
THE POWER OF WATER



www.theslimjim.com



SLIM JIM® The Geo Lake Plate

POND LOOP IN A PACKAGE Makes Installation of GeoExchange in Ponds or Bodies of Water As Simple as it Gets!

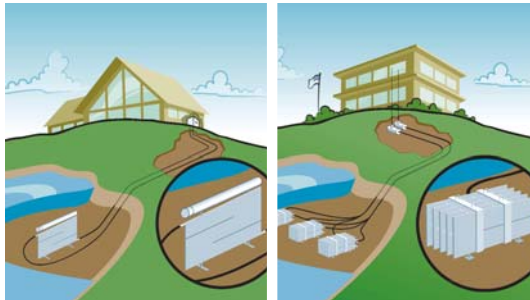
SLIM JIM® The Geo Lake Plate is the lake loop of choice for fluid to fluid heat transfer in GeoExchange heat pumps or water cooled equipment (lakes, ponds, rivers, oceans).

Application:

- 304 stainless—fresh water applications only
- 316L stainless—fresh water applications only
- Titanium—brackish and seawater applications
- AL6XN—brackish and seawater applications

Features:

- Spot & roll welded
- Easy to install
- Easy to flush
- Labor friendly
- No limit to job size—
single to multiple units



From the left: Residential illustration; Commercial illustration

Multiple plates of like capacity can be manifold in field with PE pipe to accommodate larger loads. Or, we can custom build (pre-manifold multiple plates) with stainless steel headers equipped with flange connections (single point hookup), reinforced frame, fitted with legs or skids and lift points for handling (special quotes required).

Installation Requirements:

For proper operation and maximum performance, the SLIM JIM® must:

- Be installed vertically, completely submerged in body of water
- Be supported off bottom out of silt/mud
- In northern climates, minimum of two (2) foot clearance beneath ice cap and top of plates is recommended
- The body of water must be adequate to accommodate the load requirements



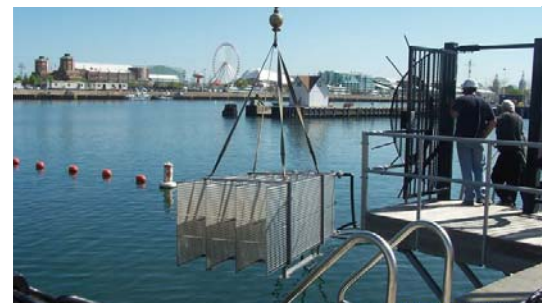
Residential, single plate



Residential, slide-in 6 ton



Commercial, 32 ton



Commercial, 32 ton (2-16 ton circuits)



Residential, 40 ton



Pond Loop in a Package

SPECIFICATIONS

DESCRIPTION	DIMENSIONS	PRESSURE DROP (Approximate)	VOLUME (Water/Approx.)	304 STAINLESS STEEL WEIGHT	TITANIUM WEIGHT
SJ-02T	2' x 6' x 3/8"	6 GPM, 5 psi	1.2 gal	55 lbs.	28 lbs.
SJ-03T	4' x 5' x 3/8"	9 GPM, 2 psi	2.0 gal	92 lbs.	46 lbs.
SJ-04T	4' x 6' x 3/8"	12 GPM, 4 psi	2.4 gal	110 lbs.	55 lbs.
SJ-05T	4' x 8' x 3/8"	15 GPM, 6 psi	3.2 gal	147 lbs.	74 lbs.
*SJ-08T	4' x 12' x 3/8"	24 GPM, 8 psi	4.8 gal	220 lbs.	110 lbs.
<i>Inlets/Outlets—1 1/4" MPT (SJ-02T thru SJ-08T)</i>					
*SJ-10T	4' x 15' x 3/8"	30 GPM, 10 psi	7.0 gal	276 lbs.	138 lbs.

Inlets/Outlets—2" MPT (SJ-10T)

***SJ-08T & *SJ-10T**—Two (2) Pass (In and Out Same End)

Flow Rate:

Three (3) GPM per ton equipment.

Approximate Heat Transfer Rate:

100 Btu per square foot transfer surface of plate per Degree Delta T in still body of water. Both sides of plate are exchanger surface.

Example: SJ-03T @ 9 GPM
 $4' \times 5' \times 2 = 40$
 $40 \times 100 = 4,000$
 $4,000 \times 10 \text{ Degree Delta T} = 40,000 \text{ Btu approximately}$

Note: Any current accentuates performance greatly and allows for closer grouping of multiple plate assembly—such as river applications.



Hunting Lodge—New York



Marine Safety Station—Chicago, Illinois



200 Ton SLIM JIM® Project—Wisconsin—Concept



200 Ton SLIM JIM® Project—Wisconsin—Installation



200 Ton SLIM JIM® Project—Wisconsin—Complete



SLIM JIM® family of plates

**Some see a pond.
We see an emission free,
fuel free power plant!**

Created through demand reduction when used in conjunction with SLIM JIM® The Geo Lake Plate and geothermal heat pumps to heat and cool homes or businesses.

SLIM JIM® The Geo Lake Plate is helping to keep our Earth Green through energy conservation.



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Assemblies can be custom built and delivered



Residential 24 ton—new lake bed