

1-800-GRAINGER (472-4643)

Selecting the Right Size Cooler

Evaporative cooling for residential use is typically limited to lower humidity areas and works best when the dew point is less than 50°F. Coolers are up to 75% more economical than refrigerated air conditioning, making them an ideal source of cooling in western and southwestern regions of the U.S.



Coolers can be used across the U.S. to filter intake air in laundries. They are also excellent in makeup air applications in every state, and they are commonly used in agricultural and greenhouse operations.

Note: Square footages are 8-ft. ceiling heights and are approximations only. Assume an 80°F desired room temp. Since cooling requirements can vary, contact your salesperson if additional information is needed

Ind. Std. Rating*	Item No.	Motor HP	Approximate Square Footage Cooled†		
			A	B	C
6500	4RNP6/4RNP7/2YAE6/2YAE7	1	2200	2400	2600
6500	4RNR1/4RNR2/2YAF1/2YAF2	1	1800	2000	2200
6500	4RNN9/4RNP3/2YAD9/2YAE3	3/4	1600	1800	2000
4800	4RNP8/4RNP9/2YAE8/2YAE9	3/4	1400	1600	1800
4800	4RNR3/4RNR4/2YAF3/2YAF4	3/4	1200	1400	1600
4500	4RNP1/4RNP4/2YAE1/2YAE4	1/2	1200	1400	1600
5000	4RNN6/2YAD5	1/2	1100	1300	1500
4500	2YAD6	1/2	1000	1200	1400
4000	4RNN7/2YAD7	1/2	900	1100	1300
3000	4RNP2/4RNP5/2YAE2/2YAE5	1/2	800	1000	1200
3000	4RNN8/2YAD8	1/2	500	600	700

* Ind. Std. Rating is a numerical rating for comparing similar models and sizing purposes. † Static pressures, vaulted ceiling, heat load, etc., can dramatically reduce the approximate square footage cooled in this chart.

Average Coverage Area		Air Flow	H			W	D	Brand	Item No.	
Drive Package With Motor Not Included										
Down Discharge										
600 to 1100 sq ft	3,000 cfm	33 7/16 in	28 1/2 in	28 1/2 in	28 1/2 in	175 lb	Essick Air	7AC45	—	
700 to 1200 sq ft	4,400 to 4,900 cfm	34 1/2 in	34 1/2 in	34 1/2 in	34 1/2 in	269 lb	Essick Air	7AC36	—	
1200 to 1600 sq ft	5,500 to 6,500 cfm	42 7/16 in	39 in	39 in	39 in	983 lb	Essick Air	7K580	—	
Side Discharge										
500 to 700 sq ft	3,000 cfm	33 7/16 in	28 1/2 in	28 1/2 in	28 1/2 in	175 lb	Essick Air	7AC44	—	
700 to 1200 sq ft	4,100 to 4,600 cfm	34 1/2 in	34 1/2 in	34 1/2 in	34 1/2 in	269 lb	Essick Air	7AC35	—	
1200 to 1800 sq ft	5,500 to 6,500 cfm	42 7/16 in	39 in	39 in	39 in	983 lb	Essick Air	7K581	—	
Drive Package With Motor Included, Requires Assembly										
Down Discharge										
1000 to 1400 sq ft	4,800 cfm	2 in	1/2 hp	35 3/4 in	34 in	34 in	262.4 lb	Dayton	4RNP4	—
1400 sq ft	3,800 cfm	2 in	1/2 hp	28 1/4 in	28 in	28 in	172 lb	Dayton	4RNP5	—
1400 sq ft	6,800 cfm	2 in	3/4 hp	42 1/4 in	37 in	37 in	326.3 lb	Dayton	4RNP3	—
Side Discharge										
1000 to 1400 sq ft	4,800 cfm	2 in	1/2 hp	35 3/4 in	34 in	34 in	262.4 lb	Dayton	4RNP4	—
1400 sq ft	3,800 cfm	2 in	1/2 hp	28 1/4 in	28 in	28 in	172 lb	Dayton	4RNP5	—
1400 sq ft	6,800 cfm	2 in	3/4 hp	42 1/4 in	37 in	37 in	326.3 lb	Dayton	4RNP3	—



Multiple-Inlet Residential Ducted Evaporative Coolers

Distribute cool air throughout a home. Units have multiple inlets to draw in air. Media fits at the inlets to provide a sufficient wet surface area for cooling warm air. Units are typically used to replace multiple-inlet coolers in older installations. 453D81 includes a thermostat. Find Residential Ducted Evaporative Cooler Accessories on Grainger.com.



