

DALLAS, TX. Plant Capabilities 2019

3051 W. Commerce Dallas, TX. 75212 Phone: 1-800-776-9605 Fax: 214-638-1445

Thermal Solutions Manufacturing's Dallas facility provides same-day service to its local customers and in most cases overnight service on in-stock radiators, condensers, complete truck radiators, charge air coolers, heaters and built to order Serpentine and Flat Fin cores for trucks, off-highway and industrial applications. Thermal Solutions Manufacturing offers coverage for both foreign and domestic passenger cars and light trucks. Our regional manufacturing plants and our national distribution system combine the local service you need with the fast delivery and model coverage you demand. Team up with Thermal Solutions Manufacturing.

Wherever you go, we have your Thermal Solution!

Flat Fin Cores

- Fins Copper, Brass, Solder Coated Brass & Steel
- Fins Per Inch 3, 4, 4 ½, 5, 5 ½, 6, 7, 8, 9, 10 & 11
- Tubes ½" Smooth, Dimpled & & ¾" Smooth.
- Header Gauges Solder on .032",
 Bolted headers .040", .050", .100" & .125"
- Corner Reinforcements .101" & .125" brass
- Crank Box Solid & Rubber Pipe
- Center Bar & Fin Construction 7 & 9 fpi
- Tin Paste Face Coating
- Lead & NO Lead Solder
- Pan/Dish Headers
- LeMaster Cores
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VT - VH - VTD - VTH- VTW Cores

- Maximum Core Size VT 44" x 42"
- Maximum Core Size VH 48" x 48"
- Maximum Core Size VTD 48" x 48"
- Maximum Core Size VTH 48" x 48"
- Maximum Core Size VTW 44" x 42"
- Fins Copper
- Fins per Inch 10 16 fpi
- Tubes ½" Smooth, Dimpled and Heavy Walled,
 5/8" Smooth & Dimpled
- Header Gauges Solder on .032",
 Bolted headers .040 & .050 VH & VTH
 Ultra-Fused VTD Core .050
- Lead & NO Lead Solder
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B&T

 ${f B}=1/2$ " SMOOTH, DIMPLED or HEAVY WALLED IN LINE TUBES ON 1/2" CENTERS ${f T}=1/2$ " SMOOTH, DIMPLED or HEAVY WALLED STAGGERED TUBES ON 9/16" CENTERS BRASS or SOLDER COATED BRASS FINS

ROWS DEEP	CORE DEPTH	MAX CORE SIZE	HEADER MAX DIP POT SIZE 90" ANYTHING OVER MUST TYPES BE HAND RUN & MAY INCUR ADD'L CHARGES
2	1 1/2"		2 ROW ONLY BUILT WITH .004" BRASS
3	2 1/4"	8, 10 & 11 FPI	RADIUS W/ & W/O GROOVE, W/GROOVE MUST BE 1/4" WIDER
4	3"	74 ¾" x 90"	PAN/DISH & BUCKET HEADER
5	3 ¾"		FORMED & SQUARE CORNERS
6	4 1/2"	All Other FPI's	CRIMPED & CONVERSION BOX HEADER
7	5 1/4"	72" x 90"	.032" SOLDER or .040", .050", .100" & .125" BOLTED
8	6"		RIBBED - w/ 1 ¾" CONTINOUS OVERHANG ONE SIDE

CORNER REINFORCEMENTS .101" & .125" BRASS FPI 3 - 4 - 4 $\frac{1}{2}$ - 5 - 5 $\frac{1}{2}$ - 6 - 7 - 8 - 9 - 10 - 11 CRANK BOXES & CRANK HOLES

