Pulncord Switch

Shower or other high load device

2c 6mm² T&E

2A fuse

240V Contactor coil

From boiler and heating local consumer unit.

See Note 1

Note
Following part nos. are as Merlin Gerin. Enclosure ref.13396, fuse carrier ref.15636, spacer ref.27062 ref.13396.6.3A 4MN contactor ref. 15374. To be assembled by electrician.

Design Intent
When the shower is in operation the contactor will drop out supplies from the new local consumer unit to the system controller.

FIG 2
Arrangement for where there is an Electric Shower or other high Load
Notes

1. Incoming consumer units vary widely. It may be possible to fit a new 63A MCB in existing consumer unit, dispensing with the need for separate enclosure and terminals.

2. Cable sizes assume that they are not bunched together, or with other cables, and not run through or touching thermal insulation. If these conditions are not met then cable sizes will have to be increased.

3. It may be possible to loop cable directly from existing consumer unit to MCB in enclosure depending on make and type of the former.

4. Proposed new enclosure adjacent existing consumer unit comprises Merlin Gerin Mini Orate enclosure ref.13396, 63A DP MCB ref.C60HN 263 and insulated sub-distribution terminals ref.19091.

5. New local consumer unit in Heating Cupboard as Merlin Gerin MCAN6 together with incinerator and outgoing MCB's.

6. MCB enclosure to be labelled "isolator for heating system only".

Queensway Industrial Estate
Glenrothes Fife KY7 5QF
01592 611123
www.mcdonaldwaterstorage.com

FIG 2A
Electrical supply arrangement – (Max 12kW)
Notes

1. Incoming consumer units vary widely. It may be possible to fit a new 80A MCB in existing consumer unit, dispensing with the need for separate enclosure and terminals.

2. Cable sizes assume that they are not bunched together, or with other cables, and not run through or touching thermal insulation. If these conditions are not met then cable sizes will have to be increased.

3. It may be possible to loop cable directly from existing consumer unit to MCB in enclosure depending on make and type of former.

4. Proposed new enclosure adjacent existing consumer unit comprises Merlin Gerin Mini Opole enclosure ref.13396, 80A DP MCB ref.16413 and insulated sub-distribution terminals ref.19091.

5. New local consumer unit in Heating Cupboard as Merlin Gerin MGAR6 together with in-comer and outgoing MCB’s.

6. MCB enclosure to be labelled "isolator for heating system only".

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FIG 2B
Electrical supply arrangement – up to 15kW