

4.6.4 Household and similar electrical appliances

The electrical appliances such as water heaters, cookers, hot plates, etc. which are used in consumer installation shall generally comply with BS EN 60335.

4.6.5 Control of Water Heaters/ Sauna /Jacuzzi/ washing machines

Double pole switches (with neon indicator) of appropriate rating shall be provided for control of water heaters / sauna / washing machines. The final connection to the equipment shall be made from a flex outlet plate mounted adjacent to the equipment. The control switch for water heater installed in a bath room or toilet shall be installed immediately outside the bathroom. The control gear for sauna shall be placed outside the sauna room / cabin.

Water heater / sauna / washing machines shall be connected to a separate final sub circuit from the distribution board. The heater shall incorporate an integral earthing terminal adjacent to the phase and neutral terminals. All terminals shall be housed in suitable recess with a splash proof removable cover. Every heater circuit shall be protected by 30 mA RCCB/ELCB.

4.6.6 Control of Air Conditioning Unit/equipment

A 15 Amp switched socket outlet shall be provided for room air-conditioners (window type) to connect units only with cooling capacity up to 18000 Btu/hour. Double pole switch, of appropriate rating, with flex outlet mounted adjacent to the unit shall be provided for control of other room air-conditioning units.

Each room air-conditioning unit shall be connected to a separate final sub circuit, from the distribution board.

A maximum of two air-conditioning units (window type) are permitted to connect on a single phase supply. Where three or more units are installed they shall be balanced as nearly as possible over a three phase supply.

Breaker rating and wire size for the air conditioning unit is to be selected as per the connected load of the appliance, subject to minimum 20 Amps with 4 sq. mm circuit wires.

4.6.7 Extra Low Voltage Safety Apparatus

The extra low voltage safety apparatus such as electric buzzers & bells, mirror lights & shaver socket outlets for installation in bathroom, light fittings for underwater installations, etc. shall incorporate appropriately rated double wound safety isolating transformer either integrally built-in or mounted separately, with cartridge fuse or MCB in the secondary circuit.