EngFlo

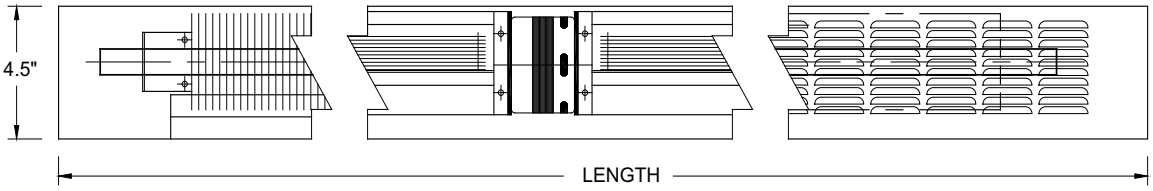
Forced Convection Radiators

AIRTEX™

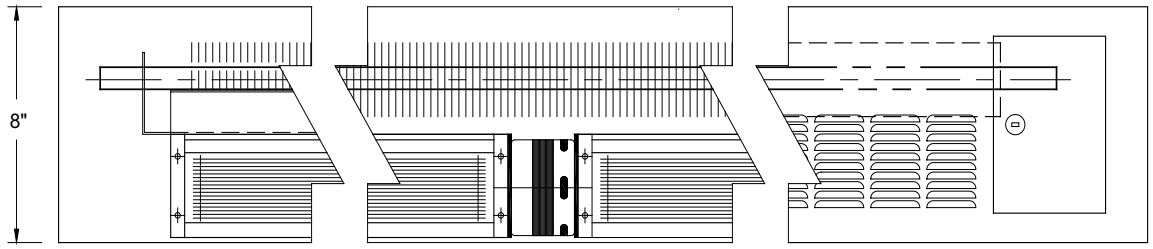
HYDRONIC SYSTEMS

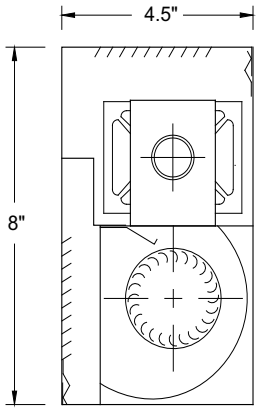
HEAT TRANSFER DIVISION

TOP VIEW



FRONT VIEW





SIDE VIEW

IMPERIAL

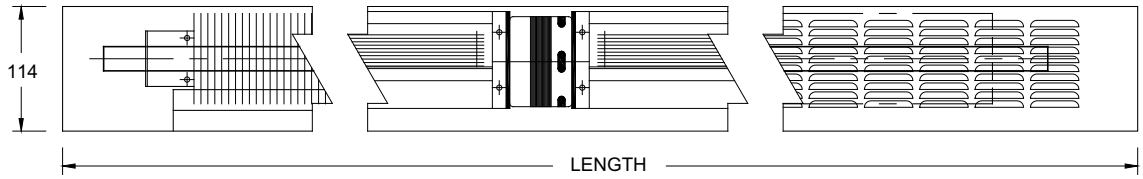
MODEL No. LENGTH	NOMINAL CFM	MOTOR RPM	MOTOR HP	MOTOR AMPS	WATER T.D. °F	200°F EWT		180°F EWT		160°F EWT		2 PSIG STEAM	
						CAP. (MBH)	FLOW (GPM)	CAP. (MBH)	FLOW (GPM)	CAP. (MBH)	FLOW (GPM)	CAP. (MBH)	FLOW (LBS/HR)
EF-50 50 in.	185	1100	1/80	0.6	10	12.46	2.50	10.31	2.10	8.24	1.70	14.4	14.95
					20	**11.06**	**1.10**	**8.89**	**0.92**	**7.21**	**0.92**		
	260	1550			10	15.72	3.1	13.07	2.60	10.34	2.1	18.04	18.65
					20	**13.99**	**1.4**	**11.14**	**1.10**	**8.50**	**0.92**		
					30	12.65	0.92	10.55	0.92	—	—		
EF-100 100 in.	370	1100	(2) 1/80	1.2	10	25.89	5.1	21.73	4.3	17.54	3.5	28.93	29.90
					20	**24.19**	**2.4**	**19.92**	**2.0**	**15.47**	**1.5**		
					30	22.49	1.5	18.03	1.2	13.39	0.92		
					40	20.35	1.0	16.64	0.92	—	—		
	520	1550			10	32.13	6.4	26.93	5.3	21.65	4.3	35.32	36.51
					20	**29.95**	**3.1**	**24.45**	**2.4**	**18.96**	**1.8**		
					30	27.46	1.8	22.25	1.5	16.56	1.1		
					40	25.60	1.3	19.69	1.0	15.35	0.92		

