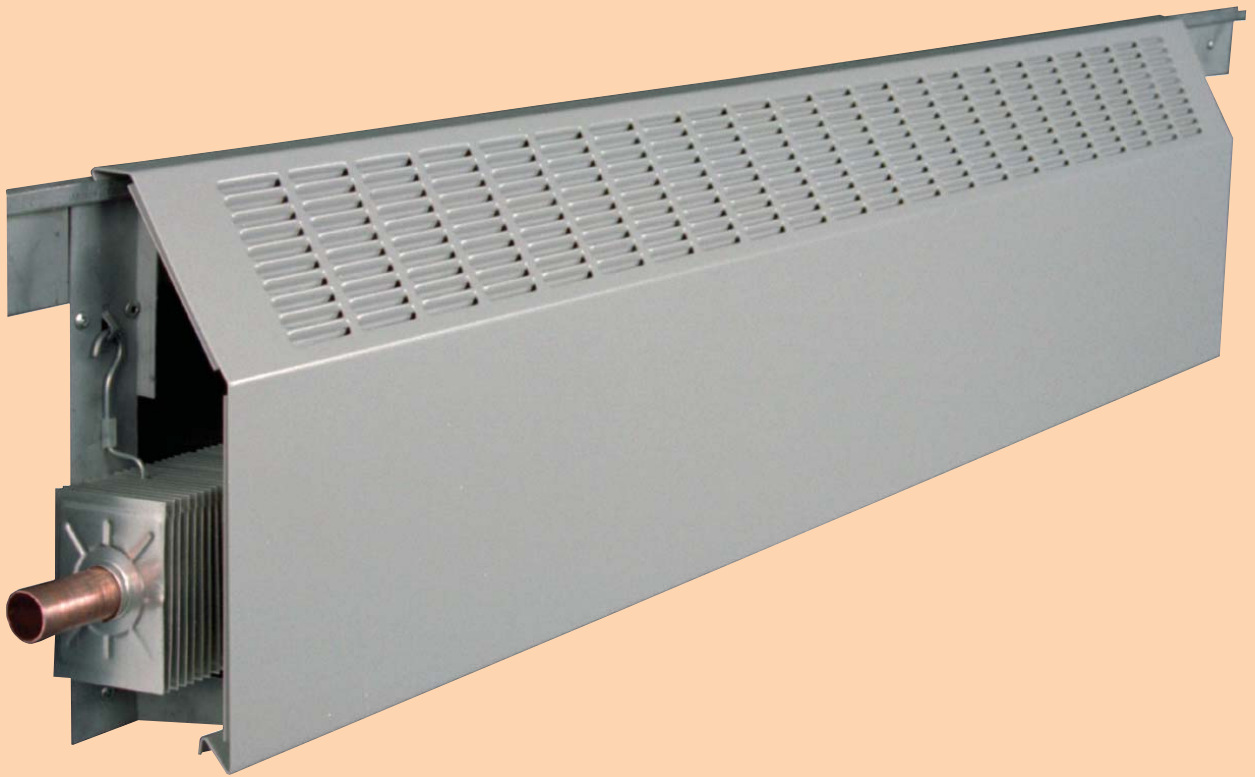


Profile Series

Finned Tube Radiation



AIRTEX™
HYDRONIC SYSTEMS
HEAT TRANSFER DIVISION

ENCLOSURES

The Airtex Profile Series enclosure is produced in heights of either 8" (203mm) or 10" (254mm). The Profile Series enclosure is available in lengths from 2'-0" (610mm) to 7'-6" (2286) in 6" (152mm) increments.

