

Upblast Power Roof Ventilators JBCMO & JBSMO



Model JBCMO & JBSMO Belt Drive Upblast Power Roof Ventilators



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APPLICATION

American Coolair upblast power roof ventilators are designed for long life, low maintenance, and all-weather performance. The proven upblast design is the most cost effective roof exhauster built today and offers the best value of all PRV types.

JBCMO General Ventilation

JBCMO PRVs provide an efficient and economical solution for general roof upblast ventilation applications. They are designed for use in commercial and industrial applications including factories, warehouses, commercial buildings, machine rooms or any areas requiring the movement of air.

With its design featuring the motor located outside the airstream, JBCMO PRVs are ideal for use in applications where it is necessary for the fan assembly to be located above the roof or where roof access to the motor is required.

With an optional Belt & Bearing Cover, JBCMO's may be used where the motor, belts, bearings and drive shaft must be isolated from the airstream.

JBSMO Heat/Smoke Removal

JBSMO upblast power roof ventilators are designed and built to meet the increasing need for power venting the combustion by-products of a fire.

These units are designed to be installed in the roof systems of shopping centers, wholesale warehouses, hotel atriums and any other place where building codes require the removal of smoke and heat by power roof ventilators.

JBSMO models provide an economical solution for most heat & smoke removal applications. They have been designed to exceed the high temperature capability requirements of UL's "Power Ventilators for Smoke Control Systems" (UL793), shown to operate at 500 °F for 4 hours minimum, 752 °F (400 °C) for 2 hours, and 1,000 °F for 20 minutes.



All Type JBCMO ventilators are listed by Underwriters Laboratory, Inc. to U.S. and Canadian safety standards.



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Licensed ratings for both air and sound performance are available for all JBCMO PRVs. These ratings, along with dimensional drawings, are included in this form.

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All-Weather Performance

American Coolair upblast power roof ventilators are designed to discharge vertically so that air velocity seals the opening against rain and snow while the unit is in operation. When the fan is switched off, counterbalanced dampers close by gravity to provide a weather-resistant closure. The fiberglass dampers close quietly and serve as a skylight when unit is not in operation. Motor covers are standard for all JBCMO and JBSMO models.

Construction

MATERIALS: The fan frame assembly is fabricated of heavy gauge steel and the dampers are constructed of durable fiberglass for years of quiet, maintenance-free operation. The wind shroud and PRV housing are made of galvanized steel; an exterior finish coat of epoxy can be specified. See individual fan types for information on blade material.

Painted parts are coated with a thermosetting epoxy to provide a protective coating rated excellent for hardness, impact resistance, adhesion and chemical resistance. For protective coating options see the Accessories section.

All blade assemblies are dynamically balanced.

Parts requiring painting are processed through the American Coolair multi-stage pretreatment system prior to the application of any coatings to ensure 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.

Drive Mechanism

Both the JBCMO and JBSMO models are belt driven, designed for quieter operation and lower initial cost. They use standardly available 1750 RPM motors. A belt and bearing cover designed to keep the motor, belts, and bearings isolated from the airstream is standard for JBSMO units, and an optional accessory for JBCMO units. Note: All JBSMO units feature dual belts.

All standard belt drive models are equipped with a variable pitch motor pulley which allows fan speed adjustment where desirable. Caution should be exercised in making a speed adjustment. If pulley is opened to reduce propeller speed, air velocity may be reduced below minimum essential for all-weather usage. A speed increase may overload the motor. Contact your American Coolair representative for information on fan performance and motor load before making any adjustment.

Motors

The motors for all JBCMO and JBSMO models is located out of the airstream. Totally enclosed motors are standard. Several alternatives, such as explosion-proof motors, energy efficient motors and severe duty motors, are available to fit your specific needs.

Only nationally recognized brand motors with nationwide service facilities are used.

Installation, Selection and Maintenance

INSTALLATION: Coolair Upblast PRVs are shipped either fully assembled or in two packages for quick assembly and installation on the roof curb. Mounting, installation and maintenance instructions are included. The base section containing curb cap, housing, fan and motor should be securely attached to the roof curb. The wind shroud/damper assembly is then easily attached to the base. Although motor and fan bearings are suitable for all-angle usage, satisfactory operation of dampers requires unit to be mounted to a level horizontal curb.

