

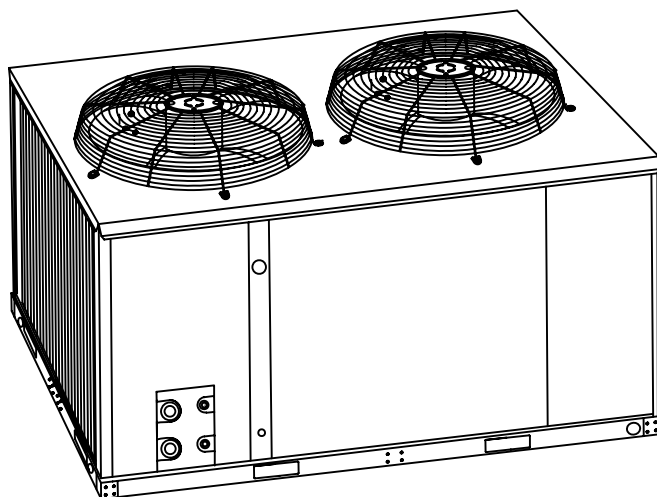
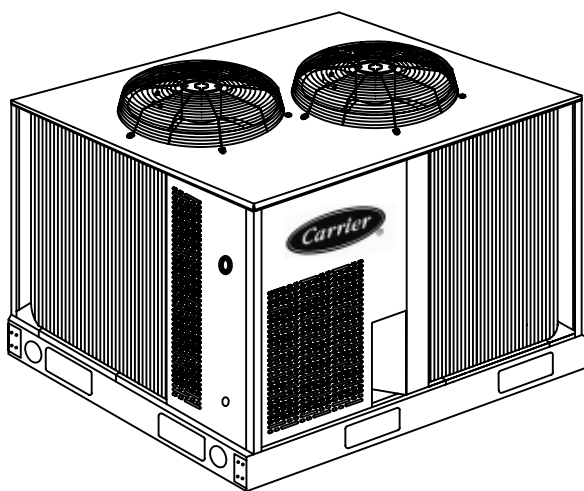
**38ARZ/ARD**  
**Commercial Air-Cooled Split**  
**Sizes 007 - 028**  
**With 40RM007-028**  
**5-24 Nominal Tons - 50Hz**



Turn to the Experts™

## Product Data

**The 38ARZ/ARD condensing units with scroll compressors match Carrier's 40RM indoor-air handlers for a wide selection of dependable commercial cooling solutions.**



Carrier's air-cooled split systems:

- provide a logical solution for commercial needs
- have a rugged, dependable construction

### Features/Benefits

**These dependable split systems match Carrier's indoor-air handlers and direct-expansion coils with outdoor condensing units for a wide selection of commercial cooling solutions.**

#### Up to 11.0 EER

The high efficiency split commercial split system combining the 38ARZ/ARD outdoor condensing unit with 40RM air handling unit can save 20-27% of energy consumption.

#### Constructed for long life

The 38ARZ (single circuit, scroll compressor) and 38ARD (dual circuit, scroll compressor) models are designed and built to last. The copper tube-aluminum fin outdoor coil construction provides years of trouble-free operation. Where conditions require, a range of *Enviro-Shield™* coil protection options are available. Cabinets are constructed of prepainted galvanized steel, delivering unparalleled protection from the environment. Inside and outside surfaces are protected to ensure long life, good looks, and reliable operation. Safety controls are used for enhanced system protection and reliability.



**38AR-03 PD 50Hz CKAC 2010**

### **Efficient operation**

Building owners will appreciate the high unit EERs (Energy Efficiency Ratios) offered by the 38AR units. These units provide greater efficiency than similar units in the marketplace, which translates into year-round operating savings.

### **Controls for performance dependability**

The 38AR condensing units offer the building owner operating controls and components designed for performance dependability. The highly efficient compressors are engineered for long life and durability. The compressors include overload protection and vibration isolation for quiet operation. The high pressure switch protects the entire refrigeration system from abnormally high operating pressures. A low pressure switch protects the system from loss of charge.

