



## Supply Or Make-Up Air Ventilation

The total amount of air supplied is approximately 100% of the air exhausted. Insufficient make-up air in the kitchen can create hood capture problems. There are two general types of make-up air, untempered and tempered. Here are some things to consider when selecting the supply portion of your kitchen ventilation system.

- A slight negative pressure is desirable in a kitchen to keep odors out of the dining room (should not exceed 0.02" static pressure)
- Make-up air must be supplied at ±10°F from air in the space
- Use non-directional perforated diffusers (4-way diffusers are not recommended in kitchen applications)

Untempered filtered supply ventilators are the most economical solution if heating or cooling is required and all codes can be met. Untempered air should be supplied near the hood at low velocities so it can be exhausted quickly without mixing in the space, causing discomfort and increasing heating/cooling costs.

Tempered direct-fired make-up air heaters provide the best comfort in the kitchen. Supply tempered air through a source that will distribute air throughout the kitchen to increase comfort. Northern climates almost always require heated make-up air.

### INSTALLATION

- NFPA 96**
- Intake must be a minimum of 10 ft. from exhaust ventilator,
  - Or
  - Exhaust ventilator discharge must be a minimum of 36" higher than intake



4YC47

**Dayton**



Wheel Dia. (in)	Supply Airflow @ 0.000 in SP (cfm)	Max. Static Pressure (in wc)	Motor HP	Base Dim. (in Square)	Compatible Curb Grainger Part Number	Open Dripproof, 1-Phase Motor Nameplate Voltage (AC)	Item No.	Open Dripproof, 3-Phase Motor Nameplate Voltage (AC)	Item No.	Totally Enclosed Fan Cooled, 1-Phase Motor Nameplate Voltage (AC)	Item No.	Totally Enclosed Fan Cooled, 3-Phase Motor Nameplate Voltage (AC)	Item No.
<b>Fans with Drive</b>													
<b>Roof Mount</b>													
15 1/2	3,447	1/2	1/2	34 1/2	2RB80, 2ZV84, 3C438, 4C455, 4HX42, 4HX50	115/208-230V	7D505	—	—	115/208-230V	7HY92	208-230/460V	7HY93
	3,899	5/8	3/4	34 1/2		115/208-230V	7D506	—	—	115/208-230V	7HY94	208-230/460V	7HY95
	4,317	3/4	1	34 1/2		115/208-230V	7D507	208/220/440V	7D519	115/208-230V	7HY96	—	—
	4,801	7/8	1 1/2	34 1/2		115/230V	7D508	208-230/460V	7D520	115/208-230V	7HY98	208-230/460V	7HY99
	5,284	1	2	34 1/2		—	—	208-230/460V	7D521	—	—	208-230/460V	7HZ00
18 1/2	6,671	3/4	1 1/2	42	2RB81, 2ZV85, 3C597, 3C598, 4HX43, 4HX51	—	—	208-230/460V	7D522	115/208-230V	7HZ01	208-230/460V	7HZ02
	7,300	7/8	2	42		—	—	208-230/460V	7D523	—	—	208-230/460V	7HZ03
	8,301	1	3	42		—	—	208-230/460V	7D524	—	—	208-230/460V	7HZ04
	9,791	1 1/2	5	42		—	—	208-230/460V	7D525	—	—	208-230/460V	7HZ05
20 1/2	14,948	2	10	46	2RB82, 2ZV85, 3C597, 3C598, 4HX44, 4HX52	—	—	208-230/460V	7D528	—	—	208-230/460V	7HZ08
<b>Roof and Wall Mount</b>													
11 1/2	1,177	1/8	1/6	30	2RB79, 2ZV83, 3C437, 4C454, 4HX41, 4HX49	115/208-230V	7D494	—	—	115V	7HY73	—	—
	1,702	1/4	1/6	30		115/208-230V	7D495	—	—	115/208-230V	7HY75	—	—
	1,954	3/8	1/4	30		115/208-230V	7D496	—	—	115/208-230V	7HY76	—	—
	2,156	1/2	1/2	30		115/208-230V	7D497	—	—	115/208-230V	7HY77	—	—
	2,468	5/8	1/2	30		115/208-230V	7D498	—	—	115/208-230V	7HY79	—	—
	2,808	3/4	3/4	30		115/208-230V	7D499	—	—	115/208-230V	7HY81	208/230/460V	7HY82
	3,092	1	1	30		115/208-230V	7D501	—	—	115/208-230V	7HY84	208-230/460V	7HY85
13 1/4	3,402	1/2	3/4	34 1/2	2RB80, 2ZV84, 3C438, 4C455, 4HX42, 4HX50	115/208-230V	7D502	—	—	115/208-230V	7HY86	208-230/460V	7HY87
	3,801	5/8	1	34 1/2		—	—	208/220/440V	7D515	—	—	230/460V	7HY89
	3,801	1	1	34 1/2		115/208-230V	7D503	—	—	—	—	—	—
	4,176	7/8	1 1/2	34 1/2		115/230V	7D504	208-230/460V	7D516	115/208-230V	7HY90	208-230/460V	7HY91

