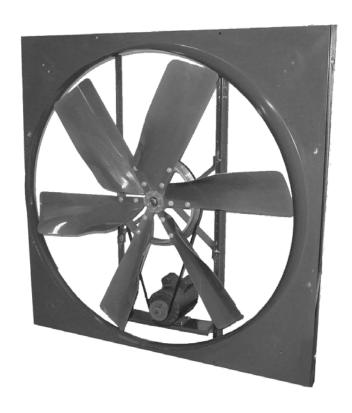
CONTROLLED ENVIRONMENT SYSTEMS FOR FARM BUILDINGS



FARM BUILDING VENTILATION

TYPE



FANS



FARM PRODUCTS DIVISION

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TYPE NBF FANS

ECONOMICAL, PRACTICAL, EFFECTIVE

American Coolair's Type NBF fan provides the solution to fresh air ventilation in most types of farm buildings. Type NBF fans are built to give you years of heavy-duty trouble-free service. The rugged, belt-driven construction operates in any position, has permanently lubricated ball bearings, and is available with single- or two-speed totally enclosed motors. Coolair has developed a complete ventilation system for farm use combining the Type NBF fan with a Type LRW all aluminum shutter and heavy gauge galvanized steel wall housing (square box or slope) for exterior mounting, allowing a maximum of unobstructed interior space.



EXCLUSIVE DRIVE ASSEMBLY

Our engineers have developed an innovative drive assembly for the Type NBF fan. Power is applied through V-belts directly to the propeller with blade load concentrated directly over the bearings to eliminate overhung bearing load. The exclusive, time tested design has been widely acclaimed by engineers. Our use of quality materials and precise engineering techniques in constructing wheel assemblies assure you of years of quiet, trouble-free service.

BASIC COMPONENTS

Both the fan panel and the uprights which support the motor and propeller are formed from heavy-gauge steel for maximum strength and rigidity. The propeller is composed of a heavy cast wheel with six die formed blades individually mounted.

Painted parts are coated with a thermosetting epoxy coating to provide a protective coating rated excellent for hardness, impact resistance, adhesion and chemical resistance.

PERFORMANCE AND EFFICIENCY

When economy is measured in terms of cubic feet of air per minute per dollar invested, the Type NBF wall exhaust fan is unsurpassed. American Coolair's Type NBF fan is today's best investment. Coolair uses only the most efficient totally enclosed ball bearing motors available. Motors up through 1 horsepower are resilient base.



TYPE FWH (SQUARE BOX) WALL HOUSING

Coolair's FWH wall housing is an exterior unit to house the Type NBF fan and the Type LRW shutter. The shutter is mounted on the discharge. The FWH wall housing is constructed of heavy gauge galvanized steel and is attached to the exterior walls.

TYPE SWH (SLOPE) WALL HOUSING

The *slope* wall housing allows the shutter to be placed on the intake side of the fan and eliminates air turbulence that occurs with the shutter on the down-wind side of the fan. Locating the shutter on the inlet prevents the warm air from being lost through the metal wall housing to the outside cold air in cold climate conditions. The *slope* wall housing is constructed of galvanized steel for long, durable wear and low maintenance.





TYPE SWHCE (SLOPE) WALL COLLAR WITH CONE

The SWHCE package provides the ultimate in energy efficiency with the addition of a discharge cone to the slope housing. The discharge cone minimizes exhaust air turbulence, yielding more airflow at lower power levels. Both the housing and discharge cone are constructed of durable galvanized steel. Like the SWH package, the SWHCE's aluminum inlet shutter prevents heat loss in cold climate conditions.

PERFORMANCE RATINGS

AMERICAN COOLAIR CORPORATION certifies that the performance data for the type NBF wall fan models shown below are based on tests conducted in an accredited laboratory in accordance with ANSI/AMCA Standard 210-07.