The 38ARD014-028 units feature 2 compressors and 2 refrigerant circuits that provide continuous air conditioning and design flexibility.

All units include a crankcase heater to eliminate liquid slugging at start-up. The latest safety standards for 38AR units are UL, compliant.

### **Innovative Carrier 40RM packaged air handlers are custom matched to 38AR condensing units**

The 40RM Series has excellent fan performance, efficient direct-expansion (DX) coils, a unique combination of indoor-air quality options, and is easy to install. Its versatility and state-of-the art features help to ensure economical performance of the split system both now and in the future.

#### **Indoor-air quality (IAQ) features —**

The unique combination of IAQ features in the 40RM Series air handlers help to ensure that only clean, fresh, conditioned air is delivered to the occupied space.

Direct-expansion (DX) cooling coils prevent the build-up of humidity in the room, even during part-load conditions. Unit sizes of 10 tons and larger feature dual-circuit coils for improved temperature control.

Standard 1-in. aluminum washable filters remove dust and airborne particles from the occupied space for cleaner air.

The pitched, non-corroding drain pan can be adjusted for a right-hand or left-hand connection to suit many applications and provide positive drainage and prevent standing condensate.

**Economy —** The 40RM Series packaged air handlers have low initial costs, and provide reduced installation expense and energy-efficient performance.

Quick installation is ensured by the multipoise design. Units can be installed in either the horizontal or vertical configuration without modifications. Fan motors and contactors are prewired and thermostatic expansion valves (TXVs) are factory-installed on all 40RM models.

High efficiency, precision-balanced fans minimize air turbulence, surging, and unbalanced operation, cutting operation expenses.

**Rugged dependability —** The 40RM series units are made to last. The die-formed galvanized steel panels ensure structural integrity under all operating conditions. Galvanized steel fan housings are securely mounted to a galvanized steel fan deck. Rugged pillow-block bearings (40RM014-034) are securely fastened to the solid steel fan shaft with split collets and clamp locking devices. Smaller unit sizes have spider-type bearings.

**Coil flexibility —** Model 40RM directexpansion coils have galvanized steel casings; inlet and outlet connections are on the same end. The coils are designed for use with R-22 refrigerant and have 3/8-in. diameter copper tubes mechanically bonded to aluminum sine-wave fins.

The coils include matched, factoryinstalled thermostatic expansion valves (TXVs) with matching distributor nozzles.

#### **Easier installation and service —**

The multipoise design and component layout ensures quick unit installation and operation. Units can be converted from horizontal to vertical operation by simply repositioning the unit. Drain pan connections are duplicated on both sides of the unit. The filters, motor, drive, TXVs, and coil connections are all easily accessed by removing side panels.

## Model number nomenclature

<b>Type</b> 38AR—Commercial Air-Cooled Condenser	<b>38AR</b>	<b>Z</b>	<b>007</b>	<b>--</b>	<b>-</b>	<b>9</b>	<b>0</b>	<b>1</b>	<b>S</b>	<b>S - High Ambient</b>
<b>Nominal Capacity in-Tons</b> 007 - 5.0 Tons 008 - 7.0 Tons 012 - 8.7 Tons 014 - 10.8 Tons 016 - 14 Tons 024 - 18.1 Tons 028 - 24 Tons										
<b>Design Series</b> 0 - Original Design										
<b>Voltage</b> 9 - 400-3-50										
<b>Fin Type</b> -- - Standard Bare Fins C- Cu/Cu Coil P- Pre-Coated Blue Fins										
<b>Packaging</b> 1 - Standard										
<b>-- - Not Used</b>										



Approvals:  
ISO 9001 : 2000  
EN ISO 9001 : 2000  
ANSI/ASQC Q9001 : 2000

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