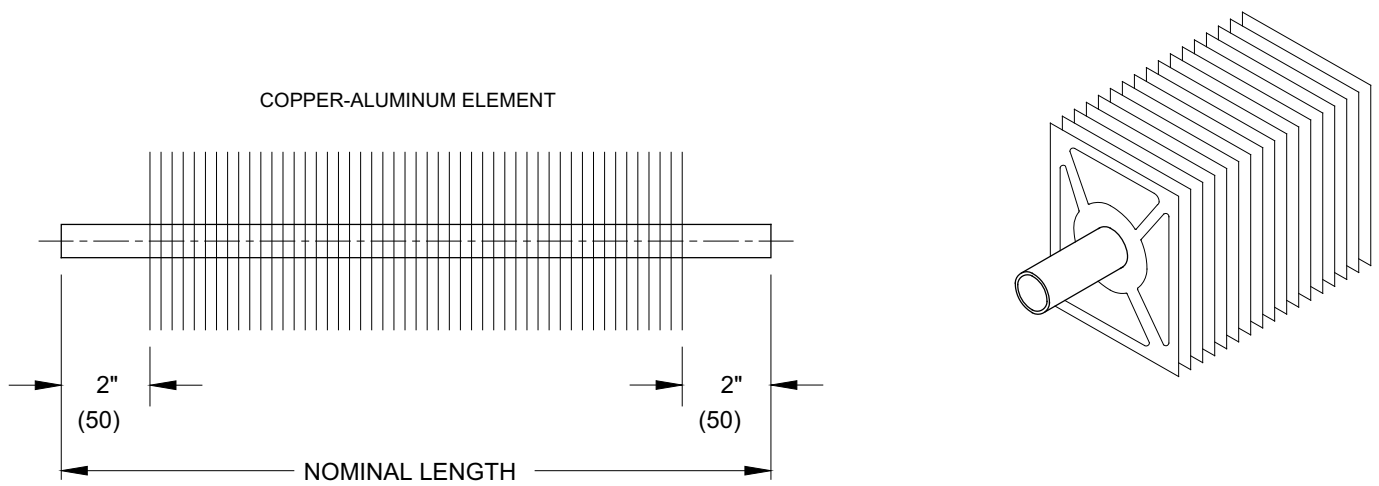
In addition to Profile Series enclosures, Airtex can provide, upon request, custom designed models in a size, metal type, gauge and paint finish to suit any desired application.

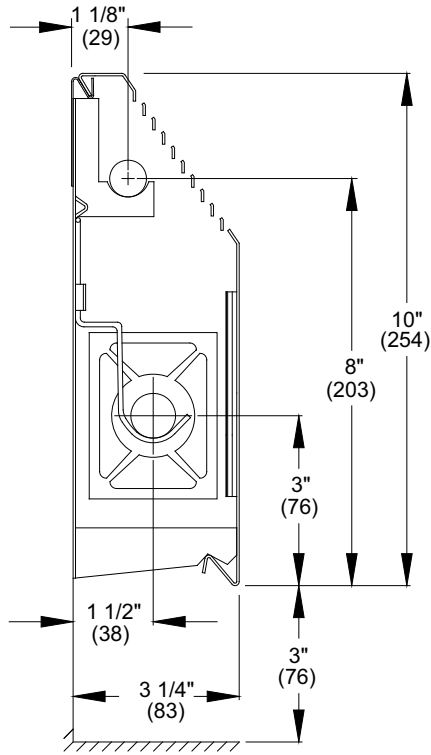
ACCESSORIES

For ease of installation and design continuity, Airtex manufactures enclosure brackets, element hangers, P joggle strips, end caps, inside and outside corners, laps, removable access panels and pilaster kits.

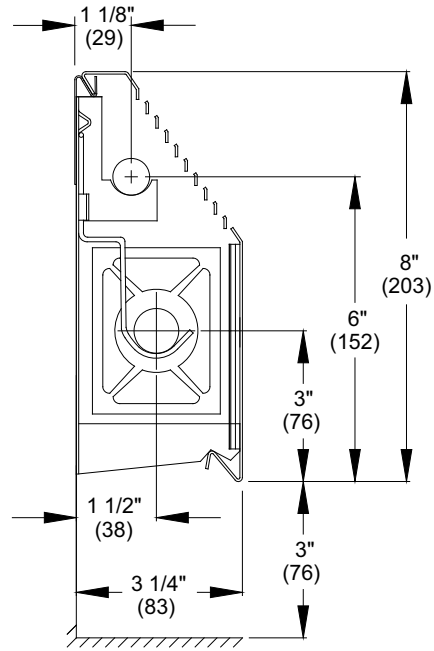
COPPER-ALUMINUM ELEMENT

The element is constructed of 3/4" (19mm) nominal (7/8" (22mm) O.D.), seamless copper tubing. The aluminum fins are 2 1/2" (64mm) x 3 1/4" (83mm), with a stamped pattern which provides strength and rigidity. Integral collars provide uniform spacing and maximum heat transfer. Permanent contact between fin and tube is obtained by mechanical expansion of the tube. Tube ends are suitable for standard sweat fittings. The element is manufactured in nominal lengths from 2'-0" (610mm) to 7'-6" (2286mm) in 6" (152mm) increments.

