



## **RexMotorCover™ extends the life of your electric motors with industrial motor covers**

1. The perfect solution to decrease production costs with electric motor covers.

2. Cool and shield electric motors significantly reducing electric motor rewinds and replacements.

3. Virtual cooling tunnel.  
RexMotorCover™ creates a "virtual cooling tunnel" which lowers motor operating temperature. A ten degree Celsius reduction in motor operating temperature extends motor winding life by half.

4. These innovative covers are responsible for saving individual companies hundreds of thousands of dollars each year on motor maintenance and downtime costs.

5. RexMotorCovers™ are standardized for any NEMA and IEC frame size.

6. Durability and lightness makes for fast and easy installation. Removal for motor maintenance is very simple.

7. RexMotorCovers™ perfectly shield electric motors from hot, wet, corrosive, dirty, and other weathering conditions that immediately or eventually damage and burnout motors.

8. RexMotorCovers™ have excellent resistance to chemicals and they are non-conductive as they are made out of special fiberglass reinforced plastic

9. There are almost 400 mills using over 250,000 our motor covers for the same reason.

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### Features & Benefits of Installed RexMotorCover™

#### **Rex Motor Cover cools electric motors extending their life.**

RexMotorCover™ offers a perfect solution for protecting motors and helping them get the most out of motor life. Creating a virtual cooling tunnel while also limiting debris, water, and chemicals from entering in, on, and around the motor promotes ventilation. Even clean new motors in an ideal industrial environment will experience heat reductions. Listed below are three motor cover features, each with a short description on how they will benefit motor life.

RexMotorCover™ creates a "virtual cooling tunnel" effect, which forces air currents onto the cooling fins. Because of the close proximity between the motor and the cover, all air created by the fan, flows the full length of the motor and cooling fins. One of the worlds leading producers of electric motors recently concluded "only about 20 percent of the airflow created by fans of conventional motors stays in the channels between the fins." It is quite apparent that with nearly 100 percent of the air flowing across the motor, heat is dissipated with better efficiency and the motor experiences a lower operating temperature. This creates a longer bearing and winding life. According to the electric motor industry's general rule of thumb "Every 10°C reduction in temperature doubles life expectancy." In research of another leading motor manufacturer on RexMotorCovers®, they determined the covers to lower totally enclosed fan cooled motor temperatures by about 20°F and in dirty environments 40°F.

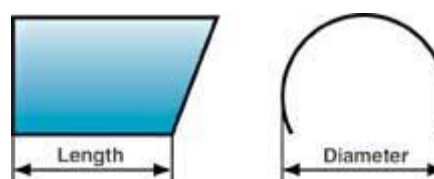
RexMotorCovers™ are perfectly shaped to deter debris from entering in, on, or around electric motors. The motor cover is cylindrical in shape to wrap around the motor. Because of its cylindrical shape, debris normally slides off the cover preventing debris build-up and often times an insulation effect. The horizontal cover also extends past the fan end of the motor to help prevent debris from entering the motor at an angle. RexMotorCovers™ will in turn prohibit debris from covering crucial ventilation components possibly even insulating the motor.

RexMotorCovers™ greatly reduce water and chemical exposure as well. This reduction is vital to a motor's life when insulation degradation is considered. Without proper insulation capabilities, heat rises and the life of the motor is shortened. Another large concern with water and chemical exposure is bearing contamination. Many times, chemicals break down motor bearing lubrication and although it may not be apparent, it is estimated that about 20% of bearing failures are due to bearing contamination. RexMotorCovers™ have a high chemical resistance to most harsh chemicals and are perfectly shaped to limit this chemical exposure.





**Most common sizes**



Motor Covers				Optional Conduit Box Covers
Frame Size	Catalog No.	Max Motor Length *	Nominal Diameter (the cover is very flexible)	Conduit Box Covers are matching with the motor covers and give extra protection but are not always needed
56, 143-145	20-075	15"	7.5"	CB075
182-184	20-100	20"	10"	CB100
213-215	20-120	20"	12"	CB120
254-256	27-135	27"	13.5"	CB135
284-286	29-150	29"	15"	CB150
324-326	31-175	31"	17.5"	CB175
364-365	33-195	33"	19.5"	CB195
404-405	43-220	43"	22"	CB220
444-445	48-250	48"	25"	CB250
447	51-250	51"	25"	CB250
449	57-250	57"	25"	CB250
5009	62-290	62"	29"	CB290
5011-12	72-290	72"	29"	CB290
5810	80-325	80"	32.5"	CB325

**\* ALL ABOVE COVERS CAN BE MADE TO ANY LENGTH NEEDED, SHORTER OR LONGER**

**Dimensions of most large motors vary with the manufacturer. We recommend measuring the approximate motor length and diameter to have a perfect match with the cover.**

**The above sizes are the most common used with motors. We make commonly much bigger sizes as well in diameter and length. Just specify your desired dimensions.**





### Electric motor installation guide

Step 1: Before servicing motors and motor operated equipment, disconnect power supply from motors and accessories. Use safe working practices during servicing of equipment.