NOTE: 0.92 GPM IS MINIMUM RECOMMENDED WATER FLOW

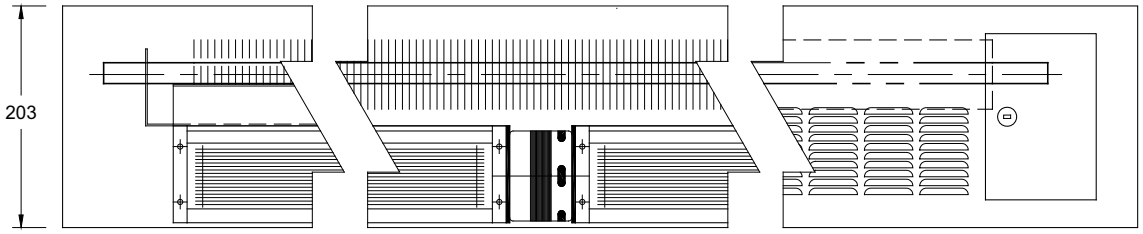
IMPERIAL

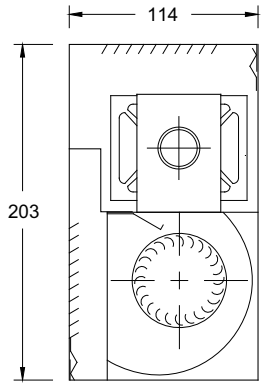
EngFlo WITH ELEMENT ONLY	ROWS	STEAM CAP./FT 1 PSI AT 65°F AIR	HOT WATER CAPACITY BTU/HR/FT AT 65°F AIR AVERAGE WATER TEMPERATURE °F					
		BTU/HR/FT	220	210	200	190	180	170
3/4" COPPER TUBE 2 1/2" x 3 1/4" ALUMINUM FIN	1	950	1000	900	820	740	655	580

TOP VIEW



FRONT VIEW





SIDE VIEW

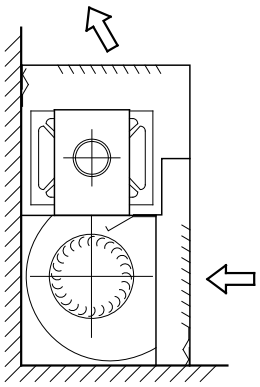
METRIC

MODEL No. LENGTH	NOMINAL L/s	MOTOR RPM	MOTOR WATTS	MOTOR AMPS	WATER T.D. °C	93°C EWT		82°C EWT		71°C EWT		13 kPa STEAM	
						CAP. (kW)	FLOW (L/s)	CAP. (kW)	FLOW (L/s)	CAP. (kW)	FLOW (L/s)	CAP. (kW)	FLOW (KG/HR)
EF-50 1270mm	87	1100	9	0.6	6	3.66	0.16	3.03	0.13	2.42	0.11	4.24	6.8
					11	**3.25**	**0.07**	**2.61**	**0.06**	**2.12**	**0.06**		
	123	1550			6	4.62	0.20	3.84	0.16	3.04	0.13	5.31	8.5
					11	**4.11**	**0.09**	**3.28**	**0.07**	**2.5**	**0.06**		
					16	3.72	0.06	3.10	0.06	—	—		
EF-100 2540mm	175	1100	(2) 9	1.2	6	7.61	0.32	6.39	0.27	5.16	0.22	8.51	13.6
					11	**7.11**	**0.15**	**5.86**	**0.13**	**4.55**	**0.09**		
					16	6.61	0.09	5.30	0.08	3.94	0.06		
					22	5.99	0.06	4.89	0.06	—	—		
	245	1550			6	9.45	0.40	7.92	0.33	6.37	0.27	10.39	16.6
					11	**8.81**	**0.20**	**7.19**	**0.15**	**5.58**	**0.11**		
					16	8.08	0.11	6.54	0.09	4.87	0.07		
					22	7.53	0.08	5.79	0.06	4.51	0.06		

