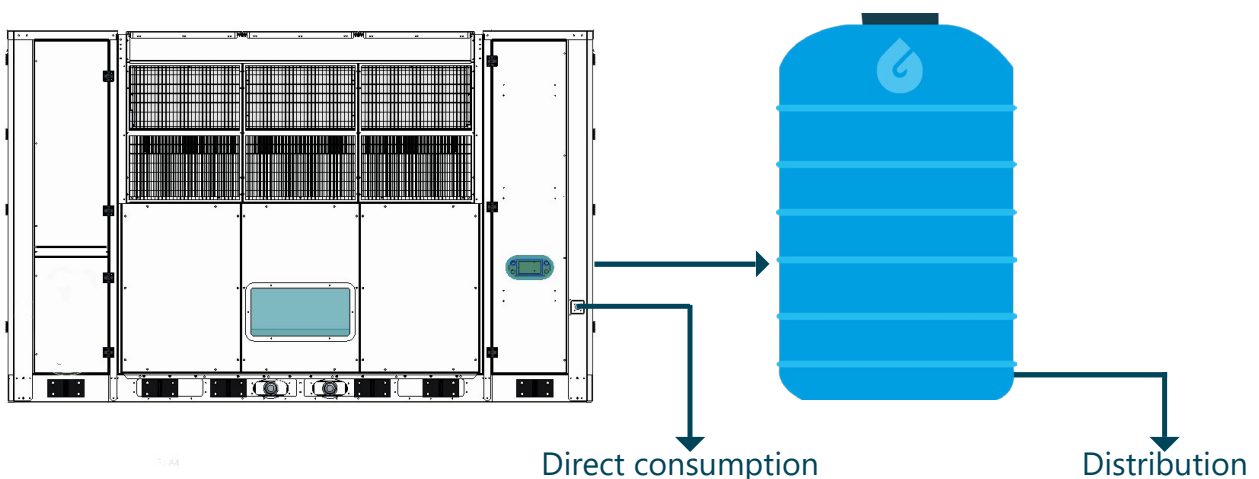
Manual

- ☑ The generator will store water only in the internal tank.
- ☑ Once full, the generator stops.
- ☑ Water is served at the Outlet through the Water Switch.
- ☑ This mode intended for demonstration purposes.



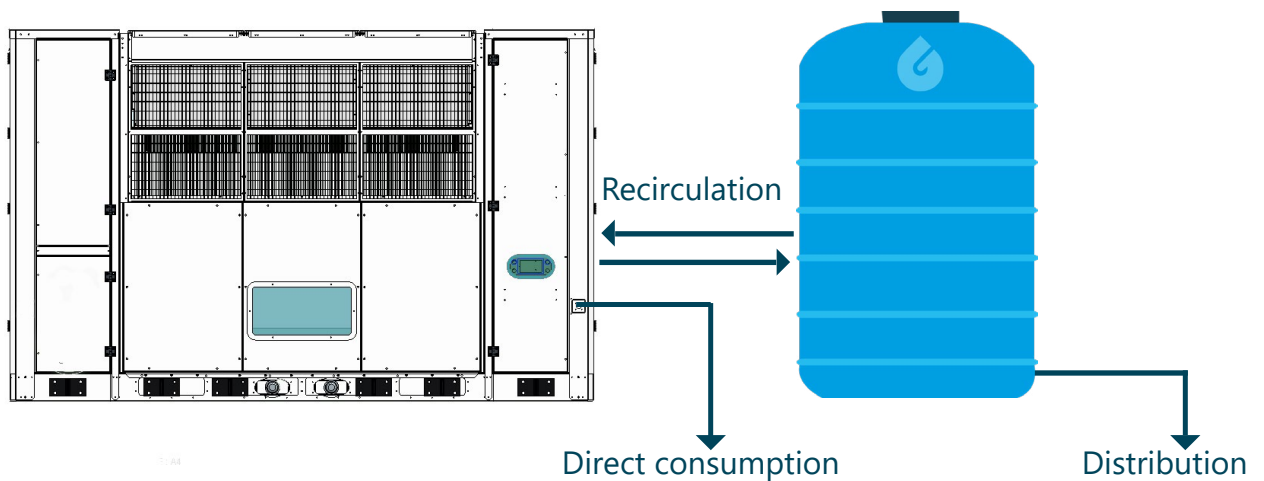
Automatic

- ☑ The generator will store water only in the internal tank.
- ☑ Once full, the generator will empty the tank by pouring the water through the outlet.
- ☑ This mode intended for filling an external tank.
- ☑ However, if water is not chlorinated, it cannot be stored without an additional water treatment.

