Geothermal Heat Pump Replacements Specification

WaterFurnance or Comparable salient characteristics:

Equipment Capacities
- Unit 1: 2.5-ton geothermal water-to-air heat pump
- Unit 2: 3-ton geothermal water-to-air heat pump
- Unit 3: 3.5-ton geothermal water-to-air heat pump

Refrigerant
- R-454B

Compressor
- Dual-stage scroll compressor (or equivalent dual-capacity compressor technology)

Electrical
- 208–230V, 60 Hz, single-phase

Air Moving System
- Variable-speed ECM blower motor

Heat Exchanger
- Copper water-coil heat exchanger

Filtration
- 2" MERV 11 filter (or higher)

Controls / Electronics
- Advanced microprocessor-based unit controller providing:
  - Performance monitoring
  - Refrigeration and fault diagnostics
  - Communicating capability with thermostat or BAS
- Electronic Expansion Valve (EEV) for refrigerant metering
- Integrated soft-start device to reduce compressor inrush current

Coils
- Standard/uncoated air coil (unless coating is requested elsewhere in spec)

Accessories / Hydronics
- Flow center connector kit: 1" MPT × 1" insert

Thermostat
- Color touchscreen, programmable, communicating thermostat compatible with unit controls