Before connecting motor to power source, check motor nameplate to be sure of correct phase and voltage. Make sure propeller turns freely without striking fan frame or any foreign object which may interfere with its operation. Note direction arrow on orifice to make sure propeller rotation is correct when power is connected.

SOUND: When sound is a critical problem, ventilator selection should be made from accurate sound data. The only completely accurate sound ratings are octave band sound power levels. Your American Coolair representative can furnish these for each PRV model on request. With this data, the acoustical engineer can accurately predict on-the-job sound levels.

Published sound ratings are in Sones. Your American Coolair representative can also provide sound ratings in dBA. Both Sones and dBA are sound ratings which have been calculated from the octave band sound power ratings. They may be used as a guide in fan selection where sound is NOT a critical factor. Both Sones and dBA ratings reflect inlet sound levels.

MAINTENANCE: American Coolair's power roof ventilators are factory lubricated for extended service. JBCMO and JBSMO units use pillow-block ball bearings and should be lubricated annually or more frequently, depending upon conditions and operating cycle. External re-lubrication fan bearing fittings are standard on all JBCMO and JBSMO fans. Refer to maintenance instructions shipped with fan. Re-check belt tension as part of maintenance routine to ensure maximum efficiency and belt life.

Additional Information Available

American Coolair can provide installation instructions and maintenance information at your request, as well as information on any air movement need you may have. This information may also be found at www.AmericanCoolair.com. For performance requirements not listed or alternate requirements, contact your American Coolair representative.

American Coolair has over 90 years of experience in air moving systems and offers you the very best equipment and knowledgeable personnel.

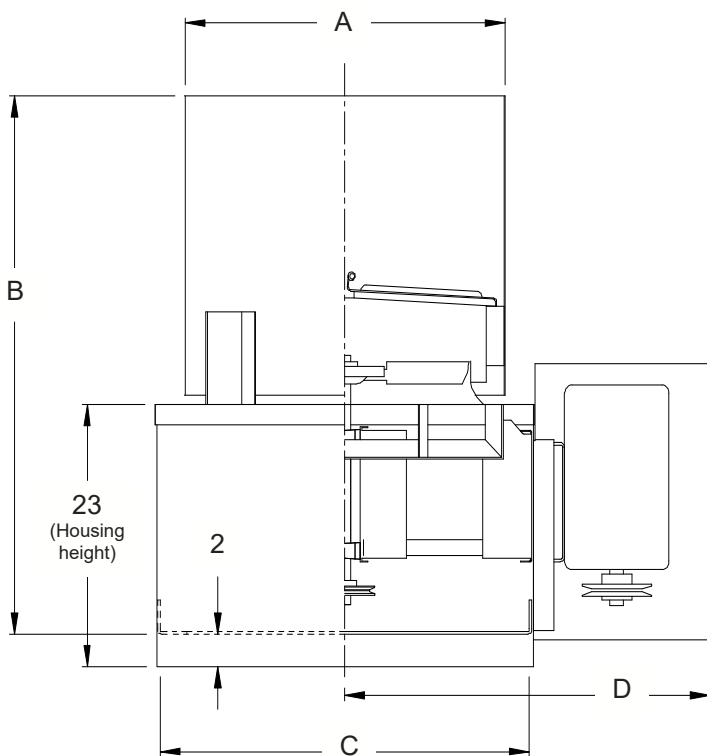
JBCMO Features and Dimensions

- Belt drive — 5,800 to 64,400 CFM; static pressure up to 5/8"



- Adjustable cast aluminum airfoil blade assembly

- Designed for general ventilation
- All-weather performance
- Efficient and reliable
- Welded steel fan frame with protective epoxy coating
- Galvanized housing, curb cap, and wind shroud
- Motor located out of the airstream allows for easy access from roof.
- Fiberglass damper doors
- Motor cover
- Heavy duty pillow block bearings with external re-lubrication fittings
- Variable pitch pulleys



| Fan Size | Dimensions in Inches | | | |
|----------|----------------------|--------|--------|--------|
| | A | B | C | D |
| 24 | 32 | 49 7/8 | 37 1/2 | 36 3/4 |
| 30 | 38 | 54 3/4 | 43 1/2 | 39 3/4 |
| 36 | 44 | 54 3/4 | 49 1/2 | 42 3/4 |
| 42 | 50 | 59 3/4 | 55 1/2 | 45 3/4 |
| 48 | 56 | 61 1/4 | 61 1/2 | 48 3/4 |
| 54 | 62 | 63 7/8 | 67 1/2 | 51 3/4 |
| 60 | 68 | 67 3/4 | 76 1/2 | 56 1/4 |

Dimension A is the diameter of the circular wind shroud.