Step 2: Remove and clean all debris from the motor, especially the cooling fins if applicable.

Step 3: If applicable, remove the eyebolt.

Step 4: Measure out conduit box and the eyebolt from the motor to the motor cover (See dotted lines). Make sure there is plenty of room for the conduit box cover to mount onto the motor cover. (Note for TEFC motors: Make sure angled portion of the motor cover is overhanging the fan and grill of the motor.)

Step 5: If applicable, drill a hole for the eyebolt to the top of the cover.

Step 6: Cut opening for the conduit box.

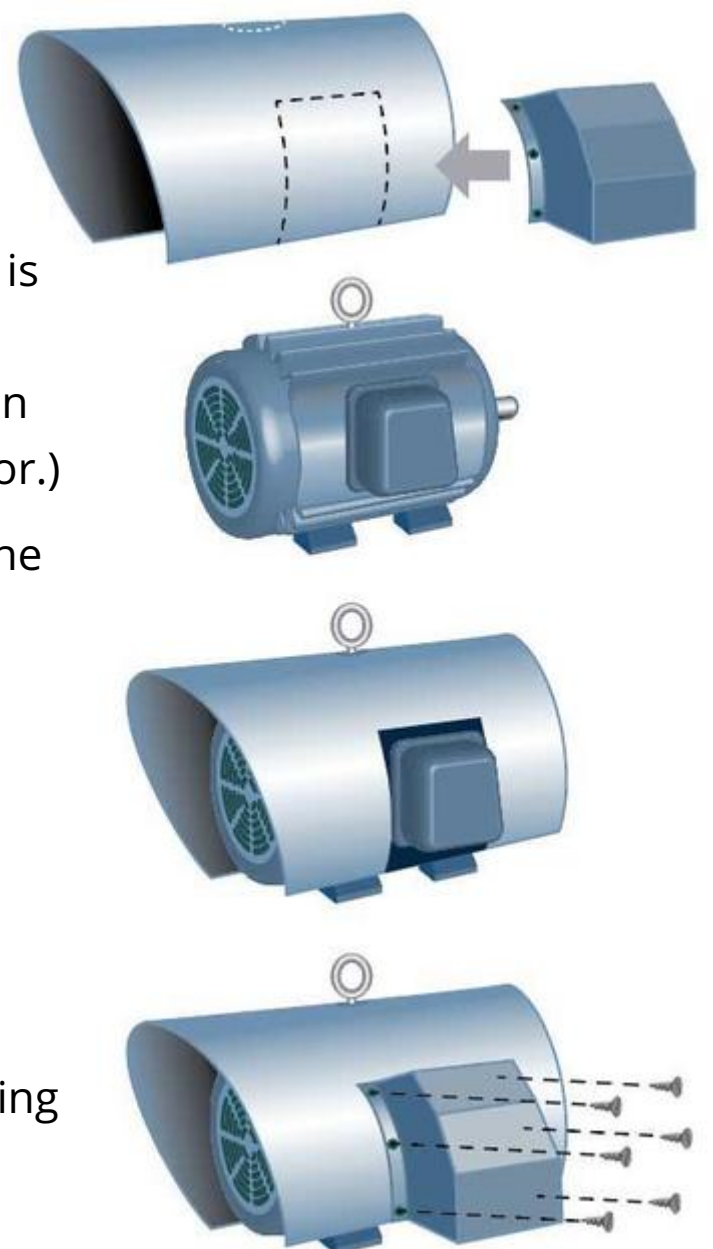
Step 7: Glide the motor cover onto the motor.

Step 8: If applicable, screw eyebolt into place. (Note: Often times, a washer can be used between the motor cover and eyebolt for best security).

Step 9: Attach the conduit box cover onto the motor cover using sheet-metal screws.

**CAUTION:** Precautionary methods (such as safety goggles, breathing masks, gloves, etc.) are to be used when working with fiberglass reinforced plastics.

Install motor related equipment in accordance with the National Electrical Code (NEC); local electrical safety codes and practices; and, when applicable, the Occupational Safety and Health Act (OSHA).







**For more information contact us here:**

Send us a message, request a quote by filling in related options or upload your spec sheet and we'll get back to you in a timely manner. If you want us to call please leave your phone number

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