NBF Fan, SWH Slope Wall Housing, Inlet Shutter & Discharge Guard

ĺ	CUBIC FEET PER MINUTE (CFM) AT STATIC PRESSURE													
				0" S	0" S.P05"		S.P.	.10" S.P.		.15" S.P.		.20" S.P.		
Fan Model	Fan Size	Motor HP	Fan RPM	CFM	CFM/ Watt	CFM	CFM/ Watt	CFM	CFM/ Watt	CFM	CFM/ Watt	CFM	CFM/ Watt	Ship Wt.
MNBF24G		1/4	688	5,139	16.7	4,871	15.2	4,564	13.7	4,191	12.2	3,750	10.5	153
MNBF24H	24	1/3	769	5,744	14.4	5,507	13.2	5,245	12.0	4,946	10.8	4,587	9.6	156
MNBF24J	24	1/2	891	6,655	13.2	6,453	12.4	6,234	11.7	6,000	10.9	5,738	10.1	161
MNBF24K		3/4	1042	7,783	9.5	7,611	9.1	7,432	8.7	7,241	8.2	7,039	7.8	165
MNBF30G		1/4	491	6,933	22.6	6,379	20.0	5,771	17.5	4,982	14.5	3,753	10.3	179
MNBF30H	30	1/3	531	7,498	20.6	6,988	18.5	6,441	16.4	5,809	14.2	4,848	11.0	182
MNBF30J	30	1/2	641	9,051	17.7	8,632	16.3	8,197	15.0	7,734	13.8	7,225	12.5	186
MNBF30K		3/4	739	10,435	13.1	10,073	12.3	9,701	11.6	9,316	10.8	8,912	10.1	189
MNBF36H		1/3	447	9,395	25.9	8,706	22.5	7,942	19.3	6,762	14.8	5,518	11.5	228
MNBF36J	36	1/2	524	11,013	23.6	10,428	21.0	9,823	18.9	9,106	16.8	8,054	13.8	234
MNBF36K		3/4	615	12,962	16.9	12,429	15.5	11,923	14.3	11,395	13.2	10,783	12.1	238
MNBF36L		1	692	14,544	13.8	14,103	12.9	13,656	12.1	13,201	11.4	12,721	10.7	244
MNBF42J		1/2	371	13,406	29.7	12,324	25.6	10,929	21.4	9,717	18.1	7,516	13.1	315
MNBF42K	42	3/4	430	15,538	21.9	14,656	19.7	13,470	17.2	12,346	15.1	11,297	13.3	318
MNBF42L		1	492	17,778	17.3	17,034	16.0	16,093	14.5	15,000	13.0	14,062	11.9	324
MNBF48J		1/2	307	16,379	30.8	14,925	27.1	13,237	23.6	11,045	18.9	6,023	10.2	352
MNBF48K	48	3/4	358	18,518	23.8	17,249	21.5	15,772	19.3	14,239	17.2	11,899	13.8	356
MNBF48L	40	1	380	19,656	22.0	18,474	20.1	17,100	18.4	15,686	16.6	13,993	14.5	362
MNBFH48L		1	408	21,104	19.0	20,018	17.5	18,764	16.2	17,449	14.9	16,074	13.5	363
MNBFA54L		1	374	25,231	23.1	23,668	21.0	22,150	19.2	20,406	17.3	17,646	14.7	413
MNBFA54M	54	1 1/2	414	27,929	18.2	26,511	16.8	25,144	15.5	23,716	14.3	21,956	12.9	425
MNBFA54N		2	446	30,088	14.2	28,767	13.1	27,493	12.1	26,209	11.3	24,773	10.5	434
MNBF60M		1 1/2	323	31,400	21.7	29,400	20.0	27,400	18.4	24,500	16.0	21,100	13.4	611
MNBF60N	60	2	365	35,100	17.0	33,500	15.9	31,800	14.8	29,800	13.7	27,700	12.4	609
MNBF60P		3	414	39,800	14.5	38,300	13.7	36,800	13.0	35,300	12.3	33,400	11.6	635