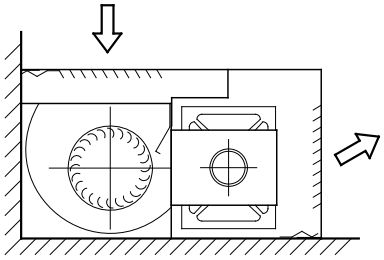
NOTE: 0.06 L/s IS MINIMUM RECOMMENDED WATER FLOW.

METRIC

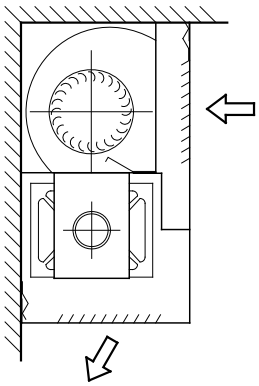
EngFlo WITH ELEMENT ONLY	ROWS	STEAM CAP./FT 6.89 kPa AT 18°C	HOT WATER CAPACITY kW/m AT 18°C AIR AVERAGE WATER TEMPERATURE °C					
		kW/m	104	99	93	88	82	77
19mm COPPER TUBE 64mm x 83mm ALUMINUM FIN	1	0.91	0.96	0.87	0.79	0.71	0.63	0.56



WALL

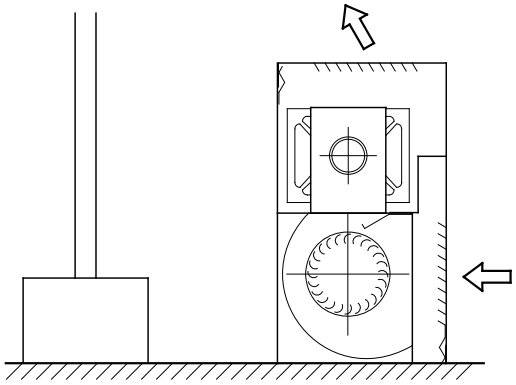


FLOOR

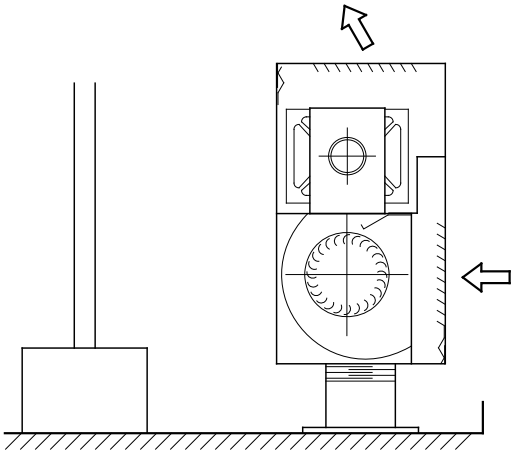


* CEILING

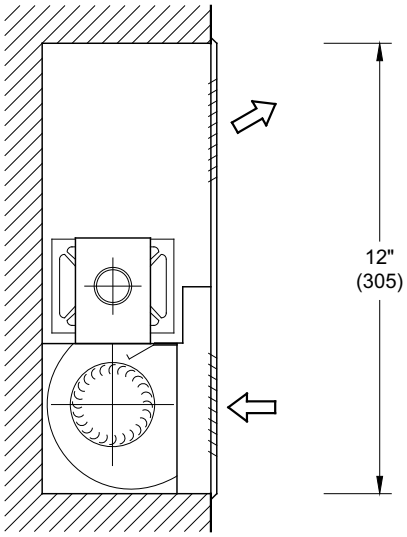
* RECOMMENDED FOR USE ONLY WITH HOT WATER COIL CONTROL SEQUENCE OR CONTINUOUS FAN OPERATION.