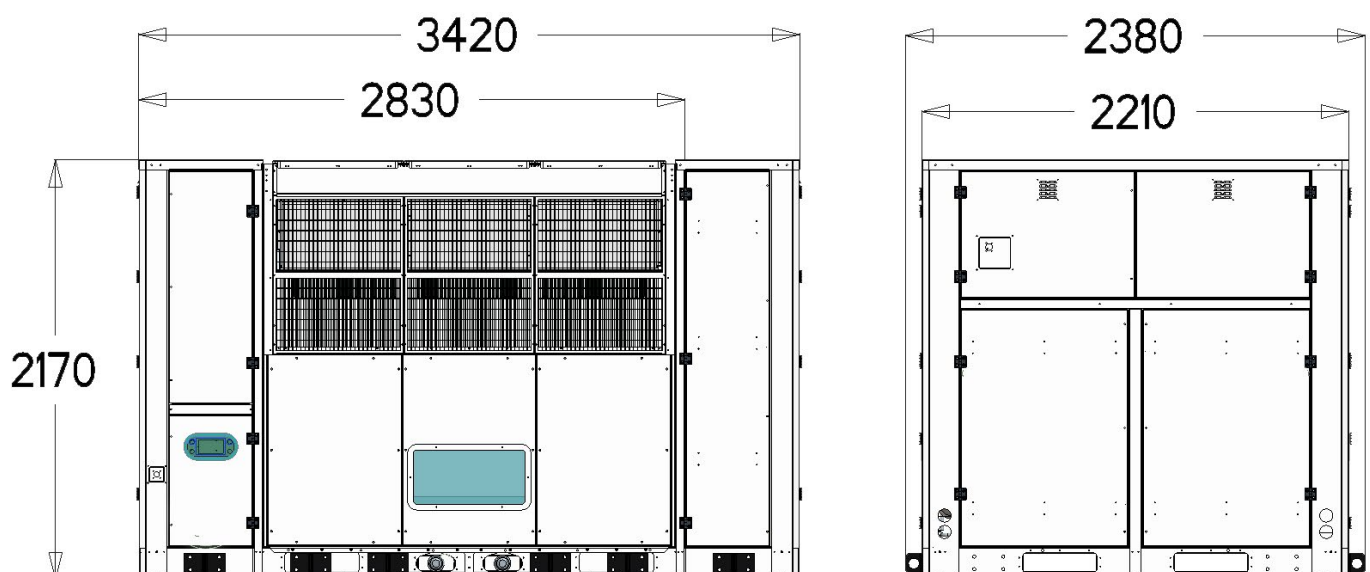


External Tank

- ⚡ The generator will store water in an external tank.
- ⚡ Once the internal tank is full, the generator will empty the tank by pouring the water through the Outlet to Tank.
- ⚡ Water from the external tank is recirculated through sediment filtration and UV.
- ⚡ Water (taken from the external tank) is served at the Outlet though the Water Switch.
- ⚡ This mode intended for filling an external tank with recirculation, preserving it safe.



Dimensions in mm







Genaaq **cumulus** Emergency Response

GENAQ cumulus c50

Description

GENAQ Cumulus C50 is an atmospheric water generator in a Emergency Response format, with a nominal generation capacity of 52 liters/day.

- It is structurally reinforced and includes easy-to carry features to adapt to disaster relief as well as civilian and military camps.
- Its design and weight allows to be carried by two people.
- Several water purification options are available.



Features

Atmospheric Water Generator GENAQ Cumulus C50-2.1	
Version	2.1
Nominal generation, at 30°C and 80% RH (±10%)	52 l/day
Dimensions (Height x Width x Depth)	1050 x 390 x 575 mm
Weight	70 kg
Color	Green
Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Power Supply	
Power supply (other voltages available)	230V-I-50Hz
Nominal power	0.7 kW
Plug/Socket	
Refrigerant Circuit	
Refrigerant	R134A
Evaporation coil built in copper tubes and aluminum fins, lacquered with epoxy paint	
Condensation coil built in copper tubes and aluminum fins	
Air Circuit	
Nominal air flow	300 m ³ /h
Fan maximum power	2x40 W
Recordable M5 fine particles air filter and thick particles prefilter	
Hydraulic Circuit	
Food grade low density lineal polyethylene tube	
Nominal water flow	1.8 l/min
Pump maximum power	29 W
Filters: Sediment 5-micron, Activated carbon, Ultrafiltration, Mineralization	
Water tank	12 l
Water preservation by UV lamp and sodium hypochlorite dosing pump (optional)	
Electrical and Control Circuit	
Control	Dixell XW60VS
Electronic control unit with temperature display	
Electrical and control panel with thermal, magnetothermal and differential protection	
Safety, Alarms, Operating and Defrosting Cycles Control	
Safety Devices	
Protection against refrigerant pressure abnormal levels for high and low pressure	
Automatic resetting thermal protections in the compressor and motor fan	
Protection fuses and electrical panel's general grounding	
Operation Limits	
Temperature	10°C to 55°C
Relative Humidity	10% to 100%
Storage Limit	-15°C to 70°C

Options

Power Supply	Color	Chlorine Dosing	Consummables Kit
Soft Starter	Marine Environment	Energy and Water Meter	Spare-parts Kit
Plug/Socket type	Cold and Hot Water	Internet of Things	

Generation (liter per day)

