

CUMULUS by GENAQ

GENAQ Cumulus generators are designed with reinforced structure and portability features, to supply high-quality drinking water.

Become independent from any uncontrolled water source and ensure your drinking water availability in any situation.

APPLICATIONS

- Disaster relief
- Humanitarian aid
- Civilian camps
- Military camps
- Development aid
- Others









Cumulus C50

by GENAQ

52 liters per day

0.9 kW

0.42 kWh/liter

Compact and portable



Pure Water

Sustainability

Efficiency

Plug & Drink

Autonomy

Generation (liters per day)

Relative Humidity (%)	Temperature (°C) 45	40	35	30	25	20	15	10
100	55	55	58	57	36	28	22	17
90	54	54	56	56	37	29	23	15
80	53	53	55	52	38	29	23	12
70	51	49	47	44	32	25	19	9
60	42	42	41	36	28	22	12	
50	31	29	28	26	20	17	8	
40	21	19	19	16	14	9		
30	17	14	13	11	9			
20	13	12	12	8				

Consumption (kWh per liter)

Relative Humidity (%)	Temperature (°C) 45	40	35	30	25	20	15	10
100	0.55	0.52	0.48	0.44	0.54	0.60	0.64	0.67
90	0.53	0.51	0.47	0.43	0.53	0.57	0.62	0.67
80	0.52	0.49	0.46	0.42	0.49	0.55	0.61	0.80
70	0.52	0.51	0.51	0.48	0.55	0.59	0.67	1.06
60	0.60	0.57	0.55	0.53	0.61	0.67	0.89	
50	0.77	0.74	0.70	0.68	0.72	0.74	1.07	
40	1.01	0.99	0.95	0.92	0.92	1.06		
30	1.16	1.16	1.16	1.11	1.05			
20	1.30	1.30	1.30	1.30				

Data measured in Climate Chamber, audited and certified.
Generation may be affected by factors such as altitude, filter cleaning, wind, etc.

Features

GENAQ Cumulus C50	Version	2.1
	Dimensions (Height x Width x Depth)	1050 x 390 x 575 mm
	Weight	70 kg
	Dimensions with reinforced packaging (Height x Width x Depth)	1400 x 550 x 750 mm
	Weight with reinforced packaging	106 kg
	Color	Green
	Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Performance	Nominal Generation, at 30 °C and 80 % RH (±10 %)	52 l/day
	Nominal consumption per liter, at 30 °C and 80 % RH (±10 %)	0.42 kWh/l
	Specific generation, at 23 °C and 60 % RH (±10 %)	26 l/day
	Specific consumption per liter, at 23 °C and 60 % RH (±10 %)	0.6 kWh/l
	Pressure sound level at 1m	72.7 dB (A)
Power Supply	Power Supply (Other Voltages Available)	230V-I-50Hz
	Nominal Power	1 kW
	Specific power	0.8 kW
	Plug/Socket	Type F
Refrigerant Circuit	Refrigerant	R134a
	Evaporation coil built in copper tubes and aluminum fins	
	Condensation coil built in copper tubes and aluminum fins	
Air Circuit	Nominal Air Flow	F1: 150 m^3/h ; F2: 150 m^3/h
	Air Prefilter	No
	Air Filter	M5 air filter
Hydraulic Circuit	Food grade low density lineal polyethylene tube	
	Nominal Water Flow	1 l/min
	Internal Water Storage	9 l
	External Water Tank Compatibility	No
	Water Treatment	Sediment Filter, Activated Carbon Filter, Ultrafiltration Filter, Zeolite Filter, Mineralization Filter and UV lamp
Control and Electrical Circuit	Control	Emerson DCS, Dixell XW60VS
	Display	Operation indicators and access via internal display
	IoT	No
	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	
Limits	Temperature Limits	10 °C to 45 °C
	Relative Humidity Limits	10 % to 100 %
	Storage Limit	-15 °C to 70 °C
Optional	Alternative Power Supply	Alternative Color
	Marine Environment	Solar Compatibility
	Consumables Kit	Spare Parts Kit
	Plug/Socket Type	Frequency Variator

CUMULUS C500

by GENAQ

502 liters per day

5.5 kW

0.26 kWh/liter

External tank compatible



Pure Water

Sustainability

Efficiency

Plug & Drink

Autonomy

Generation (liters per day)

Relative Humidity (%)	Temperature (°C)							
	45	40	35	30	25	20	15	10
100	451	462	492	518	364	281	227	165
90	436	454	483	509	361	288	225	165
80	429	446	475	502	366	280	218	120
70	398	422	415	427	308	243	183	86
60	360	373	379	351	267	215	119	
50	254	275	264	247	190	160	79	
40	179	177	169	149	132	85		
30	124	121	115	99	79			
20	98	93	86	76				