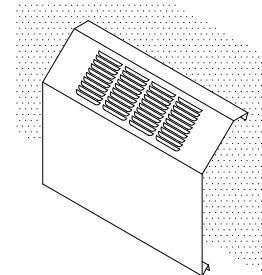




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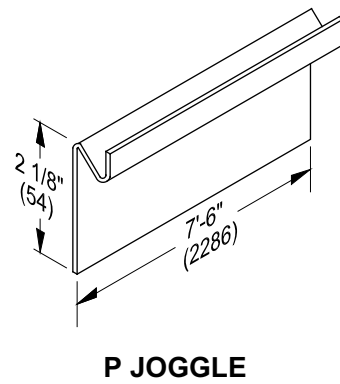
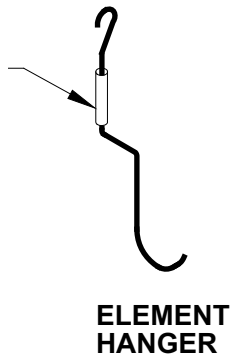
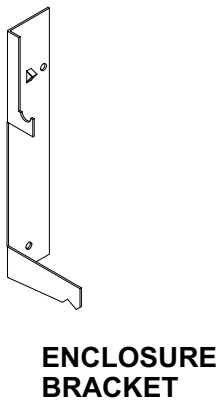
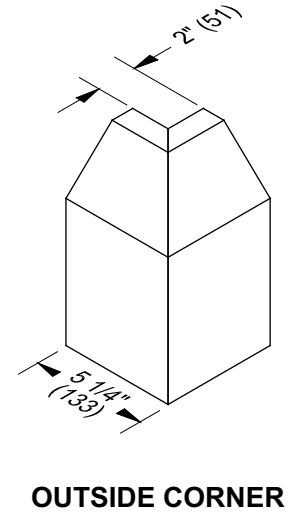
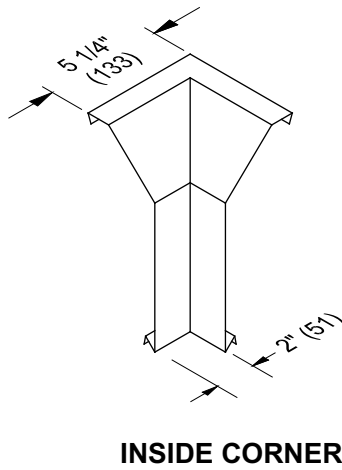
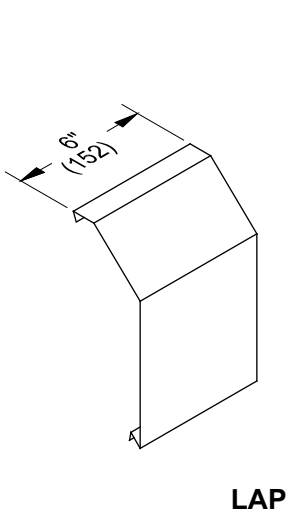
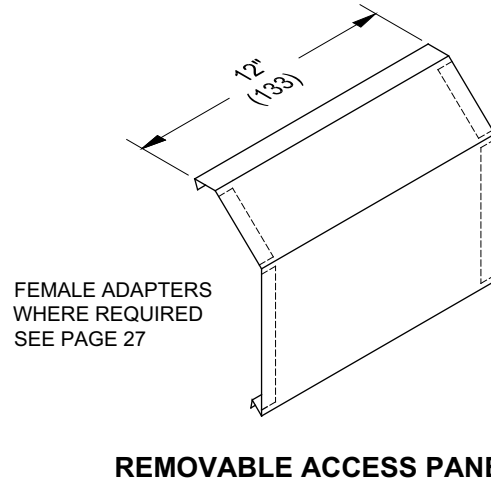
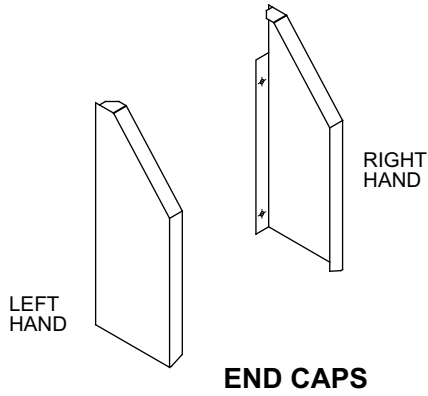


