

K SERIES DIRECT DRIVE SIDEWALL PROPELLER FANS

SPECIFICATIONS

Fans shall be direct drive propeller type with integral motorside OSHA style guard.

Propeller construction shall be of die formed aluminum blades riveted to steel hub. Propeller assembly shall be statically and dynamically balanced. Hub shall be securely attached to motor shafts with set screws.

Motors shall be permanently lubricated, speed controllable heavy-duty permanent split capacitor type, carefully matched to the fan load and furnished at the specified voltage, phase and enclosure. Motors shall be factory wired to a factory mounted wiring/conduit box. Fan/motor assembly shall be factory run-tested.

The single piece fan panel shall be minimum 16 gauge galvanized steel construction with pre-punched mounting holes, formed flanges and a deep spun venturi. Motorside guard shall be coated with an electrocoat baked enamel to provide a long lasting finish. Motor support/integral motorside guard shall be heavy-gauge welded wire and shall meet OSHA specifications. The motor and guard assembly shall be resiliently mounted to the fan panel with neoprene vibration mounts.

The axial exhaust and supply fan shall bear the AMCA certified ratings seal for air and sound performance.

Fans shall be Model LYDK for exhaust and LZDK for supply by Carnes Company of Verona, Wisconsin.

CONSTRUCTION & FEATURES

PANEL 16 ga. Galv. Steel Single Piece Construction

RESILIENT MOUNTS For Vibration Isolation

MOTOR Speed Controllable Permanent Split Capacitor Open Drip-Proof

> TERMINAL BOX Factory Wired for Easy Field Power Connection

CONDUIT KNOCKOUT For Field Wiring Damper Motor

MOTORSIDE GUARD Welded Steel Wire Meets OSHA Specifications Electrocoat Baked Enamel Finish



EXHAUST MODEL LYDK SHOWN

Model LYDK/LZDK

PROPELLER Die Formed Alum. Blades Steel Hub with Set Screws Statically & Dynamically Balanced 3 or 4 Blade Assembly

> VENTURI Deep Spun for High Performance

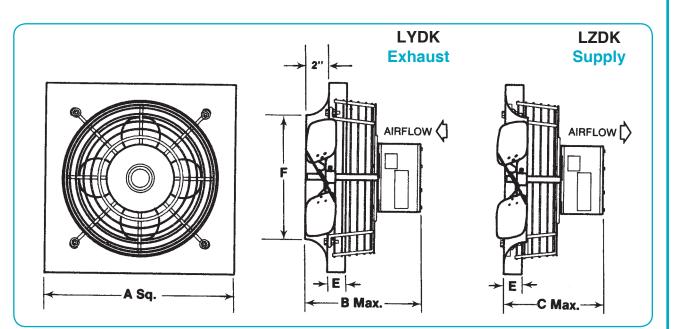
FORMED FLANGES For A Strong, Rigid Panel Pre-Punched Mounting Holes Formed Toward Motor Side for Easy Mounting

AMCA LICENSED Ratings Seal for Air Performance and Sound

FACTORY RUN TESTED For Dependable Operation

DIMENSIONS | Models LYDK and LZDK

| | Α | | | | | | Weight |
|-------|-----|----|----|---|-------|--------|--------|
| Size | Sq. | В | С | D | E | F | (Lbs.) |
| 9-10 | 16 | 11 | 10 | 2 | 1-1/2 | 10-1/4 | 20 |
| 11-12 | 16 | 11 | 10 | 2 | 1-1/2 | 12-1/4 | 20 |
| 13 | 20 | 12 | 11 | 2 | 1-1/2 | 14-1/4 | 25 |
| 15-16 | 20 | 13 | 12 | 2 | 1-1/2 | 16-1/4 | 30 |
| 17-18 | 24 | 13 | 12 | 2 | 1-1/2 | 18-1/4 | 35 |
| 19-21 | 24 | 13 | 12 | 2 | 1-1/2 | 20-1/4 | 40 |



• SPECIAL FINISHES - epoxy, enamel or heresite.