Consumption (kWh per liter)

Relative Humidity (%)	Temperature (°C)							
	45	40	35	30	25	20	15	10
100	0.33	0.31	0.29	0.26	0.32	0.36	0.38	0.45
90	0.33	0.31	0.29	0.26	0.32	0.35	0.38	0.45
80	0.33	0.31	0.29	0.26	0.31	0.35	0.38	0.56
70	0.35	0.32	0.32	0.30	0.35	0.37	0.42	0.70
60	0.38	0.36	0.35	0.34	0.38	0.42	0.56	
50	0.52	0.48	0.46	0.44	0.47	0.48	0.70	
40	0.67	0.66	0.64	0.61	0.61	0.71		
30	0.83	0.82	0.82	0.78	0.74			
20	0.98	0.98	0.98	0.95				

Data measured in Climate Chamber, audited and certified.
Generation may be affected by factors such as altitude, filter cleaning, wind, etc.

Features

GENAQ Cumulus C500	Version	3.4
	Dimensions (Height x Width x Depth)	1110 x 1095 x 1300 mm
	Weight	337 kg
	Dimensions with reinforced packaging (Height x Width x Depth)	1575 x 1240 x 1550 mm
	Weight with reinforced packaging	430 kg
	Color	Green
	Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Performance	Nominal Generation, at 30 °C and 80 % RH (±10 %)	502 l/day
	Nominal consumption per liter, at 30 °C and 80 % RH (±10 %)	0.26 kWh/l
	Specific generation, at 23 °C and 60 % RH (±10 %)	246 l/day
	Specific consumption per liter, at 23 °C and 60 % RH (±10 %)	0.4 kWh/l
	Pressure sound level at 1m	74 dB (A)
Power Supply	Power Supply (Other Voltages Available)	400V-III-50Hz
	Nominal Power	5.5 kW
	Specific power	4.3 kW
	Plug/Socket	32A 5-pin Socket
Refrigerant Circuit	Refrigerant	R134a
	Evaporation coil built in copper tubes and aluminum fins	
	Condensation coil built in copper tubes and aluminum fins	
Air Circuit	Nominal Air Flow	2000 m^3/h
	Air Prefilter	60 ppi prefilter
	Air Filter	F7 air filter
Hydraulic Circuit	Food grade low density lineal polyethylene tube	
	Nominal Water Flow	P1: 7.6 l/min ; P2: 7.6 l/min
	Internal Water Storage	14 l
	External Water Tank Compatibility	Maximum 600 l with recirculation
	Water Treatment	Sediment Prefilter, Sediment Filter, Activated Carbon Filter, Ultrafiltration Filter, Zeolite Filter, Mineralization Filter and UV lamp
Control and Electrical Circuit	Control	Emerson PLC, Dixell IPG208D-10021
	Display	VGIPG VISOGRAPH
	IoT	Included: Remote control via Ethernet, WIFI or M2M
	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	
Limits	Temperature Limits	10 °C to 45 °C
	Relative Humidity Limits	10 % to 100 %
	Storage Limit	-15 °C to 70 °C
Optional	Alternative Power Supply	Alternative Color
	Marine Environment	Solar Compatibility
	Consumables Kit	Spare Parts Kit
	Soft Starter	Chlorine Dosing Pump
	Frequency Variator	

CUMULUS C5000

by GENAQ



5091 liters per day

0.26 kWh/liter

55.2 kW

External tank compatible

Pure Water

Sustainability

Efficiency

Plug & Drink

Autonomy

Generation (liters per day)

Relative Humidity (%)	Temperature (°C)							
	45	40	35	30	25	20	15	10
100	4411	4513	4741	4848	3305	2552	2063	1471
90	4400	4544	4769	4867	3411	2721	2126	1462
80	4655	4769	5000	5091	3739	2859	2229	1143
70	4376	4444	4296	4368	3150	2485	1870	727
60	3789	3867	3862	3585	2726	2195	1215	
50	2486	2585	2495	2328	1793	1505	744	
40	1773	1671	1597	1406	1245	800		
30	1295	1137	1085	932	742			
20	989	841	683	526				

Consumption (kWh per liter)

Relative Humidity (%)	Temperature (°C)							
	45	40	35	30	25	20	15	10
100	0.37	0.35	0.32	0.30	0.36	0.41	0.43	0.45
90	0.36	0.34	0.31	0.29	0.35	0.38	0.42	0.45
80	0.33	0.31	0.29	0.26	0.31	0.35	0.38	0.56
70	0.34	0.32	0.32	0.30	0.35	0.37	0.42	0.80
60	0.38	0.36	0.35	0.34	0.38	0.42	0.56	
50	0.56	0.52	0.49	0.48	0.51	0.52	0.75	
40	0.75	0.72	0.69	0.66	0.66	0.77		
30	0.88	0.88	0.88	0.85	0.81			
20	0.95	0.95	0.95	0.95				