Wheel Dia. (in)	For Airflow (cfm)*	Max. Static Pressure (in wc)	For Fan Speed (RPM)†	For Motor HP†	Base Dimensions (in Square)	Compatible Curb Grainger Part Number	Item No.
<b>Fans without Drive</b>							
<b>Roof Mount</b>							
15 1/2	1,065 to 5,284	1	535 to 820	1/2 to 2	34 1/2	2RB80, 2ZV84, 3C438, 4C455, 4HX42, 4HX50	4YC63
18 1/2	3,134 to 9,791	1 1/2	573 to 841	1 1/2 to 5	42	2RB81, 2ZV85, 3C597, 3C598, 4HX43, 4HX51	5AU56
20 1/2	5,202 to 14,948	2	642 to 804	5 to 10	46	2RB82, 2ZV85, 3C597, 3C598, 4HX44, 4HX52	5AU57
<b>Roof and Wall Mount</b>							
13 1/4	1,760 to 4,176	7/8	550 to 890	1/2 to 1 1/2	34 1/2	2RB80, 2ZV84, 3C438, 4C455, 4HX42, 4HX50	4YC47
11 1/2	735 to 3,092	1	415 to 1,090	1/6 to 1	30	2RB79, 2ZV83, 3C437, 4C454, 4HX41, 4HX49	4YC82

\* Flow depends on the motor used. † Motor sold separately.



3GY2



3GYF1

## Roof Repair Tapes, Primers, Sealers, and Tools

Used to prepare roof surfaces and repair damage to seal leaks and maintain the roof's weather barrier. **Tapes** stick to roof surfaces and create a waterproof seal to stop leaks and prevent water damage. **Primers** prepare a surface by binding with dirt particles and smoothing the surface to create a consistent, dirt-free surface for the roof tape to stick to. **Sealers** create flexible yet durable waterproof coatings and seals around ductwork, flashing, and other roof penetrations.



1YXC3

1YXC2

Width	Length	Color	Thick-ness	Brand	Item No.	Width	Length	Color	Thick-ness	Includes	Brand	Item No.
<b>Roof Tapes</b>												
<b>Aluminum</b>												
6 in	25 ft	Silver	45 mil	Quick Roof	3TNZ3	4 in	5 ft	Black	35 mil	Tape And Surface Prep Pad	Eternabond	3GYH2
6 in	25 ft	White	45 mil	Quick Roof	3TNZ5			White				3GYH1
<b>MicroSealing Technology</b>												
2 in	50 ft	Silver	20 mil	Eternabond	3GYH6	Type	Container Type	Container Size	Dry Time	Color	Brand	Item No.
2 in	50 ft	Gray	25 mil	Eternabond	3GYJ1							
2 in	50 ft	Gray	60 mil	Eternabond	3GYE8	<b>Roofing Sealers &amp; Primers</b>						
4 in	25 ft	Black	65 mil	Eternabond	3GYF6	Primer	Can	1 qt	15 min	Clear	Eternabond	3GYF1
4 in	25 ft	White	65 mil	Eternabond	3GYF8		Spray Can	14 oz	15 min	Clear	Eternabond	3GYF2
4 in	50 ft	Silver	20 mil	Eternabond	3GYE7	Sealant	Tube	10.3 oz	24 hr	Black	Hercules	4FR17
4 in	50 ft	Gray	25 mil	Eternabond	3GYG4		Pail	1 qt	24 hr	Black	Hercules	4FR18
4 in	50 ft	Black	35 mil	Eternabond	3GYF4	Type	Head Length	Head Material	Fill Type	Overall Length	Brand	Item No.
4 in	50 ft	White	35 mil	Eternabond	3GYG2							
4 in	25 ft	Black	65 mil	Eternabond	3GYF7	<b>Tools</b>						
6 in	50 ft	Gray	25 mil	Eternabond	3GYG5	Roller	8 in	Steel	—	8 in	Eternabond	3GYH4
6 in	50 ft	Black	35 mil	Eternabond	3GYF5		6 1/2 in	Wood	White Tampico	6 in	Tough Guy	1YXC3
6 in	50 ft	White	35 mil	Eternabond	3GYG3	Brush	7 in	Wood	Polypropylene	7 in	Tough Guy	1YXC2
12 in	50 ft	Gray	25 mil	Eternabond	3GYG8		7 in	Wood	White Tampico	7 in	Tough Guy	1YXC1
12 in	50 ft	Black	35 mil	Eternabond	3GYF3		7 in	Wood	—	7 in	Tough Guy	2PYW3
8 3/4 in	8 in	Wood	White Tampico	8 in	Tough Guy		1YXC4					
4 in	10 ft	Black	34 mil	Gorilla	499L91	Pick Point Tool	8 in	Steel	—	8 in	Eternabond	3GYH5
4 in	10 ft	White	34 mil	Gorilla	61CU85							