Performance Ratings

Carnes Company certifies that the Type LYDK and LZDK fans shown herein are licensed to bear the AMCA Seal for Sound and Air. 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.



amca Certified Ratings

JOUND

AIR

Models LYDK and LZDK are listed to UL Standard 705 and to CSA Standard C22.2 No. 113-12. File Number E27827. UL listing may be optional and must be specified when required.

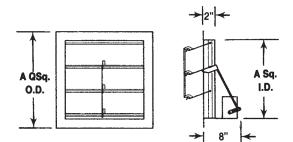


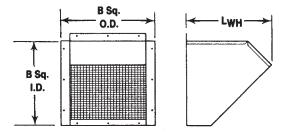
CARNES®

ACCESSORIES | Models LYDK and LZDK

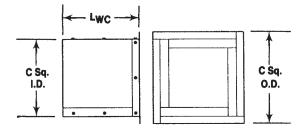
SHUTTERS - Flanged frames recess the aluminum damper and optional motor pack into the wall opening for weather protection and a neat, clean appearance that is flush with the exterior wall. Standard construction includes aluminum frame, aluminum blades, polyurethane seal on sill and felt blade seals.

WEATHER HOOD - Provides weather protection for supply and exhaust applications (strongly recommended for supply). Flanged and pre-punched for easy mounting. Includes galvanized 1/2" x .042 wire mesh birdscreen. Standard material is 18 ga. galvanized steel (aluminum optional).

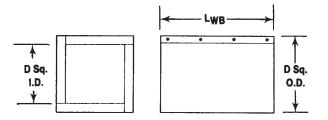




WALL COLLAR - Allows for the exhaust or supply fan to be mounted within the wall opening flush with exterior wall surface. Pre-punched mounting holes are located for easy attachment of fan panel, shutter and weather hood. Standard material is 18 ga. galvanized steel (aluminum is optional).



WALL BOX - Allows for the exhaust or supply fan to be mounted in the wall opening and extending either into or outside the exterior wall. Pre-punched mounting holes are located for easy attachment of fan panel, shutter and weather hood. Standard material is 18 ga. galvanized steel (aluminum and painted finishes are optional).



ACCESSORIES | Models LYDK and LZDK

Models LYDK and LZDK ACCESSORIES

PROPELLER GUARD - In addition to the standard motorside guard, the propeller-side guard provides protection where the propeller side of the fan is exposed. This heavy-gauge welded wire guard is bolted to the fan panel. The standard finish is baked enamel (gray). Meets OSHA specifications.

ELECTRONIC SPEED CONTROL -

Enables continuously variable capacity control from full motor nominal RPM to approximately 50%. 3 sizes available - 3 amp, 6 amp and 10 amp. Compatible with standard 115/1/60 and PSC motors. Ships loose for field installation and wiring.

DISCONNECT SWITCH -

NEMA 1 or NEMA 3 (raintight) ships loose for field installation.

MOUNTING ANGLES -

Angle flanges cut to length provide a convenient method of attaching wall box to wall. Ships loose for field drilling and installation.

ALUMINUM CONSTRUCTION -

For additional corrosion resistance - the fan panel, weather hood, wall box or wall collar can be specified with aluminum construction.

UL 705 LISTING -

The standard units can be specified with **UL 705** listing for electrical safety and reliability.

| | SHUTTER WEATHER HOOD | | | WALL COLLAR | | | WALL BOX | | | | PROP GUARD | | | | | | | |
|----------|----------------------|--------|------|-------------|--------|-------|----------|-----|--------|--------|------------|-----------------|--------|--------|-----|----|----|-----|
| FAN | A SQ. | A SQ. | WT. | | B SQ. | B SQ. | WT. | | C SQ. | C SQ. | WT | | D SQ. | D SQ. | WT | | | WT |
| SIZE | OD | ID | LBS. | LWH | OD | ID | LBS | Lwc | OD | ID | LBS | L _{WB} | OD | ID | LBS | LG | D | LBS |
| 9-12 | 15-1/4 | 12-1/4 | 2 | 14 | 15-1/2 | 14 | 11 | 16 | 19-1/4 | 16-1/4 | 16 | 24 | 16-1/4 | 13-1/4 | 20 | 4 | 15 | 2 |
| 13,15-16 | 19-1/4 | 16-1/4 | 4 | 18 | 19-1/2 | 18 | 15 | 16 | 23-1/4 | 20-1/4 | 19 | 24 | 20-1/4 | 17-1/4 | 24 | 4 | 19 | 3 |
| 17-21 | 23-1/4 | 20-1/4 | 6 | 20 | 23-1/2 | 22 | 20 | 16 | 27-1/4 | 24-1/4 | 23 | 24 | 24-1/4 | 21-1/4 | 29 | 4 | 23 | 4 |

