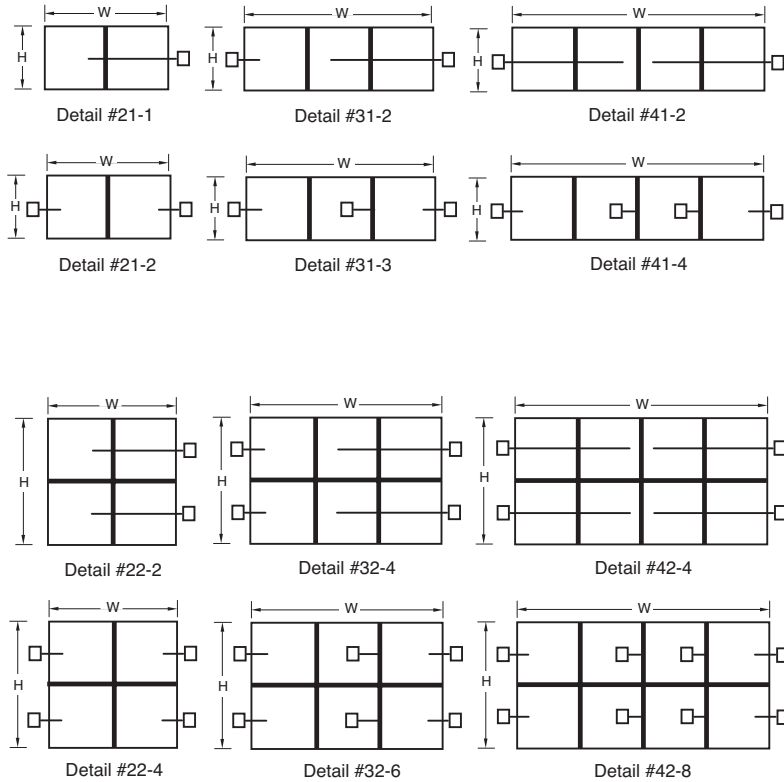
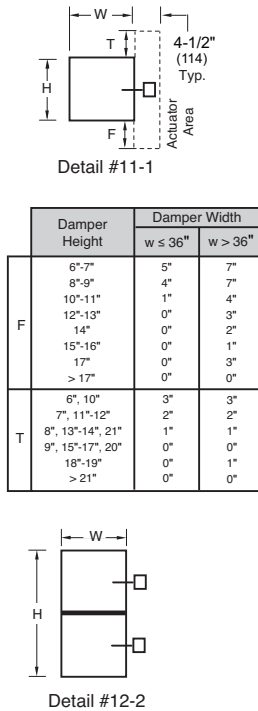


The following installation details apply to models **FSD-181** and **FSD-182 (2000 fpm)**

Notes

1. The details shown below reflect maximum actuator/damper size limitations based on testing to UL-555S and default, 2-position, spring-return electric actuators rated for maximum 2000 fpm at 4" static pressure.
2. All actuators must be factory installed and multiple actuators on a single assembly are factory wired to a common connection.
3. Dampers larger than 32"w x 48"h are manufactured in multiple section assemblies consisting of equal size sections not exceeding 32"w x 48"h.
4. Actuators installed out of the air stream may extend above or below the height of the damper. Refer to table below for details.

