

DELTA T SOLUTIONS

DELTA-FIN™ SF High Output Finned Pipe

The **DELTA-FIN™** aluminum finned pipe heating system heats the greenhouse using water temperatures up to 230°F by heating the air around the fin tube and distributing the heat via natural convection.

The high output finned pipe is made of sch 40 aluminum pipe and fins that are twice as thick as standard base board radiators. This heavy duty construction guarantees long life in a harsh environment and allows the material to be hung from greenhouse columns spaced as far as twelve feet apart without additional center support.

Placed around the perimeter or under the gutter, this material puts out enough energy to heat a greenhouse range, melt snow from the gutters, or can be used as supplemental heat when an under bench system is being used.

Two sizes (1.25" and 2.0") allow for various design considerations that might come up when designing long runs or small temperature differentials requiring high flow rates.



Grooved coupling technology absorbs enough expansion from the heated aluminum pipe so that, in most installations, no special expansion joints are required. Special fin configurations can be provided for under gutter snow melt or corridor heating.

Typical fin spacing: 1.25" 48 fins/ft
2.0" 24 fins/ft

Some of the many advantages of DELTA FIN™ SF are:

- Lightweight aluminum construction allows for hanging material from columns or truss without special supports.
- Heavy duty fins able to withstand high traffic areas.
- Rugged construction can be supported on 12 foot OC brackets.
- Grooved coupling technology for easy installation. Requires NO threading or welding.
- Grooved coupling eliminates expansion joints.
- High output per foot reduces need for multiple tiers.
- Special fin spacing is available for optimum heat output.

Delta T Solutions can provide a performance engineered heating system that can meet the needs of any grower.

Performance packages include: Heating system components (heat source, controls, radiation), performance engineered drawings (pipe layouts and electrical diagrams), installation supervision, installation (as required).

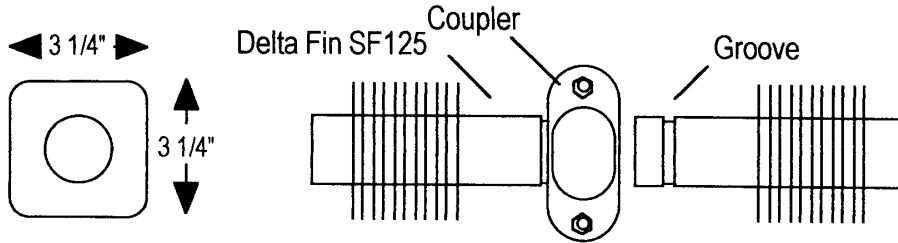
Specifications:

The radiating material is the Delta Fin™ SF125 or SF200 aluminum finned pipe, using water temperatures up to 230°F, and consists of the following components:

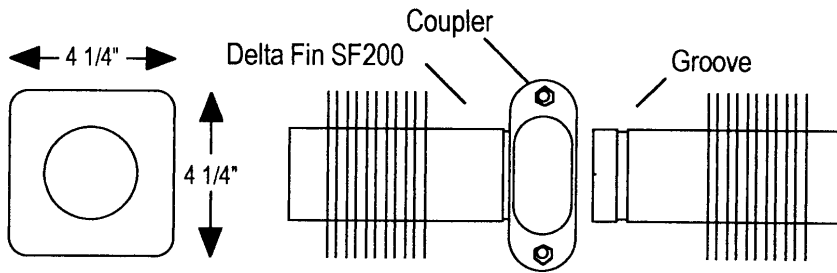
- 1.25" sch 40 aluminum pipe with 3.25" X 3.25" X 0.025" aluminum fins at 48 fin/foot. Pipe shall have each end grooved to accept the grooved coupling provided.
- 2.0" sch 40 aluminum pipe with 4.25 inch X 4.25 inch X 0.025 inch aluminum fins at 24 fin/foot. Pipe shall have each end grooved to accept the grooved coupling provided.
- Coupling shall be grooved style with high temperature gasket rated for -60°F to 230°F.
- Coupling and external grooved fin system absorbs expansion from heated aluminum.
- All aluminum hanger brackets
- Pressure ratings of 125PSI at 230°F

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Delta Fin™ SF125



Delta Fin™ SF200



DELTA FIN SF Ratings

Tube Size and Material	Fin Size and Material	Fins Per Foot	No. of Tiers 7" cl	Steam Rating	Hot Water Ratings BTU/ HR./ FT/											
					130°	140°	150°	160°	170°	180°	190°	200°	210°	220°	230°	240°
				Factor	0.33	0.40	0.45	0.53	0.61	0.69	0.78	0.86	0.95	1.05	1.14	1.25
1 1/4" Sch	3 1/4" x 3 1/4"	49	1	1850	610	740	830	980	1130	1280	1440	1590	1760	1940	2110	2310
40 Alum.	0.025" Alum.		2	2640	870	1060	1190	1400	1610	1820	2060	2270	2510	2770	3010	3300
			3	4200	1390	1680	1890	2230	2560	2900	3280	3610	3990	4410	4790	5250
2" Sch 40 Alum.	4 1/4" x 4 1/4" 0.025" Alum.	24	1	1630	540	650	730	860	990	1120	1270	1400	1550	1710	1860	2040
			2	2330	770	930	1050	1230	1420	1610	1820	2000	2210	2450	2660	2910
			3	3700	1220	1480	1670	1960	2260	2550	2890	3180	3520	3890	4220	4630

Maximum water velocity 4.0 ft/sec
 All material is shipped in 12 foot lengths with each end pre-grooved ready for grooved coupling. Consult factory for special lengths.
 Hand roll grooving tool is available upon request.
 Grooved elbow, and threaded adapters available upon request.

Outputs are for bare elements based on 65° EAT (entering air temperature) and minimum 4 gpm flow.
 If fin is installed into a slope top enclosure increase output by 5%.
 If fin is installed into an expanded metal enclosure decrease output by 3%.

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