DIMENSIONS AND WEIGHTS



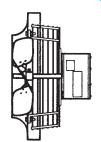
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CARNES[®] PERFORMANCE DATA | Models LYDK and LZDK

CFM BHP SONES

LYDK - EXHAUST LZDK - SUPPLY

DIRECT DRIVE PANEL FAN



PERFORMANCE DATA WITH SPEED CONTROL

| FAN | MOTOR | FAN | TIP SPEED | STATIC PRESSURE (Inches, W.G.) | | | | | | | | | |
|------|-------|-------|------------|--------------------------------|------------------------|-------------------------|-----------------|-----------------|----------|-------|--|--|--|
| SIZE | HP | RPM | (Ft./Min.) | 0.000 | 0.125 | 0.250 | 0.375 | 0.500 | 0.625 | 0.750 | | | |
| | | 700 | 1833 | 328 0.01 | | | | | | | | | |
| | | 800 | 2094 | 2.0 375 0.01 | | | | | | | | | |
| | | 000 | 2004 | 2.6 | | | | | | | | | |
| | | 900 | 2356 | 421 0.01 | 89 0.01 | | | | | | | | |
| 9H3 | 1/12 | | | 3.1 | 3.6 | | | | | | | | |
| | | 1000 | 2618 | 468 0.01 | 178 0.01 | | | | | | | | |
| | | 1075* | 2814 | 3.7 503 0.01 | 4.2 232 0.01 | | | | | | | | |
| | | 1075 | 2014 | 4.1 | 4.6 | | | | | | | | |
| | | 1050 | 2749 | 493 0.01 | 176 0.01 | | | | | | | | |
| | | | | 2.1 | 4.3 | | | | | | | | |
| | | 1200 | 3142 | 563 0.01 | 303 0.02 | | | | | | | | |
| 10K2 | 1/6 | | | 3.0 | 4.8 | | | | | | | | |
| | | 1350 | 3534 | 634 0.02 3.8 | 369 0.02 5.4 | 108 0.03 7.6 | | | | | | | |
| | | 1500 | 3927 | 704 0.02 | 468 0.03 | 264 0.04 | | | | | | | |
| | | | | 4.7 | 6.0 | 7.9 | | | | | | | |
| | | 1700* | 4451 | 798 0.04 | 671 0.04 | 429 0.05 | 182 0.07 | | | | | | |
| | | 700 | 0100 | 5.9 | 6.9 | 8.6 | 10.7 | | | | | | |
| | | 700 | 2199 | 582 0.01 2.8 | | | | | | | | | |
| | | 800 | 2513 | 661 0.02 | 130 0.03 | | | | | | | | |
| | | | | 3.5 | 4.7 | | | | | | | | |
| | | 900 | 2827 | 756 0.02 | 314 0.03 | | | | | | | | |
| 11H3 | 1/12 | | | 4.3 | 5.2 | | | | | | | | |
| | | 1000 | 3142 | 837 0.03 | 455 0.04 | | | | | | | | |
| | | 1075* | 3377 | 5.0 930 0.04 | 5.7 530 0.05 | 40 0.07 | | | | | | | |
| | | 1075 | 3377 | 5.5 | 6.0 | 8.2 | | | | | | | |
| | | 1050 | 3299 | 934 0.02 | 546 0.03 | | | | | | | | |
| | | | | 3.8 | 4.6 | | | | | | | | |
| | | 1200 | 3770 | 1067 0.03 4.9 | 746 0.04 5.1 | 307 0.06 8.0 | | | | | | | |
| | | 1350 | 4241 | 4.9 1201 0.05 | 1036 0.06 | 534 0.07 | | | | | | | |
| 12K2 | 1/6 | | | 6.1 | 6.0 | 8.2 | | | | | | | |
| | | 1500 | 4712 | 1334 0.07 | 1204 0.08 | 798 0.08 | 422 0.11 | | | | | | |
| | | | | 7.5 | 7.2 | 8.5 | 11.4 | | | | | | |
| | | 1700* | 5341 | 1512 0.10 | 1398 0.11 | 1059 0.11 | 740 0.13 | 439 0.16 | | | | | |
| | | 700 | 2566 | 9.5 1010 0.02 | 9.3 372 0.03 | 9.5 | 11.6 | 14.6 | | | | | |
| | | /00 | 2000 | 3.3 | 5.5 | | | | | | | | |
| | | 800 | 2932 | 1155 0.03 | 637 0.04 | | | | | | | | |
| | | | | 4.1 | 6.4 | | | | | | | | |
| 13K3 | 1/6 | 900 | 3299 | 1299 0.04 | 819 0.05 | 287 0.08 | | | | | | | |
| | | 1000 | 0005 | 5.0 | 7.9 | 9.4 | | | | | | | |
| | | 1000 | 3665 | 1443 0.06 5.9 | 976 0.06 9.3 | 553 0.09 10.6 | | | | | | | |
| | | 1075* | 3940 | 5.9 1551 0.07 | 9.3 1137 0.08 | 769 0.10 | 278 0.14 | | <u> </u> | | | | |
| | | | | 6.6 | 10.1 | 11.5 | 12.9 | | | | | | |
| | 1 | | | | 1 | 1 | 1 | | I | - | | | |