2YAE5



5FTT5



Multiple-Inlet Commercial Ducted Evaporative Coolers

■ 2" pad thickness

Multiple inlets create high cooling capacity for large buildings. Their slim media fits at the inlets to provide a sufficient wet surface area for cooling warm air drawn into the cooler. Units with drive motor package are 1-speed and include motor, pulley, pump, and float. Find Commercial Ducted Evaporative Cooler Accessories on Grainger.com.

Average Coverage Area		Air Flow	Pump HP	Voltage	H	W	D	Operating Weight	3-PHASE 208-230/460V AC Item No.	1-PHASE 115/208-230V AC Item No.
Drive Package With Motor Included, Requires Assembly										
Down Discharge										
4000 sq ft	7,500 cfm	3/4 hp	115	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	398 lb	7K590	7K588
	7,500 cfm	3/4 hp	230	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	398 lb	7K591	7K589
	8,500 cfm	1 hp	115	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	403 lb	—	7K592
	8,500 cfm	1 hp	230	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	403 lb	—	7K593
10,000 sq ft	16,000 cfm	2 hp	115	61 1/4 in	62 in	62 in	62 in	940 lb	7K576	—
	16,000 cfm	2 hp	230	61 1/4 in	62 in	62 in	62 in	940 lb	7K577	—
	18,000 cfm	3 hp	115	61 1/4 in	62 in	62 in	62 in	979 lb	7K578	—
	18,000 cfm	3 hp	230	61 1/4 in	62 in	62 in	62 in	979 lb	7K579	—
	21,000 cfm	5 hp	115	61 1/4 in	62 in	62 in	62 in	983 lb	7K580	—
21,000 cfm	5 hp	230	61 1/4 in	62 in	62 in	62 in	983 lb	7K581	—	
Side Discharge										
4000 sq ft	7,500 cfm	3/4 hp	115	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	451 lb	7K596	7K594
	7,500 cfm	3/4 hp	230	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	451 lb	7K597	7K595
	8,500 cfm	1 hp	115	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	455 lb	—	7K598
	8,500 cfm	1 hp	230	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	455 lb	—	7K599
10,000 sq ft	16,000 cfm	2 hp	115	61 1/4 in	62 in	62 in	62 in	1044 lb	7K582	—
	16,000 cfm	2 hp	230	61 1/4 in	62 in	62 in	62 in	1044 lb	7K583	—
	18,000 cfm	3 hp	115	61 1/4 in	62 in	62 in	62 in	1083 lb	7K584	—
	18,000 cfm	3 hp	230	61 1/4 in	62 in	62 in	62 in	1083 lb	7K585	—
	21,000 cfm	5 hp	115	61 1/4 in	62 in	62 in	62 in	1087 lb	7K586	—
21,000 cfm	5 hp	230	61 1/4 in	62 in	62 in	62 in	1087 lb	7K587	—	

Average Coverage Area		Air Flow	H	W	D	Item No.
Drive Package With Motor Not Included						
Down Discharge						
2000 to 4000 sq ft	7,500 to 8,500 cfm	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	5FTT6
4000 to 10,000 sq ft	14,000 to 21,000 cfm	61 1/4 in	62 in	62 in	62 in	5FTT4
Side Discharge						
2000 to 4000 sq ft	7,500 to 8,500 cfm	53 3/8 in	41 1/4 in	41 1/4 in	41 1/4 in	5FTT7
4000 to 10,000 sq ft	14,000 to 21,000 cfm	61 1/4 in	62 in	62 in	62 in	5FTT5

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