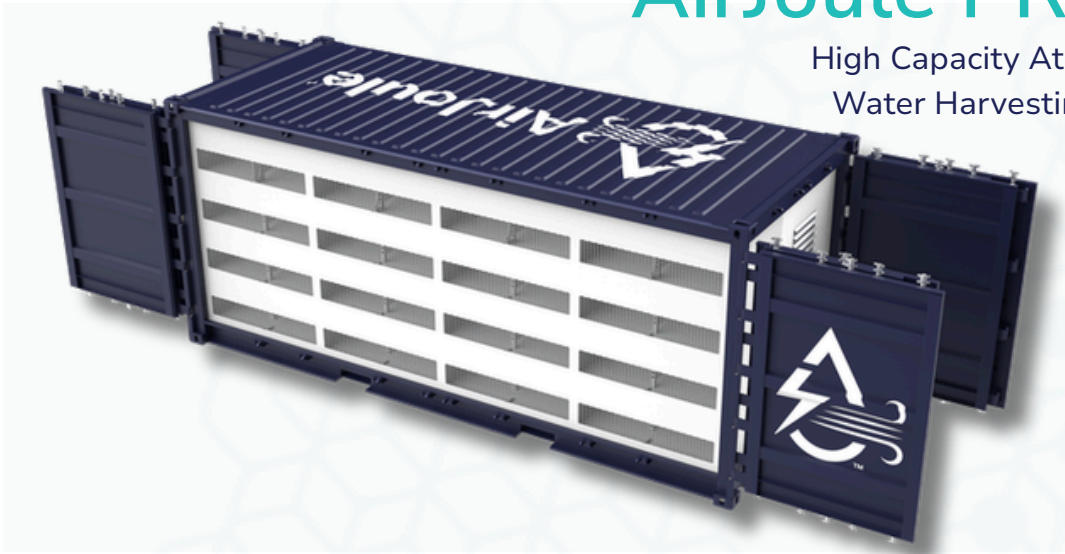


## AirJoule PRIME

High Capacity Atmospheric  
Water Harvesting System



<b>Water Production</b>	Up to 2000L/day (530 gal/day)
<b>Operating Condition</b>	5°C-50°C ambient temperature, as low as 30%RH
<b>Water Quality</b>	Distilled Water, Remineralized or Purified for a Purpose
<b>Power Requirements</b>	<u>North America:</u> 480 Vac 60Hz 3P+N+G 70A
	<u>Rest of World:</u> 400 Vac 50Hz 3P+N+G 100A
<b>Thermal Requirements</b>	Requires up to 100 kW <sub>th</sub> of thermal energy delivered via hot-water heat exchange (closed loop). Water is used solely as a heat transfer medium and is not consumed.
<b>Power Efficiency Target</b>	With provided heat source: 0.15 kWh/L (0.6 kWh/gal)
<b>Ave. Operating Power Consumption</b>	12.5kW
<b>Peak Power Requirement</b>	60kW
<b>Container Dimensions LxWxH</b>	6.1m x 2.5m x 2.6m (20ft x 8ft x 8.5ft)
<b>Est. Weight</b>	10,000kg
<b>Noise Level</b>	< 60db at 10ft
<b>Airflow</b>	30k- 40K CFM

AirJoule has developed performance guidance for water production, electrical energy demand, and thermal uptake for the AirJoule PRIME based on field campaigns.

**AirJoule Prime Performance Model**  
AirJoule Prime 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	16	24	31	39	45	52	58	63	68	72	76	79	82	84
	15	18	26	33	40	47	53	59	65	70	74	78	81	83	85
	20	20	28	36	43	49	56	62	67	72	76	80	83	86	88
	25	20	28	35	42	49	55	61	67	72	76	80	83	86	88
	30	13	21	28	35	42	49	54	60	65	69	73	76	79	81

**AirJoule Prime Performance Model**  
AirJoule Prime Electrical Energy Demand (kW)

Relative Humidity (%RH)

		30	35	40	45	50	55	60	65	70	75	80	85	90	95
Temperature (°C)	10	9	10	11	11	11	11	11	11	11	12	12	12	12	12
	15	9	11	12	12	11	11	11	11	11	11	12	12	12	11
	20	10	11	12	11	11	10	10	10	10	10	10	11	10	10
	25	10	11	11	11	10	10	9	9	9	9	10	10	10	9
	30	7	9	10	10	10	10	10	10	11	11	11	12	11	11

**AirJoule Prime Performance Model**  
AirJoule Prime Thermal Energy Demand (kW)

Relative Humidity (%RH)

		30	35	40	45	50	55	60	65	70	75	80	85	90	95
Temperature (°C)	10	19	29	38	46	54	62	69	76	81	87	91	95	98	101
	15	21	31	40	48	56	64	71	78	83	89	93	97	100	103
	20	24	34	43	51	59	67	74	81	86	92	96	100	103	106
	25	24	33	42	51	59	67	74	80	86	91	96	100	103	105
	30	16	25	34	43	51	58	65	72	78	83	88	91	95	97

## 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](mailto:contact@airjouletech.com) or visit our website to contact us!