Sidewall Propeller Fans

NOTES: 1. Performance certified is for installation type A - Free inlet, Free outlet.

2. Performance ratings include the effects of the motorside guard in the airstream.

3. *Indicates motor RPM without speed control.

4. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels.

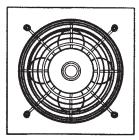
COMPUTERIZED FAN SELECTION: Make the right choice with CARNES **FAN-C-LECT**TM. The Models LYDK and LZDK, as well as the comprehensive offering of CARNES powered ventilators, are included in CARNES user friendly fan selection program.

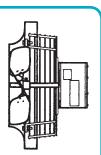
PERFORMANCE DATA | Models LYDK and LZDK

CARNES

LYDK - EXHAUST LZDK - SUPPLY

DIRECT DRIVE PANEL FAN





PERFORMANCE DATA WITH SPEED CONTROL

CFM BHP SONES

| FAN | MOTOR | FAN | TIP SPEED | | | STATIO | PRESSURE (| Inches, W.G.) | | |
|-------|-------|-------|------------|-------------------------|-------------------------|--------------------------|-------------------------|------------------|------------------|------------------|
| SIZE | HP | RPM | (Ft./Min.) | 0.000 | 0.125 | 0.250 | 0.375 | 0.500 | 0.625 | 0.750 |
| | | 700 | 2932 | 1498 0.03 | 459 0.05 | | | | | |
| | | | | 3.9 | 4.9 | | | | | |
| | | 800 | 3351 | 1711 0.05 | 902 0.06 | | | | | |
| 15K3 | 1/6 | | | 4.9 | 6.0 | | | | | |
| | | 900 | 4189 | 2139 0.10 | 1660 0.11 | 694 0.14 | | | | |
| | | | | 7.3 | 8.1 | 9.2 | | | | |
| | | 1000 | 4490 | 2293 0.12 | 1880 0.14 | 1014 0.16 | | | | |
| | | | | 8.3 | 9.0 | 10.3 | | | | |
| | | 1075* | 4503 | 2300 0.12 | 1888 0.14 | 1027 0.16 | | | | |
| | | 1050 | (000 | 8.3 | 9.0 | 10.3 | | | | |
| | | 1050 | 4398 | 2282 0.12 | 1873 0.13 | 916 0.15 | | | | |
| | | 1200 | 5027 | 8.0 2608 0.18 | 8.8 2269 0.19 | 11.6 1567 0.19 | 758 0.24 | | | |
| | | 1200 | 5027 | 10.2 | 10.6 | 13.0 | 15.9 | | | |
| | | 1350 | 5655 | 2934 0.25 | 2645 0.27 | 2069 0.26 | 1366 0.30 | 708 0.35 | | |
| 16R2 | 3/4 | 1000 | 0000 | 12.4 | 12.8 | 14.6 | 17.2 | 20 | | |