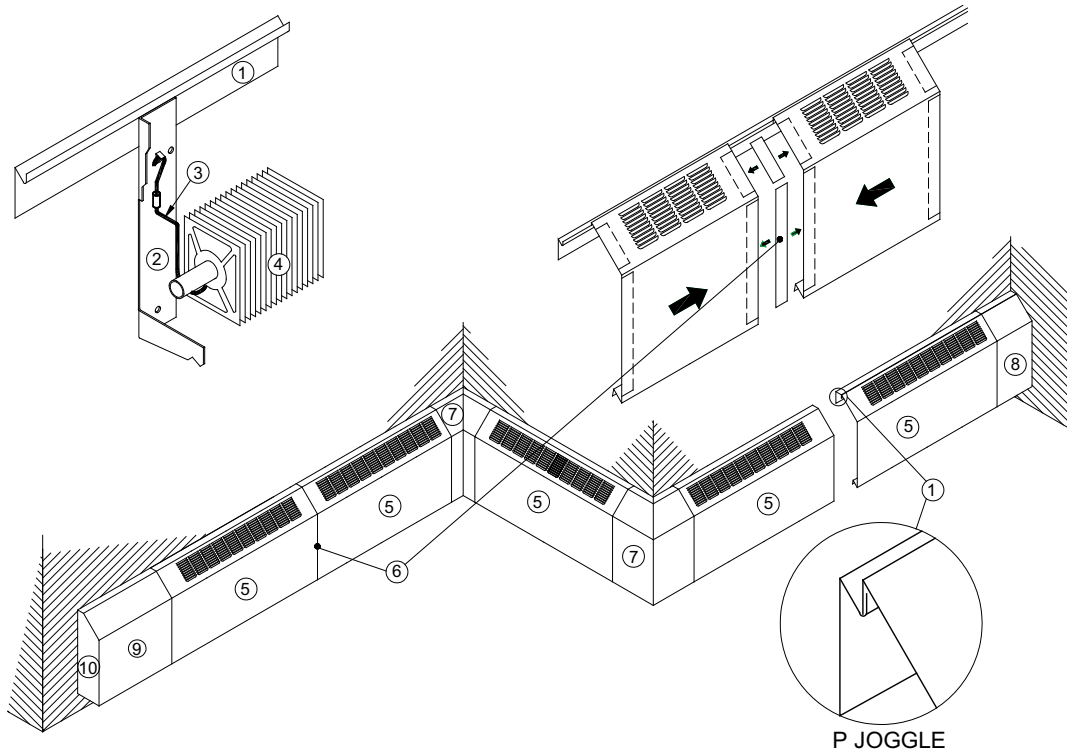
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CAPACITIES OF PROFILE SERIES ENCLOSURES

	ELEMENT	ENCLOSURE	ENCLOSURE HEIGHT	WATER VELOCITY	HOT WATER CAPACITY BTU/HR/FT AT 65°F AIR AVERAGE WATER TEMPERATURE °F					
					FEET/SECOND	220	210	200	190	180
IMPERIAL	3/4" COPPER TUBE 2 1/2" X 3 1/4" ALUMINUM FIN 60 FINS/FT	P-8	8"	3	1171	1060	959	870	770	680
		P-10	10"	3	1293	1170	1059	960	850	751
	ELEMENT	ENCLOSURE	ENCLOSURE HEIGHT	WATER VELOCITY	HOT WATER CAPACITY kW/m at 18°C AIR AVERAGE WATER TEMPERATURE °C					
					METERS/SECOND	104	99	93	88	82
METRIC	19 mm COPPER TUBE 64mm X 83mm ALUMINUM FIN 196 FINS/M	P-8	203mm	0.91	1.12	1.02	0.92	0.83	0.74	0.65
		P-10	254mm	0.91	1.24	1.12	1.01	0.92	0.81	0.72





ENCLOSURE AND ACCESSORIES

All enclosures are manufactured for quick and simple installations to minimize job-site labour. In order to provide the most rigid installation, support should be provided in the finished wall and should extend along the top edge of all enclosures to provide rigid support for the P Joggle Strip.

