

# Remanufactured Motors



## Trane CenTraVac™ remanufactured motors are the best option for your chiller because...

Trane has been remanufacturing CenTraVac motors since 1974. Thousands of motors have been remanufactured at the 230,000 square foot facility in Charlotte, NC—the largest OEM manufacturing facility in the HVAC industry.

Trane CenTraVac motors are remanufactured to meet the most current OEM standards from the industry leader in chiller manufacturing. Our remanufactured motors are backed by a standard 12-month warranty. Trane has done more extensive testing on the best practices for remanufacturing CenTraVac motors than any other company.

## Continuous improvement, cutting-edge technology, and superior materials help Trane remanufactured CenTraVac™ motors stand out above the rest.

### Quality

Trane takes aggressive steps to ensure top quality

for our remanufactured CenTraVac motors. Extensive research has been done to establish the most efficient remanufacturing process while delivering the highest quality to our customers. Over 22,000 tests have been done to identify appropriate materials for wire insulation, terminal board insulation, motor varnish, gaskets, and O-rings. These tests include chemical analysis, destructive analysis, and accelerated life-cycle analysis.

When motors arrive at the factory, they are disassembled. Components are cleaned, inspected, and tested. This process determines if parts need to be repaired or replaced. All wear-sensitive materials are replaced.

All Trane remanufactured CenTraVac motors must then pass a rigorous battery of tests. While most manufacturers test their motors at 2,000 volts, all Trane low-voltage motors are subjected to a 5,000 volt surge test. This test verifies the motor's electrical integrity, ensures trouble-free operation, and helps eliminate costly downtime. In addition, an extensive rotor testing process, unique to Trane, tests the electrical integrity of each individual rotor bar, detecting open rotor bars, porous end rings, and other inconsistencies that can lead to rotor failures. These measures ensure that you receive the quality that you expect from Trane.

## Warranty

All Trane remanufactured CenTraVac motors come with standard 12-month parts warranties. Additional extended warranties are available for purchase. These include first-year labor warranties and second- through-fifth year parts warranties.

## Model and frame sizes available

Models	Frame Sizes
CV	LCC, LCF, ABX, RCC, RVX
CVHB	LCC, LCF, ABX, RCC, RVX
PCV	RCS, RPS, RVS
CVHA	RCS, RPS, RVS
CVHE	DRV, RELIANCE®
CVHF	RELIANCE

## Stocked motors available

Trane maintains a stock of the most frequently requested motors, reducing lead times and downtime in emergency situations.

Models	Frame Sizes
RVS-1556	40B141
DRV3-1538	40B150
DRV3-1734	44B557
DRV3-1736	K1313-45
DRV5-1740	DRV5-1740
DRV5-1940	K1568-35
DRV8-1950	K1568-55
DRV12-2246	K1574-25
36B111	K1659-15

## Trane remanufacturing process:

### Disassemble and inspect motors

- Disassemble and visually inspect all returned motors

### Clean components

- Ultrasonically degrease
- Vibratory surface conditioning/burnishing
- Thermally grease and burn off oil
- Shot blast
- Bath in heated detergent and rust inhibitor

### Qualify components

- Visually inspect parts
- Check mechanical elements
- Gauge using OEM specifications
- Surface conditioning
- Open rotor test
- Machine rotor/shaft assembly to OEM specifications
- Polish and balance all rotor/shaft assemblies

### Rewind motor stators

- Complete stator prep, winding, assembly, and testing
- Perform high potential, surge, and winding resistance tests

### Re-assemble motors

- Flexible final assembly line for quicker shipment

### Test units

- Run test to verify mechanical and electrical operation
- Low-voltage units are subjected to a 5,000 volt surge test (industry standard is 2,000 volts)

### Ship units

- Spray paint with industrial oil-based enamel
- Apply rust inhibitor to all exposed surfaces
- Wrap, box, and skid for shipping



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