

E-01-12

A-A-1941A
 December 29, 1988
 Superseding
 A-A-1941
 February 26, 1983
 W-F-97G
 April 30, 1976

COMMERCIAL ITEM DESCRIPTION

FAN, CIRCULATING, PEDESTAL (30 INCH, NON-OSCILLATING)

The General Services Administration has authorized the use of this commercial item description as a replacement for Federal Specification W-F-97G which is canceled.

1 Scope. This commercial item description covers 30 inch pedestal mounted non-oscillating fans.

2 Salient characteristics.

2.1 Description. The fan shall include a pedestal, blade assembly, fan guard, motor, switch, cable assembly, and all other parts necessary to constitute a complete functional product.

2.2 Safety. The fans shall be in accordance with Underwriters Laboratories Inc. (UL) Standard No. 507. An acceptable indication of meeting the requirements in the standard is a label, marking, or listing of a nationally recognized testing laboratory, indicating compliance to the UL standard. The laboratory shall maintain periodic inspection of production. The laboratory shall be recognized by the Occupational Safety and Health Administration under Appendix A to 29 CFR 1910.7. The Government reserves the right to perform any of the applicable tests.

2.3 Requirements.

2.3.1 Voltage and frequency. Unless otherwise specified, the motors shall be designed for a rated voltage of 120 volts \pm 10 percent and a rated frequency of 60 Hertz \pm 5 percent.

2.3.2 Insulation. Insulation shall be class A minimum in accordance with National Electrical Manufacturers Association (NEMA) Standard No. MG-1.

2.3.3 Switch. The fan shall have a switch that controls the power and speed of the fan and complies with the requirements of UL 507. The switch shall have one off and not less than two on (low and high speed) positions or an ON/OFF/ON/OFF switch arrangement. The low speed shall not be greater than 80 percent of the maximum speed when operating at rated voltage and frequency.

DISTRIBUTION STATEMENT A: Approved for
 public release; distribution is unlimited.

FSC 4140

A-A-1941A

2.3.4 Power supply cord. A three wire power supply cord with integral ground, terminated with a NEMA 5-15P plug configuration, shall be used. The cord and plug shall comply with the requirements for cords for fans intended for commercial or industrial use. The length shall be in accordance with the UL Standard.

2.3.5 Assembly. The fan shall consist of 3 parts, fan head, an adjustable column, and base.

2.3.5.1 Motor. The motor protection shall be in accordance with the UL Standard. The motor bearings shall have maintenance free, permanent lubrication.

2.3.5.2 Blade assembly. The blade assembly shall consist of a complete air screw having at least three metal or plastic blades together with a hub or central support. The diameter of the blade assembly shall be 30 inches \pm 1/2 inch.

2.3.5.3 Guard. The guard shall be in accordance with UL 507.

2.3.5.4 Base and column. The base and column shall be metal. The column shall be securely attached in a vertical position to the base. The column shall be of a two piece telescoping design consisting of an upper column sliding into or out of the lower column. The lower column shall be designed to prevent the accidental removal of the upper column. A device shall be provided for locking the upper column at any height within the vertical adjustment limits of the column without special tools. When the column is in its lowest adjustable position, the motor shaft shall be not less than 54 inches nor more than 66 inches above the bottom surface of the base. The column shall have an adjustable height of not less than 30 inches above its lowest adjustable position. The power supply cord shall enter the base, or at any point that is less than 3 inches above the floor level and through a bushed opening. The cord shall have a strain relief bushing where the cord exits the top of the column and at the entry to the fan motor. The power supply cord shall be threaded through the column before shipment of the fan from the manufacturer's plant. The motor shall be securely attached on the upper end of the column. It shall be adjustable in a vertical plane from 5 degrees below the horizontal to not less than 15 degrees above the horizontal. A locking device shall lock the motor in any position. If necessary, a tool shall be supplied to lock the motor in position.

2.3.5.5 Finish. The finish shall be the manufacturer's standard commercial finish.

2.3.5.6 Plastic. The plastic shall be in accordance with the UL Standard.

2.3.6 Identification marking. The fans shall be marked with the contract No. and any markings required by the UL standard.