R & S

1/2" SMOOTH, DIMPLED OR HEAVY WALLED STAGGERED TUBES ON 5/8" CENTERS "R" Fin Louvered COPPER FINS ONLY,

"S" Fin NON LOUVERED BRASS or SOLDER COATED BRASS FINS ONLY

ROWS	CORE	MAX	HEADER	MAX DIP	POT SIZE	90" AN	YTHING	OVER MUST
DEEP	DEPTH	CORE SIZE	TYPES	BE HAND	RUN & M	AY INCU	JR ADD'I	L CHARGES
3	13/4"		RADIUS W/	& W/O GR	OOVE, W/	GROOVE	MUST BE	4" WIDER
4	2 3/8"	8, 10 & 11 FPI	PAN/DISH 8	& BUCKET H	HEADER			
5	2 7/8"	74 ¾" x 90"	FORMED &	SQUARE CO	DRNERS			
6	3 7/16"		CRIMPED &	CONVERSI	ON BOX H	EADER		
7	3 15/16"	All Other FPI's	.032" SOLD	ER or .040'	", .050", .1	100" & .1	25" BOL	ΓED
8	4 1/2"	72" x 90"	RIBBED - w	/ 1¾" CON	TINOUS O	VERHAN	G ONE SI	DE

CORNER REINFORCEMENTS .101" & .125" BRASS FPI 3 - 4 - 4 $\frac{1}{2}$ - 5 - 5 $\frac{1}{2}$ - 6 - 7 - 8 - 9 - 10 - 11 CRANK BOXES & CRANK HOLES

Z 1/2" SMOOTH, DIMPLED or HEAVY WALLED CANTED TUBES ON 5/8" CENTERS BRASS, SOLDER COATED BRASS or STEEL FINS ROWS CORE MAX HEADER MAX DIP POT SIZE 90" ANYTHING ON

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	ROWS	CORE	MAX	HEADER	MAX DIP PO	L 21ZE 90"	ANALHIN	G OVER MUST
	DEEP	DEPTH	CORE SIZE	TYPES	BE HAND RU	N & MAY 1	NCUR ADD	'L CHARGES
	3	2 3/16"	Yes 3r Steel	RADIUS W/	' & W/O GROO'	VE, W/GRO	OVE MUST E	BE ¼" WIDER
	4	2 15/16"	8, 10 & 11 FPI	PAN/DISH 8	& BUCKET HEA	DER		
	5	3 11/16"	74 ¾" x 90"	FORMED &	SQUARE CORN	IERS W & W	//O GROOVE	<u>=</u>
	6	4 7/16"		CRIMPED &	CONVERSION	BOX HEAD	ER	
	7	5 3/16"	All Other FPI's	.032" SOLD	ER or .040", .0	050", .100"	& .125" BO	LTED
	8	6"	72" x 90"	RIBBED - w	/ 1¾" CONTIN	OUS OVERI	HANG ONE S	SIDE

CORNER REINFORCEMENTS .101" & .125" BRASS FPI 3 - 4 - 4 ½ -5 - 5 1/2 - 6 - 7 - 8 - 9 - 10 - 11 CRANK BOXES & CRANK HOLES



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V	3/4" SMO	OTH STAGGERED	JBES ON 5/8" CENTERS	
^	NON LOU'	VERED BRASS or	OLDER COATED BRASS FIN:	S
ROWS DEEP	CORE DEPTH			ZE 90" ANYTHING OVER MUST MAY INCUR ADD'L CHARGES
2	1 7/8"		ADIUS W/ & W/O GROOVE, V	W/GROOVE MUST BE ¼" WIDER
3	2 1/4"	8, 10 & 11 FPI	AN/DISH & BUCKET HEADER	
4	3"	74 ¾" x 90"	ORMED & SQUARE CORNERS	W & W/O GROOVE
5	3 3/4"		RIMPED & CONVERSION BOX	(HEADER
6	4 5/8"	All Other FPI's	IBBED - w/ 134" CONTINOUS	OVERHANG ONE SIDE
7	5 1/4"	72" x 90"	032" SOLDER or .040", .050",	, .100" & .125" BOLTED
8	6 1/8"			

CORNER REINFORCEMENTS .101" & .125" BRASS FPI 3 - 4 - 4 ½ -5 - 5 1/2 - 6 - 7 - 8 - 9 - 10 - 11

CRANK BOXES & CRANK HOLES !!! NO DIMPLED TUBES !!!