NBF Fan, SWHCE Slope Wall Housing, Inlet Shutter, Discharge Cone & Guard

MNBFC36J		1/2	524	11,720	27.1	11,061	24.1	10,406	20.9	9,722	18.6	8,815	15.9	270
MNBFC36K	36	3/4	615	13,756	19.6	13,192	18.0	12,635	16.2	12,074	14.6	11,492	13.4	274
MNBFC36L		1	692	15,478	16.1	14,976	15.0	14,480	13.8	13,985	12.7	13,485	11.8	279
MNBFC48K		3/4	358	20,249	27.6	19,110	24.7	17,669	21.3	15,853	18.6	13,914	15.9	407
MNBFC48L	48	1	380	21,493	23.4	20,435	21.3	19,136	18.7	17,501	17.6	15,744	14.7	414
MNBFCH48L		1	408	23,077	19.4	22,103	18.0	20,947	16.2	19,530	14.5	17,898	13.1	415
MNBFAC54L		1	374	27,537	25.3	25,598	23.1	23,368	20.9	20,675	18.6	18,337	16.1	457
MNBFAC54M	54	1 1/2	414	30,482	21.0	28,744	19.5	26,832	18.0	24,568	16.5	22,102	14.8	469
MNBFAC54N		2	446	32,838	18.8	31,229	17.6	29,506	16.5	27,539	15.3	25,250	14.1	478
MNBFC60M		1 1/2	325	34,300	24.2	32,300	22.0	30,100	19.9	27,000	17.1	22,700	14.0	659
MNBFC60N	60	2	367	38,500	19.6	36,800	18.1	35,000	16.7	32,600	15.0	30,000	13.6	657
MNBFC60P		3	413	43,300	17.0	41,800	15.8	40,100	14.8	38,290	13.5	36,110	12.6	684

AMERICAN COOLAIR CORPORATION certifies that the performance data for the type NBF circulator fan models shown below is based on tests conducted in an accredited laboratory in accordance with ANSI/AMCA Standard 230-99.

NBF Circulator Fan

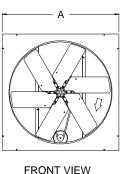
Fan Model	Fan Size	Motor HP	Fan RPM	Thrust Eff. Lb/kW	CFM	CFM/ Watt	Ship Wt.
NBF36J	36	1/2	524	22.7	16,590	30.9	136
NBF36L	30	1	692	20.7	21,399	22.0	145
NBFH48L	48	1	408	23.6	30,719	31.4	205
NBFA54L		1	374	23.1	35,365	32.9	227
NBFA54M	54	1 1/2	414	21.4	40,853	26.5	239
NBFA54M		2	446	20.0	45,244	21.4	247
NBF60M		1 1/2	323	19.8	43,042	28.2	363
NBF60N	60	2	365	18.6	48,377	23.1	361
NBF60P		3	414	17.3	55,451	20.0	386

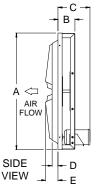


DIMENSIONS AND DRAWINGS

TYPE NBF FANS

	_	_			
Fan Model	Α	В	С	D	E
NBF24	32	5 1/8	12 1/2	4	5
NBF30	38	5 1/8	12 1/2	4	5 1/8
NBF36	44	5 1/8	13 1/4	4	5 1/4
NBF42	50	5 1/8	13 1/4	4	5 7/8
NBF48	56	5 1/8	13 1/4	4	6 1/4
NBFA54	62	5 1/8	13 1/4	4	6 1/2
NBF60	68	6 1/8	18	4	6



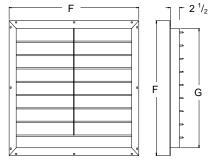


TYPE LRW SHUTTER (ALL ALUMINUM)

TYPE NBF FANS in SWHCE (SLOPE)

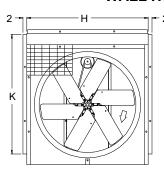
WALL COLLAR WITH CONE

Shutter Model	F O.D.	G* I.D.	Ship. Wt.
LRW27	30 1/4	27	12
LRW33	36 1/4	33	14
LRW39	42 1/4	39	17
LRW45	48 1/4	45	20
LRW51	54 1/4	51	24
LRW57	60 1/4	57	30
LRW66	69 1/4	66	38



For Net Opening Add 1/2" to I.D.

