| INCH-POUND |

A-A-50540
June 30, 1993
SUPERSEDING
MIL-C-16703E(YD)
30 September 1987

COMMERCIAL ITEM DESCRIPTION

COLLECTOR UNIT, DUST, WITH FAN

The General Services Administration has authorized the use of this Commercial Item Description (CID) in preference to MIL-C-16703E(YD).

Abstract. This CID covers a dust collector unit capable of separating and collecting wood shavings, sawdust, chips, and similar material.

Salient characteristics.

1. Description. The dust collector unit shall be self-contained consisting of a fan, a cyclone or centrifugal type collector with a supporting framework, and shall be electric-motor-driven. The equipment shall not include the interconnecting duct work and exhaust hoods.

2. Performance. The dust collector unit shall move a minimum of 4,200 standard cubic feet per minute (118.94 cubic meters per minute), at an external static pressure of not less than 6 inches (15.24 centimeters), water gage. The motor rating for the unit shall be less than 10 horsepower. The dust collector unit shall have an overall collection efficiency, without an after-filter, of not less than 95 percent when subject to the test as prescribed in the Code of Federal Regulations (CFR) Title 40, Part 60, Appendix A, Method 5.

3. Collector. The collector shall be of the cyclone or centrifugal type. The collector shall consist of a cylindrical body and tapered cone arrangement which is designed to centrifugally separate the conveyed material from the entering air. A single 55 gallon steel drum, a self-sealing bottom slide gate, and dumping clearance of 36 inches (91.44 centimeters) above the floor shall be provided. The inlet shall be 15 inches (38.1 centimeters) square and shall be connected tangentially to the upper cylinder. The air exhaust vent shall be capped or other suitable means shall be provided for protection against weather.

|Beneficial comments (recommendations, additions, deletions) and any pertinent|
|data which may be of use in improving this document should be addressed to: |
|Commanding Officer (Code 156), Naval Construction Battalion Center, |
|621 Pleasant Valley Road, Port Hueneme, CA 93043-4300. |

FSC 4460

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

4. Collector framework. A structural steel framework of bolted construction shall support the collector at an elevation necessary for the dust catching system as specified in 2.3. The collector shall be sufficiently braced against a wind resistance equivalent to 80 miles per hour (128.72 kilometers per hour) when installed outdoors. The bottom of the framework shall provide for a secure anchorage to a concrete foundation. Framework may be dismantled for shipping purposes. All necessary bolts, nuts, and lockwashers for field assembly shall be included.

5. Motor. The motor shall be a polyphase, squirrel cage, induction motor conforming to NEMA MG 1, and shall be totally enclosed fan-cooled. The motor shall be suitable for continuous fan operation and designed for operation on 208 volt, 60 Hertz, 3-phase, alternating current.

6. Instruction plate. The collector unit shall be equipped with instruction plates suitably located, describing any special or important procedures to be followed in operating and servicing the equipment. Plates shall be of a material which will last and remain legible for the life of the equipment. Plates shall be securely affixed to the equipment with nonferrous screws or bolts of not less than 1/8-inch (0.31 centimeter) diameter.

7. Identification plate. The contracting officer will furnish to the Government inspector the required identification plates. The contractor will be required to stamp the necessary data in the blank spaces thereon and securely affix said plates in a conspicuous place on each unit, assembly or subassembly, and parts as directed by the Government inspector. Nonferrous screws, rivets, or bolts of not less than 1/8-inch (0.31 centimeter) in diameter shall be used to affix the plates. Nomenclature shall be *"COLLECTOR UNIT, DUST."*

Quality assurance.

1. Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this CID and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

2. Regulatory requirements. The offerer/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practical.

3. Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, providing they fall within the tolerances specified and all other requirements of this document are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the specification preparing activity for changes to this document.

Packaging. Unless otherwise specified in the contract or order, the preservation, packing, and marking shall be in accordance with ASTM D 3951.

Notes.

1. Ordering data. Acquisition document should specify the following:

   a. Title, number, and date of this CID.
   b. When level of preservation, packaging, packing, labeling, and marking is to be other than specified (see 5).

2. Source of Government documents. Copies of CFR are available from:

   Superintendent of Documents
   U.S. Government Printing Office
   Washington, DC 20402

3. Source for non-Government association documents.

   ASTM Standard D 3951 is available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

   NEMA Standard MG 1 is available from the National Electrical Manufacturers Association, 2101 "L" Street, N.W., Suite 300, Washington, DC 20037.

MILITARY INTEREST:

Custodian

Navy - YD

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

PREPARING ACTIVITY:

Navy - YD

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