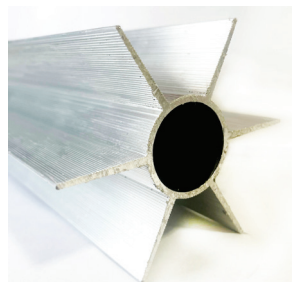


# STARFIN™ FIN PIPE

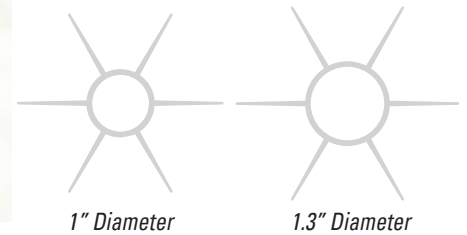


Under-bench

**BioTherm StarFin™** is our high heat output finned pipe commonly used for bench, perimeter, top, and gutter heating. Its tapered six fin design provides maximum heat output while producing a soft, gentle heat. StarFin's large surface area decreases the amount of pipe needed, reducing shadowing, installation time and labor. Our StarFin Plus delivers the same heat over greater distances. 12-foot sections are joined with O-ring fittings: no tools or welding required. New and improved StarFin features a ridged surface, increasing heat performance by up to 10.5%.



New StarFin with ridges



Accessories

SPECIFICATIONS	StarFin™	StarFin Plus™
<b>Lengths Available</b>	12' standard Custom available	12' standard Custom available
<b>Aluminum Type</b>	#6063-T5 extra hard alloy	#6063-T5 extra hard alloy
<b>Pipe Weight</b>	1.06 lbs/ft	1.17 lbs/ft
<b>Shipping Weight</b>	12.72 lbs. per 12' unit	14.04 lbs. per 12' unit
<b>Water Volume</b>	.04 gallon/ft	.064 gallon/ft
<b>Inside Diameter</b>	1"	1.3"
<b>Pressure Rating</b>	30 PSI max	30 PSI max
<b>Gaskets</b>	-30°F to 230°F	-30°F to 230°F
<b>Water</b>	pH must be maintained 7.5-8.5	pH must be maintained 7.5-8.5
<b>Max Operating Temp.</b>	230°F	230°F
<b>Max Operating Pressure</b>	30 PSI	30 PSI

BioTherm StarFin™	Ground					Bench		Space			Crop				
	On-Ground	In-Ground	On-Floor	In-Floor	Bed	Snow Melt	Frost Protection	On-Bench	In-Bench	Under Bench	Gutter	Top	Perimeter	Rail	In-Crop
<b>Greenhouse</b> (Vegetable, Horticulture, Institutional, Medicinal)										●	●	●	●		
<b>Habitat</b> (Animal enclosures)											●	●	●		
<b>Turf</b> (T-box, Greens, Sports)															
<b>Work Buildings</b> (Shops, hangars, garages, man-caves)										●	●	●	●		

StarFin Heat Pipe Output Ratings (at 65°F ambient temperature)				
<b>Water Temp (°F)</b>	140°	160°	180°	200°
<b>Output (BTU/hr/ft)</b>	172	218	264	309