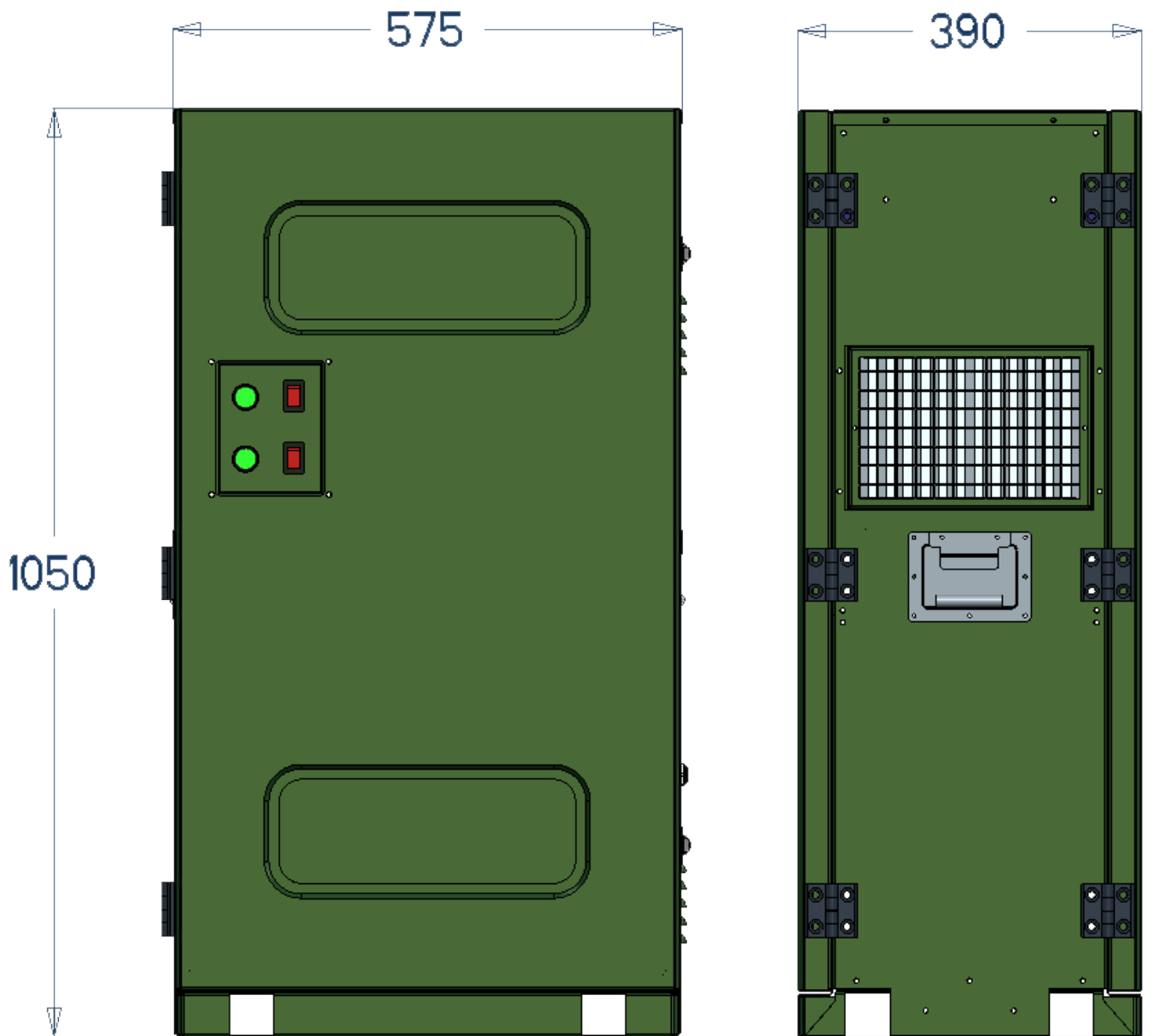
		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	67	64	61	55	45	34	22	13
	90	-	-	67	64	61	54	45	34	21	12
	80	-	71	66	63	59	52	43	32	20	12
	70	71	69	64	60	54	47	37	25	17	10
	60	67	64	59	52	46	39	28	20	12	5.4
	50	60	57	50	43	37	28	21	14	6.7	2.6
	40	47	43	37	29	24	19	14	7.0	2.9	0.9
	30	29	27	23	18	15	11	5.7	2.6	0.9	0.5
	20	16	15	12	7	5.2	2.9	1.5	0.5	-	-
	10	6.1	5.5	3.3	2.1	1.1	0.5	-	-	-	-

Data measured in Climate Chamber and audited and certified by TÜV Rheinland. Generation may be affected by factors such as height (-5.5% approx. every 500m), filter cleaning, wind, etc.

