

Adj. 12"H

Dayton

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.

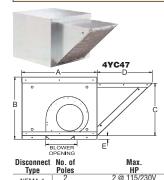
Tempered direct-fired make-up air heaters provide the best comfort in the kitchen. Supply tempered air through a source that will distribute air throughout the kitchen to increase comfort. Northern climates almost always require heated make-up air.

INSTALLATION

NFPA 96

 Intake must be a minimum of 10 ft. from exhaust ventilator.

Exhaust ventilator discharge must be a minimum of 36" higher than intake



Centrifugal Belt-Drive Filtered Supply Ventilators



RECOMMENDED ROOF CURBS Fixed 8"H Fixed 12"H Adj. 6%"H A



■ Max. inlet air temp.: 120°F

- UL 705 Listed for Power Ventilators
- Air handling-quality bearings meet min. L10-100,000 hr.

Wheel

■ Bearings: sealed pillow block (20½" units are regreasable pillow block)

Supply untempered, filtered makeup air to commercial and institutional buildings, or in commercial kitchen applications. Heavy-gauge galvanized steel construction. Neoprene isolators, lifting lugs, and weather hood with removable 1" aluminum washable filters. 4YC82 and 4YC47 can be wall- or roof-mounted. 4YC83, 5AU56, and 5AU57 are roof-mount only. Motor, belts, and sheaves are packed separately when complete ventilator with drive package is ordered. BLOWER OPENING Discharge Dischar

Dimensions (in.)

		EMING								neei	Discharge	Discharge		DIME	ensions	(111.)			H FIXEQ IZ"H		
Disco	nnect N	lo. of		Ma	ax.			Item	Dia	. (in.)	Length (in.)	Width (in.)	A (sq.)	В	C	D		Item No	. Item No.	Item N	o. Item No.
Typ	oe F	Poles		Н				No.	11	1/8 in	11 % in	13 % in	30	25	211/4	22	11/2	4HX41	2RB79	4C45	
NICAA	Λ 4	2	2	@ 11	5/230V		1	H400	13	1/4 in	13 ¾ in	15 % in	341/2	32	271/2	291/4	2	4HX42	2RB80	4C45	5 2ZV84
NEM	AI	3	7½@	230V.	. 10 @ 4	160V		H401	15	½ in	16 in	18 % in	341/2	32	271/2	291/4	2	4HX42	2RB80	4C45	5 2ZV84
NICAA	Λ 4	2	2	@ 11	5/230V		-	H408	18	½ in	19 1/8 in	22 1/4 in	42	36	303/4	32	2	4HX43	2RB81	3C59	
NEM	A 4	3	7½ @	230V,	, 10 @ 4	160V	1	H409	20	1/2 in	25 % in	23 in	46	48	433/4	36	2	4HX44	2RB82	3C59	7 2ZV85
												Ct	MPLETE	WITH	DRIVE	PACKAG	F**				
									Sones	Onen D	ripproof, 1-Phase							ase Tota	Ily Enclosed	3-Phase	WITHOUT DRIVE
Wheel									@ 0 250"	Motor	, 115/230V, 60 Hz	Motor 1	15/230V.				60V, 60		tor, 230/460V		PACKAGE**
Dia.	CEM A	ir Deliv	ery @ Stat	lic Pre	S ariiss	hown*	Motor	Max.	SP	motor	Item	motor, r	Item	00 112	moto	Iten			Item	, 00 112	Item
(in.)			0.375" 0				HP	BHPt			No.		No.			No.			No.		No.
()	735			_			1/6	0.04	_		7D493		7HY73								1101
	1.435	1.106	_	_	_	_	1/6	0.18	11.3		7D494		7HY74			_			_		
	1.722	1.472	1.115	_	_	_	1/4	0.28	11.4		7D495		7HY75			_			_		
11 1/8		1.730		.048	_	_	1/3	0.39	12.8		7D496		7HY76			_			_		4YC82
	2.293	2.100		.667	_	_	1/5	0.61	15.9		7D497		7HY77			7D51	10		7HY78		
	2.661	2,485		2.140	1.661	_	3/4	0.92	20		7D498		7HY79			7D51			7HY80		
	2.959	2.804		2,500	2.142	1.585	1	1.24	24		7D499		7HY81			7D51			7HY82		
	2.254	1.760					1/3	0.3	12.8		7D500		7HY83								
	2.714	2.414	1,916	_	_	_	1/2	0.5	16.2		7D501		7HY84			7D51	13		7HY85		
13 1/4	3.139	2.902		2.117	_	_	3/4	0.75	21		7D502	1	7HY86			7D51	14		7HY87		4YC47
	3.557	3.353	3.119 2	2.747	_	_	1	1.06	24		7D503	1	7HY88			7D51	15		7HY89		
	3.948	3.762		3.314	2,607	_	11/2	1.43	27		7D504		7HY90			7D51			7HY91		
	3,102	2,708		,065	_	_	1/2	0.54	11.2		7D505		7HY92			7D51	17		7HY93		
	3,597	3,280	2,831 2	2,293	_	_	3/4	0.81	15.8		7D506	1	7HY94			7D51	18		7HY95		
15 1/2	4,049	3,760		2,985	1,591	_	1	1.13	18.7		7D507		7HY96			7D51			7HY97		4YC83
	4,560	4,304		3,719	2,854	_	11/2	1.58	22		7D508	1	7HY98			7D52			7HY99		
	5,066	4,837		1,371	3,650	2,681	2	2.13	26		_		_			7D52			7HZ00		
	6,220	5,814		1,740	3,134	_	11/2	1.66	18.7		7D509		7HZ01			7D52			7HZ02		
18 ½	6,874	6,531		5,604	4,431	_	2	2.2	23		_		_			7D52			7HZ03		5AU56
10 72	7,926	7,604		3,858	5,995	4,894	3	3.3	29		_		_			7D52			7HZ04		34030
	9,474	9,168		3,643	7,935	7,218	5	5.52	39				_			7D52			7HZ05		
			10,676 1			7,781	5	5.5	34		_		_			7D52			7HZ06		
20 ½			12,491 1				71/2	8.26	44		_		_			7D52			7HZ07		5AU57
	14,602	14,255	13,920 1	3,597	12,841	11,952	10	11.03	53				_			7D52	28		7HZ08		
* Dorf	rmance	cortifi	ad ic for in	ctallat	tion tuni	a R. fraa	inlot	ductor	loutlet +	Dower	ratina (RUD) dooc	not include	tranemie	ecion l	necae I	Oorform.	anco rai	inac inc	luda tha affaci	te of a filt	or