Dimension B is the overall height above the curb.

Dimension C is the square I.D. of the curb cap.

Dimension D is the distance to outside edge of motor cover.

Performance Ratings Typical Specifications



American Coolair Corporation certifies that the Type JBCMO 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.

Upblast power roof ventilators shall be American Coolair Type JBCMO as manufactured by American Coolair Corporation, Jacksonville, Florida; specific models shall be as shown in the fan schedule. Structural angle supports shall be of welded steel construction, wind shroud, housing and curb cap shall be of galvanized steel. Dampers shall be of fiberglass for durability and quiet, maintenance-free operation. Fan blades shall be of high strength cast aluminum airfoil design securely attached to a heavy cast aluminum hub. Blade pitch shall be adjustable. Ball bearings shall be of the heavy duty pillow block type. Motor pulleys shall be variable pitch. PRVs shall be licensed to bear the AMCA Certified Ratings Seal for air performance and sound. (Specify for each PRV model in schedule the required CFM and static pressure; motor enclosure, phase and voltage; and accessories such as safety disconnect switch, magnetic latches, prefabricated curb and special protective coating, etc.)

| Item No. | Cubic Feet Per Minute (CFM) at Static Pressure ¹ | | | | | | Fan Model | Fan Size | Motor HP | Fan RPM | Sones ² @ 0" | Max BHP ³ |
|----------|---|--------|--------|--------|--------|--------|-----------|----------|----------|---------|-------------------------|----------------------|
| | 0" | 1/8" | 1/4" | 3/8" | 1/2" | 5/8" | | | | | | |
| 1 | 8,268 | 7,179 | 5,918 | --- | --- | --- | JBCMO24K | | 3/4 | 1130 | 21 | 0.75 |
| 2 | 9,080 | 8,103 | 6,986 | 5,809 | --- | --- | JBCMO24L | | 1 | 1241 | 24 | 1.00 |
| 3 | 10,397 | 9,557 | 8,626 | 7,610 | 6,581 | --- | JBCMO24M | 24 | 1 1/2 | 1421 | 29 | 1.50 |
| 4 | 11,385 | 10,624 | 9,796 | 8,895 | 7,955 | 7,007 | JBCMO24N | | 2 | 1556 | 34 | 2.00 |
| 5 | 13,105 | 12,450 | 11,754 | 11,009 | 10,217 | 9,400 | JBCMO24P | | 3 | 1791 | 43 | 3.00 |
| 6 | 15,570 | 15,024 | 14,455 | 13,858 | 13,232 | 12,577 | JBCMO24Q | | 5 | 2128 | 59 | 5.00 |
| 7 | 11,079 | 9,198 | --- | --- | --- | --- | JBCMO30K | | 3/4 | 897 | 19.0 | 0.75 |
| 8 | 12,166 | 10,477 | 8,556 | --- | --- | --- | JBCMO30L | | 1 | 985 | 22 | 1.00 |
| 9 | 13,944 | 12,494 | 10,890 | 9,150 | --- | --- | JBCMO30M | 30 | 1 1/2 | 1129 | 27 | 1.51 |
| 10 | 15,315 | 14,006 | 12,584 | 11,041 | 9,438 | 7,699 | JBCMO30N | | 2 | 1240 | 31 | 2.00 |
| 11 | 17,538 | 16,406 | 15,202 | 13,915 | 12,553 | 11,151 | JBCMO30P | | 3 | 1420 | 40 | 3.00 |