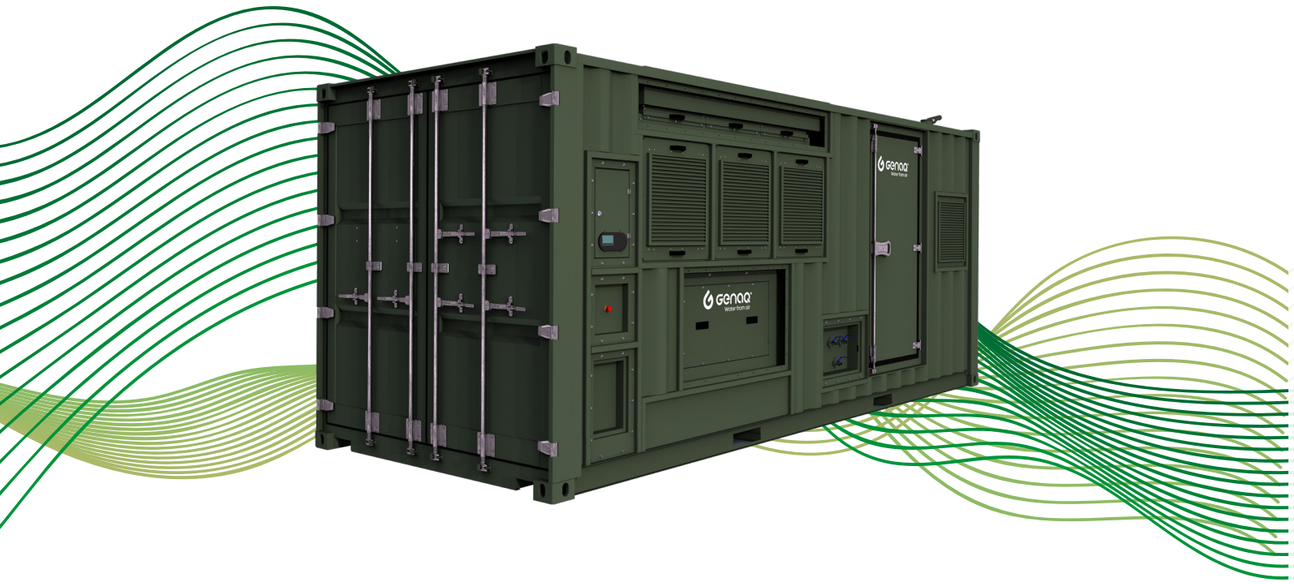
Data measured in Climate Chamber, audited and certified.
Generation may be affected by factors such as altitude, filter cleaning, wind, etc.

Features

GENAQ Cumulus C5000	Version	4.1
	Dimensions (Height x Width x Depth)	2190 x 2310 x 4790 mm
	Weight	5800 kg
	Dimensions with reinforced packaging (Height x Width x Depth)	No
	Weight with reinforced packaging	No
	Color	Green
	Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Performance	Nominal Generation, at 30 °C and 80 % RH (±10 %)	5091 l/day
	Nominal consumption per liter, at 30 °C and 80 % RH (±10 %)	0.26 kWh/l
	Specific generation, at 23 °C and 60 % RH (±10 %)	2726 l/day
	Specific consumption per liter, at 23 °C and 60 % RH (±10 %)	0.38 kWh/l
	Pressure sound level at 1m	74 dB (A)
Power Supply	Power Supply (Other Voltages Available)	400V-III-50Hz
	Nominal Power	55.2 kW
	Specific power	43.2 kW
	Plug/Socket	Direct Connection (3x70 + N + T mm2)
Refrigerant Circuit	Refrigerant	R134a
	Evaporation coil built in copper tubes and aluminum fins	
	Condensation coil built in copper tubes and aluminum fins	
Air Circuit	Nominal Air Flow	F1: 7000 m^3/h ; F2: 7000 m^3/h ; F3: 7000 m^3/h
	Air Prefilter	60 ppi prefilter
	Air Filter	F7 air filter
Hydraulic Circuit	Food grade low density lineal polyethylene tube	
	Nominal Water Flow	P1: 25 l/min ; P2: 25 l/min
	Internal Water Storage	120 l
	External Water Tank Compatibility	Maximum 2000 l with recirculation
	Water Treatment	Sediment Filter (three steps), Activated Carbon, Zeolite, Mineralization, Chlorine Dosing and UV lamp
Control and Electrical Circuit	Control	Emerson PLC, Dixell IPG215D-12100
	Display	VGIPG VISOGRAPH
	IoT	Included: Remote control via Ethernet, WIFI or M2M
	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	
Limits	Temperature Limits	10 °C to 45 °C
	Relative Humidity Limits	10 % to 100 %
	Storage Limit	-15 °C to 70 °C
Optional	Alternative Power Supply	Alternative Color
	Marine Environment	Solar Compatibility
	Consumables Kit	Spare Parts Kit
	20ft Container Adaptation	Power Unit
	Frequency Variator	

