

PART 1 - GENERAL

1.1 REFERENCE STANDARDS

- .1 American National Standards Institute/Air Movement and Control Association (ANSI/AMCA)
 - .1 AMCA Publication 201 (Latest Edition), Fans and Systems.
 - .2 ANSI/ASHRAE 51 (Latest Edition) (ANSI/AMCA 210 (Latest Edition)), Laboratory Methods of Testing Fans for Aerodynamic Performance Rating.
 - .3 ANSI/AMCA Standard 300 (Latest Edition), Reverberant Room Method for Sound Testing of Fans.
 - .4 ANSI/AMCA Standard 301 (Latest Edition), Methods for Calculating Fan Sound Ratings from Laboratory Test Data.
 - .5 AMCA Publication 302 (Latest Edition), Application of Sone Ratings for Non-Ducted Air Moving Devices.
 - .6 AMCA Publication 303 (Latest Edition), Application of Sound Power Level Ratings for Fans.

1.2 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for domestic fans and include product characteristics, performance criteria, physical size, finish and limitations.

1.3 MAINTENANCE MATERIAL SUBMITTALS

- .1 Extra Materials:
 - .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
 - .2 Furnish list of individual manufacturer's recommended spare parts for equipment, include:
 - .1 Bearings and seals.
 - .2 Addresses of suppliers.
 - .3 List of specialized tools necessary for adjusting, repairing or replacing.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground indoors in dry location and in accordance with

- manufacturer's recommendations in clean, dry, well-ventilated area.
- .2 store and protect domestic fans from nicks, scratches, and blemishes.
- .3 Replace defective or damaged materials with new.

PART 2- PRODUCTS

2.1 FANS - GENERAL

- .1 Standard of rating:
 - .1 AMCA Publication 201 for fan application.
 - .2 AMCA Publication 302 for application of some loudness ratings for non-ducted air moving devices.
 - .3 AMCA Publication 303 for application of sound power ratings for ducted air moving devices.
 - .4 Performance: to ANSI/AMCA Standard 210. Unit to bear ANSI/AMCA certified seal.
- .2 Sound level ratings to comply with ANSI/AMCA Standard 301, tested to ANSI/AMCA Standard 300.
- .3 Maximum loudness: 5 sones.

2.2 RANGE HOOD

- .1 Width: 760 mm.
- .2 Material: Stainless Steel
- .3 Airflow: 104 L/s @ 88 Pa.
- .4 Electrical: 120/1/60, 2.0 A.
- .5 Speed: 3 speed.
- .6 Flood lights
- .7 Charcoal filters
- .8 Sound level: 5 sones @ 104 L/s
- .9 Dupont non-stick bottom cover.
- .10 Outlet: 83 mm x 250 mm or 175 mm.
- .11 Heat sentry to automatically turn blower to high speed when excessive heat detected.

PART 3- EXECUTION

3.1 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for domestic fan installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied [and after receipt of written approval to proceed from Departmental Representative.

3.2 INSTALLATION

- .1 Install in accordance with manufacturer's recommendations.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

END OF SECTION