| TUNZ | 5/4 | 1500 | 6283 | 3260 0.35 | 3000 0.36 | 2689 0.38 | 2021 0.37 | 1357 0.43 | 747 0.48 | |
| | | 1500 | 0205 | 14.6 | 15.0 | 16.2 | 18.5 | 21 | 24 | |
| | | 1700* | 7121 | 3694 0.50 | 3465 0.52 | 3216 0.54 | 2759 0.53 | 2226 0.55 | 1604 0.62 | 1085 0.67 |
| | | | | 17.9 | 18.3 | 18.8 | 21 | 23 | 25 | 28 |
| | | 700 | 3299 | 1940 0.05 | 1039 0.06 | | | | | |
| | | | | 4.3 | 5.6 | | | | | |
| | | 800 | 3770 | 2217 0.07 | 1523 0.08 | 555 0.10 | | | | |
| | | | | 5.5 | 6.3 | 9.2 | | | | |
| | | 900 | 4241 | 2494 0.10 | 1965 0.11 | 1113 0.13 | | | | |
| 17L3 | 1/4 | | | 6.7 | 7.5 | 9.6 | | | | |
| | | 1000 | 4712 | 2771 0.14 | 2306 0.15 | 1507 0.16 | 790 0.20 | | | |
| | | 10751 | | 8.1 | 8.9 | 10.4 | 13.1 | | | |
| | | 1075* | 5066 | 2771 0.18 9.1 | 2552 0.19 9.9 | 1793 0.19 11.1 | 1247 0.22 | | | |
| | | 1050 | 4948 | 9.1 3039 0.18 | 9.9 2546 0.20 | 1865 0.21 | 13.6 825 0.26 | | | |
| | | 1050 | 4540 | 9.4 | 9.9 | 12.2 | 15.5 | | | |
| | | 1200 | 5655 | 3473 0.26 | 3098 0.29 | 2409 0.28 | 1782 0.33 | | | |
| | | .200 | 0000 | 11.8 | 12.3 | 13.7 | 16.4 | | | |
| 18R2 | 3/4 | 1350 | 6362 | 3907 0.38 | 3574 0.40 | 3205 0.43 | 2521 0.42 | 1861 0.48 | 1026 0.55 | |
| 10112 | 0, 1 | 1000 | 0002 | 14.3 | 14.8 | 15.2 | 17.7 | 20 | 24 | |
| | | 1500 | 7069 | 4341 0.52 | 4041 0.54 | 3722 0.57 | 3076 0.55 | 2693 0.60 | 2029 0.67 | 1271 0.74 |
| | | | | 16.8 | 17.3 | 17.7 | 19.1 | 22 | 24 | 27 |
| | | 1700* | 8011 | 4920 0.75 | 4655 0.78 | 4390 0.82 | 4088 0.85 | 3417 0.81 | 3097 0.86 | 2538 0.94 |
| | | | | 20 | 21 | 21 | 22 | 23 | 26 | 28 |

NOTES: 1. Performance certified is for installation type A - Free inlet, Free outlet.

2. Performance ratings include the effects of the motorside guard in the airstream.

3. *Indicates motor RPM without speed control.

4. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone level.

COMPUTERIZED FAN SELECTION: Make the right choice with CARNES **FAN-C-LECT**TM. The Models LYDK and LZDK, as well as the comprehensive offering of CARNES powered ventilators, are included in CARNES user friendly fan selection program.