Consumption (kWh per liter)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	0.32	0.34	0.35	0.39	0.43	0.48	0.67	0.85
	90	-	-	0.32	0.34	0.36	0.40	0.43	0.49	0.67	0.85
	80	-	0.31	0.32	0.34	0.37	0.42	0.44	0.50	0.70	0.88
	70	0.30	0.31	0.34	0.36	0.40	0.45	0.47	0.58	0.76	0.97
	60	0.32	0.34	0.37	0.41	0.47	0.49	0.59	0.74	0.88	1.45
	50	0.36	0.38	0.44	0.51	0.54	0.64	0.69	0.88	1.35	2.30
	40	0.46	0.50	0.57	0.66	0.73	0.78	0.96	1.41	2.25	4.07
	30	0.68	0.71	0.81	0.88	1.06	1.17	1.67	2.56	4.25	5.38
	20	0.97	1.00	1.25	1.76	2.00	2.81	3.61	6.11	-	-
	10	1.99	2.09	2.93	3.68	4.79	7.03	-	-	-	-

Dimensions in mm



Description

GENAQ Cumulus C500 is an atmospheric water generator in a Emergency Response format, with a nominal generation capacity of 573 liters/day.

- It is structurally reinforced and includes easy-to carry features to adapt to disaster relief as well as civilian and military camps.
- Its design with wheels allows to be displaced by one person.
- It has been optimized to maximize the water generation and can operate under extreme environmental conditions up to 55°C.
- Compatible with external tank, maintaining its water safe thanks to the integrated recirculation mode.
- Several water purification options are available.



Features

Atmospheric Water Generator GENAQ Cumulus C500-3.3	
Version	3.3
Nominal generation, at 30°C and 80% RH (±10%)	573 l/day
Dimensions (Height x Width x Depth)	1110 x 1095 x 1300 mm
Weight	370 kg
Color	Green
Manufactured in galvanized steel sheet structure and aluminum body, with polyester paint of high resistance to corrosion	
Power Supply	
Power supply (other voltages available)	400V-III-50Hz
Nominal power	4.7 kW
Plug/Socket	32A 5-pin Socket
Refrigerant Circuit	
Refrigerant	R134A
Evaporation coil built in copper tubes and aluminum fins, lacquered with epoxy paint	
Condensation coil built in copper tubes and aluminum fins	
Air Circuit	
Nominal air flow	2000 m ³ /h
Fan maximum power	500 W
Recordable M5 fine particles air filter and thick particles prefilter	
Hydraulic Circuit	
Food grade low density lineal polyethylene tube	
Nominal water flow	11 l/min
Pump maximum power	10 W
Filters: Sediment 5-micron, Activated carbon, Ultrafiltration, Mineralization	
Water tank	15 l
Water preservation by UV lamp and sodium hypochlorite dosing pump (optional)	
Electrical and Control Circuit	
Control	IPG208D-10021 DIXEL
Electronic control unit with temperature display and ambient relative humidity	
Electrical and control panel with thermal, magnetothermal and differential protection	
Safety, Alarms, Operating and Defrosting Cycles Control	
Internet of Things	
Safety Devices	
Protection against refrigerant pressure abnormal levels for high and low pressure	
Automatic resetting thermal protections in the compressor and motor fan	
Protection fuses and electrical panel's general grounding	
Operation Limits	
Temperature	10°C to 55°C
Relative Humidity	10% to 100%
Storage Limit	-15°C to 70°C

Options

Power Supply	Color	Chlorine Dosing
Soft Starter	Marine Environment	Consummables Kit
Plug/Socket type	Cold and Hot Water	Spare-parts Kit

Generation (liter per day)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	846	803	754	700	639	473	248	134
	90	-	-	807	759	705	644	577	419	219	119
	80	-	802	756	702	641	573	497	350	182	100
	70	799	754	701	638	567	487	399	263	134	72
	60	758	707	645	574	493	403	287	159	86	43
	50	716	660	593	516	427	311	207	95	48	20
	40	620	568	507	436	337	251	139	60	26	7.1
	30	422	385	304	235	151	101	54	27	7.6	4.1
	20	224	205	145	104	67	39	18	4.9	-	-
	10	94	83	59	35	17	6.6	-	-	-	-

Data measured in Climate Chamber and audited and certified by TÜV Rheinland. Generation may be affected by factors such as height (-5.5% approx. every 500m), filter cleaning, wind, etc.