XS	3/4" SMOOTH STAGGERED TUBES ON 5/8" CENTERS NON LOUVERED BRASS or SOLDER COATED BRASS FINS			
ROWS	CORE	MAX	HEADER	MAX DIP POT SIZE 90" ANYTHING OVER MUST
DEEP	DEPTH	CORE SIZE	TYPES	BE HAND RUN & MAY INCUR ADD'L CHARGES
			RADIUS W/	& W/O GROOVE, W/GROOVE MUST BE 1/4" WIDER
3	2 5/8"	8, 10 & 11 FPI	PAN/DISH 8	& BUCKET HEADER
		74 ¾" x 90"	FORMED &	SQUARE CORNERS W & W/O GROOVE
5	4"		CRIMPED &	CONVERSION BOX HEADER
		All Other FPI's	RIBBED - w	/ 1¾" CONTINOUS OVERHANG ONE SIDE
		72" x 90"	.032" SOLD	ER or .040", .050", .100" & .125" BOLTED

CORNER REINFORCEMENTS .101" & .125" BRASS FPI 3 - 4 - 4 ½ -5 - 5 1/2 - 6 - 7 - 8 - 9 - 10 - 11

CRANK BOXES & CRANK HOLES

WAX HDR SIZE 17" x 106"

CRANK BOXES & CRANK HOLES

!!! NO DIMPLED TUBES !!!

T-12 3/4" SMOOTH STAGGERED TUBES ON 7/16" CENTERS NON LOUVERED COPPER FINS

ROWS	CORE	MAX	HEADER	MAX DIP POT SIZE 90" ANYTHING OVER MUST
DEEP	DEPTH	CORE SIZE	TYPES	BE HAND RUN & MAY INCUR ADD'L CHARGES
2	1 13/16"		RADIUS W/	& W/O GROOVE, W/GROOVE MUST BE 1/4" WIDER
3	2 11/16"	8, 10 & 11 FPI	PAN/DISH 8	& BUCKET HEADER
4	3 9/16"	74 ¾" x 90"	FORMED &	SQUARE CORNERS W & W/O GROOVE
5	4 7/16"		CRIMPED &	CONVERSION BOX HEADER
6	5 5/16"	All Other FPI's	RIBBED - w	/ 1¾" CONTINOUS OVERHANG ONE SIDE
7	6 1/8"	72" x 90"	.032" SOLD	ER or .040", .050", .100" & .125" BOLTED
8	7"		1	

CORNER REINFORCEMENTS .101" & .125" BRASS FPI 3 - 4 - 4 ½ -5 - 5 1/2 - 6 - 7 - 8 - 9 - 10 - 11

CRANK BOXES & CRANK HOLES

LII NO DIMPLED TUBES !!!



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VTD	5/8" SMOOTH or DIMPLED TUBES ON .570" CENTERS				
1	LOUVERED SERPENTINE COPPER FINS				
ROWS	CORE	MAX	HEADER		
DEEP	DEPTH	CORE SIZE	TYPES		
2	1 1/2"	48" x 49"	WELDED TUBE TO .050" HEADER, BOLT ON HEADERS ONLY		
3	2 1/4"	48" x 49"	RADIUS W/ & W/O GROOVE, W/GROOVE MUST BE 3/8" WIDER		
4	3″	48" x 49"	BUCKET HEADER		
5	3 3/4"	48" x 49"	FORMED & SQUARE CORNERS W & W/O GROOVE		
	•		CRIMPED & CONVERSION BOX HEADER		
	.032 SOLDER, .050 BOLTED				
	MINIMIIN	1 CODE HEIGHT	74" Tall FINS DED INCH = 12 = 13 = 14 = 15 = 16		

MINIMUM CORE HEIGHT- 24" Tall FINS PER INCH - 12 - 13 -14 - 15 - 16

!!! NO CRANK BOXES !!!

