

Batchwater Heat Pump

Reliable Temperature Control for Concrete Production

American GeoThermal's Batchwater Heat Pumps deliver precise, year-round batchwater temperature control for consistent concrete production. Each 30-ton modular unit cools batchwater down to 35°F or heats it up to 130°F, helping producers maintain mix quality, control set times, and meet requirements across seasonal conditions.

Built with a no-clog heat exchanger for harsh water sources, the system minimizes maintenance issues from fouled coils, ice systems, and chemical treatments. Its all-electric design improves job site safety by eliminating risks associated with traditional fuel-based heating and ice handling.

Engineered for Ready-Mix & Precast Facilities

Designed around real concrete-plant requirements, American GeoThermal Batchwater Heat Pumps condition water inside an insulated storage tank before it's pumped to the batch process.

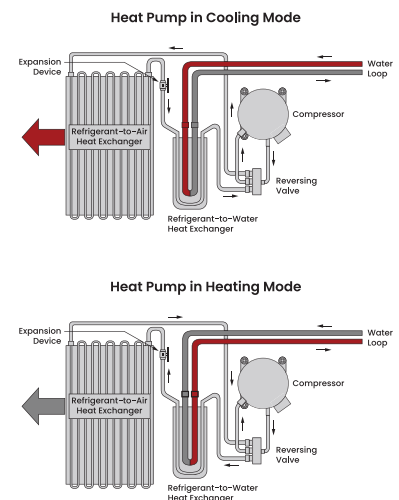
This controlled approach delivers precise batchwater temperature and volume, supporting consistent mixes and predictable set times.

Whether stationary, portable, or fully mobile, our modular heat pumps are built to integrate seamlessly into existing plant layouts.

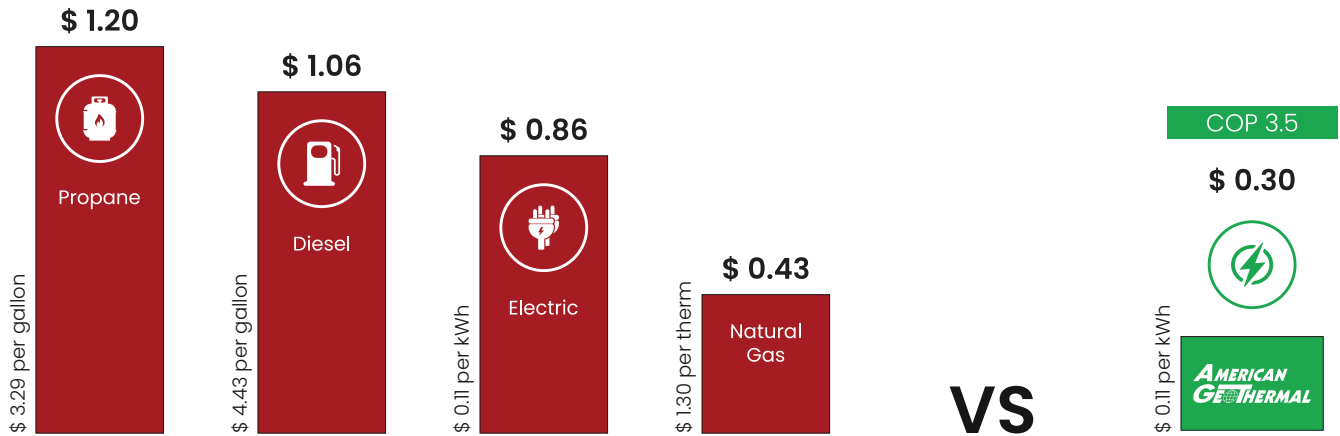


Key Advantages

- Cools water to 35°F; heats to 130°F
- All-electric system; no fossil fuels required
- No-clog heat exchanger built for harsh water
- Stationary, mobile, or portable configurations
- 30 ton modular design with single point electrical connection
- Scalable design - add modules as production increases
- Operates reliably from -15°F to 125°F ambient
- Integrates with insulated batchwater storage tanks
- 24/7 cellular remote monitoring
- Engineered, manufactured and tested in Murfreesboro, TN



How much does it cost to heat 1 cubic yard of concrete?



**Based on 40 Gallons heated by 80°F

30 - 150 Tons	AMP 30	AMP 60	AMP 90	AMP 120	AMP 150
Nominal Tonnage	30	60	90	120	150
Refrigerant Circuits	2	4	6	8	10
Cooling Capacity (BTU/hr)	300,000	600,000	900,000	1,200,000	1,500,000
GPH Cooled by 35°F	1,028	2,055	3,083	4,111	5,139
Heating Capacity (BTU/hr)	360,000	720,000	1,080,000	1,440,000	1,800,000
GPH Heated by 80°F	540	1,079	1,619	2,158	2,698
Voltage	460/60/3	460/60/3	460/60/3	460/60/3	460/60/3
MOP	100	175	250	300	400
MCA	88	160.6	231	312.7	382.2
Length x Width x Height (in)	96 x 58-1/16 x 89	96 x 106-1/6 x 89	96 x 154-1/6 x 89	96 x 202-1/6 x 89	96 x 250-1/6 x 89
Weight (lbs)	3,100	6,200	9,300	12,400	15,500

180 - 300 Tons	AMP 180	AMP 210	AMP 240	AMP 270	AMP 300
Nominal Tonnage	180	210	240	270	300
Refrigerant Circuits	12	14	16	18	20
Cooling Capacity (BTU/hr)	1,800,000	2,100,000	2,400,000	2,700,000	3,000,000
GPH Cooled by 35°F	6,509	7,194	8,222	9,250	10,277
Heating Capacity (BTU/hr)	2,280,000	2,520,000	2,880,000	3,240,000	3,600,000
GPH Heated by 80°F	3,417	3,777	4,317	4,856	5,396
Voltage	460/60/3	460/60/3	460/60/3	460/60/3	460/60/3
MOP	500	600	600	700	800
MCA	451.7	529.3	606.3	675.9	745.4
Length x Width x Height (in)	96 x 298-1/6 x 89	96 x 346-1/6 x 89	96 x 394-1/6 x 89	96 x 442-1/6 x 89	96 x 490-1/6 x 89
Weight (lbs)	18,600	21,700	24,800	27,900	31,000