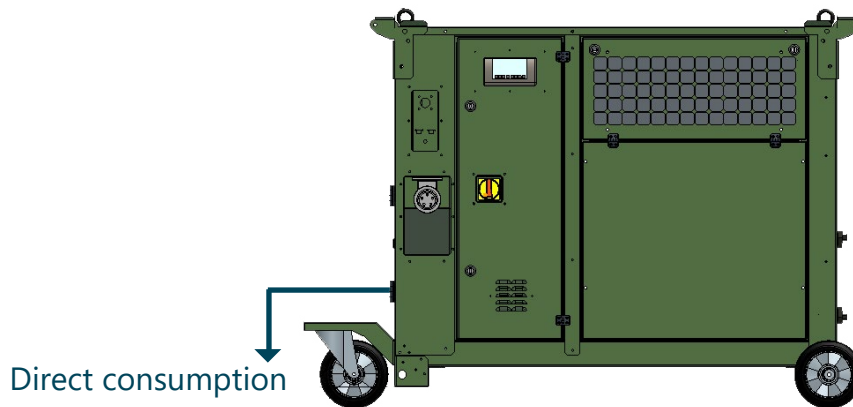
Consumption (kWh per liter)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	0.18	0.19	0.20	0.22	0.21	0.25	0.40	0.56
	90	-	-	0.19	0.20	0.21	0.23	0.23	0.28	0.45	0.62
	80	-	0.19	0.20	0.22	0.24	0.26	0.26	0.32	0.53	0.72
	70	0.19	0.20	0.22	0.24	0.27	0.30	0.31	0.40	0.66	0.91
	60	0.20	0.21	0.23	0.26	0.31	0.34	0.41	0.65	0.89	1.28
	50	0.21	0.23	0.25	0.29	0.32	0.40	0.49	0.93	1.33	2.05
	40	0.24	0.27	0.30	0.31	0.37	0.42	0.67	1.15	1.76	3.45
	30	0.28	0.29	0.35	0.40	0.59	0.73	0.98	1.46	2.78	3.80
	20	0.49	0.52	0.73	0.87	1.08	1.43	2.13	4.17	-	-
	10	0.91	0.97	1.16	1.52	2.18	3.58	-	-	-	-

Working Modes

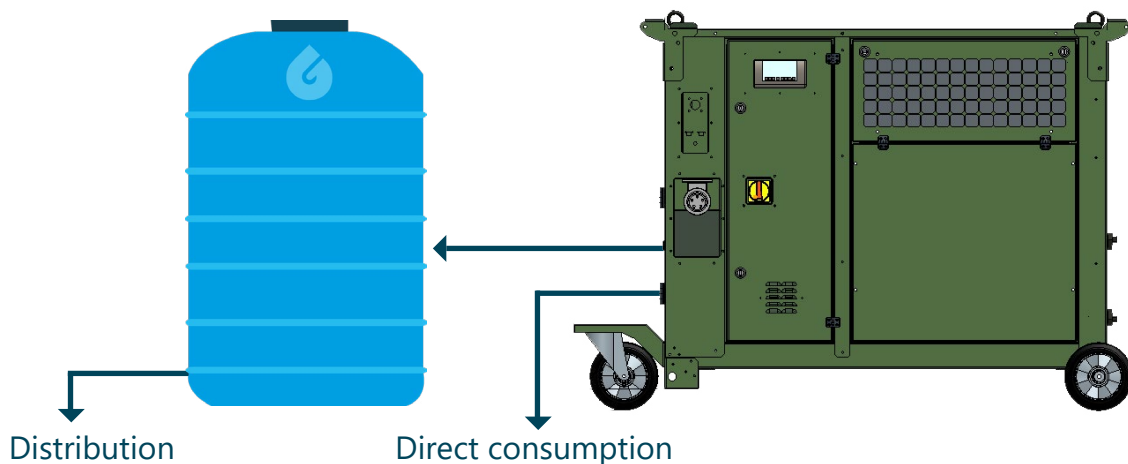
Manual

- ⦿ The generator will store water only in the internal tank.
- ⦿ Once full, the generator stops.
- ⦿ Water is served at the Outlet through the Water Switch.
- ⦿ This mode intended for demonstration purposes.



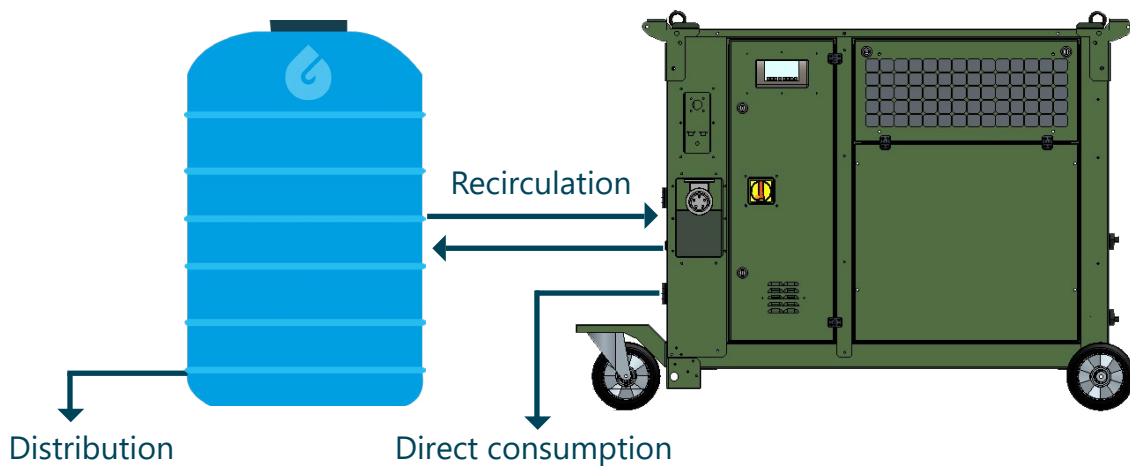
Automatic

- ⦿ The generator will store water only in the internal tank.
- ⦿ Once full, the generator will empty the tank by pouring the water through the outlet.
- ⦿ This mode intended for filling an external tank.
- ⦿ However, if water is not chlorinated, it cannot be stored without an additional water treatment.

