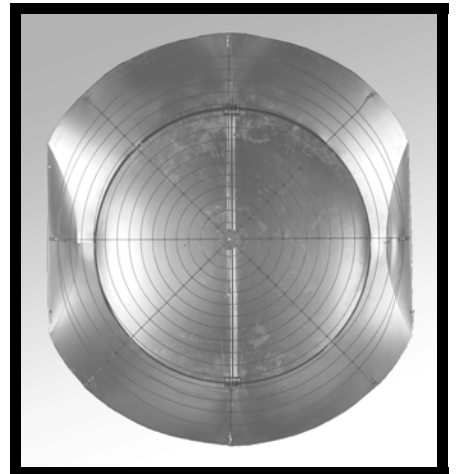
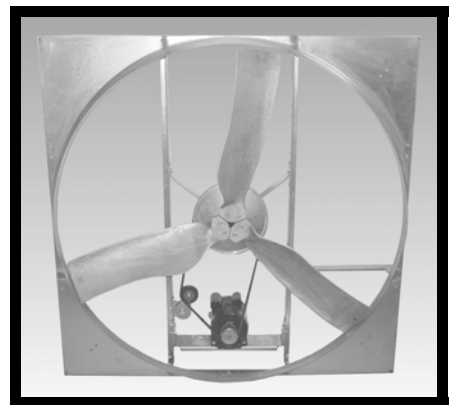
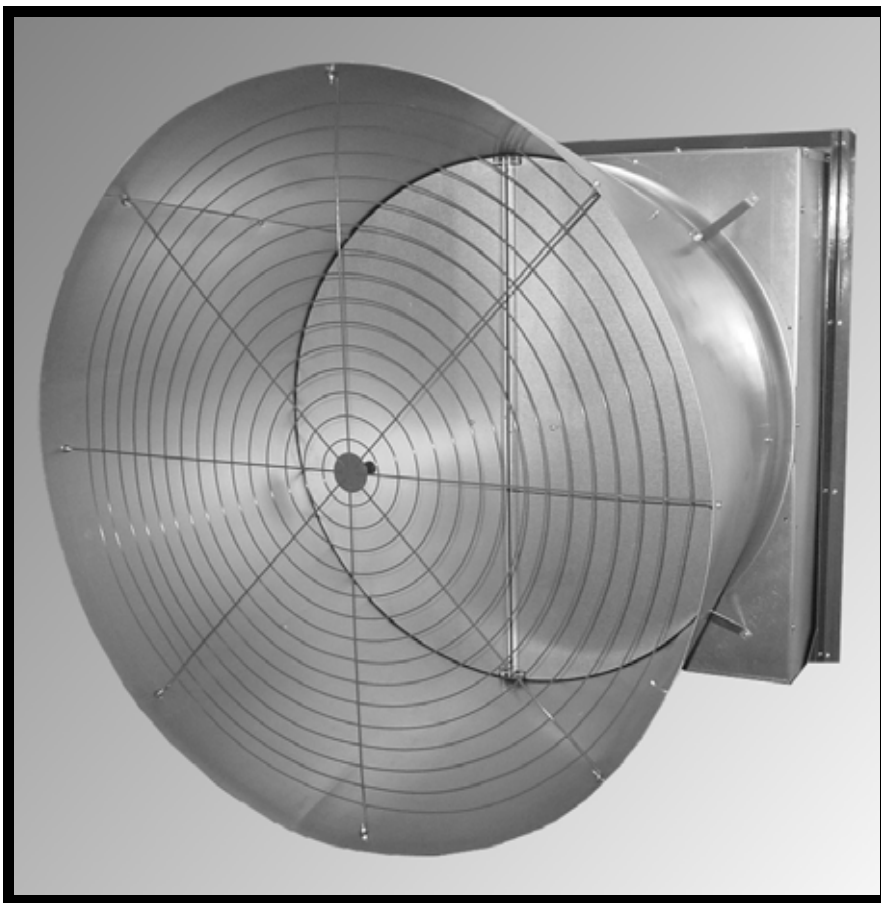


Type
NBCDD and NEFDD
Damper Door
Farm Building Ventilation Packages



FARM PRODUCTS DIVISION

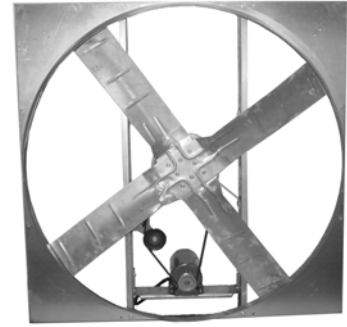
MEMBER OF AMCA
AMERICAN COOLAIR CORPORATION
P.O. BOX 2300
JACKSONVILLE, FLORIDA 32203
PHONE (904) 389-3646 FAX (904) 387-3449
E-MAIL – agfans@coolair.com
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MNEFDD

The MNEFDD fan package features American Coolair's NEF fan — the perfect combination of efficiency and economy. With the ability to ship knocked-down, the MNEFDD is ideal for export.

Performance is maximized with the use of the MNEFDD's damper door design. When the unit is energized, the doors fully open automatically, reducing blockage in the airstream to a minimum and optimizing airflow. When the unit is powered off, the doors automatically close, and seal magnetically. Gasketing around the circumference of the doors provides a complete weather barrier.

All MNEFDD fan packages also include an automatic belt tensioner, and inlet and discharge guards.



NEF52 Fan

Performance Ratings

The performance ratings listed below were obtained through testing by the Bioenvironmental and Structural Systems Lab (BESS Lab) at the University of Illinois. All fans were tested with an inlet guard, a discharge cone with doors and a discharge guard. The fan housing was mounted flush to the test chamber face, as in an actual building installation. Power measurements were taken on the fan/motor combination and include motor efficiency and drive losses.



CUBIC FEET PER MINUTE (CFM) AT STATIC PRESSURE														
Fan Model	Fan Size	BESS Lab Test #	Motor HP	Fan RPM @.05"	0" S.P.		.05" S.P.		.10" S.P.		.15" S.P.		.20" S.P.	
					CFM	CFM / Watt	CFM	CFM / Watt	CFM	CFM / Watt	CFM	CFM / Watt	CFM	CFM / Watt
MNEFDD36J	36	12435	1/2	754	12,010	26.6	11,280	23.0	10,340	19.4	9,560	17.0	8,590	14.4
MNEFDD36K		12436	3/4	885	14,000	20.8	13,420	18.7	12,660	16.4	11,970	15.3	11,180	13.1
MNEFDD36L		12437	1	1020	16,040	16.7	15,610	14.6	14,920	13.9	14,330	12.5	13,640	11.3
MNEFDD36J Δ		12440	1/2	764	12,240	24.7	11,470	21.4	10,660	18.6	9,810	16.1	8,910	13.9
MNEFDD36K Δ		12439	3/4	885	14,020	20.1	13,470	18.1	12,740	15.8	12,000	14.2	11,270	12.5
MNEFDD36L Δ		12438	1	1021	16,090	16.2	15,640	14.5	15,060	13.1	14,320	12.2	13,670	11.1
MNEFDD52L	52	07215	1	485	27,249	27.9	25,457	23.9	23,342	20.2	20,738	16.9	17,425	13.4
MNEFDD52M		07213	1 1/2	518	28,723	24.8	27,351	22.1	25,350	19.1	23,049	16.4	20,765	14.2
MNEFDD52L Δ		07217	1	480	26,956	38.2	25,275	23.7	22,846	19.9	20,263	16.6	17,864	14.0
MNEFDD52M Δ		07216	1 1/2	521	29,027	25.7	27,302	22.5	25,400	19.2	23,403	16.9	20,910	14.5
MNEFDD54LE	54	11399	1	419	26,000	37.0	23,400	29.9	20,600	24.2	17,600	19.6	14,300	15.4
MNEFDD54L		11400	1	455	28,100	30.7	25,900	25.8	23,200	21.3	20,300	17.6	17,500	14.4
MNEFDD54ME		11401	1 1/2	488	29,800	28.6	28,000	25.1	25,500	21.2	23,200	18.2	20,700	15.5
MNEFDD54M		11402	1 1/2	515	31,100	25.8	29,700	23.2	27,700	20.3	25,100	17.3	22,800	15.0
MNEFDD54LE Δ		11398	1	424	26,200	37.4	23,900	31.0	21,000	25.0	18,100	20.3	15,100	16.2
MNEFDD54L Δ		11397	1	462	28,600	33.2	26,600	28.1	23,800	23.0	21,000	19.1	18,500	16.0
MNEFDD54ME Δ		11396	1 1/2	494	30,200	31.7	28,600	27.7	26,600	24.0	23,700	19.8	20,900	16.6
MNEFDD54M Δ		11395	1 1/2	521	30,900	26.8	29,800	24.4	28,300	22.1	26,200	19.3	23,400	16.2

Δ — 3-Phase Motor

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.

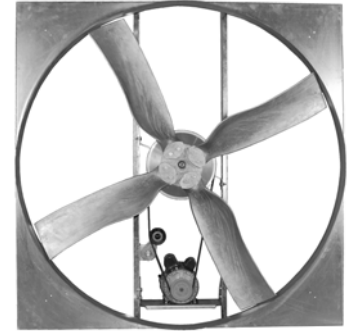
ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

MNBCDD

The MNBCDD fan package features American Coolair's NBC cast blade fan. Featuring aerodynamic airfoil blades and Coolair's unique static shaft hub assembly with four bearings, the NBC has been specifically engineered for superior efficiency and durability.

Performance is maximized with the use of the MNBCDD's damper door design. When the unit is energized, the doors fully open automatically, reducing blockage in the airstream to a minimum and optimizing airflow. When the unit is powered off, the doors automatically close and seal magnetically. Gasketing around the circumference of the doors provides a complete weather barrier.

All MNBCDD fan packages also include an automatic belt tensioner, and inlet and discharge guards.



NBC54 Fan

Performance Ratings

The performance ratings listed below were obtained through testing by the Bioenvironmental and Structural Systems Lab (BESS Lab) at the University of Illinois. All fans were tested with an inlet guard, a discharge cone with doors and a discharge guard. The fan housing was mounted flush to the test chamber face, as in an actual building installation. Power measurements were taken on the fan/motor combination and include motor efficiency and drive losses.