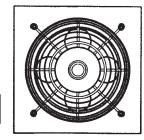
PERFORMANCE DATA | Models LYDK and LZDK CARNES®

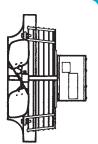
CFM SONES

BHP

LYDK - EXHAUST **LZDK - SUPPLY**

DIRECT DRIVE PANEL FAN





PERFORMANCE DATA WITH SPEED CONTROL

| FAN | MOTOR | FAN | TIP SPEED | | | STATIO | C PRESSURE (| Inches, W.G.) | | |
|------|-------|-------|------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| SIZE | HP | RPM | (Ft./Min.) | 0.000 | 0.125 | 0.250 | 0.375 | 0.500 | 0.625 | 0.750 |
| | | 700 | 3665 | 2122 0.04 | 1118 0.05 | | | | | |
| | | | | 3.9 | 5.8 | | | | | |
| | | 800 | 4189 | 2425 0.06 | 1784 0.08 | 525 0.10 | | | | |
| | | | | 5.1 | 6.6 | 8.8 | | | | |
| | | 900 | 4712 | 2728 0.08 | 2266 0.11 | 1069 0.13 | | | | |
| 19L3 | 1/4 | | | 6.3 | 7.5 | 9.9 | | | | |
| | | 1000 | 5236 | 3032 0.11 | 2629 0.14 | 1628 0.20 | 756 0.16 | | | |
| | | | | 7.6 | 8.4 | 10.6 | 12.8 | | | |
| | | 1075* | 5629 | 3259 0.14 | 2894 0.17 | 1984 0.18 | 1165 0.23 | 418 0.27 | | |
| | | | | 8.5 | 9.2 | 11.3 | 13.8 | 14.4 | | |
| | | 1050 | 5498 | 3183 0.13 | 2806 0.16 | 1855 0.17 | 1030 0.22 | | | |
| | | | | 8.2 | 8.9 | 11.1 | 13.7 | | | |
| | | 1200 | 6283 | 3638 0.19 | 3319 0.23 | 2934 0.26 | 1878 0.28 | 1121 0.33 | | |
| 20R2 | 3/4 | | | 10.2 | 10.6 | 12.5 | 14.7 | 17.3 | | |
| | | 1350 | 7069 | 4093 0.28 | 3809 0.31 | 3487 0.35 | 2823 0.36 | 1979 0.41 | 1299 0.46 | 707 0.52 |
| | | | | 12.4 | 12.7 | 14.1 | 16.1 | 18.4 | 21 | 21 |
| | | 1500 | 7854 | 4547 0.38 | 4292 0.42 | 4022 0.46 | 3707 0.50 | 2690 0.49 | 2154 0.56 | 1538 0.62 |
| | | | | 14.6 | 15.0 | 16.1 | 17.8 | 19.7 | 22 | 24 |
| | | 1700* | 8901 | 5154 0.55 | 4928 0.60 | 4704 0.64 | 4438 0.69 | 4161 0.73 | 3140 0.70 | 2670 0.78 |
| | | | | 18.1 | 18.4 | 19.0 | 20 | 22 | 24 | 26 |
| | | 700 | 3665 | 2598 0.11 | 1778 0.12 | | | | | |
| | | | | 6.2 | 7.6 | | | | | |
| | | 800 | 4189 | 2969 0.16 | 2366 0.18 | 1410 0.19 | | | | |
| | | | | 7.7 | 8.5 | 11.9 | | | | |
| | | 900 | 4712 | 3340 0.23 | 2834 0.25 | 1885 0.25 | | | | |
| 21P3 | 1/2 | | | 9.4 | 9.7 | 12.7 | | | | |
| | | 1000 | 5236 | 3712 0.32 | 3279 0.34 | 2638 0.36 | 1871 0.37 | | | |
| | | | | 11.3 | 11.5 | 13.9 | 17.3 | | | |
| | | 1075* | 5629 | 3990 0.40 | 3605 0.42 | 3047 0.44 | 2196 0.44 | 1584 0.48 | | |
| | | | | 12.9 | 13.0 | 14.9 | 18.0 | 22 | | |

NOTES: 1. Performance certified is for installation type A - Free inlet, Free outlet.

2. Performance ratings include the effects of the motorside guard in the airstream.

3. *Indicates motor RPM without speed control.

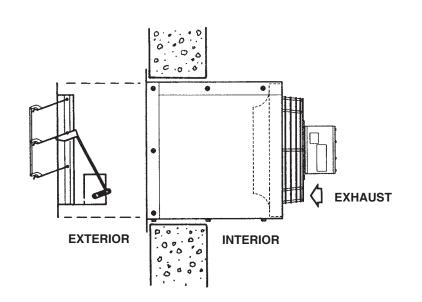
4. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels.

