

	Title: YALE OFFICE OF FACILITIES PROCEDURE MANUAL Chapter: 01—Yale Design Standards Division: 13—Special Construction	Section: 13 21 00 Controlled Environment Rooms
		Date: September 2022
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PART 1: INTRODUCTION

1.1 PURPOSE

- A. This section contains requirements for controlled environment rooms.

PART 2: GENERAL DESIGN REQUIREMENTS

2.1 REQUIREMENTS

- A. Prefabricated, all metal-clad construction furnished and installed as a complete self-contained unit and system, with all essential plenums, controls, balanced air circulation, and all other equipment necessary to reach the environmental conditions specified herein.
- B. Factory assembled and tested major components, including air handler, condensing unit, and control panel prior to delivery.
- C. Delivery of room components to their final location and complete assembly of rooms in place.
- D. Refrigeration piping, electrical power wiring, and control wiring and connections, which are an integral part of the rooms.
- E. Installation of structures and fixtures supplied by the room’s manufacturer.
- F. Start-up and field testing of rooms.

PART 3: MINIMUM PRODUCT REQUIREMENTS

3.1 ACCEPTABLE MANUFACTURERS

- A. EnvironAir, a division of Holman Engineering, Inc.
- B. Harris Environmental Systems, Inc.
- C. Conviron
- D. Percival Scientific, Inc.
- E. Forma Scientific, Inc.
- F. Environmental Growth Chambers (EGC)

Proposed substitutions must be approved by the owner in an addendum prior to bid date as specified in bidding requirements. Manufacturers who have not received prior approval will be unacceptable.

3.2 FIRE ALARMS

Review the design standard [Division 28 for fire alarm requirements](#) for notification devices installed in cold rooms, hot rooms, refrigerators, freezers, and the likes with extreme operating temperatures.

Date	Description of Change	Pages / Sections Modified	ID
9/2022	Content moved from General Requirements	N/A	Cathy Jackson