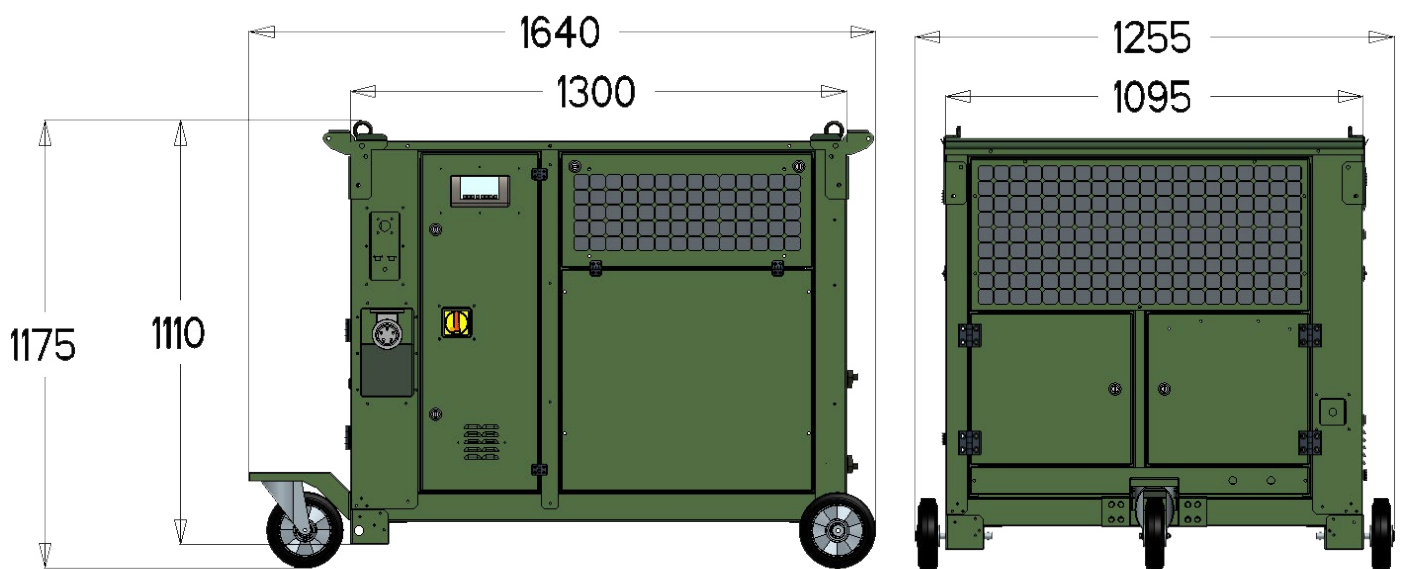


External Tank

- The generator will store water in an external tank.
- Once the internal tank is full, the generator will empty the tank by pouring the water through the Outlet to Tank.
- Water from the external tank is recirculated through sediment filtration and UV.
- Water (taken from the external tank) is served at the Outlet though the Water Switch.
- This mode intended for filling an external tank with recirculation, preserving it safe.



Dimensions in mm

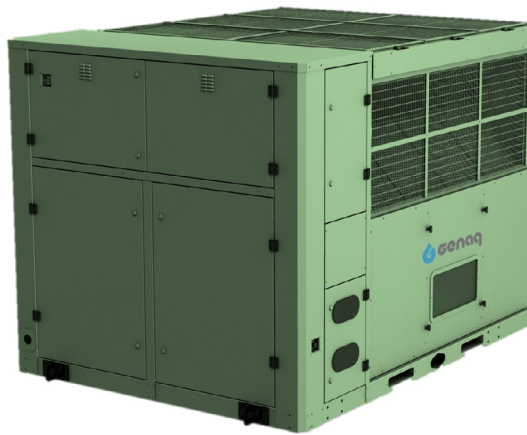


GENAQ cumulus c5000

Description

GENAQ Cumulus C5000 is an atmospheric water generator in a Emergency Response format, with a nominal generation capacity of 5192 liters/day.

- It has been optimized to maximize the water generation, to ensure reliability thanks to its double refrigeration circuit, and can operate under extreme environmental conditions up to 55°C.
- Several water purification options are available.



- It can be integrated with a 2000-liter tank, a Power Unit (genset) and an Adapted 20ft Container to allow easy transportation (including marine) and quick deployment, being an ideal solution for disaster relief and civilian and military camps.



