

Changing Lives Globally Through Water Technology

WGS-900 Atmospheric Water Harvester

Thorough Three-Stage Water Treatment esh, completely safe drinking water where might not otherwise be available. Utilizing Thorough Three-Stage Water Treatment First, a sediment filter removes sand, dirt, silt, rust, and scale particles from the water.

 Second, a powder-activated carbon filter removes turbidity, particulates, colloidal suspensions, trace toxic organics and endocrine disrupters.

 Third and finally, an ultraviolet (UV) tube eliminates remaining pathogens, viruses and molds, resulting in fresh drinking water ready for immediate consumption.

Simple Controls for Simple Operation

One switch turns on the unit; another switch turns on the water dispensing system. Two hourly use meters and a UV light indicator tell you when the unit needs maintenance.

Easy Installation

All that is needed for a basic installation is to simply connect the electrical power, level the unit, and hook up a water line to the built-in hose bibb for fresh, potable water.

Split Condensers for Higher Efficiency

By utilizing a primary and secondary condenser with a common fan, the unit maintains low condensing temperatures, resulting in greater efficiency with fewer components.

Passive Heat Recovery Uses Less Energy

A pre-cooling section on the evaporator inlet and a re-heat section on the outlet increases the water produced without using additional energy.

Variable Speed Drive for Changes in Weather

A variable-speed drive on the scroll compressor improves reactions to changes in ambient temperatures, saving significant amounts of energy at low temperatures.

ECBlue Motor Beats Other AC Motors

The exhaust fan's ECBlue Motor Technology means greater efficiency versus typical AC motors.

Electrical Components Protected From Heat

To prevent overheating, the unit naturally cools the electronics with a thermostat-actuated ventilation fan and conditioned air.

Durable Construction for All Environments

The enclosure's zinc-coated steel and powder coat finish is specifically engineered for use in harsh outdoor conditions.

Easy Servicing and Maintenance

Four large access doors can be easily removed for improved serviceability and access.

The WGS-900 Water Harvester provides fresh, completely safe drinking water where it might not otherwise be available. Utilizing proven refrigeration technology and multistage cleaning treatments to condense water vapor from the air, the WGS-900 provides up to 217 gallons per day (823 L/day) of pure, potable water*. It does so at an efficient 0.82 Gal/kWh (3.10 L/kWh) – the best energy factor of all similar products currently on the market.

*At ambient temperature of 80°F (26.7°C) & 60% relative humidity.



WGS-900-Front View



WGS-900-Rear View



Product Data





Certifications / Compliance

Underwriters Laboratory (UL) is an American-based global safety company that provides services such as certification, consulting, auditing, and testing. UL has employees in 44 countries; they maintain 1,507 standards that ensure safe products are provided to the market. The WGS-900 is certified to UL 60335-1 Safety of Household and Similar Appliances with the required modifications for American and Saudi Arabian markets.

SGS is an independent safety certification laboratory that provides testing and certification for global standards. The SGS Safety Mark affixed to this unit ensures that

it complies with all applicable safety standards dictated by UL Standard 60335-1.

The water produced from the unit has been tested and meets the drinking water requirements established by the World Health Organization (WHO), the



Saudi Arabian Standards Organization (SASO), and the Environmental Protection Agency (EPA). Water quality test reports can be found in the Operator's Manual.

Product Specifications

Height	61 in. (155 cm)	Width	71 in. (180 cm)
Length	68 in. (173 cm)	Weight	1,907 lbs. (865 kg)
Operating Range		60°F (15	5.6°C)/40% RH —120°F (48.9°C)/95% RH
Water Connection			3/4" U.S. Male Garden Hose (3/4" BSP)
Voltage	480V/3	3Ph/60Hz, 400V/3F	Ph/60Hz, 415V/3Ph/50Hz, 400V/3Ph/50Hz
Amperage		47	7.5A @ 480V (47.9A @ 400V & 415V) FLA

Product Components – Exterior

Exhaust Fan1
User Interface2
Power On/Off Indicator3
Power On/Off Switch4
UV Alarm Indicator Light5
Water Dispensing Connection6
Total System Hour Meter7
Water System Hour Meter8
Water Dispenser On/Off Indicator9
Water Dispenser On/Off Switch10
Primary Air Intake11
Condensate
Pan Door12



Figure 1



Product Data

WGS-900 Atmospheric Water Harvester

Product Components – Interior 1	
Exhaust Fan	1
Secondary Air Intake	2
Secondary Condenser	3
System Control Panel Cover	4

