enviroPLATE™

CUSTOMER RESPONSE SHEET
PROJECT SIZING & CONFIGURATION

Company: _____
Contact information: _____
Project name: _____

Requirements for Sizing – Residential (Climate Driven Loads)

Peak heat loss in Btuh or Kw (heating): _____
Peak heat gain in Btuh or Kw (cooling): _____
Heat pump manufacturer and model: _____
Flow rate in gpm or ls: _____
Antifreeze type and % volume: _____
Minimum water depth for installation in feet or meters from surface: _____
Winter water temperature of lake/pond in °F or °C: _____
Summer water temperature of lake/pond in °F or °C: _____

Note: Include all heat pump make and model descriptions (HP equipment schedule) if more than one unit.

Requirements for Sizing – Commercial (Internally Driven Loads)

Peak heat loss in Btuh or Kw (heating): _____
Peak heat gain in Btuh or Kw (cooling): _____
Energy load profile Send load profile
Heat pump schedule _____
Flow rate in gpm or ls: _____
Antifreeze type and % volume: _____
Minimum water depth for installation in feet or meters from surface: _____
Winter water temperature of lake/pond in °F or °C: _____
Summer water temperature of lake/pond in °F or °C: _____

Note: Include all heat pump make and model descriptions (HP equipment schedule) if more than one unit.

Host Water Environment

Host water environment: Fresh / Brackish / Seawater

Host water environment: Other (please describe)

Water conditions are important to the determination of the correct alloy of the enviroPlate product. General recommendations:

Fresh water:	304 stainless steel
Seawater:	ALX6N stainless steel
Brackish:	ALX6N stainless steel
Extremely aggressive *:	Titanium

* Equatorial or tropical climate with brackish conditions, with little or no communication with open ocean or other attenuating influence to dilute extremely aggressive or caustic conditions; land-locked surface warm-water system with high salt and other high total dissolved minerals, alkalai or soda content; any other host water conditions that could result in aggressive water conditions that require titanium.

Standard plate gauge is 16 for any alloy composition.

Water movement: Static / Dynamic

Static would be defined as a host water conditions that can be expected to be relatively stable, ie, without movement as from a stream, high volume spring, etc. Dynamic movement as defined here implies constant movement as with a creek or river, daily tidal currents, etc. If project is heating dominant and plates are installed in pond or lake that is only dynamic occasionally, host conditions are defined as static for design considerations (worst case).

Pressure Drop Calculations

MG will provide the pressure drop values per plate after the number of plates, peak fluid flow and operating conditions are determined.

enviroPlate™ – *a Major Geothermal product*

Major Geothermal - 6285 West 48th Avenue, Wheat Ridge, Colorado, 80033, USA
T 303.424.1622 800.707.9479 F 303.423.6795
www.majorgeothermal.com