| 12 | 20,799 | 19,852 | 18,865 | 17,831 | 16,747 | 15,614 | JBCMO30Q | | 5 | 1684 | 52 | 5.00 |
| 13 | 15,706 | 12,872 | 9,364 | --- | --- | --- | JBCMO36L | | 1 | 760 | 21 | 1.00 |
| 14 | 17,958 | 15,550 | 12,667 | 9,323 | --- | --- | JBCMO36M | 36 | 1 1/2 | 869 | 27 | 1.50 |
| 15 | 19,777 | 17,622 | 15,120 | 12,314 | --- | --- | JBCMO36N | | 2 | 957 | 31 | 2.01 |
| 16 | 22,629 | 20,775 | 18,713 | 16,387 | 13,899 | --- | JBCMO36P | | 3 | 1095 | 40 | 3.01 |
| 17 | 26,803 | 25,260 | 23,604 | 21,803 | 19,835 | 17,781 | JBCMO36Q | | 5 | 1297 | 54 | 5.00 |
| 18 | 30,668 | 29,330 | 27,920 | 26,426 | 24,826 | 23,112 | JBCMO36R | 7 1/2 | 1484 | 71 | 7.49 | |
| 19 | 20,737 | 17,431 | --- | --- | --- | --- | JBCMO42M | 42 | 1 1/2 | 769 | 26 | 1.50 |
| 20 | 22,787 | 19,806 | 16,507 | --- | --- | --- | JBCMO42N | | 2 | 845 | 30 | 1.98 |
| 21 | 26,077 | 23,497 | 20,730 | 17,728 | 14,221 | --- | JBCMO42P | | 3 | 967 | 37 | 3.00 |
| 22 | 30,904 | 28,745 | 26,491 | 24,097 | 21,563 | 18,844 | JBCMO42Q | | 5 | 1146 | 50 | 4.99 |
| 23 | 35,434 | 33,560 | 31,628 | 29,620 | 27,509 | 25,304 | JBCMO42R | 7 1/2 | 1314 | 64 | 7.50 | |
| 24 | 39,048 | 37,352 | 35,613 | 33,825 | 31,970 | 30,033 | JBCMO42S | | 10 | 1448 | 76 | 9.99 |
| 25 | 26,520 | 22,947 | 18,974 | --- | --- | --- | JBCMO48N | 48 | 2 | 634 | 24 | 2.00 |
| 26 | 30,326 | 27,267 | 23,862 | 20,271 | --- | --- | JBCMO48P | | 3 | 725 | 30 | 3.00 |
| 27 | 35,973 | 33,447 | 30,668 | 27,763 | 24,748 | 21,431 | JBCMO48Q | | 5 | 860 | 39 | 5.00 |
| 28 | 41,160 | 38,977 | 36,624 | 34,125 | 31,580 | 28,960 | JBCMO48R | | 7 1/2 | 984 | 49 | 7.49 |
| 29 | 45,343 | 43,374 | 41,281 | 39,060 | 36,765 | 34,450 | JBCMO48S | 10 | 1084 | 59 | 10.00 | |
| 30 | 37,092 | 33,071 | 28,042 | 22,264 | --- | --- | JBCMO54P | 54 | 3 | 619 | 33 | 3.00 |
| 31 | 43,983 | 40,699 | 36,850 | 32,376 | 27,532 | 22,026 | JBCMO54Q | | 5 | 734 | 45 | 5.00 |
| 32 | 50,335 | 47,515 | 44,348 | 40,749 | 36,760 | 32,559 | JBCMO54R | | 7 1/2 | 840 | 58 | 7.50 |
| 33 | 55,368 | 52,829 | 50,044 | 46,947 | 43,519 | 39,837 | JBCMO54S | | 10 | 924 | 69 | 9.99 |
| 34 | 43,102 | 37,100 | 29,758 | --- | --- | --- | JBCMO60P | 60 | 3 | 534 | 26 | 2.99 |
| 35 | 51,092 | 46,205 | 40,398 | 34,059 | 26,127 | --- | JBCMO60Q | | 5 | 633 | 35 | 4.99 |
| 36 | 58,518 | 54,334 | 49,581 | 44,188 | 38,641 | 32,103 | JBCMO60R | | 7 1/2 | 725 | 44 | 7.49 |
| 37 | 64,410 | 60,648 | 56,482 | 51,814 | 46,802 | 41,726 | JBCMO60S | | 10 | 798 | 52 | 9.99 |

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

2 — The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. The sound ratings shown are at 0" static pressure.