INSTRUCTIONS FOR INSTALLATION

A chalk line should be drawn on the wall at the height of the enclosure plus 3" (76mm).

1. **P Joggle Strip:** fasten directly below the chalk line with screws or nails. P joggle strip is installed continuously with enclosure. Where laps or corners are to be installed, run joggle to within 1" (25mm) of the corner or adjacent wall. Joggle should be slightly loose to allow the lap or corner to fit between joggle and wall. Where end caps are to be installed, joggle should be flush with the end of the enclosure.
2. **Enclosure Bracket:** butt the enclosure bracket up to the P Joggle Strip as shown and locate on 3'-0" (914mm) centers (maximum). Fasten to the wall through the mounting holes.
3. **Element Hanger:** hang element hanger from the loop on enclosure bracket by integral hook.
4. **Element:** set the element onto the hanger and connect the element to the system.
5. **Enclosure:** hook the enclosure into the P Joggle Strip. Press on face of the enclosure until the lower edge snaps into place.
6. **Butt Joints:** after hooking the enclosure to the P Joggle Strip, install the loose male joiner strips and slide enclosure sideways to connect successive enclosure lengths.
7. **Corners:** hook top edge of inside and outside corners over P Joggle Strip and bend tabs at bottom, securing the corner to the enclosure.
8. **Laps:** used where the enclosure is wall to wall. Hook the lap over the P Joggle Strip and bend tabs at bottom securing it to the enclosure.
9. **Removable Access Panel:** where panels are required, install 2 enclosure brackets per access panel. Install the loose male joiner strip in the adjacent enclosure. The access panel will not have a female adapter on the corresponding side to the enclosure. If the access panel is to be installed with an end cap, the access panel will have a female adapter at the appropriate side.
10. **End Caps:** complete the enclosure installation by installing end caps where required.