Features

Atmospheric Water Generator GENAQ Cumulus C5000-3.1	
Version	3.1
Nominal generation, at 30°C and 80% RH (±10%)	5192 l/day
Dimensions (Height x Width x Depth)	2170 x 2210 x 3420 mm
Weight	2200 kg
Color	Green
Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Power Supply	
Power supply (other voltages available)	400V-III-50Hz
Nominal power	50 kW
Plug/Socket	Direct Connection (3x25mm)
Refrigerant Circuit	
Refrigerant	R134A
Evaporation coil built in copper tubes and aluminum fins, lacquered with epoxy paint	
Condensation coil built in copper tubes and aluminum fins	
Air Circuit	
Nominal air flow	22000 m3/h
Fan maximum power	3 x 2600 W
Recordable M5 fine particles air filter and thick particles prefilter	
Hydraulic Circuit	
Food grade low density lineal polyethylene tube	
Nominal water flow	25 l/min
Pump maximum power	0.75 kW
Filters: Sediment (Three steps), Activated carbon, Mineralization	
Water tank	120 l
Water preservation by UV lamp and sodium hypochlorite dosing pump (optional)	
Electrical and Control Circuit	
Control	IPG215D-12100 DIXEL
Electronic control unit with temperature display and ambient relative humidity	
Electrical and control panel with thermal, magnetothermal and differential protection	
Safety, Alarms, Operating and Defrosting Cycles Control	
Internet of Things	
Safety Devices	
Protection against refrigerant pressure abnormal levels for high and low pressure	
Automatic resetting thermal protections in the compressor and motor fan	
Protection fuses and electrical panel's general grounding	
Operation Limits	
Temperature	10°C to 55°C
Relative Humidity	10% to 100%
Storage Limit	-15°C to 70°C

Options

Power Supply	Color	Chlorine Dosing	Power Unit (genset)
Soft Starter	Marine Environment	Consumables Kit	Adapted 20ft Container
Plug/Socket type	Cold and Hot Water	Spare-parts Kit	2000-liter tank

Generation (liter per day)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	7363	7080	6507	5525	4374	2734	1399	631
	90	-	-	7267	6983	6397	5420	4254	2659	1363	623
	80	-	7347	7167	6862	6193	5192	3769	2463	1262	589
	70	7514	7310	7052	6651	5771	4633	3257	2085	1045	482
	60	7585	7235	6821	6064	5117	4010	2611	1432	778	339
	50	7413	6905	6096	5181	4204	2875	1909	1002	508	193
	40	6401	5719	4805	3720	2754	1913	1072	593	262	64
	30	4375	3783	3007	2246	1402	917	534	255	75	37
	20	2294	1985	1336	928	593	341	162	46	-	-
	10	788	672	462	269	132	51	-	-	-	-

Data measured in Climate Chamber and audited and certified by TÜV Rheinland. Generation may be affected by factors such as height (-5.5% approx. every 500m), filter cleaning, wind, etc.

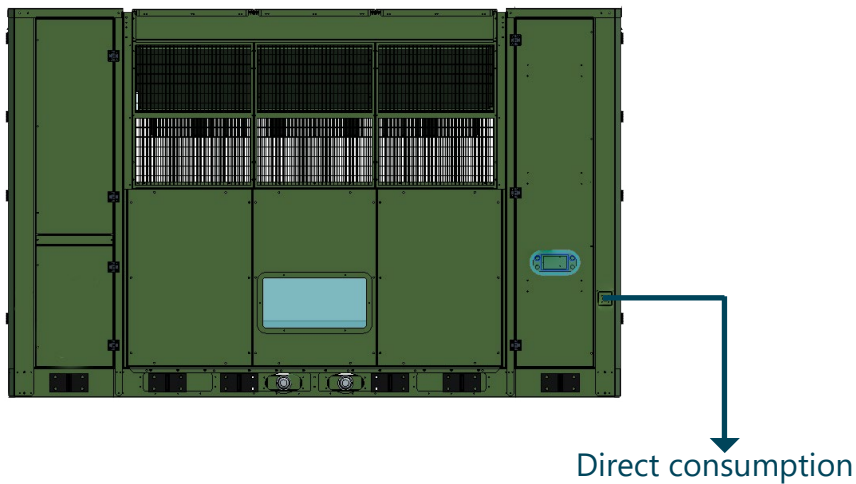
Consumption (kWh per liter)

		Temperature (°C)									
		55	50	45	40	35	30	25	20	15	10
Relative Humidity (%)	100	-	-	0.23	0.24	0.26	0.30	0.34	0.47	0.80	1.31
	90	-	-	0.23	0.24	0.26	0.31	0.35	0.48	0.81	1.32
	80	-	0.23	0.23	0.24	0.27	0.32	0.39	0.51	0.85	1.36
	70	0.22	0.23	0.24	0.25	0.29	0.35	0.42	0.55	0.94	1.51
	60	0.22	0.23	0.25	0.28	0.33	0.38	0.50	0.80	1.10	1.81
	50	0.23	0.24	0.28	0.32	0.37	0.49	0.60	0.98	1.38	2.42
	40	0.26	0.29	0.35	0.40	0.50	0.61	0.96	1.29	1.96	4.28
	30	0.35	0.39	0.47	0.56	0.85	1.07	1.40	2.02	3.77	5.65
	20	0.54	0.59	0.88	1.08	1.37	1.83	2.64	4.99	-	-
	10	1.21	1.34	1.65	2.19	3.17	5.19	-	-	-	-