3 — Maximum brake horsepower (BHP) within the catalog performance range. Power rating (BHP) does not include transmission losses. Bearing losses are included. BHP at most static pressures listed is less than that shown, in some cases substantially less. For specific BHP values at individual static pressure points contact your American Coolair representative

4 — 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).

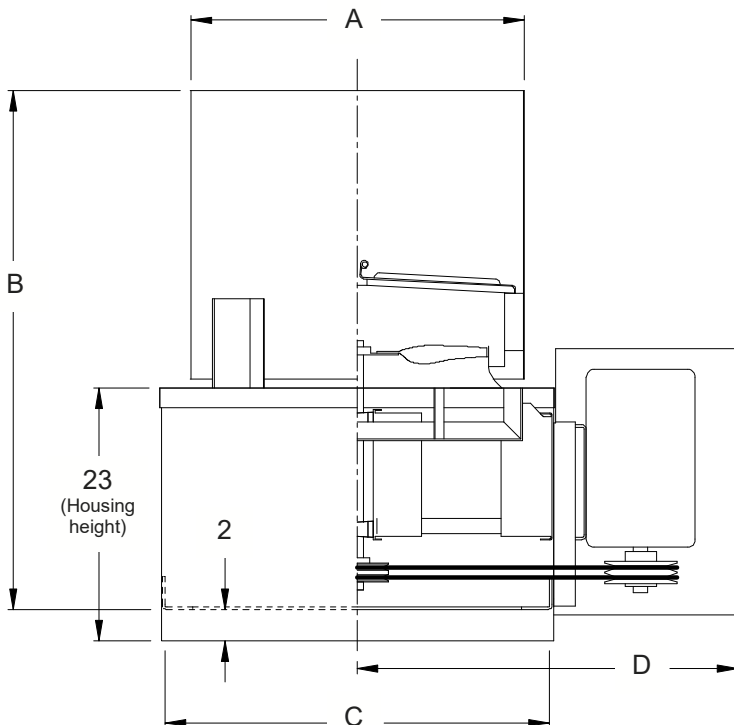
JBSMO Features and Dimensions

- Belt drive — 5,300 to 49,500 CFM; static pressure up to 5/8"



- Durable and efficient formed steel blade assembly

- Designed for heat and smoke ventilation
- Emergency operation up to 1000 °F
- All critical components exposed to the air stream are ferrous construction (except damper doors)
- All-weather performance
- Motor, belts, and bearings isolated from the airstream
- Automatic heat/smoke damper device
- Heavy duty pillow block bearings with external re-lubrication fittings
- Motor cover
- Dual belt drive
- Variable pitch pulleys



| Fan Size | Dimensions in Inches | | | |
|----------|----------------------|--------|--------|--------|
| | A | B | C | D |
| 24 | 32 | 49 7/8 | 37 1/2 | 36 3/4 |
| 30 | 38 | 54 3/4 | 43 1/2 | 39 3/4 |
| 36 | 44 | 54 3/4 | 49 1/2 | 42 3/4 |
| 42 | 50 | 59 3/4 | 55 1/2 | 45 3/4 |
| 48 | 56 | 61 1/4 | 61 1/2 | 48 3/4 |
| 54 | 62 | 63 7/8 | 67 1/2 | 51 3/4 |
| 60 | 68 | 67 3/4 | 76 1/2 | 56 1/4 |

Dimension A is the diameter of the circular wind shroud.

Dimension B is the overall height above the curb.

Dimension C is the square I.D. of the curb cap.

Dimension D is the distance to outside edge of motor cover.

Performance Ratings

Typical Specifications



American Coolair Corporation certifies that the Type JBSMO 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.

