

AirJoule CORE

Advanced Atmospheric
Water Harvesting System



Water Production	Up to 250L/day (66 gal)
Operating Condition	5°C-50°C ambient temperature, as low as 30%RH
Water Quality	Distilled Water, Remineralized or Purified for a Purpose
Power Requirements	<u>North America:</u> 208 Vac 60Hz 3P+N+G 70A <u>Rest of World:</u> 400 Vac 50Hz 3P+N+G 40A
Power Efficiency Target	Main Unit: 200Wh/L Total with Heat Pump: 800 Wh/L
Avg. Operating Power Consumption	Main Unit: 2kW Total with Heat Pump: 8.5kw
Peak Power Requirement	Main Unit: 4kW Total with Heat Pump: 16.5kW
Dimensions LxWxH	Main Unit: 3.8m X 2.5m X 2.3m
Est. Weight	2300kg Shipping 2700kg Operation with Coolant
Noise Level	60 dBA at a 20ft Distance
Airflow	Up to 3000 CFM exhaust

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Airjoule uses site-specific information to work with customers to understand potential water production and energy demand due to seasonal variation.

AirJoule Core Performance Model
AirJoule Core Water Production (Liters per hour)

		Relative Humidity (%RH)													
		30	35	40	45	50	55	60	65	70	75	80	85	90	95
Temperature (°C)	10	2	3	4	5	6	7	7	8	9	9	10	10	10	11
	15	2	3	4	5	6	7	7	8	9	9	10	10	10	11
	20	3	4	4	5	6	7	8	8	9	10	10	10	11	11
	25	3	4	4	5	6	7	8	8	9	10	10	10	11	11
	30	2	3	4	4	5	6	7	8	8	9	9	10	10	10

AirJoule Core Performance Model
AirJoule Core Electrical Energy Demand (kW)

		Relative Humidity (%RH)													
		30	35	40	45	50	55	60	65	70	75	80	85	90	95
Temperature (°C)	10	1.1	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.6	1.5	1.5
	15	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.4
	20	1.3	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.2
	25	1.2	1.4	1.4	1.4	1.3	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.1
	30	0.9	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4

Contact

If you are interested in learning more about how AirJoule's technology can help you solve your cooling or water challenges, please email us at contact@airjouletech.com or visit our website to contact us!

<https://airjouletech.com>