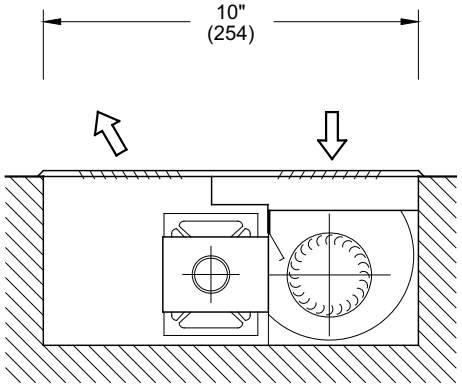
FREE STANDING FLOOR



FREE STANDING PEDESTAL MOUNT



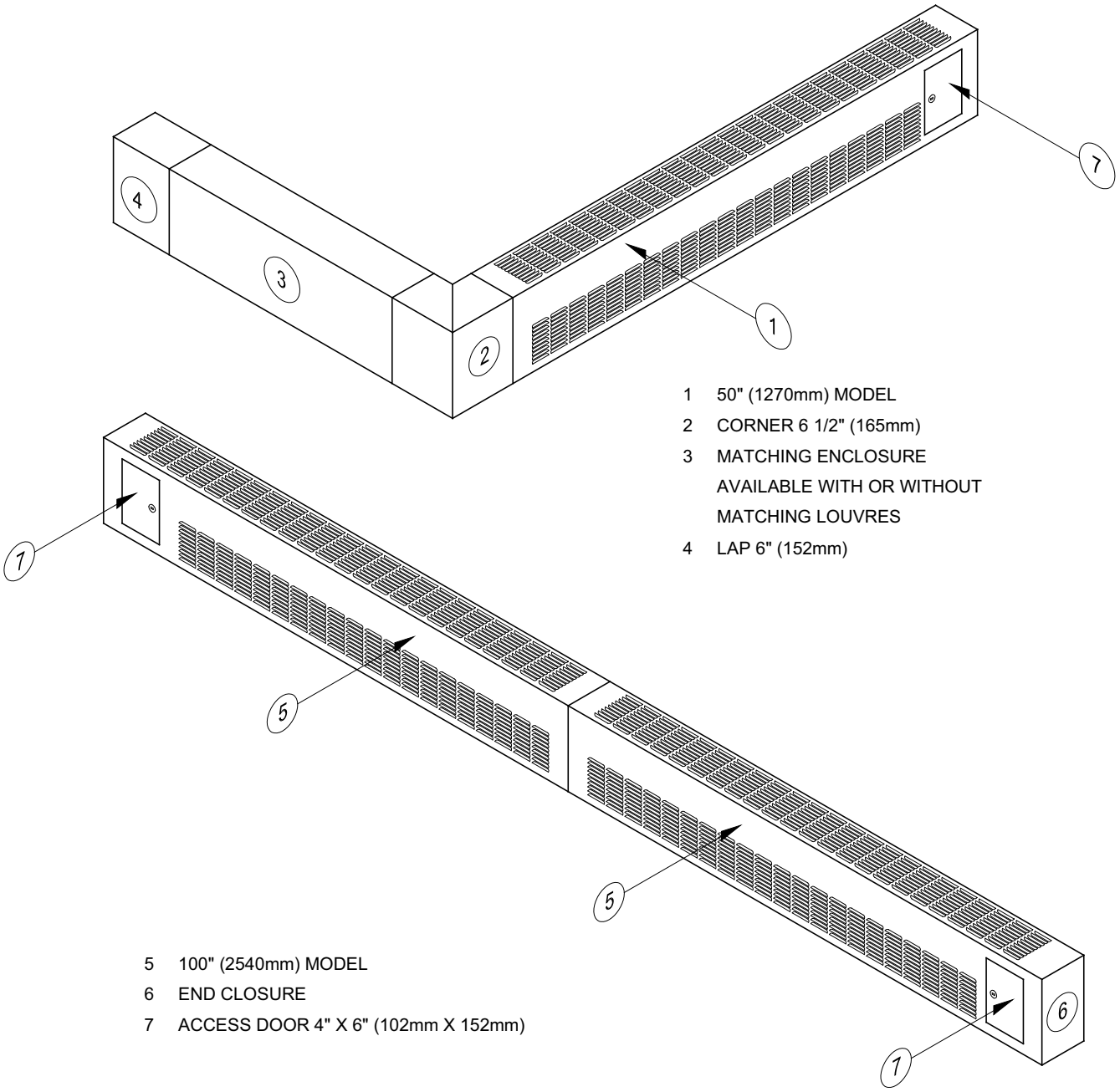
RECESSED WALL



RECESSED FLOOR

Airtex EngFlo forced convection finned tube radiation features high capacity in a small profile. Quality aluminum tangential blowers provide forced convection for those high heat loss areas. Rugged 16 gauge (1.5mm) construction is standard in our two units, EF-50, 50” (1270mm) and EF-100, 100” (2540mm). The EF-100 consists of (2) 50” (1270mm) covers and (1) 100” (2540mm) base unit.

Airtex EngFlo units can be mounted in a variety of different arrangements; wall mounted, floor mounted, ceiling hung, free standing and recessed in wall or floor. Custom configurations and materials are also available.



1 50" (1270mm) MODEL
2 CORNER 6 1/2" (165mm)
3 MATCHING ENCLOSURE AVAILABLE WITH OR WITHOUT MATCHING LOUVRES
4 LAP 6" (152mm)

5 100" (2540mm) MODEL
6 END CLOSURE
7 ACCESS DOOR 4" X 6" (102mm X 152mm)

FORCED CONVECTION RADIATORS

1. Heating element shall consist of 2 1/2 x 3 1/4” (64 x 83mm) aluminum fins mechanically bonded to 3/4” (19mm) nominal I.D. copper tubing suitable for sweat connection fittings.

2. Blowers shall be heavy duty tangential type statically and dynamically balanced for quiet vibration free operation. Blower wheels shall be all aluminum staked construction with steel housing.

3. Motors shall be shaded pole open type with permanently lubricated sleeve bearings and inherent thermal overload protection. Motors shall be 115/1/60, 0.6 amps, 1550 RPM high speed, 1100 RPM low speed. Model EF-50 incorporates one motor and two blowers; model EF-100 consists of two motors and four blowers.

4. Enclosure shall be low profile 8” (203mm) constructed of 16 gauge (1.5mm) satin coat steel with electrostatically applied powder coat prime finish. Enclosure cabinets shall have self-aligning butt joint connections consisting of a male end and a female end to insure a smooth joint between adjacent enclosure pieces.

5. Provide factory installed options:
   _____ 3-speed plus off fan switch
   _____ modulating speed control
   _____ fused starter with toggle switch
   _____ line voltage thermostat
   _____ key lock access door

6. Multiple EngFlo units connected in series shall include all necessary end caps, corners, laps and matching panels.

7. Controls shall include unit _____ remote, mounted off-high-low speed switch and/or unit _____ remote, mounted line voltage thermostat.

FORCED CONVECTION RADIATOR SCHEDULE
(BASED ON AIRTEX HYDRONIC SYSTEMS)

TYPE ON PLAN	MODEL	ARRANGEMENT	MBH (kW)	HP (WATTS)	REMARKS