

Does the elevator machine room necessarily need a separate electrical control box



Overview

Each car, machine room and hoistway pit must have separate dedicated branch circuits for lighting, receptacles and HVAC, with car and machine-room lighting exempt from GFCI while required for receptacles. Overcurrent devices and disconnects must be located in machine or control spaces, be lockable. Provide a legally constructed and enclosed control room, adequately lighted, and conditioned to maintain temperature between 60° to 90° Fahrenheit, relative humidity is not to exceed 90% non-condensing. Control room must be of adequate size to provide clearances around and between equipment as. Main Power Circuit: Typically, a 240VAC, 30 Amp dedicated line with 10/3 copper wiring (including a dedicated neutral and ground) serves the elevator motor and controls. This is always an isolated circuit, never shared. Typically, for residential elevators, a machine room will be located on the lowest landing as close as possible to the elevator hoistway. These systems eliminate the need for a separate room to house hydraulic pumps, control panels, etc. However, they do present some challenges.

Article Content

Jan 21, 2026

OESC 620.37 Wiring in Hoistways, Machine Rooms, ...

In Oregon, Raceways and conduits for the connection of elevator devices shall only enter the machine room to the extent necessary to connect the devices attached ...

Nov 22, 2025

Elevator Design Coordination and Best Practices

All major elevator manufacturers are offering machine room-less (MRL) systems. These systems eliminate the need for a separate room to house hydraulic pumps, control panels, etc.

Aug 02, 2025

California Code of Regulations, Article 7, Section 3011

(2) Where the elevator machine and control equipment are not located at the top of the hoistway, a separate machine room shall be provided and only machinery and equipment required for the ...

Oct 31, 2025

Minimum Control Room Elevator | DEM Elevating Equipment

Provide light, switch and 110 VAC GFI outlet in the control room, with switch located adjacent to the door. Only elevator-related equipment is allowed inside the control room.

Dec 25, 2025

NEC Article 620 Elevators, Part 2 | PDF | Elevator | Electrical Wiring

Spaces, and Control Spaces, states elevator and similar installation driving machines, motor-generator sets, motor controllers and disconnecting means are to be installed in a room or space set aside for ...

Nov 08, 2025

NEC Article 620: Elevators, Part 2

NEC 2011 also addresses branch circuits for machine room or control room/machinery space or control-space lighting and receptacles. It is mandatory, as in the car, that these items have ...

Jan 14, 2026

Temporary Power and Dedicated Circuits for New Elevator Installation ...

It's an electrical circuit used solely for supplying elevator equipment and not shared with other lighting, receptacles, or building power. Required for code compliance and safety.

Apr 08, 2026

NEC Article 620 Elevators, Part 2 | PDF | Elevator

Spaces, and Control Spaces, states elevator and similar installation driving machines, motor-generator sets, motor controllers and disconnecting means are to be ...

Jun 17, 2026

6-1 Elevator Machine Room, Control Room, and Machinery Space

For each elevator group, provide electrical power service from the main building electrical distribution panel to the elevator machine room. Designer must consider type of elevator drive specified and ...

Dec 12, 2025

Residential Elevator Machine Rooms | HomeElevators

While electrical requirements will vary depending on the specific type of elevator in general, two separate electrical circuits are required for most residential elevator systems.

Aug 20, 2025

Elevator Design Coordination and Best Practices

All major elevator manufacturers are offering machine room-less (MRL) systems. These systems eliminate the need for a ...

Sep 16, 2025

OESC 620.37 Wiring in Hoistways, Machine Rooms, Control Rooms ...

In Oregon, Raceways and conduits for the connection of elevator devices shall only enter the machine room to the extent necessary to connect the devices attached thereto.

Mar 07, 2026

Elevator Equipment Room Code Requirements

State building codes generally require the installation of driving machines, motor generators, control equipment and backup equipment in a separate, dedicated room or enclosure.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://professionistidelverde.it>

Email: info@professionistidelverde.it

Phone: +49 176 4829 3715

Address: Friedrichstraße 123, 10117 Berlin, Germany

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