VTH	5/8" SMOOTH or DIMPLED TUBES ON .421" CENTERS
VIII	HIGHLY LOUVERED SERPENTINE COPPER FINS

ROWS	CORE	MAX	HEADER
DEEP	DEPTH	CORE SIZE	TYPES
2	1 1/2"	47" x 49"	RADIUS W/ & W/O GROOVE, W/GROOVE MUST BE 3/8" WIDER
3	2 1/4"	47" x 49"	BUCKET HEADER
4	3"	47" x 49"	FORMED & SQUARE CORNERS W & W/O GROOVE
5	3 3/4"	47" x 49"	CRIMPED & CONVERSION BOX HEADER
			RIBBED - w/ 1 34" CONTINOUS OVERHANG ONE SIDE
			.032 SOLDER, .040 or .050 BOLTED

MINIMUM CORE SIZE - 10" Tall

FINS PER INCH - 12 - 13 -14 - 15 - 16

CRANK BOXES ON BOTTOM HEADER ONLY

VH	5/8" SMOC	$OTH\ or\ DIMPLED\ \mathsf{DIMPLED\ DIMPLED\ DIMPLED\ \mathsf{DIMPLED\ DIMPLED\ DIMPLED\ \mathsf{DIMPLED\ \mathsf{DIMPLED$	TUBES ON 1/2" CENTERS		
VN	SERPENT	SERPENTINE LOUVERED COPPER FINS			
ROWS	CORE	MAX	HEADER		
DEEP	DEPTH	CORE SIZE	TYPES		
2	1 1/2"	47" x 49"	RADIUS W/ & W/O GROOVE, W/GROOVE MUST BE 3/8" WIDER		
3	2 1/4"	47" x 49"	BUCKET HEADER		
4	3"	47" x 49"	FORMED & SQUARE CORNERS W & W/O GROOVE		
5	3 3/4"	47" x 49"	CRIMPED & CONVERSION BOX HEADER		
			RIBBED - w/ 1 3/4" CONTINOUS OVERHANG ONE SIDE		
			.032 SOLDER, .050 BOLTED		
	MINIMIM CO	RE HEIGHT - 10"	FINS PER INCH - 12 - 13 -14 - 15 - 16		



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VT	1/2" SMOOTH, DIMPLED or HEAVY WALLED TUBES ON .550" CENTERS LOUVERED SERPENTINE COPPER FINS				
ROWS DEEP	CORE DEPTH	MAX CORE SIZE	HEADER TYPES		
2	1 1/4"	44" x 42"	RADIUS W/ & W/O GROOVE, W/GROOVE MUST BE 1/4" WIDER		
3	2"	44" x 42"	BUCKET HEADER, .040" & .050" BOLT ON HEADERS		
4	2 5/8"	44" x 42"	FORMED & SQUARE CORNERS W & W/O GROOVE		
			CRIMPED & CONVERSION BOX HEADER		
	RIBBED - w/ 1¾" CONTINOUS OVERHANG ONE SIDE				
MIN	MINIMUM CORE HEIGHT - 7 " FINS PER INCH - 10 - 11 - 12 - 13 - 14				
	CRANK BOXES ON BOTTOM HEADER ONLY				

VTW		•	HEAVY WALLED TUBES ON .550" CENTERS			
0 / 00	NON-LOUVERED SERPENTINE COPPER FINS					
ROWS	CORE	MAX	HEADER			
DEEP	DEPTH	CORE SIZE	TYPES			
3	2"	44" x 42"	RADIUS W/ & W/O GROOVE, W/GROOVE MUST BE 1/4" WIDER			
4	2 5/8"	44" x 42"	BUCKET HEADER, .040" & .050" BOLT ON HEADERS			
5	3 1/4"	44" x 42"	FORMED & SQUARE CORNERS W & W/O GROOVE			
6	4"	44" x 42"	CRIMPED & CONVERSION BOX HEADER			
			.032" SOLDER, .040" & .050" BOLT ON			
N 4 3	COLUMN TO THE STATE OF THE STAT	DELICIT 7"	FINC DED INCLUOUS 10			

MINIMUM CORE HEIGHT – 7 "

FINS PER INCH - 8 - 9 - 10

CRANK BOXES ON BOTTOM HEADER ONLY