A-A-1941A

2.3.7 Manuals. In addition to the safety and installation instructions required by UL 507, the contractor shall provide with each fan his standard commercial repair instructions which shall include a complete list of all replaceable parts.

2.3.8 Workmanship. The finished fans shall conform to the salient characteristics of this commercial item description. Fans shall be free from any workmanship or design defects that affect appearance and serviceability.

3 Tests.

3.1 Motor and motor protection. The motor and motor protection tests shall be in accordance with UL Standard No. 507.

3.2 Guard. The guard test shall be in accordance with UL Standard No. 507.

4 Quality Assurance Provisions.

4.1 Responsibility for inspection. The contractor shall be responsible for the performance of all inspection and testing in fulfillment of all requirements specified herein. Unless otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities approved by the Government as suitable for the performance of inspections and tests required by this CID. The Government reserves the right to perform the inspections and tests set forth in this CID, as deemed necessary to provide assurance of supply conformance to prescribed requirements.

4.2 First article requirement. Inspection and testing of the first article shall be performed in accordance with the requirements of the contract (if applicable).

4.3 Quality conformance inspection. A sample of the finished product shall be selected in accordance with paragraph 5.6 of this CID for quality conformance verification. The sample shall be examined to verify that the requirements referenced in paragraphs 1 through 3 have been met. Any nonconformances with the above requirements shall be considered a defect. All defects found shall be classified as major/minor in accordance with paragraphs 4.4 and 4.5 of this CID.

4.4 Major defects. The following conditions of nonconformance with the stated requirements of the CID shall be considered as major defects which may potentially affect the safety, function, durability or use of the purchased items.

A-A-1941A

No acceptable evidence of conformance with UL Standard No. 507.

Pedestal size not as specified.

Fan guard not as specified.

Fan blade assembly diameter, out of tolerance.

Number of fan blades, not as specified.

Cable assembly length, not as specified.

Cable assembly plug, not in accordance with NEMA blade configuration requirement.

Power on-off switch not configured as specified.

Motor fails to start with the power switch in any of the on-positions.

Excessive motor shaft torque impairing fan assembly rotation.

Smoke traces or burning odor.

Noticeable noise or vibration.

Parts/components fractured, buckled, bent, punctured, malformed or missing.

Poor "component lead/wiring" soldering.

Poor welding or riveting.

Identification marking missing, wrong, or illegible.

Preservation, packaging, and packing not in accordance with the requirements of the contract or purchase order.

Written repair instructions/parts list not included in the package.

4.5 Minor defects. Areas of nonconformance listed below shall be considered as minor defects affecting the appearance of the finished item.

Rough or slivered surface.

Burrs.

Rough tool markings.

Oversized holes.

Pitted, stained, or blistered surfaces.

Foreign matter embedded in the finish.

Painted surfaces contain sags or runs.

Components and parts covered with film.

Parts, components, overall covered, not free of grease, dirt dust, epoxy, stains, etc.

4.6 Sampling. The sampling plan shall be in accordance with MIL-STD-105 for visual and dimensional inspection. The single sampling plan for normal inspection level II shall apply. The Acceptable Quality Level (AQL) for major and minor defects shall be 4.0 and 6.5 respectively. For testing, the special inspection level S-2 with an AQL of 4.0 shall be applicable.

5 Regulatory requirements. The offerer/contractor is encouraged to use recovered materials in accordance with Public Law 94-580, as amended, to the maximum extent practicable.

6 Preservation, packaging, packing, labeling, and marking. The preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order.

A-A-1941A

7 The issues of UL Standard No. 507, and MIL-STD-105 in effect on the date of the solicitation shall be used to determine compliance with the stated requirements.

8 Notes.

8.1 UL Standards are available from Underwriters Laboratories Inc., Publication Stock, 333 Pfingsten Road, Northbrook, IL 60062.

8.2 The NEMA plug configuration chart is available from the National Electrical Manufacturer's Association, 2101 L Street, N. W., Washington, DC 20037.

8.3 MIL-STD-105 is available from the Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

8.4 The NSN for this fan is 4140-00-833-5068.

MILITARY INTERESTS:

NONE: DoD has determined that no military activity has an official interest in this commercial item description.

PREPARING ACTIVITY:

GSA - FSS/FCNE