CUMULUS C5000-CO

by GENAQ



5091 liters per day

55.2 kW

20ft integrated solution

0.26 kWh/liter

Integrated generator set option

Internal tank of 2000 L

Pure Water

Sustainability

Efficiency

Plug & Drink

Autonomy

Generation (liters per day)

Relative Humidity (%) \ Temperature (°C)	45	40	35	30	25	20	15	10
100	4411	4513	4741	4848	3305	2552	2063	1471
90	4400	4544	4769	4867	3411	2721	2126	1462
80	4655	4769	5000	5091	3739	2859	2229	1143
70	4376	4444	4296	4368	3150	2485	1870	727
60	3789	3867	3862	3585	2726	2195	1215	
50	2486	2585	2495	2328	1793	1505	744	
40	1773	1671	1597	1406	1245	800		
30	1295	1137	1085	932	742			
20	989	841	683	526				

Consumption (kWh per liter)

Relative Humidity (%) \ Temperature (°C)	45	40	35	30	25	20	15	10
100	0.37	0.35	0.32	0.30	0.36	0.41	0.43	0.45
90	0.36	0.34	0.31	0.29	0.35	0.38	0.42	0.45
80	0.33	0.31	0.29	0.26	0.31	0.35	0.38	0.56
70	0.34	0.32	0.32	0.30	0.35	0.37	0.42	0.80
60	0.38	0.36	0.35	0.34	0.38	0.42	0.56	
50	0.56	0.52	0.49	0.48	0.51	0.52	0.75	
40	0.75	0.72	0.69	0.66	0.66	0.77		
30	0.88	0.88	0.88	0.85	0.81			
20	0.95	0.95	0.95	0.95				

Data measured in Climate Chamber, audited and certified.
Generation may be affected by factors such as altitude, filter cleaning, wind, etc.

Features

GENAQ Cumulus C5000	Version	4.1-CO
	Dimensions (Height x Width x Depth)	2600 x 2240 x 6060 mm (20ft container)
	Weight	Containerized generator: 8000 kg With PU optional: 10000 kg
	Dimensions with reinforced packaging (Height x Width x Depth)	No
	Weight with reinforced packaging	No
	Color	Green
	Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
Performance	Nominal Generation, at 30 °C and 80 % RH (±10 %)	5091 l/day
	Nominal consumption per liter, at 30 °C and 80 % RH (±10 %)	0.26 kWh/l
	Specific generation, at 23 °C and 60 % RH (±10 %)	2726 l/day
	Specific consumption per liter, at 23 °C and 60 % RH (±10 %)	0.38 kWh/l
	Pressure sound level at 1m	74 dB(A)
Power Supply	Power Supply (Other Voltages Available)	400V-III-50Hz
	Nominal Power	55.2 kW
	Specific power	43.2 kW
	Plug/Socket	Direct Connection (3 x 70 + N + T mm^2)
Refrigerant Circuit	Refrigerant	R134a
	Evaporation coil built in copper tubes and aluminum fins	
	Condensation coil built in copper tubes and aluminum fins	
Air Circuit	Nominal Air Flow	F1: 7000 m^3/h ; F2: 7000 m^3/h ; F3: 7000 m^3/h
	Air Prefilter	60 ppi prefilter
	Air Filter	F7 air filter
Hydraulic Circuit	Food grade low density lineal polyethylene tube	
	Nominal Water Flow	P1: 25 l/min ; P2: 25 l/min
	Internal Water Storage	120 l
	External Water Tank Compatibility	Maximum 2000 l with recirculation
	Water Treatment	Sediment Filter (three steps), Activated Carbon, Zeolite, Mineralization, Chlorine Dosing and UV lamp
Control and Electrical Circuit	Control	Emerson PLC, Dixell IPG215D-12100
	Display	VGIPG VISOGRAPH
	IoT	Included: Remote control via Ethernet, WIFI or M2M
	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	
Limits	Temperature Limits	10 °C to 45 °C
	Relative Humidity Limits	10 % to 100 %
	Storage Limit	-15 °C to 70 °C
Optional	Alternative Power Supply	Alternative Color
	Marine Environment	Solar Compatibility
	Consumables Kit	Spare Parts Kit
	Integrated Power Unit	Frequency Variator