



SERVICE BULLETIN

THE TRANE COMPANY - LA CROSSE, WISCONSIN

No. HCOM-SB-1A
DATE 3-7-77
PRODUCT RECIP. COMPRESSORS
SERV. MAN. SECT.
PAGE 1-3
B. ANTONY
DATED
SUPERSEDES HCOM-SB-1 8-20-76

SUBJECT: ELIMINATION OF 9 LEAD DUAL VOLTAGE MODEL M MOTORS

INTRODUCTION

Changes: Dual Voltage Compressor
Selection Chart has been added as Table I.

The nine lead 230/460 volt Model M Compressor hermetic motors are being discontinued, 230/60/3 six lead motors are being added to complement the 460/60/3 six lead motors presently in stock.

REASON

This action reflects a trend that is developing for high voltage part-wind applications. The 230/460 volt nine lead motor is no longer required due to small amount of 230 V. applications and the decreasing demand of 460 V. across-the-line applications.

DISCUSSION

1. Remanufactured compressors with nine lead motors will continue to be provided until motor stock is depleted. (See Table I). These compressors may be provided for both 230 volt across-the-line or part-wind and 460 volt across-the-line start applications. When nine lead motors are no longer available, six lead 230 volt or 460 volt compressors will be provided. (See Table II). Six lead motors can be run on both across-the-line and part-wind start.
2. The eighth digit of the compressor model number denotes electrical characteristics. Example: CRHM-300A-4GAT. The following is a breakdown of electrical designators:

| ELECT. DESIGNATOR | ELECT. RATING | REPLACEMENT |
|-------------------|---------------|--|
| A | 200/60/3 | 200 Volt |
| B | 230-460/60/3 | 230 Volt X-L and PW or 460 Volt X-L depending on application |
| C | 460/60/3 | 460 Volt |
| W | 230/60/3 | 230 Volt |

3. On electrical designator "B", operating voltage must be determined prior to ordering replacement motor.
4. Compressor with electrical characteristics other than A, B, C & W will not be available from the remanufactured compressor program. Contact La Crosse Parts Sales for price and availability of such replacement compressors.
5. All future shipments of replacement motors will be six lead. (See Table III). The present inventory of nine lead motors will be used on the remanufacture program.

PART ORDER INFORMATION

The following three tables should be used to make the proper replacement compressor and hermetic motor selection.

TABLE I

DUAL VOLTAGE COMPRESSOR SELECTION CHART
***** CHECK AVAILABILITY PRIOR TO ORDERING *****

| | 10 TON | | 15 TON | | 20 TON | |
|--------------|-----------|------------|-----------|------------|-----------|------------|
| | TOP MOUNT | SIDE MOUNT | TOP MOUNT | SIDE MOUNT | TOP MOUNT | SIDE MOUNT |
| 230-460 Volt | ----- | ----- | COM-1462 | ----- | COM-1464 | COM-1467 |
| | 25 TON | | 30 TON | | | |
| | TOP MOUNT | SIDE MOUNT | TOP MOUNT | SIDE MOUNT | | |
| 230-460 Volt | COM-1470 | COM-1474 | COM-1476 | COM-1480 | | |

TABLE II

**SINGLE VOLTAGE
 COMPRESSOR SELECTION CHART**

| | 10 TON | | 15 TON | | 20 TON | |
|----------|-----------|------------|-----------|------------|-----------|------------|
| | TOP MOUNT | SIDE MOUNT | TOP MOUNT | SIDE MOUNT | TOP MOUNT | SIDE MOUNT |
| 200 Volt | COM-1504 | ----- | COM-1461 | ----- | COM-1463 | COM-1466 |
| 230 Volt | COM-1505 | ----- | COM-1507 | ----- | COM-1509 | COM-1510 |
| 460 Volt | COM-1257 | ----- | COM-1508 | ----- | COM-1465 | COM-1468 |
| | 25 TON | | 30 TON | | | |
| | TOP MOUNT | SIDE MOUNT | TOP MOUNT | SIDE MOUNT | | |
| 200 Volt | COM-1469 | COM-1473 | COM-1475 | COM-1479 | | |
| 230 Volt | COM-1511 | COM-1512 | COM-1513 | COM-1514 | | |
| 460 Volt | COM-1471 | COM-1472 | COM-1477 | COM-1478 | | |

TABLE III

HERMETIC MOTOR SELECTION CHART

| | 10 TON | 13 TON | 15 TON | 16 TON | 19 TON | 25 TON | 30 TON |
|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | | 17 TON | 20 TON | | |
| 200 Volt | MOT-1152 | MOT-1400 | MOT-1154 | MOT-1405 | MOT-1156 | MOT-1160 | MOT-1164 |
| 230 Volt | MOT-1491 | MOT-1194 | MOT-1492 | MOT-1406 | MOT-1493 | MOT-1494 | MOT-1495 |
| 460 Volt | MOT-1398 | MOT-1401 | MOT-1403 | MOT-1407 | MOT-1158 | MOT-1162 | MOT-1166 |
| 575 Volt | ----- | ----- | ----- | ----- | MOT-1159 | MOT-1163 | MOT-1167 |

When replacing a burned out motor, inspect insulators and O-rings on the terminal stud assemblies for damage and replace if necessary to assure a positive seal. A new 6 hole terminal board may be installed for the six lead motor, or use the existing 9 hole terminal board by installing new terminal stud assemblies and O-rings in the extra 3 holes.

This Service Bulletin applies to:

- Model R Hermetic Reciprocating Compressor
- Model CGAA Air Cooled Cold Generators
- Model CGWA Water Cooled Cold Generators
- Model RAUA Split System Condensing Units
- Model CCUA Reciprocating Compressor Liquid Chillers
- Model SRUA Commercial Self Contained Air Conditioners, Air Cooled
- Model SWUA Commercial Self Contained Air Conditioners, Water Cooled
- Model SRZA Commercial Multizone Self-Contained Air Conditioners, Air Cooled
- Model SMZA Commercial Multizone Self-Contained Air Conditioners, Water Cooled
- Model SZ Rooftop Units
- Model MZ Rooftop Units

and will appear on the following Microfiche:

- Cold Generator
- Compressor Reciprocating
- Compressor Reciprocating Chiller
- Rooftops
- Self-Contained Commercial
- Split System Condensing Units