Primary Condenser	7
Heat Pipe	
UV Filter	
Sediment Filter	10
Carbon-Activated Filter	11
Condensate Pan	12
Dump	



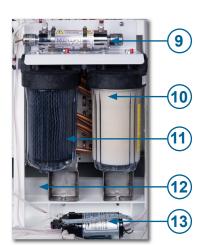
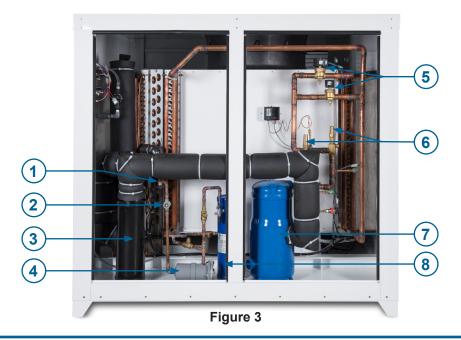


Figure 2

Product Components – Interior 2

Expansion Valve	1
Sight Glass	2
Accumulator	3
Drier Filter	4
Solenoid Valves	5
Angle Isolation/Service Valves	6
Compressor	7
Receiver	8





Product Data

WGS-900 Atmospheric Water Harvester

Performance Data

	120	396	454	510	564	616	666	714	761	805	848	889	927	964	999	1032	500+
	115	342	397	451	502	552	599	645	689	731	771	809	845	879	912	942	400-500
	110	291	343	394	443	490	535	578	619	658	696	731	765	796	826	854	300-400
	105	241	291	339	386	430	472	513	551	588	623	656	687	716	743	768	200-300
	100	195	242	287	331	373	412	450	486	520	553	583	611	638	662	685	100-200
	95	150	195	238	279	318	355	390	424	455	485	512	538	562	584	604	0-100
Ē	90	108	150	190	229	265	300	332	363	392	419	444	467	489	508	526	
Temperature (°F)	85	68	108	145	181	215	247	277	305	332	356	379	399	418	435	450	
ratu	80	31	68	103	136	167	197	224	250	273	295	315	333	349	363	376	
mpe	75	-	30	63	93	122	149	174	197	218	237	254	270	283	295	304	
Ţ	70	-	-	25	53	79	103	125	146	164	181	195	208	219	228	235	
	65	-	-	-	15	38	60	79	97	113	127	139	149	158	164	169	
	60	-	-	-	-	-	19	36	51	64	76	85	93	99	102	104	
	55	-	-	-	-	-	-	,	7	18	27	34	39	42	43	42	
	50	-	-	-	-	-	-		-	-	-	-			-	-	
	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	,	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
							Rela	tive I	Humi	dity (%)						

	г																
4	8.9	1123	1375	1650	1953	2289	2660	3069	3518	4009	4543	5124	5753	6432	7163	7947	1895+
4	6.1	991	1201	1422	1660	1919	2201	2508	2843	3207	3601	4027	4486	4979	5508	6074	1515-1895
4	3.3	876	1060	1244	1435	1639	1856	2091	2343	2615	2907	3221	3558	3918	4303	4713	1135-1515
4	0.6	766	935	1096	1257	1422	1595	1777	1970	2176	2395	2629	2878	3142	3424	3722	760-1135
3	7.8	778	814	964	1106	1247	1389	1535	1687	1846	2014	2190	2377	2573	2781	3000	375-760
3	5.0	512	779	833	967	1088	1218	1341	1465	1593	1724	1861	2003	2152	2308	2471	0-375
3	2.2	317	519	736	825	948	1062	1172	1280	1387	1495	1605	1718	1834	1953	2077	
2	9.4	180	324	489	666	791	905	1011	1111	1352	1301	1395	1488	1582	1678	1776	
2	6.7	90	186	316	440	581	726	823	938	1031	1120	1205	1288	1370	1451	1532	
2	3.9	38	95	176	273	380	493	608	724	839	929	1014	1093	1170	1244	1317	
2	1.1	-	41	89	154	231	316	400	497	589	682	807	881	959	1033	1104	
1	8.3	-	-	39	77	128	188	254	324	396	470	543	617	690	762	865	
1	5.6	=	=	-	-	62	100	145	196	255	308	366	424	483	541	599	
		30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
							Re	lative	Hum	idity	(%)						

WGS-900 Water Production - Liters Per Day

Production in Gallons per Day



CHANGING LIVES GLOBALLY THROUGH WATER TECHNOLOGY

WGS is a product research and development company focused on the global needs of water sustainability and supporting technologies in the domain of atmospheric water harvesting.

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