ENCLOSURE AND BRACKET SELECTION GUIDE

Enclosure Length Required	Profile Series Enclosures	Enclosure Brackets	Enclosure Length Required	Profile Series Enclosures	Enclosure Brackets	Enclosure Length Required	Profile Series Enclosures	Enclosure Brackets
12" Removable Access Panel	1 - 1'	2	16' (4876mm)	1 - 5' 2 - 5' 6"	6	28' 6" (8686mm)	3 - 7' 1 - 7' 6"	12
4' and under (1219mm)	varies	2	16' 6" (5029mm)	3 - 5' 6"	6	29' (8839mm)	2 - 7' 2 - 7' 6"	12
4' 6" (1371mm)	1 - 4' 6"	2	17' (5181mm)	2 - 5' 6" 1 - 6'	6	29' 6" (8991mm)	1 - 7' 3 - 7' 6"	12
5' (1524mm)	1 - 5'	2	17' 6" (5334mm)	1 - 5' 6" 2 - 6'	6	30' (9144mm)	4 - 7' 6"	12
5' 6" (1676mm)	1 - 5' 6"	2	18' (5486mm)	3 - 6'	6	30' 6" (9296mm)	4 - 6' 1 - 6' 6"	11
6' (1828mm)	1 - 6'	2	18' 6" (5638mm)	2 - 6' 1 - 6' 6"	7	31' (9448mm)	3 - 6' 2 - 6' 6"	12
6' 6" (1981mm)	1 - 6' 6"	3	19' (5791mm)	1 - 6' 2 - 6' 6"	8	31' 6" (9601mm)	2 - 6' 3 - 6' 6"	13
7' (2133mm)	1 - 7'	3	19' 6" (5943mm)	3 - 6' 6"	9	32' (9753mm)	1 - 6' 4 - 6' 6"	14
7' 6" (2286mm)	1 - 7' 6"	3	20' (6096mm)	2 - 6' 6" 1 - 7'	9	32' 6" (9906mm)	5 - 6' 6"	15
8' (2438mm)	2 - 4'	4	20' 6" (6248mm)	1 - 6' 6" 2 - 7'	9	33' (10058mm)	4 - 6' 6" 1 - 7'	15
8' 6" (2590mm)	1 - 4' 1 - 4' 6"	4	21' (6400mm)	3 - 7'	9	33' 6" (10210mm)	3 - 6' 6" 2 - 7'	15
9' (2743mm)	2 - 4' 6"	4	21' 6" (6553mm)	2 - 7' 1 - 7' 6"	9	34' (10363mm)	2 - 6' 6" 3 - 7'	15
9' 6" (2895mm)	1 - 4' 6" 1 - 5"	4	22' (6705mm)	1 - 7' 2 - 7' 6"	9	34' 6" (10515mm)	1 - 6' 6" 4 - 7'	15
10' (3048mm)	2 - 5'	4	22' 6" (6858mm)	3 - 7' 6"	9	35' (10668mm)	5 - 7'	15
10' 6" (3200mm)	1 - 5' 1 - 5' 6"	4	23' (7010mm)	2 - 5' 6" 2 - 6'	8	35' 6" (10820mm)	4 - 7' 1 - 7' 6"	15
11' (3352mm)	2 - 5' 6"	4	23' 6" (7162mm)	1 - 5' 6" 3 - 6'	8	36' (10970mm)	3 - 7' 2 - 7' 6"	15
11' 6" (3505mm)	1 - 5' 6" 1 - 6'	4	24' (7315mm)	4 - 6'	8	36' 6" (11125mm)	2 - 7' 3 - 7' 6"	15
12' (3657mm)	2 - 6'	4	24' 6" (7467mm)	3 - 6' 1 - 6' 6"	9	37' (11277mm)	1 - 7' 4 - 7' 6"	15
12' 6" (3810mm)	1 - 6' 1 - 6' 6"	5	25' (7620mm)	2 - 6' 2 - 6' 6"	10	37' 6" (11430mm)	5 - 7' 6"	15
13' (3962mm)	2 - 6' 6"	6	25' 6" (7772mm)	1 - 6' 3 - 6' 6"	11	38' (11582mm)	2 - 6' 4 - 6' 6"	16
13' 6" (4114mm)	1 - 6' 6" 1 - 7'	6	26' (7924mm)	4 - 6' 6"	12	38' 6" (11734mm)	1 - 6' 5 - 6' 6"	15
14' (4267mm)	2 - 7'	6	26' 6" (8077mm)	3 - 6' 6" 1 - 7'	12	39' (11887mm)	6 - 6' 6"	18
14' 6" (4419mm)	1 - 7' 1 - 7' 6"	6	27' (8229mm)	2 - 6' 6" 2 - 7'	12	39' 6" (12039mm)	5 - 6' 6" 1 - 7'	18
15' (4572mm)	2 - 7' 6"	6	27' 6" (8382mm)	1 - 6' 6" 3 - 7'	12	40' (12192mm)	4 - 6' 6" 2 - 7'	18
15' 6" (4724mm)	2 - 5' 1 - 5' 6"	6	28' (8534mm)	4 - 7'	12	40' 6" (12344mm)	3 - 6' 6" 3 - 7'	18

FINNED TUBE RADIATION

1. Copper-aluminum element shall be 3/4" (19mm) nominal I.D. seamless copper with 2 1/2" x 3 1/4" (64x83mm) aluminum fin. Fins to be stamped for rigidity and have integral collars to provide even spacing and maximum heat transfer. Tube ends suitable for sweat connecting. Element hangers shall be provided for mounting to enclosure brackets and shall consist of a rigid galvanized steel wire hanger with a nylon roller bearing to allow for free expansion. Centre on minimum 3 ft. (0.9m).
2. Enclosure cabinets shall be constructed of 18 gauge (1.2mm) _____ 16 gauge (1.5mm) satin coat steel with electrostatically applied powder coat prime finish. Unless otherwise indicated, cabinets will be supported at the top by a continuous joggle strip mounted to the wall and at the bottom by support brackets on not more than 3 ft. (0.9m) centres. Enclosure cabinets shall have pencil proof louvres. Enclosure cabinets shall have self-aligning butt joint connections consisting of two female end adapters and a loose male joiner strip to insure a smooth joint between adjacent enclosure pieces.
3. Enclosure cabinet sizes and styles shall be Airtex Hydronic Systems as indicated on drawings and/or schedules.

FINNED TUBE RADIATION SCHEDULE (BASED ON AIRTEX HYDRONIC SYSTEMS)			
TYPE ON PLAN	MODEL	BTU / HR /FT (kW /m)	REMARKS

helpful hints