^{*} Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a filter. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation in Type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.



4HX61

NFPA 96 Required Accessories Ventilated Roof Curbs-Ventilate hot

exhaust ducts in commercial kitchen applications, protecting buildings and roof members. Galvanized steel curbs allow for quick ventilator installation and uniformity throughout the job. Fixed curbs are 18 ga.; adjustable curbs are 16 ga. Flat-flashing flange mounts directly to roof surface. Top flange surface is 13/4" wide. For use with NFPA 96, UL 705, and UL 762 applications.

Grease Collector Box—Diverts and collects heavy grease residue while protecting roof surface. Fastens directly to curb underneath ventilator and includes connection from ventilator drain to Grease Box. Required for NFPA 96 and UL 762.

Hinge Kits-Allow ventilators to swing back to expose the entire fan for cleaning and inspection, making maintenance easier. Includes retaining cable and hardware kit. Upblast Hinge Kits are required for NFPA 96 and UL 762.

Clean-Out Port Kit-Retrofits ventilator with a cleanout port for access to the ventilator wheel through the windband. Required for NFPA 96. Includes removable plug and hardware. Required for NFPA 96 and UL 762.

Curb	Outside	Inside	Use w/Dayton	Item						
	Square (in.)		Ventilators	No.						
Adjustable V	entilated Roo	f Curbs, 5 in l	Flashing							
24 in	17 ½ to 22	14 ½ to 18	Sq. Base 19 to 201/2"	4HX61						
24 in	24 to 29	21 to 26	Sq. Base 251/2 to 271/2"	4HX62						
18 in	31 to 46	28 to 43	Sq. Base 32½ to 44½*	4HX63						
Fixed Ventilated Roof Curbs, 4 in Flashing										
24 in	17 ½ in	14 in	19" Sq. Base	4HX54						
24 in	20 ½ in	17 in	22" Sq. Base	4HX55						
24 in	24 ½ in	21 in	26" Sq. Base	4HX56						
24 in	28 ½ in	25 in	30" Sq. Base	4HX57						
18 in	32 ½ in	29 in	34" Sq. Base	4HX58						
18 in	40 ½ in	37 in	42" Sq. Base	4HX59						
18 in	44 ½ in	41 in	46" Sq. Base	4HX60						

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(in.)	(in.)	(in.)	Mounted Centrifugal Ventilators	No.
Greas	se Col	lector	Box	
6	12	5	Upblast	48C174
Hinge	Kits .	- Upbl		
_	_	_	Upblast, 17" to 30" Sq. Base	4HX79
_	34	34	Upblast, 34" Sq. Base	20CK53
_	40	40	Upblast, 40" Sq. Base	20CK54
_	42	42	Upblast, 42" Sq. Base	20CK55
_	46	46	Upblast, 46" Sq. Base	20CK56

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(in.)	(in.)	(in.)	Mounted Centrifugal Ventilators	No.						
Hinge	e Kits	- Dowi	ıblast							
_	34	34	Downblast, 34" Sq. Base	20CK47						
_	40	40	Downblast, 40" Sq. Base	20CK48						
_	42	42	Downblast, 42" Sq. Base	20CK49						
_	46	46	Downblast, 46" Sq. Base	20CK50						
_	52	52	Downblast, 52" Sq. Base	20CK51						
_	64	64		20CK52						
Clean-Out Port Kit										
7	_	7	Upblast	3ATV9						

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