Rheem Commercial Solar Water Heating

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1 Specification Details

Trade Sections: Plumbing
Description:
Keywords: Plumbing, Rheem Commercial Solar Water Heating, solar water heaters, solar collectors, solar panels, solar systems

2 Clauses

2.1 Scope

Help Note:
For technical information on products to attach to this project, please visit
https://productspec.co.nz/en/supplier/rheem

2.1.1 Rheem 'Lo-Line Solar' Water Heating System (open circuit)

Supply, install and commission Rheem 'Lo-Line' Solar Water Heating System, incorporating Rheem NPT200 Collectors, as a direct (open circuit) solar hot water system to the locations shown on the drawings, complete with all necessary fittings and accessories for proper operation and functionality. All aspects of this work shall be in strict accordance with Rheem technical literature and installation requirements (check www.rheem.co.nz, or call 0800 657 336 for the latest editions), other relevant product manufacturers' recommendations, with all relevant Standards, Regulations and Acts, and as shown on the drawings.

No substitutions are permitted for Rheem 'Lo-Line' Solar Water Heating System.

2.1.2 Rheem 'Premier Hi-Line' Solar Water Heating System (closed circuit)

Supply, install and commission Rheem 'Premier Hi-Line' Solar Water Heating System, incorporating Rheem S200 Collectors, as an indirect (closed circuit) solar hot water system to the locations shown on the drawings, complete with all necessary components, fittings and accessories for proper operation and functionality. All aspects of this work shall be in strict accordance with Rheem technical literature and installation requirements (check www.rheem.co.nz, or call 0800 657 336 for the latest editions), other relevant product manufacturers' recommendations, with all relevant Standards, Regulations and Acts, and as shown on the drawings.

No substitutions are permitted for Rheem 'Premier Hi-Line' Solar Water Heating System.

2.1.3 Rheem 'Heat Store' Solar Water Heating System (closed circuit)

Supply, install and commission Rheem 'Heat Store' Solar Water Heating System, incorporating Rheem BT Collectors, as an indirect (closed circuit) solar hot water system to the locations shown on the drawings, complete with all necessary components, fittings and accessories for proper operation and functionality. All aspects of this work shall be in strict accordance with Rheem technical literature and installation requirements (check www.rheem.co.nz, or call 0800 657 336 for the latest editions), other

relevant product manufacturers' recommendations, with all relevant Standards, Regulations and Acts, and as shown on the drawings.

No substitutions are permitted for Rheem 'Heat Store' Solar Water Heating System.

2.2 Solar Collectors

2.2.1 Rheem 'NPT200 Collector' - Rheem 'Lo-Line Solar' System

Rheem 'NPT200 Collector' - Solar Collector Panel for Rheem 'Lo-Line Solar' Water Heating System.
Zincalume tray, 7 riser tubes, black polyester aluminium absorbent material, polyester insulation, tempered matt-matt glass aperture.
1941mm(h) x 1023mm(w) x 80mm(d) overall size, 1.86m2 aperture size, 1.5 litre fluid capacity, 36kg approximate when empty.
Installed to the location and layout shown on the drawings in accordance with the manufacturer's requirements.
Maximum 24 x collectors installed to each installation array, maximum 8 x collectors per expansion tube.

Total number of 'NPT200 Collectors':
Location:

2.2.2 Rheem 'S200 Collector' - Rheem 'Premier Hi-Line' Solar System

Rheem 'S200 Collector' - Closed Circuit Solar Collectors for Rheem 'Premier Hi-Line' Solar Water Heating System.
Zincalume tray, 33 riser tubes, black polyester steel absorber material, polyester insulation, tempered matt-matt glass aperture.
1941mm(h) x 1023mm(w) x 80mm(d) overall size, 1.86m2 aperture size, 3.8 litre heating fluid capacity, 48kg approximate when empty.
Rheem S200 Collectors shall be installed in paired sets with a closed solar circuit pipe system to each set; each collector pair and closed solar circuit shall be coupled to an individual solar storage tank model Rheem 300L S/S HiLine as specified.
Install solar collectors to the locations and layout shown on the drawings in accordance with the manufacturer's requirements.
Mounting stands, where required, are to be manufactured from an approved stainless steel to suit installation requirements (drawings can be provided by Rheem).

Total number of S200 Collectors:
Location:

2.2.3 Solar Circuit Pipework

The solar hot and solar cold pipes between the solar storage tanks and the solar collectors must be of bendable grade or hard drawn DN15 copper tube - do not use annealed or soft copper tube or plastic pipe.
The full length of the solar circuit pipes must be adequately insulated, to prevent temperature loss and to prevent freezing, and shall: