



AMERICAN COOLAIR CORPORATION

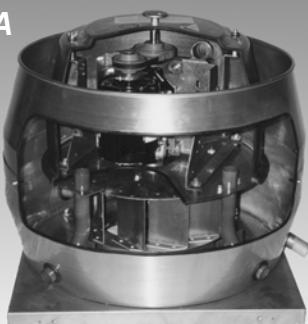


Centrifugal Upblast Power Roof Ventilators

TYPE UBCA - BELT DRIVE
TYPE UDCA - DIRECT DRIVE

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UBCA



*Sizes 06 to 44
Flow rates from
229 to 29,002 CFM
and 2" Static Pressure*

BELT DRIVE FANS

UBCA

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UDCA



*Sizes 12 to 15
Flow rates from
619 to 3,032 CFM
and 1-1/2" Static Pressure*

DIRECT DRIVE FANS

UDCA

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STANDARD FEATURES

UBCA and UDCA Units

Weather-resistant motor compartment cover of spun aluminum removes easily for access to motor and drive.

Out-of-airstream open motors are isolated for protection from exhaust airstream.

Overlapping wheel and deep-spun venturi minimize noise and air turbulence, increasing efficiency.

Built-in drain removes grease and water from fan housing.

Aluminum centrifugal wheel is a non-overloading, backward inclined design with state-of-the-art computerized balance.

Permanently affixed wheel balance weights assure vibration-free operation.

Wheel backplate fins cool the motor compartment, extending motor life.

AMCA Seal assures certified rating of air and sound performance.

UBCA

Safety disconnect switch is an available option.

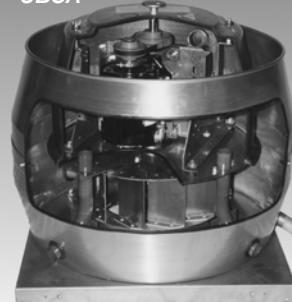
Belt drive with **adjustable motor pulley** for flexibility to match operating requirements.

Heavy duty pillow-block ball bearings with cast iron housing are self-aligning and relubricable.

Hinged motor bracket with tensioning bolt(s) facilitates maintenance of belt tension.

UL Listed for Standard 705 and 762.

UBCA



UDCA



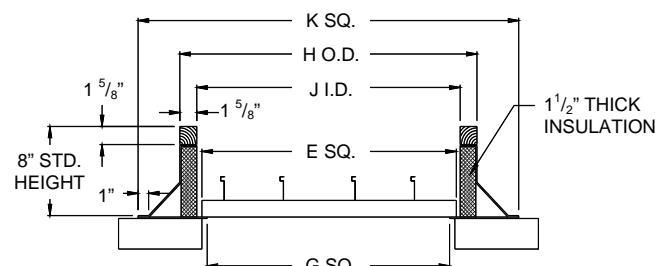
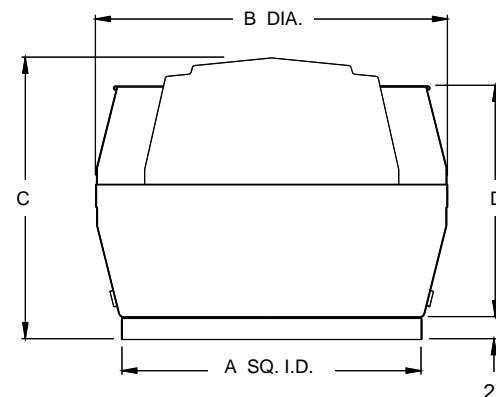
UDCA

Factory-wired disconnect device for standard motors.

Direct-drive assembly reduces maintenance and operating costs.

UL Listed for Standard 705 and 762.

UBCA and UDCA Ventilator, Roof Curb, and Damper Dimensions



Unit	Ventilator Dimensions				Roof Curb and Damper Dimensions				
	A	B	C	D	E	G	H	J	K
UBCA 06-10	18	23 3/4	22	11 1/4	12 1/2	11 1/4	16 1/2	13 1/4	24 1/2
UDCA 12-15	26	29 3/8	18 1/8	19 1/4	20 3/4	19 1/4	24 1/2	21 1/4	32 1/2
UBCA 12-15	26	29 3/8	24 1/2	19 1/4	20 3/4	19 1/4	24 1/2	21 1/4	32 1/2
UBCA 16, 18	30	35 3/8	26 1/2	21 5/8	24 3/4	23 1/4	28 1/2	25 1/4	36 1/2
UBCA 20	34	43 3/8	29 7/8	25 1/2	28 3/4	27 1/4	32 1/2	29 1/4	40 1/2
UBCA 24	34	43 3/8	34 1/4	25 1/2	28 3/4	27 1/4	32 1/2	29 1/4	40 1/2
UBCA 30	40	51 1/4	38 1/2	29 1/2	34 3/4	33 1/4	38 1/2	35 1/4	46 1/2
UBCA 36	46	62 5/8	45 7/8	37 1/2	40 3/4	39 1/4	44 1/2	41 1/4	52 1/2
UBCA 44	56	73	51 1/8	40	50 3/4	49 1/4	54 1/2	51 1/4	62 1/2

Dimensions in inches

UBCA

Belt Drive Centrifugal Upblast Power Roof Ventilators

Applications

The UBCA units are quiet, dependable upblast power roof ventilators for the exhaust of grease-laden air from restaurant range hoods, and general ventilation applications where vertical discharge of exhaust air is required. Applications include virtually all types of commercial and institutional kitchens, such as restaurant and cafeteria, fast food, hospital, hotel and motel, bakery, delicatessen, school and military.

UBCA units are specified where a roof-mounted location is desired to eliminate interference with other equipment or activities in the building. They permit the direct upward venting of overheated air.

The UBCA is listed under UL classification YZHW for Power Roof Ventilators for Restaurant Exhaust Systems. When properly installed, the UBCA also meets the requirements of National Fire Protection Association Standard NFPA 96. These units are particularly recommended for economical and efficient range hood ventilation where continuous operation under severe conditions may cause other power roof ventilators to fail.

Construction

Construction of UBCA units features heavy gauge steel structural support throughout consisting of steel base, motor compartment disc and support pipes, to maintain support and proper alignment of motor, wheel and drive during shipment, installation and operation. The spun aluminum motor compartment cover provides protection from weather and contaminated air and is easily removable for complete access to motor and drive.

UBCA models feature a housing of durable spun aluminum for optimum weather protection. The overlapping deep-spun venturi minimizes air turbulence and increases efficiency.

The aluminum centrifugal wheel is a non-overloading, backward-inclined type, selected for low noise levels. Backplate fins draw cool air through the motor compartment. The wheels are computer balanced on state-of-the-art equipment.

The UBCA wheel is secured to a machined aluminum hub with a line bore, which eliminates the need for bushings.

Drive Mechanism

The belt driven UBCA utilizes a standard V-belt drive design with a variable pitch cast iron motor pulley for adjusting fan speed. Drive shaft is turned, ground and polished. Motor support features a hinged motor bracket with belt tensioning bolt(s) for easy field adjustment.

Motors

The standard motor for UBCA models is open construction, located out of the airstream. Totally enclosed, energy efficient, two-speed and explosion-proof motors may also be available. Motor enclosure may affect UL Listing. All motor brands are recognized and serviced nationwide.

Bearings

Heavy duty pillow-block ball bearings with cast iron housing are self-aligning and relubricable.



LISTED

UL705 - E39944



LISTED

UL762 - MH9847

Type UBCA ventilators are UL705 Listed by Underwriters Laboratory Inc. to US and Canadian safety standards.

Type UBCA ventilators are UL762 Listed by Underwriters Laboratory Inc. to US safety standards.



American Coolair Corporation, ILG Industries certifies that the Type UBCA PRVs shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Guide Specifications

Upblast power roof ventilators shall be of the UBCA centrifugal type as manufactured by ILG Industries of American Coolair Corporation (individual models to be listed in fan schedule). Units shall meet UL Standard 705 or 762 as required and shall bear the AMCA Certified Ratings Seal for air and sound performance.

Bottom outer housing and venturi inlet shall be one piece heavy gauge spun aluminum with built-in grease drain. Wheel and venturi shall overlap for efficient operation. Motor compartment cover shall be heavy gauge spun aluminum construction and easily removable for access to motor and drive. Base, motor compartment disc and support pipes shall be heavy gauge steel.

Drive mechanism shall incorporate a V-belt drive with cast iron motor pulley. Drive shaft shall be turned, ground and polished. The centrifugal wheel shall be heavy gauge aluminum with backward-inclined, non-overloading blades and be computer balanced.

Bearings shall be self-aligning and have fittings for relubrication.

Motor shall be open drip-proof construction, NEMA design B with minimum service factor of 1.15. Motor compartment shall be cooled by a forced air ventilation system. Adjustable motor pulley shall be provided to allow for field adjustment and system balance. Motor shall be mounted on an adjustable steel mounting bracket. Motor shall be mounted with the shaft up to allow easy access to the cast iron variable pitch drive pulley.

(Safety disconnect switch, epoxy coating, roof curb and other accessories shall be listed in the fan schedule.)

Alternate Fan Constructions

Heat & Smoke Control

UBCA models, sizes 12-30 may be specified for Heat/Smoke Control (UL Standard 793)

- Heavy-duty galvanized steel impeller and inlet
- Engineered and tested to exhaust:

500° F air for 4 hours

**400° C (752° F) air
for 2 hours**

**1,000° F air for 20
minutes**

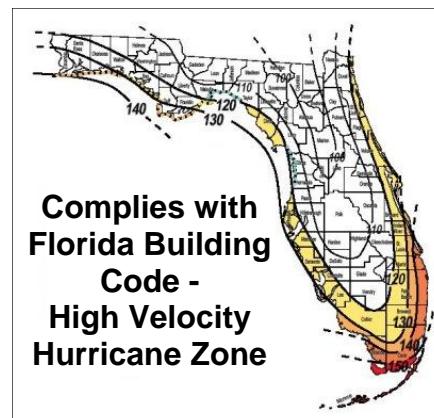


Type UBCA ventilators are UL 793 Listed by Underwriters Laboratory Inc. to US and Canadian safety standards.

High Wind/Miami Dade

UBCA & UDCA models may be specified for High Wind Construction

- High-velocity impact tested
- Static air pressure force tested
- Florida High Velocity Hurricane Zone compliant
- Miami-Dade County Product Control



**MIAMI-DADE COUNTY
APPROVED**

Miami-Dade County
Product Control Approved

UBCA06 Performance Data

CFM at Static Pressure												RPM Range			RPM								
0.00		.125		.250		.375		.500		.625		0.75		1.00		1.25		1.50		Motor HP			RPM
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/4 L	1/4 M	1/4 H	
375		336		290																			1217
0.04	6.2	0.04	5.5	0.05	5.0																		
397		361		319		255																	1288
0.05	7.0	0.05	6.3	0.05	5.8	0.06	5.3																
419		385		347		294		229															1360
0.06	7.6	0.06	7.0	0.06	6.4	0.07	5.9	0.07	5.4														
441		409		373		328		264															1431
0.07	8.2	0.07	7.6	0.07	7.0	0.08	6.5	0.08	6.0														
463		433		399		360		303															1503
0.08	8.9	0.08	8.3	0.09	7.6	0.09	7.1	0.09	6.6														
485		456		425		389		341															1574
0.10	9.6	0.10	9.0	0.10	8.3	0.10	7.8	0.10	7.3														
507		479		450		417		376															1646
0.11	10.2	0.11	9.7	0.11	9.0	0.11	8.5	0.12	8.0														
529		502		474		444		408		359													1717
0.12	11.0	0.12	10.4	0.13	9.7	0.13	9.2	0.13	8.7	0.13	8.2												
551		526		499		470		438		396													1789
0.14	11.9	0.14	11.2	0.14	10.5	0.14	9.9	0.15	9.4	0.15	9.0												
573		549		523		496		466		430													1861
0.16	12.9	0.16	12.2	0.16	11.5	0.16	10.8	0.17	10.4	0.17	9.8												
595		572		548		522		494		462		420											1933
0.18	14.0	0.18	13.3	0.18	12.6	0.18	11.9	0.18	11.3	0.19	10.8	0.19	10.3										
617		595		571		547		521		491		455											2004
0.20	15.0	0.20	14.4	0.20	13.7	0.20	12.9	0.20	12.3	0.21	11.8	0.21	11.3										
639		618		595		572		547		520		488											2076
0.22	16.1	0.22	15.6	0.22	14.8	0.22	14.0	0.23	13.4	0.23	12.9	0.23	12.4										
661		640		619		596		573		547		518		440									2147
0.24	17.2	0.24	16.7	0.24	16.0	0.25	15.3	0.25	14.6	0.25	14.0	0.26	13.4	0.26	12.5								
683		663		642		621		598		574		547		479									2219
0.27	18.4	0.27	18.0	0.27	17.5	0.27	16.8	0.27	16.1	0.28	15.5	0.28	15.0	0.29	14.0								

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA08 Performance Data

CFM at Static Pressure														RPM Range			RPM								
0.00		.125		.250		.375		.500		.625		0.75		1.00		1.25		1.50		Motor HP			RPM		
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/4 L	1/4 M	1/4 H			
519		476		428		362																		1217	
0.05	6.3	0.05	5.8	0.05	5.5	0.06	5.2																	1288	
549		508		465		407		339																1360	
0.06	7.1	0.06	6.6	0.06	6.3	0.07	6.1	0.07	5.8															1431	
580		541		501		452		390																1503	
0.07	7.7	0.07	7.2	0.07	6.9	0.08	6.7	0.08	6.4															1574	
610		574		536		492		434		372														1646	
0.08	8.4	0.08	7.8	0.08	7.5	0.09	7.2	0.09	7.0	0.09	6.7													1717	
641		606		570		531		480		424														1789	
0.09	8.9	0.09	8.5	0.10	8.2	0.10	7.9	0.11	7.7	0.11	7.3													1861	
671		638		604		568		524		469														1933	
0.10	9.6	0.10	9.1	0.11	8.7	0.12	8.5	0.12	8.3	0.12	8.0													2004	
702		670		638		604		565		515														2076	
0.12	10.3	0.12	9.8	0.12	9.4	0.13	9.1	0.14	8.9	0.14	8.6													2147	
732		702		671		639		604		559		510												2219	
0.13	11.0	0.14	10.5	0.14	10.1	0.15	9.8	0.15	9.6	0.16	9.3	0.16	9.0												
763		734		704		673		641		603		555													
0.15	11.8	0.15	11.3	0.16	10.9	0.16	10.6	0.17	10.4	0.18	10.1	0.18	9.9												
794		766		737		708		677		643		600													
0.17	12.6	0.17	12.2	0.18	11.8	0.18	11.4	0.19	11.2	0.20	11.0	0.20	10.7												
824		797		770		742		713		682		644													
0.19	13.6	0.19	13.1	0.20	12.7	0.20	12.3	0.21	12.1	0.22	11.9	0.22	11.7												
855		829		802		775		748		719		685		602											
0.21	14.6	0.21	14.0	0.22	13.6	0.23	13.3	0.23	13.0	0.24	12.8	0.25	12.6	0.25	12.0										
885		860		835		809		783		755		725		647											
0.23	15.6	0.24	15.1	0.24	14.7	0.25	14.3	0.26	14.0	0.27	13.8	0.27	13.6	0.28	13.1										
916		891		867		842		817		790		762		692											
0.26	16.8	0.26	16.3	0.27	15.8	0.27	15.4	0.28	15.1	0.29	14.9	0.30	14.6	0.31	14.2										
946		923		899		875		851		826		799		736		659									
0.28	18.3	0.29	17.7	0.29	17.2	0.30	16.8	0.31	16.5	0.32	16.3	0.33	16.0	0.34	15.6	0.34	15.0								

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories)

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA10 Performance Data

CFM at Static Pressure												RPM Range			RPM									
0.00		.125		.250		.375		.500		.625		0.75		1.00		1.25		1.50		Motor HP				
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/4 L	1/4 M	1/4 H		
697		640		572		498																	1217	
0.05	7.2	0.06	6.6	0.06	6.2	0.07	5.6																	
738		684		622		553																	1288	
0.07	8.0	0.07	7.4	0.07	7.0	0.08	6.5																	
779		728		671		607																	1360	
0.08	8.7	0.08	8.1	0.09	7.7	0.09	7.3																	
820		772		718		659		595															1431	
0.09	9.4	0.09	8.8	0.10	8.4	0.10	8.0	0.11	7.5															
861		816		765		710		650															1503	
0.10	10.1	0.11	9.5	0.11	9.1	0.12	8.7	0.12	8.3															
902		858		811		759		703		645													1574	
0.12	10.8	0.12	10.2	0.13	9.8	0.14	9.4	0.14	9.1	0.14	8.6													
943		902		857		808		756		701													1646	
0.14	11.6	0.14	11.0	0.15	10.6	0.15	10.2	0.16	9.8	0.16	9.4													
984		944		902		856		807		755													1717	
0.15	12.3	0.16	11.8	0.17	11.3	0.17	11.0	0.18	10.6	0.18	10.2													
1025		987		947		903		857		808		757											1789	
0.17	13.2	0.18	12.7	0.19	12.3	0.19	11.9	0.20	11.6	0.20	11.2	0.21	10.8											
1066		1030		992		950		906		860		812											1861	
0.20	14.2	0.20	13.6	0.21	13.2	0.22	12.9	0.22	12.6	0.23	12.2	0.23	11.8											
1108		1073		1036		997		955		911		865											1933	
0.22	15.3	0.23	14.7	0.23	14.3	0.24	13.9	0.25	13.5	0.25	13.2	0.26	12.9											
1148		1115		1079		1042		1003		961		917		826									2004	
0.25	16.5	0.25	16.0	0.26	15.5	0.27	15.0	0.27	14.7	0.28	14.3	0.28	14.0	0.29	13.1									
1190		1157		1123		1088		1050		1010		969		882										2076
0.27	17.8	0.28	17.3	0.29	16.8	0.30	16.4	0.30	16.0	0.31	15.7	0.31	15.3	0.32	14.5									

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA12 Performance Data

CFM at Static Pressure												RPM Range Motor HP					RPM													
0.00		.125		.250		.375		.500		.750		1.00		1.25		1.50		2.00		1/4 L	1/4 H	1/3	1/2	3/4						
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone											
1222		1121		1024		915		781																			1072			
0.10	6.7	0.11	6.6	0.11	6.2	0.12	5.8	0.12	5.6																		1119			
1275		1178		1086		985		867																			1166			
0.11	7.4	0.12	7.2	0.13	6.9	0.13	6.5	0.14	6.2																		1212			
1329		1235		1147		1052		945																			1259			
0.12	8.0	0.13	7.9	0.14	7.5	0.15	7.1	0.15	6.8																		1305			
1381		1290		1206		1117		1017																			1352			
0.14	8.7	0.15	8.6	0.16	8.2	0.17	7.9	0.17	7.4																		1399			
1435		1347		1266		1181		1088		845																	1445			
0.15	9.5	0.17	9.4	0.18	8.9	0.18	8.6	0.19	8.2	0.19	7.7																1492			
1487		1402		1324		1243		1156		942																	1539			
0.17	10.2	0.19	10.1	0.20	9.7	0.20	9.4	0.21	8.9	0.22	8.4																1678			
1541		1458		1382		1306		1223		1029																	1725			
0.19	11.0	0.21	10.9	0.22	10.5	0.23	10.1	0.23	9.7	0.24	9.0																1865			
1594		1515		1441		1367		1289		1110																	1958			
0.21	11.9	0.23	11.8	0.24	11.4	0.25	11.0	0.26	10.6	0.27	9.8																2005			
1647		1569		1498		1427		1352		1185		955																2051		
0.23	12.7	0.25	12.6	0.26	12.3	0.27	11.9	0.28	11.5	0.29	10.6	0.29	10.3															2132		
1700		1625		1555		1487		1416		1258		1057																2272		
0.26	13.6	0.27	13.5	0.29	13.2	0.30	12.7	0.31	12.3	0.32	11.5	0.32	11.1															2412		
1754		1681		1613		1547		1479		1329		1148																2559		
0.28	14.4	0.30	14.3	0.31	13.9	0.32	13.5	0.33	13.1	0.35	12.2	0.35	11.7															2722		
1806		1735		1669		1605		1539		1396		1230		990															2899	
0.31	15.0	0.32	14.9	0.34	14.6	0.35	14.2	0.36	13.8	0.38	13.0	0.39	12.4	0.37	12.1														3058	
1860		1791		1726		1663		1600		1464		1309		1105															3222	
0.34	15.7	0.35	15.6	0.37	15.4	0.38	15.0	0.39	14.7	0.41	14.0	0.42	13.3	0.42	13.0														3399	
1912		1845		1781		1721		1660		1529		1383		1202															3558	
0.37	16.5	0.38	16.3	0.40	16.1	0.41	15.8	0.42	15.5	0.44	14.8	0.46	14.2	0.46	13.8														3722	
1966		1900		1838		1779		1720		1595		1456		1292		1053														3899
0.40	17.3	0.42	17.1	0.43	16.9	0.45	16.6	0.46	16.4	0.48	15.7	0.50	15.0	0.50	14.6	0.48	14.2											4058		
2020		1955		1895		1837		1780		1659		1527		1375		1175														4222
0.43	18.1	0.45	17.9	0.47	17.7	0.48	17.4	0.49	17.1	0.52	16.5	0.53	15.9	0.54	15.3	0.53	15.1											4399		
2072		2009		1950		1893		1838		1721		1594		1453		1276														4558
0.46	18.7	0.48	18.5	0.50	18.3	0.52	18.1	0.53	17.8	0.55	17.2	0.57	16.6	0.59	16.0	0.58	15.8											4722		
2126		2064		2006		1951		1896		1784		1663		1528		1369														4899
0.50	19.5	0.52	19.3	0.54	19.1	0.56	18.8	0.57	18.6	0.59	18.0	0.61	17.4	0.63	16.8	0.63	16.5											5058		
2178		2118		2061		2007		1954		1845		1728		1600		1454														5222
0.54	20	0.56	20	0.58	20	0.60	19.7	0.61	19.4	0.64	18.7	0.66	18.1	0.68	17.5	0.68	17.2											5399		
2232		2173		2117		2064		2012		1907		1794		1672		1535														5558
0.58	21	0.60	21	0.62	21	0.64	21	0.65	20	0.68	19.6	0.70	18.9	0.72	18.3	0.73	17.9											5722		
2285		2228		2174		2121		2070		1968		1859		1742		1613		1253											5899	
0.62	22	0.65	22	0.67	22	0.68	22	0.70	21	0.73	21	0.75	19.9	0.77	19.1	0.79	18.6	0.75	18.1										6058	
2338		2282		2228		2177		2127		2028		1922		1810		1687		1368											6222	
0.67	23	0.69	23	0.71	23	0.73	23	0.75	22	0.77	22	0.80	21	0.82	20	0.84	19.5	0.82	19.0										6399	

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA13 Performance Data

CFM at Static Pressure												RPM Range Motor HP				RPM										
0.00		.125		.250		.375		.500		.750		1.00		1.25		1.50		2.00		1/4	1/3	1/2	3/4			
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone							
1617		1524		1429		1335		1239		953														1119		
0.16	10.5	0.17	10.1	0.18	9.8	0.19	9.4	0.20	9.0	0.20	8.4															
1685		1596		1506		1413		1324		1083														1166		
0.18	11.5	0.19	11.1	0.20	10.8	0.22	10.4	0.23	10.0	0.23	9.4															
1752		1665		1580		1489		1405		1191														1212		
0.20	12.4	0.22	12.1	0.23	11.8	0.24	11.4	0.25	11.0	0.26	10.4															
1820		1736		1655		1567		1485		1293														1259		
0.23	13.6	0.24	13.3	0.25	13.0	0.27	12.6	0.28	12.2	0.29	11.5															
1886		1805		1728		1643		1563		1389		1140												1305		
0.25	14.4	0.27	14.1	0.28	13.8	0.29	13.4	0.31	13.0	0.32	12.3	0.32	11.7													
1954		1876		1801		1720		1641		1482		1264												1352		
0.28	15.2	0.30	14.9	0.31	14.5	0.32	14.2	0.34	13.8	0.36	13.1	0.36	12.5													
2022		1946		1874		1797		1719		1570		1374												1399		
0.31	15.9	0.33	15.6	0.34	15.3	0.35	15.0	0.37	14.6	0.39	13.9	0.40	13.3													
2089		2015		1945		1872		1795		1652		1475		1232											1445	
0.34	16.6	0.36	16.4	0.37	16.1	0.39	15.7	0.40	15.4	0.43	14.7	0.44	14.2	0.43	13.7											
2157		2085		2017		1947		1872		1734		1573		1364											1492	
0.38	17.5	0.39	17.2	0.41	16.9	0.42	16.5	0.44	16.2	0.47	15.6	0.48	15.0	0.48	14.6											
2225		2155		2089		2022		1950		1814		1668		1479											1539	
0.41	18.3	0.43	18.0	0.45	17.7	0.46	17.4	0.48	17.0	0.51	16.4	0.53	15.8	0.53	15.4											
2291		2224		2159		2095		2025		1892		1756		1583		1356									1585	
0.45	19.1	0.47	18.8	0.49	18.5	0.50	18.2	0.52	17.9	0.55	17.3	0.57	16.7	0.58	16.3	0.57	15.8									
2359		2293		2231		2169		2102		1970		1843		1684		1488									1632	
0.49	20	0.51	19.7	0.53	19.4	0.54	19.1	0.56	18.8	0.59	18.2	0.62	17.6	0.63	17.2	0.63	16.7									
2425		2362		2301		2240		2176		2047		1924		1779		1602									1678	
0.54	21	0.56	21	0.57	20	0.59	19.9	0.61	19.7	0.64	19.1	0.67	18.5	0.68	18.1	0.68	17.6									
2493		2431		2372		2313		2252		2124		2006		1873		1709									1725	
0.58	22	0.60	21	0.62	21	0.64	21	0.65	21	0.69	20	0.72	19.5	0.74	19.0	0.74	18.6									
2561		2501		2442		2386		2327		2202		2086		1963		1811										
0.63	23	0.65	22	0.67	22	0.69	22	0.71	21	0.74	21	0.77	20	0.80	19.9	0.81	19.5									1772

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA15 Performance Data

CFM at Static Pressure												RPM Range Motor HP				RPM
0.00	.125	.250	.375	.500	.750	1.00	1.25	1.50	2.00	1/3	1/2	3/4	1			
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	RPM
2188		2101		1967		1835		1722		1395						1119
0.27	10.1	0.29	9.4	0.31	9.5	0.32	9.2	0.33	8.5	0.33	8.2					
2280		2197		2077		1939		1835		1533						1166
0.31	10.8	0.33	10.2	0.35	10.3	0.36	10.1	0.37	9.3	0.38	9.1					
2370		2291		2183		2041		1940		1667		1361				1212
0.35	11.6	0.37	10.9	0.39	11.0	0.40	10.9	0.42	10.3	0.42	9.8	0.42	9.4			
2462		2386		2288		2148		2045		1804		1512				1259
0.39	12.5	0.41	11.8	0.43	11.8	0.45	11.8	0.46	11.3	0.48	10.5	0.47	10.0			
2552		2479		2388		2255		2147		1937		1649				1305
0.44	13.4	0.46	12.7	0.48	12.6	0.50	12.7	0.51	12.3	0.53	11.2	0.53	11.1			
2644		2574		2489		2365		2251		2062		1787		1511		1352
0.48	14.3	0.50	13.6	0.53	13.5	0.55	13.6	0.56	13.4	0.59	12.1	0.59	12.3	0.59	11.8	
2736		2668		2589		2476		2356		2179		1923		1664		1399
0.54	15.4	0.56	14.5	0.58	14.3	0.60	14.5	0.62	14.4	0.65	13.2	0.65	13.3	0.65	12.4	
2826		2761		2686		2583		2460		2286		2058		1802		1445
0.59	16.3	0.61	15.6	0.63	15.3	0.66	15.4	0.68	15.5	0.71	14.3	0.72	14.0	0.72	13.7	
2917		2854		2784		2690		2569		2393		2194		1940		1492
0.65	17.4	0.67	16.6	0.70	16.3	0.72	16.4	0.74	16.5	0.78	15.6	0.79	14.7	0.79	15.0	
3009		2948		2881		2795		2679		2498		2323		2077		1539
0.72	18.4	0.74	17.6	0.76	17.3	0.78	17.3	0.81	17.5	0.85	16.9	0.87	15.7	0.87	16.2	
3099		3040		2976		2896		2788		2600		2442		2211		1585
0.78	19.5	0.80	18.7	0.83	18.3	0.85	18.3	0.88	18.4	0.92	18.1	0.94	16.8	0.95	17.0	
3191		3134		3072		2998		2898		2704		2555		2349		1632
0.85	21	0.88	19.8	0.90	19.3	0.93	19.3	0.95	19.4	1.00	19.3	1.03	18.1	1.04	17.7	
3281		3225		3166		3096		3004		2806		2662		2481		1678
0.93	22	0.95	21	0.98	20	1.00	20	1.03	21	1.08	21	1.11	19.4	1.13	18.5	

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA16 Performance Data

CFM at Static Pressure												RPM Range		RPM																			
0.00		.125		.250		.375		.500		.750		1.00		1.25		1.50		2.00		1/3	1/2	3/4	1	1 1/2									
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone								
2628		2432		2281		2156		2009		1407																918							
0.28	10.3	0.30	9.7	0.32	9.3	0.33	9.3	0.34	8.9	0.30	7.7																						
2731		2541		2391		2270		2138		1678																954							
0.32	11.0	0.34	10.3	0.35	10.0	0.36	10.0	0.37	9.7	0.36	8.6																						
2837		2653		2503		2386		2264		1895																991							
0.36	11.7	0.38	11.1	0.39	10.8	0.41	10.8	0.42	10.6	0.42	9.5																						
2943		2765		2616		2500		2387		2075		1341															1028						
0.40	12.5	0.42	11.9	0.44	11.5	0.45	11.6	0.46	11.5	0.48	10.4	0.39	9.4																				
3046		2873		2726		2610		2503		2229		1657															1064						
0.44	13.3	0.47	12.6	0.48	12.4	0.50	12.5	0.51	12.4	0.53	11.5	0.48	10.3																				
3152		2984		2839		2723		2620		2374		1933															1101						
0.49	14.2	0.52	13.4	0.53	13.2	0.55	13.3	0.56	13.3	0.58	12.6	0.56	11.4																				
3258		3095		2952		2836		2735		2511		2154		1391														1138					
0.54	15.1	0.57	14.3	0.59	14.1	0.60	14.2	0.62	14.2	0.64	13.6	0.64	12.4	0.51	11.5																		
3361		3202		3061		2945		2846		2638		2335		1721														1174					
0.59	16.1	0.62	15.2	0.64	14.9	0.66	15.0	0.67	15.1	0.70	14.7	0.71	13.5	0.62	12.4																		
3467		3313		3174		3058		2960		2764		2500		2021														1211					
0.65	17.1	0.68	16.2	0.70	15.9	0.72	16.0	0.73	16.1	0.76	15.8	0.78	14.7	0.73	13.5																		
3573		3423		3287		3170		3073		2887		2651		2270		1537													1248				
0.71	18.0	0.74	17.2	0.77	16.9	0.79	16.9	0.80	17.0	0.83	16.9	0.85	16.0	0.83	14.6	0.67	13.8																
3679		3533		3399		3283		3186		3007		2793		2476		1877													1285				
0.78	19.0	0.81	18.2	0.83	17.8	0.85	17.8	0.87	17.9	0.90	17.9	0.92	17.2	0.92	15.9	0.81	14.8																
3782		3640		3508		3393		3295		3122		2924		2650		2172													1321				
0.84	20	0.88	19.2	0.90	18.8	0.93	18.7	0.94	18.9	0.97	18.9	1.00	18.3	1.01	17.2	0.94	15.9																
3888		3749		3620		3506		3408		3238		3054		2813		2430													1358				
0.92	21	0.95	20	0.98	19.9	1.00	19.7	1.02	19.9	1.05	20	1.08	19.5	1.10	18.5	1.06	17.2																
4051		3918		3793		3680		3581		3416		3247		3041		2749		1508													1415		
1.04	23	1.07	22	1.10	22	1.13	21	1.15	21	1.18	22	1.21	21	1.24	21	1.23	19.3	0.90	17.3														
4157		4027		3904		3793		3694		3530		3369		3179		2926		1880													1452		
1.12	24	1.16	23	1.19	23	1.21	22	1.24	23	1.27	23	1.30	23	1.33	22	1.34	21	1.09	18.4														
4263		4136		4016		3905		3807		3643		3489		3312		3087		2212													1489		
1.21	25	1.25	24	1.28	24	1.31	24	1.33	24	1.36	24	1.40	24	1.43	23	1.45	22	1.27	19.7														
4372		4247		4130		4021		3923		3759		3610		3445		3241		2521													1527		
1.30	26	1.34	25	1.38	25	1.41	25	1.43	24	1.47	25	1.50	25	1.53	24	1.56	23	1.45	21														
4478		4356		4241		4133		4036		3872		3727		3570		3384		2780														1564	
1.40	27	1.44	26	1.48	26	1.51	25	1.53	25	1.57	26	1.60	26	1.64	25	1.67	25	1.61	22														

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA18 Performance Data

CFM at Static Pressure												RPM Range					RPM								
0.00		.125		.250		.375		.500		.750		1.00		1.25		1.50		2.00		Motor HP		RPM			
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/2	3/4	1	1 1/2	2	RPM
3344	3153	2924	2757	2568	2061																			918	RPM
0.43	10.6	0.45	10.1	0.46	9.5	0.47	9.4	0.48	9.2	0.46	8.4													954	
3476	3296	3067	2906	2725	2319																			991	
0.48	11.3	0.50	10.8	0.51	10.2	0.52	10.2	0.54	10.1	0.53	9.3													1028	RPM
3610	3441	3214	3055	2887	2533	1802																		1064	
0.54	12.1	0.56	11.6	0.57	11.0	0.58	11.0	0.60	10.9	0.60	10.3	0.53	9.1											1101	
3745	3585	3363	3202	3047	2715	2127																		1138	RPM
0.60	13.1	0.63	12.4	0.64	12.0	0.65	11.8	0.66	11.9	0.67	11.3	0.62	10.2											1174	
3876	3723	3509	3344	3200	2879	2410																		1211	
0.67	14.0	0.70	13.4	0.71	12.9	0.72	12.7	0.73	12.8	0.75	12.3	0.72	11.4											1266	RPM
4011	3865	3660	3490	3353	3043	2674	1948																	1303	
0.74	15.0	0.77	14.3	0.78	13.8	0.79	13.6	0.80	13.6	0.83	13.3	0.81	12.6	0.72	11.2									1340	
4146	4006	3812	3636	3503	3204	2892	2284																	1378	RPM
0.82	16.0	0.85	15.3	0.86	14.8	0.87	14.5	0.88	14.6	0.92	14.4	0.91	13.7	0.84	12.5									1452	
4277	4143	3959	3778	3646	3362	3074	2575	1781																1489	
0.90	17.0	0.93	16.4	0.95	15.9	0.96	15.6	0.97	15.5	1.00	15.5	1.00	14.9	0.95	13.8	0.80	12.5							1527	RPM
4412	4283	4109	3925	3792	3524	3246	2853	2181																1645	
0.99	18.0	1.02	17.4	1.04	16.9	1.05	16.6	1.06	16.5	1.09	16.6	1.10	16.0	1.07	15.2	0.96	13.6							1700	RPM
4612	4490	4331	4147	4009	3762	3490	3198	2662																1750	
1.13	19.7	1.16	19.0	1.18	18.5	1.19	18.1	1.20	17.9	1.24	18.1	1.26	17.7	1.25	17.1	1.17	15.9							1800	RPM
4747	4629	4479	4297	4155	3919	3652	3390	2951																1850	
1.23	21	1.26	20	1.29	19.7	1.30	19.2	1.31	19.0	1.34	19.2	1.38	18.9	1.37	18.3	1.31	17.3							1900	RPM
4882	4768	4625	4448	4301	4072	3814	3565	3219	1845															1950	
1.33	22	1.37	21	1.40	21	1.41	20	1.42	20	1.45	20	1.49	20	1.49	19.6	1.46	18.8	1.13	16.4					2000	RPM
5020	4910	4774	4604	4452	4226	3980	3737	3454	2314															2050	
1.45	23	1.49	23	1.52	22	1.54	22	1.55	21	1.57	21	1.62	21	1.63	21	1.60	20	1.37	17.4					2100	
5155	5048	4919	4755	4600	4375	4142	3900	3652	2674															2150	RPM
1.57	24	1.61	23	1.64	23	1.66	22	1.67	22	1.70	22	1.74	22	1.76	22	1.75	21	1.57	18.7					2200	
5290	5186	5062	4906	4749	4522	4302	4062	3832	2993															2250	RPM
1.70	25	1.74	24	1.77	24	1.79	23	1.80	23	1.83	23	1.87	23	1.90	23	1.90	22	1.76	20					2300	
5425	5324	5205	5056	4899	4668	4460	4223	4002	3288															2350	RPM
1.83	26	1.87	25	1.91	25	1.93	24	1.94	24	1.97	24	2.01	24	2.05	24	2.05	23	1.94	21					2400	
5563	5465	5351	5210	5054	4817	4618	4390	4171	3574															2450	RPM
1.98	27	2.02	26	2.05	26	2.08	25	2.09	25	2.12	24	2.15	25	2.20	25	2.22	24	2.14	23					2500	

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA20 Performance Data

CFM at Static Pressure												RPM Range Motor HP		RPM												
0.00		.125		.250		.375		.500		.750		1.00		1.25		1.50		2.00								
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/2	3/4	1	1 1/2	2		
3857		3620		3383		3189		2931		2092															771	
0.41	10.8	0.43	9.8	0.45	9.4	0.46	9.1	0.47	8.6	0.43	7.3															
4037		3812		3580		3390		3185		2485															807	
0.47	11.6	0.49	10.7	0.51	10.2	0.52	10.0	0.54	9.6	0.52	8.6															
4222		4008		3783		3594		3415		2801															844	
0.53	12.5	0.56	11.5	0.58	11.1	0.59	11.0	0.61	10.7	0.61	10.1															
4407		4203		3986		3797		3630		3091		2295														881
0.61	13.5	0.64	12.5	0.66	12.0	0.67	12.1	0.69	11.9	0.70	11.4	0.63	9.8													
4593		4397		4189		3999		3838		3383		2733														918
0.69	14.5	0.72	13.4	0.74	12.9	0.76	13.1	0.77	13.1	0.80	12.3	0.76	11.1													
4773		4585		4385		4196		4037		3662		3066														954
0.77	15.6	0.80	14.4	0.83	14.0	0.84	14.1	0.86	14.2	0.89	13.4	0.88	12.8													
4958		4778		4586		4399		4240		3918		3365		2645												991
0.86	16.7	0.90	15.6	0.92	15.1	0.94	15.1	0.96	15.3	0.99	14.7	0.99	14.3	0.91	12.6											
5143		4970		4785		4603		4443		4149		3653		3073												1028
0.96	17.8	1.00	16.7	1.03	16.2	1.05	16.2	1.07	16.4	1.10	15.9	1.11	15.5	1.07	14.2											
5403		5239		5064		4888		4727		4451		4065		3539		2824										1080
1.12	19.4	1.16	18.3	1.19	17.8	1.21	17.7	1.23	17.8	1.27	17.8	1.30	17.0	1.28	16.6	1.16	15.1									
5588		5430		5262		5090		4930		4660		4339		3833		3270										1117
1.24	20	1.28	19.5	1.31	18.9	1.33	18.7	1.35	18.9	1.39	19.0	1.43	18.2	1.42	17.9	1.35	16.6									
5773		5620		5459		5292		5133		4865		4586		4121		3631										1154
1.36	22	1.41	21	1.44	20	1.47	19.8	1.49	20	1.53	20	1.57	19.6	1.58	19.2	1.54	18.4									
5958		5810		5655		5493		5336		5069		4814		4415		3941		2338								1191
1.50	23	1.54	22	1.58	21	1.61	21	1.63	21	1.67	22	1.71	21	1.74	20	1.72	20	1.36	18.8							
6148		6005		5855		5699		5545		5277		5036		4708		4240		3006								1229
1.65	24	1.69	23	1.73	23	1.76	22	1.78	22	1.83	23	1.87	23	1.91	22	1.90	21	1.66	19.4							
6333		6194		6049		5898		5748		5479		5247		4969		4529		3503								1266
1.80	25	1.85	24	1.89	24	1.92	23	1.94	23	1.99	24	2.04	24	2.08	23	2.08	22	1.92	21							
6519		6384		6243		6097		5950		5682		5454		5209		4823		3914								1303
1.96	26	2.01	25	2.05	24	2.09	24	2.11	24	2.16	25	2.21	25	2.25	24	2.27	23	2.18	22							

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA24 Performance Data

CFM at Static Pressure												RPM Range Motor HP					RPM			
0.00		.125		.250		.375		.500		.750		1.00		1.25		1.50		2.00		RPM
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	
4154	3809	3351		2712																551
0.30	7.7	0.31	7.2	0.32	6.7	0.31	6.4													589
4440	4122	3725		3243																630
0.36	8.8	0.38	8.3	0.39	7.8	0.39	7.4													667
4749	4456	4121		3675		3023														700
0.44	10.0	0.47	9.6	0.48	9.0	0.48	8.5	0.47	8.3											733
5028	4755	4449		4030		3584														770
0.53	11.1	0.56	10.8	0.57	10.2	0.57	9.7	0.57	9.3											805
5277	5019	4729		4350		3966														841
0.61	12.3	0.64	12.0	0.65	11.5	0.65	10.8	0.66	10.4											880
5526	5282	5005		4678		4297														915
0.70	13.5	0.74	13.2	0.74	12.7	0.75	12.1	0.76	11.6											954
5805	5575	5311		5032		4651		3674												1038
0.81	14.8	0.85	14.6	0.86	14.2	0.87	13.6	0.87	13.0	0.85	12.4									1095
6068	5850	5600		5345		4990		4230												1150
0.92	16.1	0.97	15.9	0.98	15.5	1.00	15.0	1.00	14.4	0.99	13.7									1207
6340	6132	5895		5654		5348		4679												1207
1.05	17.4	1.10	17.3	1.12	16.9	1.13	16.4	1.14	15.8	1.14	15.0									1207
6634	6437	6213		5982		5725		5089		4073										1207
1.21	18.9	1.26	18.7	1.28	18.4	1.29	18.0	1.31	17.4	1.31	16.5	1.25	16.0							1207
6898	6709	6496		6273		6044		5429		4672										1207
7192	7012	6810		6595		6383		5801		5202		3951								1207
7501	7329	7138		6933		6730		6201		5662		4760								1207
1.75	23	1.81	24	1.84	24	1.85	23	1.87	23	1.88	21	1.90	19.9	1.83	19.5					1207
7825	7661	7481		7285		7089		6629		6091		5443								1207
1.98	25	2.05	25	2.09	25	2.10	25	2.11	25	2.14	23	2.15	22	2.13	21					1207
8254	8100	7931		7749		7561		7172		6636		6144		5303						1207
2.33	28	2.40	28	2.45	28	2.46	28	2.47	28	2.51	26	2.51	24	2.53	23	2.45	23			1207
8669	8522	8364		8193		8014		7660		7171		6707		6138						1207
2.69	30	2.77	31	2.83	31	2.85	31	2.86	31	2.90	29	2.90	27	2.92	26	2.91	25			1207
9099	8959	8810		8650		8480		8145		7738		7255		6811		5004				1207
3.12	33	3.20	34	3.26	34	3.29	35	3.30	34	3.34	33	3.37	30	3.36	28	3.38	28	3.12	27	1207

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA30 Performance Data

CFM at Static Pressure												RPM Range					RPM												
0.00		.125		.250		.375		.500		.750		1.00		1.25		1.50		2.00		1/2	3/4	1	1 1/2	2	3	5			
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone										
5019		4322		3239																							363		
0.23	4.6	0.24	4.2	0.24	3.5																						400		
5530		4899		4177																							441		
0.31	5.6	0.32	5.2	0.33	4.5																						472		
6097		5525		4928		3818																					522		
0.41	7.1	0.43	6.6	0.44	6.0	0.43	5.4																				556		
6526		5992		5447		4736																					594		
0.51	8.3	0.52	7.7	0.54	7.2	0.55	6.7																				620		
7217		6735		6248		5719		4876																			648		
0.69	10.5	0.71	9.9	0.72	9.3	0.74	8.8	0.73	8.3																		673		
7687		7234		6779		6305		5709																			705		
0.83	12.2	0.85	11.6	0.87	11.0	0.88	10.5	0.89	10.1																		740		
8212		7789		7363		6930		6446																			770		
1.01	14.0	1.03	13.5	1.05	12.9	1.07	12.5	1.09	12.1																		803		
8572		8166		7758		7347		6906																			857		
1.15	14.9	1.17	14.3	1.19	13.9	1.21	13.5	1.23	13.1																		900		
8959		8571		8181		7789		7380		6220																	940		
1.31	15.9	1.34	15.4	1.36	14.9	1.38	14.5	1.40	14.2	1.40	13.4															985			
9305		8931		8556		8179		7793		6821																	1027		
1.47	16.8	1.50	16.2	1.52	15.8	1.54	15.4	1.56	15.1	1.58	14.5																		
9747		9391		9033		8673		8309		7474																			
1.69	18.0	1.72	17.4	1.74	16.9	1.77	16.6	1.79	16.3	1.82	15.8																		
10231		9891		9550		9208		8864		8119		6951																	
1.95	19.4	1.98	18.8	2.01	18.4	2.03	18.0	2.06	17.7	2.10	17.3	2.08	16.5																
10646		10319		9992		9663		9334		8641		7717																	
2.20	21	2.23	20	2.26	19.5	2.29	19.2	2.31	18.9	2.35	18.6	2.37	18.0																
11102		10789		10475		10160		9844		9195		8415																	
2.50	22	2.53	21	2.56	21	2.58	20	2.61	20	2.66	19.9	2.69	19.5																
11475		11173		10869		10565		10259		9638		8932		7847															
2.76	23	2.79	23	2.82	22	2.85	22	2.88	21	2.93	21	2.97	21	2.94	20														
11849		11555		11262		10967		10671		10074		9420		8538															
3.04	24	3.07	24	3.10	23	3.13	23	3.16	23	3.21	22	3.26	22	3.26	22														
12443		12164		11884		11604		11323		10757		10162		9452		8317													
3.52	26	3.55	26	3.58	26	3.62	25	3.65	25	3.70	24	3.76	24	3.79	24	3.73	23												
12996		12729		12461		12193		11924		11384		10828		10207		9381													
4.01	29	4.04	28	4.08	28	4.11	27	4.14	27	4.20	26	4.26	26	4.30	26	4.31	25												
13618		13363		13108		12852		12595		12081		11559		10999		10336		7170											
4.61	32	4.65	31	4.68	31	4.72	30	4.75	30	4.82	29	4.88	29	4.93	28	4.96	28	4.47	25										
14199		13954		13710		13464		13218		12725		12228		11710		11131		9172											
5.23	35	5.26	34	5.30	34	5.34	33	5.38	33	5.45	32	5.51	31	5.57	31	5.61	30	5.49	29										

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA36 Performance Data

CFM at Static Pressure												RPM Range Motor HP							RPM									
0.00		.125		.250		.375		.500		.750		1.00		1.25		1.50		2.00		3/4	1	1 1/2	2	3	5	7 1/2		
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	
6843		5746																									276	
0.28	4.3	0.29	3.7																								305	
7562		6634		4858																							331	
0.38	5.4	0.40	4.8	0.38	4.4																						360	
8207		7385		6031																							391	
0.48	6.5	0.50	5.9	0.50	5.5																						431	
8926		8193		7113																							460	
0.62	7.8	0.65	7.2	0.65	6.9																						493	
9694		9035		8148		6788																					520	
0.80	9.4	0.82	8.7	0.84	8.4	0.82	8.0																				547	
10686		10101		9373		8358																					575	
1.07	11.8	1.10	11.0	1.12	10.7	1.12	10.4																				605	
11405		10863		10214		9365		8200																			627	
1.30	13.6	1.33	12.8	1.36	12.4	1.36	12.2	1.34	11.9																		655	
12223		11722		11142		10424		9481																			685	
1.60	15.2	1.63	14.4	1.66	14.0	1.68	13.8	1.67	13.6																		715	
12892		12421		11885		11245		10437																			741	
1.87	16.6	1.91	15.8	1.95	15.3	1.97	15.1	1.97	14.9																		775	
13562		13116		12617		12038		11332		9335																	810	
2.18	18.0	2.22	17.2	2.26	16.7	2.28	16.4	2.30	16.2	2.23	15.7															840		
14256		13834		13368		12839		12214		10513																		
2.53	19.6	2.58	18.8	2.62	18.2	2.65	17.9	2.66	17.8	2.63	17.3																	
15000		14600		14165		13679		13121		11655		9430																
2.95	21	3.00	21	3.04	20	3.07	19.5	3.10	19.4	3.09	19.0	2.95	18.3															
15545		15161		14745		14286		13767		12442		10567																
3.28	23	3.33	22	3.38	21	3.41	21	3.44	21	3.45	20	3.35	19.7															
16240		15873		15479		15049		14572		13391		11779																
3.74	24	3.79	24	3.84	23	3.88	23	3.92	22	3.94	22	3.87	22															
16983		16634		16261		15858		15417		14359		12953		11023														
4.28	26	4.33	25	4.38	25	4.43	24	4.47	24	4.51	24	4.47	23	4.32	23													
17727		17393		17039		16660		16248		15288		14051		12442														
4.87	28	4.92	27	4.98	27	5.02	26	5.07	26	5.12	26	5.11	25	5.00	25													
18372		18049		17710		17349		16961		16070		14951		13519		11551												
5.42	30	5.48	29	5.53	29	5.58	28	5.63	28	5.69	27	5.70	27	5.63	27	5.42	26											
19215		18907		18586		18245		17882		17066		16072		14824		13266												
6.20	33	6.26	32	6.32	31	6.37	31	6.42	30	6.50	30	6.53	29	6.49	29	6.35	28											
20082		19789		19483		19161		18821		18067		17175		16082		14741		9310										
7.07	36	7.14	35	7.20	34	7.26	34	7.31	33	7.40	33	7.45	32	7.44	32	7.35	31	6.37	29									
20826		20544		20250		19943		19619		18911		18089		17103		15904		12267										
7.89	39	7.96	38	8.02	37	8.08	36	8.14	36	8.24	35	8.30	35	8.31	35	8.25	34	7.76	33									

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UBCA44 Performance Data

CFM at Static Pressure										RPM Range		RPM																				
0.00		.125		.250		.375		.500		.750		1.00		1.25		1.50		1	1 1/2	2	3	5	7 1/2	10								
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone															
11013				9673				7505																251								
0.57	4.6	0.61	4.3	0.61	3.8																					265						
11627				10372				8657																285								
0.68	5.2	0.72	4.9	0.73	4.3																					302						
1.2504	11352		9934																						330							
0.84	6.1	0.89	5.8	0.91	5.2																					348						
1.31	8.2	1.36	8.0	1.40	7.5	1.41	7.0																		365							
1.5269	14348		13327		12104		9785																		379							
1.53	9.2	1.59	9.0	1.64	8.5	1.66	7.9		1.59	7.6														398								
1.6014	15140		14183		13084		11515																		420							
1.77	10.1	1.83	10.0	1.88	9.5	1.91	8.9		1.89	8.5														444								
1.8428	17676		16873		16006		15025		11105														472									
1.98	11.0	2.04	10.8	2.10	10.3	2.14	9.8		2.14	9.3														495								
2.0709	20045		19346		18606		17815		15870		11061														515							
2.29	12.2	2.36	12.0	2.42	11.6	2.47	11.0		2.48	10.4														537								
2.3561	22980		22377		21748		21090		19648		17797		13614														560					
2.4570	24014		23438		22840		22218		20875		19266		16649														580					
2.5448	24911		24357		23784		23189		21918		20452		18434		13808														603			
2.7422	26925		26415		25889		25347		24205		22954		21473		19346														625			
2.8387	27908		27416		26911		26391		25301		24124		22782		21058														647			
2.9002	28532		28052		27559		27053		25993		24857		23583		22019														661			
10.50	31	10.61	31	10.73	31	10.83	30	10.94	30	11.12	30	11.28	28	11.37	27	11.34	26													661		

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

UDCA

Direct Drive Centrifugal Upblast Power Roof Ventilators

Applications

The UDCA units are quiet, dependable upblast power roof ventilators for the exhaust of grease-laden air from restaurant range hoods, and general ventilation applications where vertical discharge of exhaust air is required. Applications include virtually all types of commercial and institutional kitchens, such as restaurant and cafeteria, fast food, hospital, hotel and motel, bakery, delicatessen, school and military.

UDCA units are specified where a roof-mounted location is desired to eliminate interference with other equipment or activities in the building. They permit the direct upward venting of overheated air.

The UDCA is listed under UL classification YZHW for Power Roof Ventilators for Restaurant Exhaust Systems. When properly installed, the UDCA also meets the requirements of National Fire Protection Association Standard NFPA 96. These units are particularly recommended for economical and efficient range hood ventilation where continuous operation under severe conditions may cause other power roof ventilators to fail.

Construction

UDCA models feature a housing of durable spun aluminum for optimum weather protection. The overlapping deep spun venturi minimizes air turbulence and increases efficiency.

The aluminum centrifugal wheel is a non-overloading, backward-inclined type, selected for low noise levels. Backplate fins draw cool air through the motor compartment. The wheels are computer balanced on state-of-the-art equipment. The hub features a line bore, which eliminates the need for bushings.

The motor compartment cover is easily removable for complete access to the motor, and a factory wired safety disconnect device is standard.

Drive Mechanism

UDCA models have all the advantages of a direct drive assembly. There are no belts, pulleys, or bearings to consume power or require maintenance.

Motors

The standard motor for UDCA models is open construction, located out of the airstream. Totally enclosed, energy efficient, two-speed and explosion-proof motors may also be available. Motor enclosure may affect UL Listing. All motor brands are recognized and serviced nationwide.



UL762 - MH9847

Type UDCA ventilators are UL762 Listed by Underwriters Laboratory Inc.



American Coolair Corporation, ILG Industries certifies that the Type UDCA PRVs shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Guide Specifications

Upblast power roof ventilators shall be of the UDCA centrifugal type as manufactured by ILG Industries of American Coolair Corporation (individual models to be listed in fan schedule). Units shall meet UL Standard 762 as required and shall bear the AMCA Certified Ratings Seal for air and sound performance.

Bottom outer housing and venturi inlet shall be one piece heavy gauge spun aluminum with built-in grease drain. Wheel and venturi shall overlap for efficient operation. Motor compartment cover shall be heavy gauge spun aluminum construction and easily removable for access to motor and drive. Motor compartment disc and support pipes shall be heavy gauge steel.

Drive mechanism shall be of direct-drive design. The line bore hub shall be mounted onto the backplate of the centrifugal wheel. The centrifugal wheel shall be heavy gauge aluminum with backward-inclined, non-overloading blades and be computer balanced.

Motor shall be open construction, NEMA design B. Optional variable speed control allows for field adjustment and system balance. The unit shall be equipped with a wired and mounted safety disconnect device.

(Epoxy coating, roof curb and other accessories shall be listed in the fan schedule.)

UDCA12-UDCA13 Performance Data

CFM at Static Pressure												RPM RANGE		RPM								
0.00		.125		.250		.375		.500		.625		.750		1.00		1.25		1.50		UDCA12J16		
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/2 HP		
970		844		709																850		
0.05	4.2	0.05	3.8	0.06	3.4															925		
1056		939		821		670																
0.06	5.0	0.07	4.6	0.08	4.3	0.08	4.0													1000		
1142		1033		926		803		619														
0.08	5.8	0.09	5.6	0.09	5.3	0.10	4.9	0.09	4.6											1075		
1227		1125		1027		920		787														
0.10	6.8	0.11	6.6	0.11	6.3	0.12	5.9	0.12	5.6											1150		
1313		1217		1126		1030		920		771												
0.12	7.8	0.13	7.7	0.14	7.3	0.14	6.9	0.15	6.6	0.14	6.4									1225		
1399		1308		1222		1134		1038		923		758										
0.14	8.9	0.15	8.8	0.16	8.4	0.17	8.1	0.18	7.6	0.18	7.4	0.17	7.1							1300		
1484		1398		1318		1236		1149		1052		931										
0.17	10.1	0.18	10.0	0.19	9.6	0.20	9.3	0.21	8.8	0.21	8.4	0.21	8.3							1375		
1570		1488		1412		1335		1255		1169		1070										
0.20	11.5	0.22	11.4	0.23	11.0	0.24	10.5	0.24	10.1	0.25	9.7	0.25	9.4							1450		
1656		1578		1505		1433		1358		1279		1193		965								
0.24	12.8	0.25	12.7	0.26	12.4	0.27	11.9	0.28	11.6	0.29	11.1	0.30	10.7	0.29	10.4					1525		
1741		1667		1597		1529		1459		1386		1308		1121								
0.27	14.2	0.29	14.1	0.30	13.7	0.32	13.3	0.32	12.9	0.33	12.4	0.34	12.0	0.34	11.5					1600		
1827		1756		1689		1624		1558		1490		1418		1256		1028						
0.32	15.2	0.33	15.2	0.35	14.9	0.36	14.4	0.37	14.1	0.38	13.7	0.39	13.3	0.40	12.7	0.39	12.4					1690
1930		1862		1798		1736		1674		1611		1545		1403		1225						
0.37	16.7	0.39	16.5	0.41	16.3	0.42	16.0	0.43	15.7	0.44	15.4	0.45	15.1	0.47	14.4	0.47	14.0					

CFM at Static Pressure												RPM RANGE		RPM								
0.00		.125		.250		.375		.500		.625		.750		1.00		1.25		1.50		UDCA13J15		
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/2 HP		
1157		1026		894																800		
0.06	5.2	0.07	4.5	0.07	4.1															875		
1265		1146		1026		883																
0.08	6.2	0.09	5.7	0.09	5.3	0.10	5.0													950		
1374		1264		1153		1038		879														
0.10	7.4	0.11	6.9	0.12	6.5	0.12	6.2	0.12	5.9											1025		
1482		1380		1278		1176		1051		881												
0.12	8.6	0.13	8.2	0.14	7.9	0.15	7.5	0.16	7.2	0.15	6.9									1100		
1590		1495		1401		1305		1204		1073												
0.15	10.1	0.16	9.7	0.17	9.4	0.18	9.0	0.19	8.6	0.19	8.4									1175		
1699		1609		1522		1432		1343		1236		1104										
0.18	11.7	0.20	11.3	0.21	11.0	0.22	10.6	0.23	10.2	0.23	9.9	0.23	9.6							1250		
1807		1723		1641		1556		1473		1385		1276										
0.22	13.3	0.24	13.1	0.25	12.7	0.26	12.3	0.27	11.9	0.28	11.6	0.28	11.2							1350		
1952		1874		1798		1720		1642		1565		1481		1259								
0.28	15.1	0.29	14.8	0.31	14.5	0.32	14.1	0.33	13.8	0.35	13.4	0.35	13.0	0.36	12.5					1425		
2060		1986		1914		1841		1767		1694		1619		1433								
0.33	16.3	0.34	16.0	0.36	15.7	0.37	15.4	0.39	15.0	0.40	14.7	0.41	14.4	0.42	13.8					1500		
2169		2098		2030		1961		1890		1820		1751		1592		1384						
0.38	17.6	0.40	17.3	0.42	17.0	0.43	16.7	0.45	16.3	0.46	16.0	0.47	15.7	0.49	15.2	0.49	14.7					1575
2277		2210		2144		2079		2012		1945		1879		1740		1562		1324				
0.44	19.0	0.46	18.6	0.48	18.3	0.49	18.0	0.51	17.7	0.53	17.4	0.54	17.1	0.56	16.5	0.57	16.1	0.55	15.6			

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories)

The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301

Values shown are for installation Type A: free inlet hemispherical sone levels

AMCA Certified Ratings apply only to the UDCA Roof Ventilator constant speed fans and not variable speed fan:

UDCA15 Performance Data

CFM at Static Pressure														RPM RANGE							
0.00		.125		.250		.375		.500		.625		.750		1.00		1.25		1.50		UDCA15K15	
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	3/4 HP	RPM
1565		1411		1240		1014														800	
0.10	5.7	0.11	5.3	0.12	4.7	0.12	4.5														
1712		1583		1413		1231		1023												875	
0.13	6.8	0.14	6.3	0.16	6.1	0.16	5.6	0.16	5.4												
1858		1747		1579		1443		1247		1049										950	
0.17	7.9	0.18	7.3	0.20	7.3	0.20	6.5	0.20	6.5	0.20	6.4										
2005		1905		1747		1625		1464		1286		1086								1025	
0.21	8.9	0.23	8.2	0.24	8.2	0.25	7.7	0.26	7.3	0.26	7.1	0.25	7.5								
2152		2061		1922		1793		1674		1503		1341								1100	
0.26	9.9	0.28	9.2	0.29	9.2	0.31	8.9	0.32	8.2	0.32	8.3	0.32	7.9								
2299		2215		2097		1959		1856		1722		1560		1211						1175	
0.32	11.0	0.34	10.3	0.35	10.4	0.37	10.2	0.38	9.5	0.39	9.2	0.39	9.3	0.38	9.3						
2445		2368		2267		2128		2026		1923		1778		1487						1250	
0.38	12.3	0.40	11.6	0.42	11.6	0.44	11.6	0.45	11.1	0.46	10.4	0.47	10.4	0.46	10.4						
2592		2519		2431		2301		2192		2101		1992		1710		1409				1325	
0.46	13.8	0.48	13.1	0.50	12.9	0.52	13.1	0.53	12.8	0.55	12.1	0.55	11.6	0.55	11.6	0.55	11.7				
2739		2671		2590		2478		2359		2270		2182		1927		1670				1400	
0.54	15.4	0.56	14.6	0.58	14.4	0.60	14.5	0.62	14.5	0.64	13.9	0.65	13.3	0.65	13.3	0.65	13.3				
2885		2821		2748		2651		2529		2436		2355		2145		1893		1636		1475	
0.63	17.0	0.65	16.2	0.67	15.9	0.70	16.0	0.72	16.1	0.74	15.8	0.75	15.2	0.77	15.2	0.76	14.5	0.76	14.6		
3032		2971		2904		2819		2704		2603		2523		2353		2110		1879		1550	
0.73	18.6	0.75	17.9	0.78	17.5	0.80	17.6	0.82	17.7	0.85	17.6	0.86	17.2	0.89	17.2	0.89	15.9	0.89	16.4		

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown are loudness values in hemispherical zones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels

AMCA Certified Ratings apply only to the UDCA Roof Ventilator constant speed fans and not variable speed fans.

Installation

Most models are shipped fully assembled and ready for installation. Always inspect equipment for transit damage before accepting delivery to assure a valid claim. Special handling and storage procedures are required if unit is to remain idle for a long time prior to installation.

Placement

All belt-driven units must be accessibly installed for maintenance of belts, bearings, motors and pulleys and routine cleaning.

Mounting

Satisfactory operation of roof ventilators requires mounting on adequately designed and constructed roof curbs. Prefabricated curbs for convenience in installation are available from ILG. Install with base of unit horizontal. Provide adequate caulking, flashing or other weatherproofing means. Duct connections are made below the unit.

Inspection

Check centrifugal wheel for free rotation.

Check belt for proper tension (UBCA).

Check bearings for proper and secure locking to drive shaft (UBCA).

Check motor and fan sheave faces for proper alignment (UBCA).

Check circuit phase, voltage and wiring connection against that shown on motor nameplate.

Check direction of fan rotation for proper air flow.

Check belt after one week of operation for proper tension (UBCA).

Maintenance

Units should be checked monthly for the first two or three months and periodically thereafter.

Cleaning

Units should be cleaned of grease and material buildup every three months or when necessary, depending on the condition of air being exhausted and frequency of use. Grease trough, drain and container should be checked and emptied as required to prevent grease overflow, as often as every one or two weeks with heavy grease applications such as char-broilers. Units should also be checked for eroded parts which should be replaced to avoid structural damage and possible failure.

Lubrication

Proper lubrication is the most important maintenance requirement. On UBCA units, fan bearings should be lubricated annually or more frequently based on usage and operating conditions. For best results, use a #2 consistency lithium based grease such as Shell Alvania #2 or equivalent lubricant. Motor bearings should be lubricated according to the motor manufacturer's instructions.

Adjustment of Variable Pitch Pulley and Belt (UBCA Only)

Variable pitch pulley may be adjusted within catalog RPM range to alter performance. However, adjustment beyond catalog RPM range may cause motor overload and possible premature motor failure. Pulley alignment and belt tension should be adjusted if necessary. Both motor and driven pulleys should be at right angles to the shafts, and the V-grooves should be aligned with each other. Inspection of drive components every 6 to 12 months is recommended.



To convert air performance (CFM and SP) and power (BHP) to metric units, multiply CFM x .000472 to obtain cubic meters per second (m³/s). Multiply SP x 248.36 to obtain pascals (Pa). Multiply BHP x .7457 to obtain kilowatts (kW).

Example: 3904 CFM x .000472 = 1.8427 m³/s
0.125 SP x 24.36 = 31.05 Pa
0.886 BHP x .7457 = 0.661 kW

UBCA/UDCA Options and Accessories

Grease Extraction Application Accessories

Prefabricated Roof Curbs

Roof curbs for grease extraction UBCA and UDCA models meet NFPA 96 system requirements for minimum PRV discharge height above the roof line. Curb height for sizes 18 and below is 20", and for sizes 20 and above is 18". Curbs with venting on two or four sides are also available. All curbs are insulated, feature a weather-resistant, continuous welded construction and provide convenience in installation of PRV units for both insulated and non-insulated roof decks.

Safety Disconnects

Safety disconnects cut power to motor for servicing of unit. A factory mounted and wired disconnect is an option for UBCA units with the UL 762 designation. The disconnect may either be interior with an external weather-proof junction box (all units), or external (units up to 2 hp only). Wiring is completed from the motor to the exterior box. Factory mounted and wired interior disconnect switches are standard for all UDCA models.

Grease Collector

Grease pans collect grease drained from the fan. An integral baffle contains the grease while allowing water to flow from the pan. The grease collector should be attached to the curb below the standard drain.

General Ventilation Accessories

Prefabricated Roof Curbs

Insulated roof curbs with weather-resistant continuous welded construction are available for convenience in installation for both insulated and non-insulated roof decks.

Safety Disconnects

Safety disconnects cut power to motor for servicing of unit. A disconnect switch is an accessory available on UBCA units used for general ventilation, and is shipped loose for field installation. An optional wiring harness is available to connect the motor to the switch at the internal junction box. Factory mounted and wired internal disconnect switches are standard for all UDCA models.

Backdraft Dampers

Gravity or motor operated backdraft dampers are available. They are aluminum construction and designed for installation in prefabricated roof curbs.

Birdguards

Wire birdguards are available to prevent entry of birds or other potentially damaging objects.

Speed Controller (UDCA models only)

Solid state speed controller provides capability to change performance and speed ranging from 50% to 100% of fan capacity. This permits adjustment for fine tuning and balancing the ventilation system (see performance tables).

General Options and Accessories

Hinged Base Kits

Hinged bases are specifically designed to provide easy access for cleaning and servicing the lower parts of UBCA and UDCA units.

Roof Handle

Aluminum handle facilitates removal of the roof. A roof handle is standard for units with the UL762 designation.

Special Motors

Two-speed, totally enclosed, energy efficient and explosion-proof motors for hazardous locations may be available for many models. Motor requirements may affect UL listings.

Protective Coatings

Fan units are not recommended for exhausting air of a corrosive nature. However, special protective coatings are available where units may be exposed to corrosive exterior conditions. Parts requiring painting are processed through the American Coolair five-stage pretreatment system prior to the application of any coatings to insure maximum finish adhesion. These parts use a thermosetting epoxy powder paint with an average thickness of 3 mils and baked at 400° F to a smooth, hard continuous finish. Consult your ILG Industries representative for available coatings.

UBCA Specification Checklist

- Units provide grease-laden vapor extraction and general exhaust with vertical discharge for low, medium and high air volumes, especially in commercial and institutional kitchens.
- Centrifugal design has advantages of compact, attractive appearance, quiet operation and performance against higher static pressures.
- Variable pitch belt drive allows for speed adjustment.
- Adjustable hinged motor bracket facilitates maintenance of belt tension.
- Weatherproof heavy duty aluminum housing and motor compartment cover resist corrosion, maintaining appearance.
- Deep-spun, overlapping, one-piece venturi/bottom outer housing minimizes noise, reduces air turbulence and improves efficiency.
- Aluminum centrifugal wheel is quiet, non-overloading, backward-inclined design and is computer balanced.
- Standard open drip-proof motor is out of the airstream for protection.
- The motor is mounted with the shaft up for convenient access to the variable pitch cast iron motor pulley.
- The motor compartment is cooled by a forced air ventilation system, extending motor life.
- Units have the UL Label for the removal of grease-laden vapors and fumes (UL 762), for general ventilation (UL 705), or for high temperature operation (UL793).
- AMCA Seal assures certified rating of air and sound performance.
- Heavy duty pillow-block bearings are self-aligning and relubricable.

Limited Warranty

In the sale of its products, American Coolair Corporation agrees to correct, by repairs or replacement, any defects in workmanship or material that may develop under proper and normal use during the period of one year from the date of shipment from the factory. Any product or part proving, upon American Coolair's examination, to be defective during limited warranty period will be repaired or replaced, 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 as 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.



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VANE AXIAL FANS ~ TUBE AXIAL FANS ~ PROPELLER FANS ~ POWER ROOF VENTILATORS ~ CENTRIFUGAL VENTILATORS
MEMBER OF AMCA

UDCA Specification Checklist

- Units provide grease-laden vapor extraction and general exhaust with vertical discharge for low and medium air volumes, especially in commercial and institutional kitchens.
- Centrifugal design has advantages of compact, attractive appearance, quiet operation and performance against higher static pressures.
- Direct-drive has advantages of minimal maintenance and operating costs.
- Safety disconnect switch allows power to be cut off for servicing of unit.
- Weatherproof heavy duty aluminum housing and motor compartment cover resist corrosion, maintaining appearance.
- Deep-spun, overlapping, one-piece venturi/bottom outer housing minimizes noise, reduces air turbulence and improves efficiency.
- Aluminum centrifugal wheel is quiet, non-overloading, backward-inclined design and is computer balanced.
- Standard open motor is out of the airstream for protection.
- The motor compartment is cooled by a forced air ventilation system, extending motor life.
- Units have the UL Label for the removal of grease-laden vapors and fumes (UL 762).
- AMCA Seal assures certified rating of air and sound performance.

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