Heat and smoke removal power roof ventilators shall be American Coolair Type JBSMO as manufactured by American Coolair Corporation, Jacksonville, Florida; specific models shall be as shown in the fan schedule. PRVs shall be designed and tested to operate at 500 °F for 4 hours, 752 °F (400 °C) for 2 hours, and 1,000 °F for 20 minutes. PRV shall be UL Listed as a "Power Ventilator for Smoke Control Systems." Motor shall be out of the airstream, with the belts and bearings enclosed in tubes to protect them from the high temperature airstream. Positive ventilation of the motor compartment and the belt and bearing tubes shall be provided. Optional features such as external lubrication lines, safety disconnect switch, roof curbs, etc. shall be as listed in the fan schedule or specification.

| Item No. | Cubic Feet Per Minute (CFM) at Static Pressure ¹ | | | | | | Fan Model | Fan Size | Motor HP | Fan RPM | Sones ² @ 0" | Max BHP ³ |
|----------|---|--------|--------|--------|--------|--------|-----------|----------|----------|---------|-------------------------|----------------------|
| | 0" | 1/8" | 1/4" | 3/8" | 1/2" | 5/8" | | | | | | |
| 1 | 6,123 | 5,689 | 5,265 | --- | --- | --- | JBSMO24K | | 3/4 | 1103 | 28 | 0.75 |
| 2 | 6,650 | 6,249 | 5,860 | 5,457 | --- | --- | JBSMO24L | | 1 | 1198 | 31 | 1.00 |
| 3 | 7,600 | 7,247 | 6,904 | 6,563 | 6,205 | --- | JBSMO24M | 24 | 1 1/2 | 1369 | 35 | 1.50 |
| 4 | 8,349 | 8,027 | 7,713 | 7,404 | 7,090 | 6,758 | JBSMO24N | | 2 | 1504 | 38 | 2.00 |
| 5 | 9,726 | 9,449 | 9,176 | 8,908 | 8,643 | 8,376 | JBSMO24P | | 3 | 1752 | 49 | 3.00 |
| 6 | 11,724 | 11,494 | 11,266 | 11,041 | 10,818 | 10,598 | JBSMO24Q | | 5 | 2112 | 69 | 5.00 |
| 7 | 9,707 | 8,986 | 8,173 | --- | --- | --- | JBSMO30L | | 1 | 927 | 29 | 1.00 |
| 8 | 11,016 | 10,390 | 9,697 | 8,963 | --- | --- | JBSMO30M | | 1 1/2 | 1052 | 34 | 1.50 |
| 9 | 12,032 | 11,463 | 10,844 | 10,179 | 9,505 | --- | JBSMO30N | 30 | 2 | 1149 | 37 | 2.00 |
| 10 | 13,823 | 13,333 | 12,811 | 12,254 | 11,671 | 11,084 | JBSMO30P | | 3 | 1320 | 44 | 3.00 |
| 11 | 16,765 | 16,365 | 15,948 | 15,512 | 15,056 | 14,582 | JBSMO30Q | | 5 | 1601 | 57 | 5.00 |
| 12 | 13,767 | 12,646 | 11,482 | --- | --- | --- | JBSMO36M | | 1 1/2 | 736 | 26 | 1.50 |
| 13 | 14,983 | 13,955 | 12,898 | 11,781 | --- | --- | JBSMO36N | 36 | 2 | 801 | 31 | 2.00 |
| 14 | 17,134 | 16,238 | 15,324 | 14,384 | 13,393 | --- | JBSMO36P | | 3 | 916 | 42 | 3.00 |
| 15 | 20,445 | 19,697 | 18,937 | 18,167 | 17,381 | 16,569 | JBSMO36Q | | 5 | 1093 | 58 | 5.00 |
| 16 | 18,891 | 17,361 | 15,796 | --- | --- | --- | JBSMO42N | | 2 | 693 | 30 | 2.00 |
| 17 | 21,208 | 19,848 | 18,468 | 17,039 | 15,456 | --- | JBSMO42P | 42 | 3 | 778 | 37 | 3.00 |
| 18 | 25,269 | 24,130 | 22,981 | 21,817 | 20,620 | 19,359 | JBSMO42Q | | 5 | 927 | 52 | 5.00 |
| 19 | 29,303 | 28,322 | 27,334 | 26,340 | 25,335 | 24,309 | JBSMO42R | | 7 1/2 | 1075 | 69 | 7.49 |
| 20 | 23,748 | 22,226 | 20,616 | 18,785 | --- | --- | JBSMO48P | | 3 | 617 | 32 | 2.99 |
| 21 | 28,020 | 26,739 | 25,410 | 24,015 | 22,466 | 20,600 | JBSMO48Q | 48 | 5 | 728 | 43 | 5.00 |
| 22 | 32,408 | 31,305 | 30,173 | 29,007 | 27,792 | 26,481 | JBSMO48R | | 7 1/2 | 842 | 56 | 7.49 |
| 23 | 36,026 | 35,037 | 34,026 | 32,992 | 31,932 | 30,830 | JBSMO48S | | 10 | 936 | 70 | 9.99 |
| 24 | 28,779 | 26,876 | 24,577 | --- | --- | --- | JBSMO54P | | 3 | 568 | 36 | 3.00 |
| 25 | 33,440 | 31,841 | 30,000 | 27,924 | 25,795 | --- | JBSMO54Q | 54 | 5 | 660 | 47 | 4.99 |
| 26 | 38,405 | 37,035 | 35,519 | 33,818 | 31,991 | 30,149 | JBSMO54R | | 7 1/2 | 758 | 60 | 7.50 |
| 27 | 42,712 | 41,490 | 40,170 | 38,722 | 37,142 | 35,491 | JBSMO54S | | 10 | 843 | 74 | 9.99 |
| 28 | 33,296 | 30,388 | 27,179 | --- | --- | --- | JBSMO60P | | 3 | 514 | 32 | 2.99 |
| 29 | 38,931 | 36,469 | 33,862 | 30,968 | 27,593 | --- | JBSMO60Q | 60 | 5 | 601 | 42 | 4.99 |
| 30 | 44,632 | 42,497 | 40,275 | 37,928 | 35,347 | 32,436 | JBSMO60R | | 7 1/2 | 689 | 53 | 7.49 |
| 31 | 49,490 | 47,572 | 45,592 | 43,537 | 41,363 | 38,991 | JBSMO60S | | 10 | 764 | 64 | 9.99 |