COMPUTERIZED FAN SELECTION: Make the right choice with CARNES **FAN-C-LECT**[™]. The Models LYDK and LZDK, as well as the comprehensive offering of CARNES powered ventilators, are included in CARNES user friendly fan selection program.

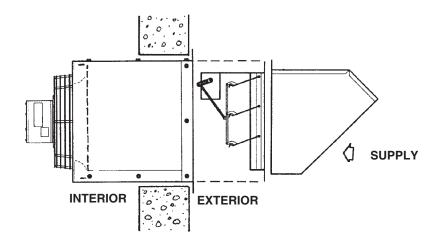
TYPICAL INSTALLATION | Models LYDK and LZDK CARNES

TYPICAL INSTALLATION

Models LYDK and LZDK



Model LYDK - Exhaust fan is shown mounted in an exterior wall opening. The fan panel is fastened from the motorside, to an optional wall mounting collar. The optional shutter (gravity or motorized) is fastened to the wall mounting collar and is recessed into the wall opening, flush with the exterior wall surface. An optional weather hood can be added for additional weather protection.



Model LZDK - Supply fan is shown mounted in an exterior wall opening. The fan panel is fastened from the motor side, to an optional wall mounting collar. The optional shutter (gravity or motorized) is fastened to the wall mounting collar and is recessed into the wall opening, flush with the exterior wall surface. An optional weather hood is recommended for all supply applications.

NOTES FOR ACCESSORIES - Models LYDK/LZDK

- A. UL-705 listing for electrical safety and reliability and CUL-710 listing mark for Canada.
- **B.** Speed controls ship loose for field installation and wiring. Includes control, J-box and cover plate.
- **C. Disconnect switches** ship loose for field installation and wiring. Includes 2-pole switch, J-box and cover plate.
- **D. Shutters** and motor kits ship separate for field installation. Flanged frame styles recess the damper body into the wall opening. Motor kits are 115/230 VAC standard. Other voltages (24V, 460V and 575V) are available at an additional cost.
- E. Transformer ships loose for field installation and wiring. Primary 460V, secondary 115V, size 120 VA. For use with the standard damper motor kits.
- F. Propeller side guard OSHA style guard attaches to the panel opposite the standard motorside guard. Recommended when the propeller side of the fan is exposed. Construction and finish are the same as the motorside guard.
- **G. Mounting collar** ships knocked down (with fasteners) for field assembly. Standard finish is gray enamel. (Birdscreen/guard is recommended when no damper or weather hood is used.) Allows installation flush with the exterior wall and convenient attachment of accessories.
- **H. Wall box** ships knocked down (with fasteners) for field assembly. Allows installation (of fan and accessories) extending into or outside of the building, and convenient attachment of accessories.
- Weather hood ships knocked down (with fasteners) for field assembly. Attaches to the mounting collar or wall box. Provides weather protection and is recommended for supply applications. Inlet birdscreen (1/2" x .041 galvanized wire mesh) is standard.

- J. Mounting angles are cut to length but require field drilling for installation. Provides a convenient method of attaching wall box to wall.
- **K. Birdscreen** 1/2" x .041 galvanized wire mesh may be used with mounting collar or wall box when no damper or rainhood is used. Ships loose for field installation.
- **L. Aluminum construction** ADD this price to the standard unit price or standard accessory price.
- M. Finish prices include prime coat plus one finish coat. No special finishes are applied to motor, damper or birdscreen.

ARC - Acid Resistant Coating - Gray air dry epoxy.

HERESITE - Air dry phenolic - Gray.

PAINT TO MATCH ENAMEL - Enamel finish, to match a color sample.

N. Factory assembly - Add this to the base price of each accessory (but not the fan). Accessories are factory assembled (in lieu of knocked down). Components are then attached together and shipped as a "packaged" unit. When a motorized damper is ordered, the damper and motor kit are installed and the wiring is extended through the fan panel knockout for easy field power connection. Mounting angles and all electrical accessories ship loose.