CUBIC FEET PER MINUTE (CFM) AT STATIC PRESSURE

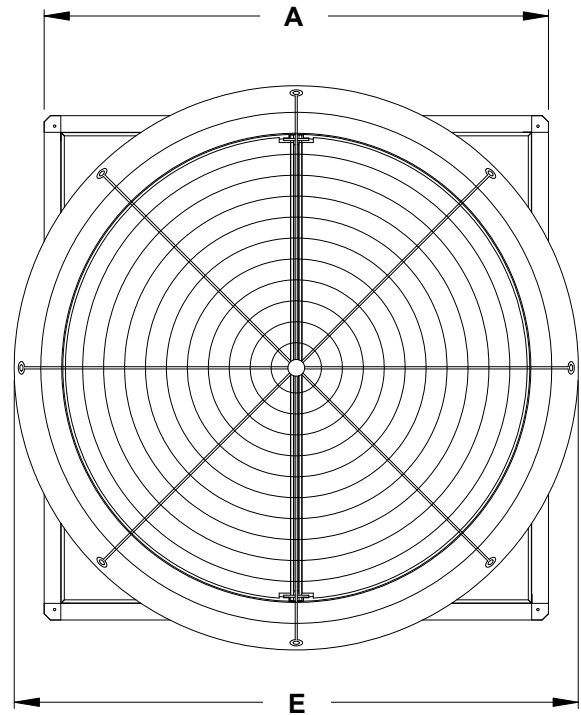
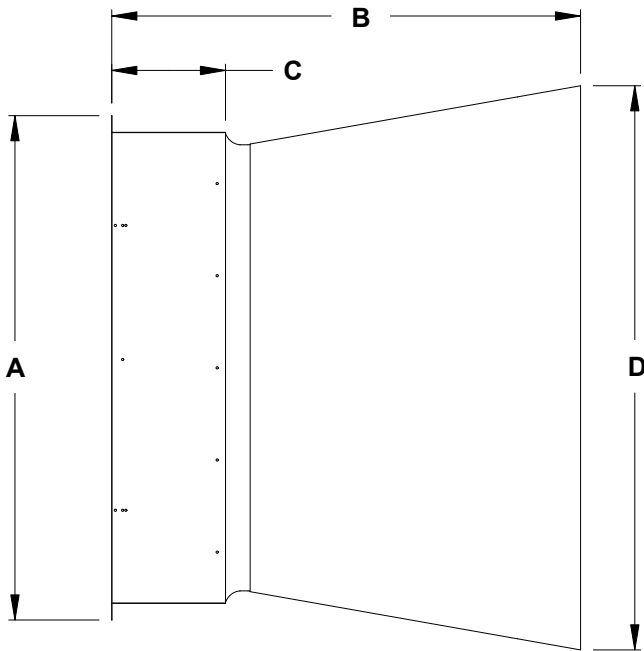
Fan Model	Fan Size	BESS Lab Test #	Motor HP	Fan RPM @.05"	0" S.P.		.05" S.P.		.10" S.P.		.15" S.P.		.20" S.P.	
					CFM	CFM / Watt	CFM	CFM / Watt	CFM	CFM / Watt	CFM	CFM / Watt	CFM	CFM / Watt
MNBCDD36J	36	12446	1/2	753	13,280	28.1	12,010	24.2	10,600	21.1	9,040	18.1	7,220	14.9
MNBCDD36K		12445	3/4	881	15,630	22.1	14,530	19.7	13,340	17.6	12,090	16.1	10,880	14.6
MNBCDD36L		12444	1	1019	18,130	17.4	17,290	15.9	16,280	14.7	15,350	13.5	14,130	11.8
MNBCDD36J Δ		12441	1/2	761	13,440	27.2	12,200	23.6	10,690	20.4	9,230	17.7	7,550	14.8
MNBCDD36K Δ		12442	3/4	881	15,680	21.5	14,530	19.0	13,400	17.7	12,160	15.6	10,790	14.1
MNBCDD36L Δ		12443	1	1014	18,040	17.1	17,180	15.5	16,170	14.1	15,170	13.3	14,110	12.4
MNBCDD52LE	52	05244	1	472	27,472	29.3	25,405	25.7	23,213	23.0	20,508	19.9	17,091	16.8
MNBCDD52L		05245	1	492	28,649	27.1	26,652	24.1	24,401	21.4	22,080	19.0	19,107	16.5
MNBCDD52M*		05257	1 1/2	545	31,704	23.0	30,069	20.8	28,089	18.8	26,120	17.1	23,835	15.4
MNBCDD52LE Δ		05242	1	470	27,520	29.6	25,421	25.5	23,097	22.9	20,438	19.9	16,736	16.7
MNBCDD52L Δ		05243	1	491	28,696	27.4	26,611	24.4	24,344	21.5	21,938	19.1	18,927	16.4
MNBCDD52M Δ*		05241	1 1/2	549	32,006	23.7	30,145	21.4	28,274	19.4	26,322	17.7	24,000	16.0
MNBCDD54LE	54	11390	1	394	27,100	34.2	24,800	29.0	21,400	23.4	18,400	19.6	15,200	16.1
MNBCDD54L		11389	1	427	29,800	28.0	27,600	24.4	25,000	21.2	22,100	18.8	19,000	15.9
MNBCDD54ME		11388	1 1/2	457	31,700	26.6	29,700	23.6	27,400	20.6	24,200	17.4	21,800	15.4
MNBCDD54M		11387	1 1/2	483	33,500	24.7	31,600	21.9	29,300	19.3	26,700	16.9	24,200	14.9
MNBCDD54LE Δ		11391	1	400	27,600	37.6	25,400	32.0	22,600	26.7	19,300	21.9	16,000	18.1
MNBCDD54L Δ		11392	1	435	30,100	32.8	27,900	28.1	25,300	23.9	22,500	20.4	19,100	17.1
MNBCDD54ME Δ		11393	1 1/2	465	32,200	29.4	30,400	25.8	28,100	22.6	25,400	19.4	22,700	17.0
MNBCDD54M Δ		11394	1 1/2	491	34,000	26.5	32,200	23.3	30,000	20.8	28,000	18.5	25,100	16.1

Δ — 3-Phase Motor

* — Performance values for 0" static pressure for model MNBCDD52M exceed the BESS Lab airflow measurement capabilities and were calculated through regression analysis.

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Fan Dimensions



Dimensions in Inches

Fan Size	Cone Type	A	B	C	D	E	Rough Opening
36	Standard	47	48	14 3/8	48 1/2	48 1/2	44 3/4 x 44 3/4
52	Standard	58 15/16	55 1/2	14 3/8	67 3/8	67 3/8	56 3/4 x 56 3/4
	Elliptical*					59 1/2	
54	Standard	61	67 1/4	14 3/8	73	73	58 3/4 x 58 3/4

* — In addition the standard circular cone, the MNBCDD52 and MNEFDD52 fan packages are also available with an elliptical cone, which allows the fans to be mounted on 5 foot centers.

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. **DO NOT** USE UNLESS ELECTRICAL WIRING COMPLIES WITH ALL APPLICABLE CODES. **DO NOT** WIRE WITHOUT PROVIDING FOR A POWER SOURCE DISCONNECT AT THE FAN ITSELF. **DO NOT** 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.

Limited Warranty

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 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 reinstatement cost or for any special, indirect or consequential damages of any nature is assumed or shall be imposed upon American Coolair.



FARM PRODUCTS DIVISION