TYPE NBF FANS in SWH (SLOPE) WALL HOUSING



FRONT VIEW

Н

32 3/8

38 3/8

44 3/8

50 3/8

56 3/8

62 3/8

68 1/4

J

37 11/16

44 1/2

50 5/16

56 5/16

62 3/8

68 11/16

74 1/4

Fan

Model MNBF24

MNBF30

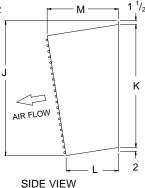
MNRF36

MNBF42

MNBF48

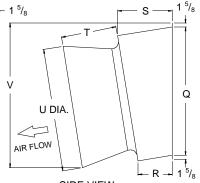
MNBF54

MNBF60



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1 ⁵/₈ Q



54 1/2

72 1/16

78 1/2

FRONT VIEW

SIDE VIEW

М		Fan Model	Р	Q	R	S	Т	U
29 1/16		MNBFC36	44 3/8	44 13/16	19 3/8	26 5/16	24 1/2	43 5/8
29 1/16		MNBFC48	56 3/8	57	16 5/16	25 1/8	32 3/8	59 3/4
29 9/16	<u> </u>	MNBFAC54	62 3/8	63 1/16	11 1/8	20 7/8	33 7/8	62 1/16
29 11/16		MNBFC60	68 1/4	69 1/8	14	24 1/2	36 1/8	68
30 1/2				ı			ı	
32 9/16					imited We			

69 1/8 Rough Opening for SWH and SWHCE Housings:

Add 1/2" to 'H' or 'P' for Width For 4" Wall: Add 11/4" to 'K' or 'Q' for Height For 2" Wall: Add 3/4" to 'K' or 'Q' for Height For 6" Wall: Add 11/2" to 'K' or 'Q' for Height

Κ

32 11/16

38 3/4

44 13/16

50 15/16

57

63 1/16

L

23 7/8

22 1/2

21 3/4

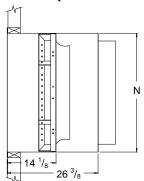
21 5/8

22 3/4

22 1/4

33

TYPE FWH (SQUARE BOX) WALL HOUSING



FARM PRODUCTS DIVISION

Model	N	Ship. Wt.
FWH24	32 3/8	43
FWH30	38 3/8	51
FWH36	44 3/8	77
FWH42	50 3/8	87
FWH48	56 3/8	97
FWH54	62 3/8	108

Rough Opening Add 1/2" to 'N'

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In the sale of its products American Coolair Corporation agrees to correct by repairs or replacement any defects in workmanship or material which may develop under proper or normal use during the period of one year from date of shipment from factory. Any product or part proving upon American Coolair's examination to be defective during limited warranty period will be replaced or repaired, at American Coolair's option. f.o.b. factory, without charge. Deterioration or wear caused by chemicals, abrasive action or excessive heat shall not constitute defects. Motors are guaranteed only to the extent of the manufacturer's warranty. American Coolair's limited warranty does not apply to any of its products or parts warranty. American coolairs similed warranty over his apply to any of its products or parts that have been subject to accidental damage, misuse by the user, unauthorized alterations, improper installation or electrical wiring, or lack of proper lubrication or other service requirements established by American Coolair. Repairs or replacements provided under the above terms shall constitute fulfillment of all American Coolair's obligations with respect to limited warranty. THE LIMITED WARRANTY STATED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING WITHOUT LIMITATION THAT OF MERCHANTABILITY AND FITNESS. No liability for reinstallation cost or for any special, indirect or consequential damages of any nature is assumed or shall be imposed upon American Coolair

WARNING

CAUTION



DO NOT INSTALL FAN WITH MOVING PARTS WITHIN 8 FEET OF FLOOR OR GRADE LEVEL WITHOUT A GUARD THAT COMPLIES WITH OSHA REGULATIONS. <u>DO NOT</u> USE UNLESS ELECTRICAL WIRING COMPLIES WITH ALL APPLICABLE CODES. <u>DO NOT</u> WIRE WITHOUT PROVIDING FOR A POWER SOURCE DISCONNECT AT THE FAN ITSELF. <u>DO NOT</u> SERVICE EXCEPT BY A QUALIFIED MAINTENANCE TECHNICIAN AND ONLY AFTER DISCONNECTING THE POWER SOURCE. FAILURE TO OBSERVE THESE PRECAUTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.

WARNING: If these ventilation products are used in agricultural structures to support life where failure of the ventilation could result in loss or injury, the user must provide an adequate back-up ventilation system and a failure alarm system. The user must accept the risk of such loss or injury from failure of the ventilation system.