

R  
C  
O  
Y  
  
R  
C  
O  
Y  
  
E  
Z  
O  
  
S  
H  
O  
P  
  
P  
O  
S  
T  
  
S  
E  
R  
V  
I  
C  
E  
  
M  
E  
M  
B  
E  
R

# B&B BENCHMARK

B&B ELECTRIC MOTOR CO. WICHITA, KS

## HAPPY HOLIDAYS



### WHAT'S NEW AT B&B

We are very pleased to announce that our Shop Foreman, Garry Norman and Accountant/technician, Edwin Perry, attended a one week seminar about the latest Techniques and procedures for repairing various types of Servo Motors. The training they received made them much more knowledgeable about troubleshooting and repairing servo motors. We now have much of the testing information on CD discs to reference the testing parameters of the servos operation. We also have purchased additional test equipment to service later design servos. When you need repairs of Servo Motors call B & B Electric Motor Co. first for your service needs.

Don Reese your inside sales contact has taken on added responsibilities. He will be overseeing the daily operations of the company as General Manager. His expertise in sales, service, and repairing of electrical apparatus makes him very well qualified as General Manager. Bob Giesen, the President/Owner will still be around to help where needed in the daily operations.



### TRAINING SEMINAR

We will be presenting an educational seminar on **January 24, 2006**, for our valued customers.

The seminar will cover the Application and Maintenance of Rotating Electrical Machinery. We will cover design and applications of single & three phase electric motors, the proper lubrication of motors, as well as other important information. This seminar has been approved by the City of Wichita for **three hours of Continuing Education** for all Journeyman/Master Plumbing certificate holders. The seminar will be held at the New Wichita Workforce Development Center, located at 150 No. Main. We will meet in the basement training center room. The seminar will be from 3-6 pm. There will be a \$10.00 charge to cover room rental, educational materials and food. Please make your reservations buy calling our office at, 316-267-1238.



## ***DIFFERENCE BETWEEN EPACKT AND PREMIUM EFFICIENCY MOTORS AND THEIR APPLICATIONS***

A recent study by our Electrical Apparatus Service Association has revealed that the life of a Premium Efficient, EPACKT and pre-EPACKT motors are very much the same. The prime failure of these different motors through numerous tests was bearing failures. The bearings failed 50% of the time, the windings failed 16%, and mechanical parts failure was 10%. The other failures were varied percentage wise. They were unable to breakdown the actual root cause failure of the bearings due to the broad range of horizontal motors sampled. The general design of the motor manufactures confirmed they were all very similar. The bearing systems and bearing sizes are very much the same. The winding insulation systems are of the same thermal rating. The mechanical design and parts are very much the same except for some variations in cooling fan designs. There appears to be no significant change in winding operation temperatures even with the higher efficiency motors. Hence, the thermal life and service factor capability are not changed enough to influence the reliability significantly.

The newer EPACKT, and Premium Efficiency motors are all manufactured with more core iron and more copper windings in the motors. The premium efficient motors have more core iron and copper than the EPACKT motors. When these motor were redesigned to be more efficient when running they created another electrical problem in the design. All of these motors require more inrush of current on initial start-up. It takes more current to energize the increased core iron and copper in the motors. In many cases when a pre-EPACKT motor is replaced with an EPACKT or premium efficient motor, it will be necessary to increase your fuse size to eliminate blown fuses during start-up. Your heater overloads may need to be down sized for the lower running current. If you have a motor making many starts during a 24 hour period you should rebuild your existing motor or replace it with a non-premium efficient motor, as you will actually consume more power rather than less. For more information, attend our upcoming seminar.

**B & B ELECTRIC MOTOR CO.  
IS THE ONE AND ONLY  
ONE STOP INDUSTRIAL  
SERVICE CENTER IN WICHTA**





*All of us here at*  
**B&B ELECTRIC  
MOTOR CO.**

*would like to wish you and yours a  
very happy, healthy holiday season.*

**B&B ELECTRIC MOTOR CO**  
**332 LULU WICHITA, KS**  
**24 HOUR EMERGENCY SERVICE**  
OFFICE 316-267-1238 CELL 316-641-0806  
316-721-4178 316-529-4692 316-529-8503  
OUTSIDE WICHITA TOLL-FREE 800-499-1238

To obtain your [color copy](#) of  
***THE BENCHMARK***  
visit our WEB SITE at  
[bbelectricmotor.com](http://bbelectricmotor.com)  
and click on Newsletters.



**CHRISTMAS 2005**

