

DIVISION 15 - MECHANICAL

Section 15780 - Packaged Air Conditioners

Introduction

Equipment associated with air conditioning systems including:

PACKAGED ROOFTOP AIR CONDITIONERS; SPLIT SYSTEM AIR CONDITIONERS; SINGLE PACKAGE HEAT PUMP; GAS/ELECTRIC AIR CONDITIONERS.

Part 1 - General

- All equipment shall comply with ASHRAE 90.1
- Packaged units shall be 100% factory run tested and fully charged.
- Cooling capacity ratings shall be based upon ARI and DOE test requirements.
- Size condensers for 115°F ambient temperature.
- Size evaporators for 80°F db/67°F wb indoor conditions unless Project requirements are different.
- Provide filters with a MERV of 8 or higher.

Part 2 - Products

- Heat Pumps
 - Provide minimum of 5kW strip heat for defrost mode where applicable.
- Roof Top Units
 - Provide filters in return ductwork or return grilles.
 - Maximum filter face velocity shall not exceed 400 fpm.
- Fans and Motors
 - Where available, specify belt driven fans with adjustable motor sheaves.
 - Use permanent split capacitor EPAC premium motors. See Section 15050.
- Gas Fired Heating Sections
 - Minimum of 20 year warranty.

Part 3 - Execution

- Install per manufacturer stated clearances.
- Condenser clearances to obstructions to be a minimum of 2 feet or as per manufacturer recommendations.
- Provide 3 feet clearance around rooftop units or remote condensing units.
- Provide maintenance access to all equipment requiring service.

End of Section 15780