1 — Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
 2 — The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. The sound ratings shown are at 0" static pressure.
 3 — Maximum brake horsepower (BHP) within the catalog performance range. Power rating (BHP) does not include transmission losses. Bearing losses are included. BHP at most static pressures listed is less than that shown, in some cases substantially less. For specific BHP values at individual static pressure points contact your American Coolair representative
 4 — 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).

ACCESSORIES

SAFETY DISCONNECT SWITCH: Prevents accidental starting of PRV and is protected in a NEMA 3R enclosure. Pre-wiring of switch to motor may also be specified.

PRE-FABRICATED ROOF CURB: Surface mount, 8-inch standard height curbs. Curbs are welded galvanized steel, insulated, with wood nailer. Construction to accommodate single or double pitch roof slope is also available.

MAGNETIC LATCHES: The addition of magnetic latches can minimize “damper flap” and accidental venting when unit is not in use.

GALVANIZED DAMPER DOORS: Damper doors made of heavy gauge galvanized steel are available in place of the standard fiberglass doors.

AUTOMATIC HEAT AND SMOKE VENTING (JBCMO): Spring operated arms open dampers when activated by excessive heat melting 165°F., U.L.-Listed fusible link. PRV thus becomes a gravity heat and smoke vent. (Standard on JBSMO units.)

BELT & BEARING COVER (JBCMO): The cover isolates the belts and bearings from the airstream (Standard on JBSMO units.)

PROTECTIVE COATINGS: The fan assembly and curb cap are heavy gauge steel using all welded construction throughout. The standard finish is epoxy, however, additional corrosion protection is available by specifying hot dip galvanizing.

The wind shroud on all units is fabricated of galvanized steel. A finish coat of epoxy can be specified on all galvanized components, if desirable.

For applications that require more specialized surface protection, American Coolair offers alternatives: 6 mil epoxy or hot dip galvanizing, and others. For more information about special protective coatings, contact your American Coolair representative.

OUTLET GUARDS: Outlet guards are constructed of 1” x 1”, galvanized wire mesh. The outlet guard mounts on the top edge of wind shroud. These guards prevent entry of foreign objects that might damage units.

REPRESENTED BY:

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 modifications, 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.

WARNING



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.

CAUTION



AMERICAN COOLAIR CORPORATION

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Phone: (904) 389-3646

Fax: (904) 387-3449 or (904) 381-7560

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Web: AmericanCoolair.com