Working Modes

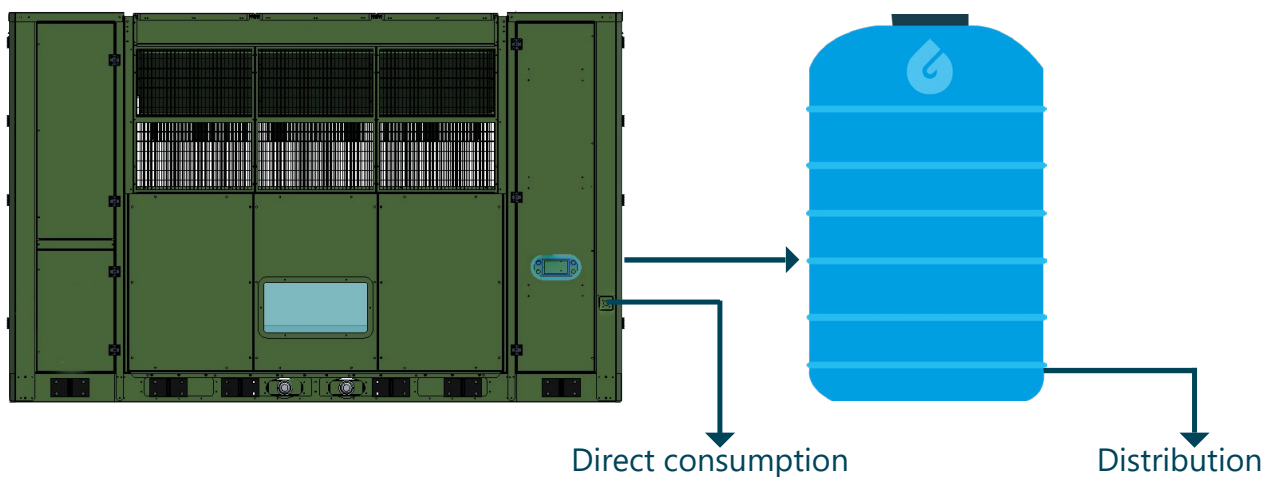
Manual

- ⚡ The generator will store water only in the internal tank.
- ⚡ Once full, the generator stops.
- ⚡ Water is served at the Outlet through the Water Switch.
- ⚡ This mode intended for demonstration purposes.



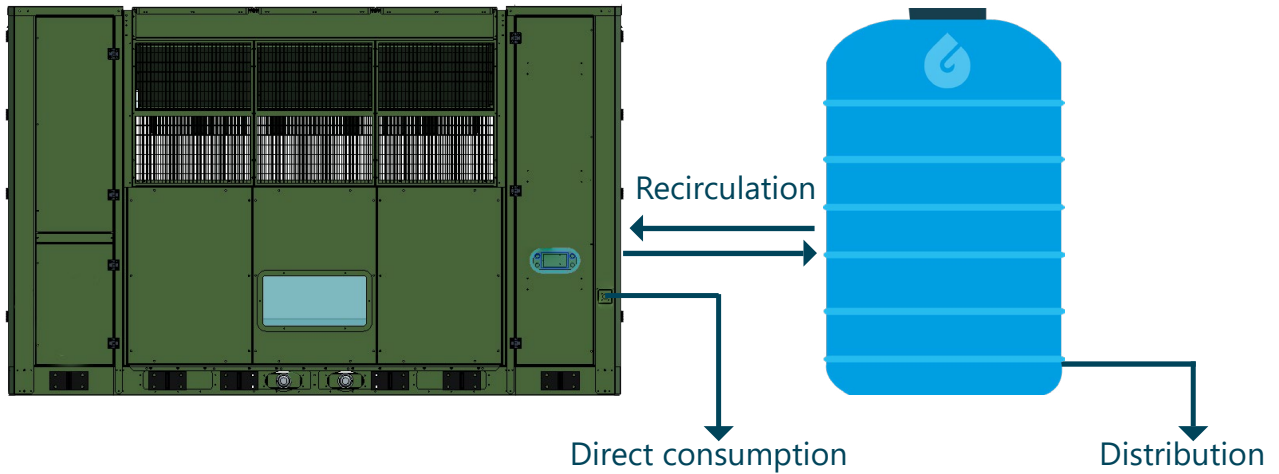
Automatic

- ⚡ The generator will store water only in the internal tank.
- ⚡ Once full, the generator will empty the tank by pouring the water through the outlet.
- ⚡ This mode intended for filling an external tank.
- ⚡ However, if water is not chlorinated, it cannot be stored without an additional water treatment.



External Tank

- Water (from the external tank) is served at the Outlet through the Water Switch.
- This mode intended for filling a tank with recirculation, preserving it safe.



Dimensions in mm





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