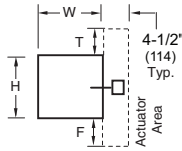
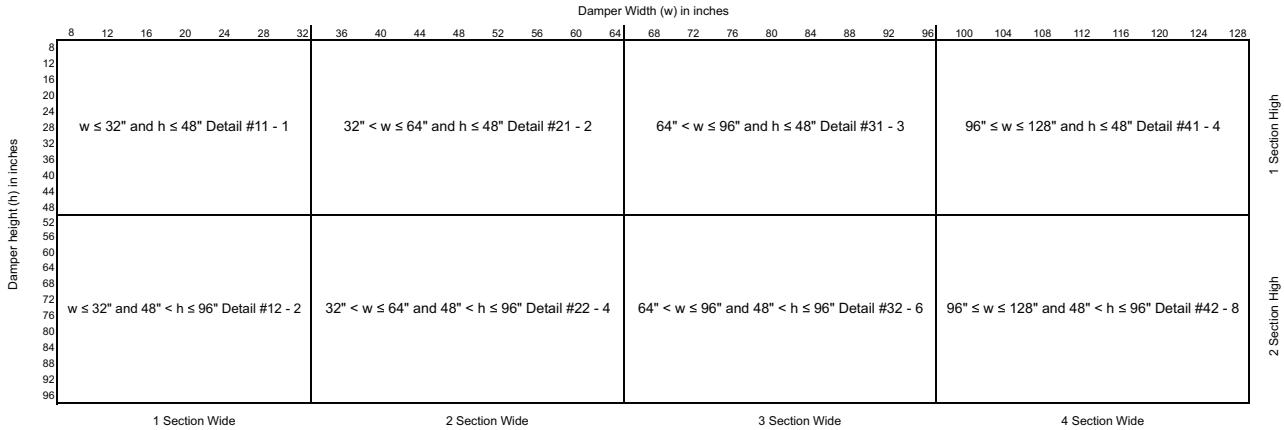
		Damper Width (w) in inches																															
		8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	
Damper height (h) in inches	1 Section High	w ≤ 32" and h ≤ 48" Detail #11 - 1								32" < w ≤ 64" and h ≤ 33" Detail #21 - 1								64" < w ≤ 96" and h ≤ 33" Detail #31 - 2								96" ≤ w ≤ 128" and h ≤ 33" Detail #41 - 2							
	2 Section High									w ≤ 32" and 48" < h Detail #12 - 2								32" < w ≤ 64" and 33" < h ≤ 48" Detail #21 - 2								64" < w ≤ 96" and 33" < h ≤ 48" Detail #31 - 3							
		1 Section Wide																2 Section Wide								3 Section Wide							



The following installation details apply to models **FSD-181** and **FSD-182 (3000 fpm)**

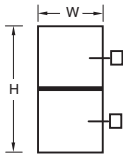
Notes

1. The details shown below reflect maximum actuator/damper size limitations based on testing to UL-555S and default, 2-position, spring-return electric actuators rated for maximum 3000 fpm at 4" static pressure.
2. All actuators must be factory installed and multiple actuators on a single assembly are factory wired to a common connection.
3. Dampers larger than 32" w x 48" h are manufactured in multiple section assemblies consisting of equal size sections not exceeding 32" w x 48" h.
4. Actuators installed out of the air stream may extend above or below the height of the damper. Refer to table below for details.

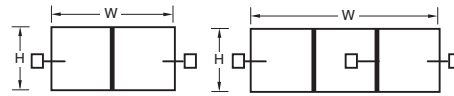


Detail #11-1

	Damper Height	Damper Width	
		w ≤ 32"	w > 32"
F	6"-7"	5"	7"
	8"-9"	4"	7"
	10"-11"	1"	4"
	12"-13"	0"	3"
	14"	0"	2"
	15"-16"	0"	1"
	17"	0"	3"
> 17"	0"	0"	
T	6", 10"	3"	3"
	7", 11"-12"	2"	2"
	8", 13"-14", 21"	1"	1"
	9", 15"-17", 20"	0"	0"
	18"-19"	0"	1"
	> 21"	0"	0"

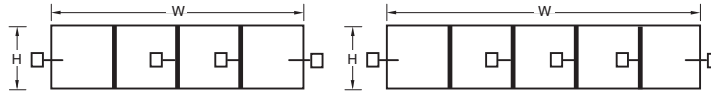


Detail #12-2



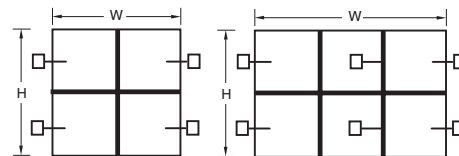
Detail #21-2

Detail #31-3



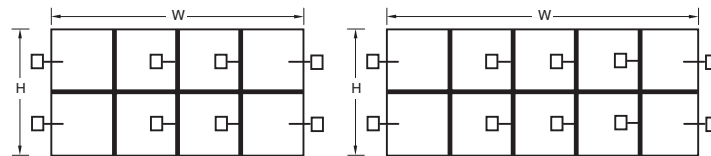
Detail #41-4

Detail #51-5



Detail #22-4

Detail #32-6



Detail #42-8

Detail #52-10