

CMT-22

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Specification wording

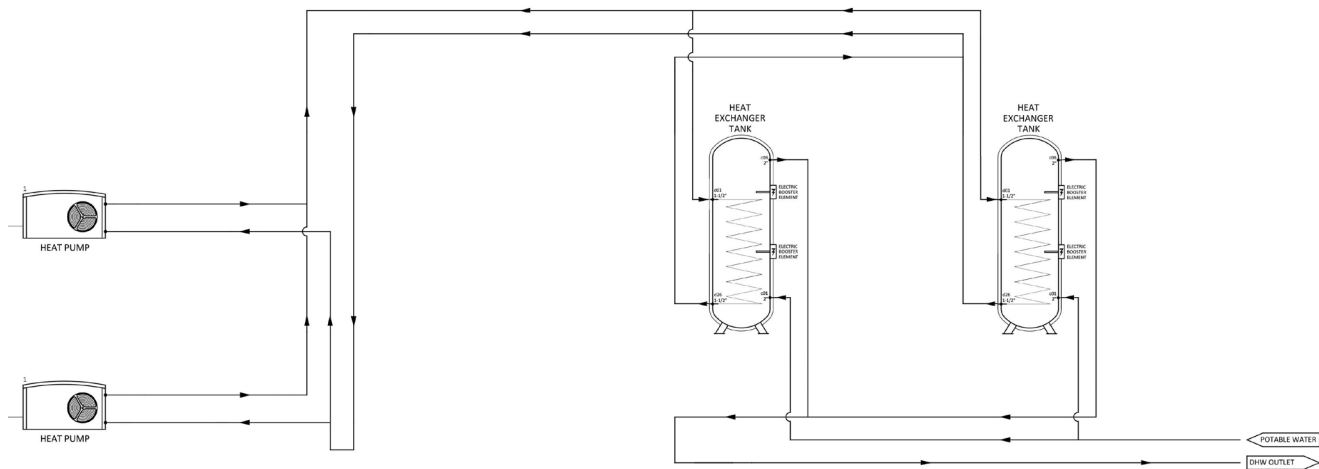
The hot water plant shall be a closed-loop heat pump system meeting the following requirements:

The system shall consist of two (2) WPL-A 07 air-to-water monobloc outdoor heat pump units, each coupled to two (2) 829L nominal domestic hot water (DHW) coil tanks, with a total stored water volume of 1658L. The system shall provide a heating output of 16 kW at 5°C ambient air temperature with water temperatures up to 65°C directly from the tanks, without reliance on additional electric boosting. The heat pumps shall be capable of achieving flow temperatures up to 75°C and operate on R454C, a low Global Warming Potential (GWP) refrigerant. The installation can be done internal or external.

The heat pumps shall operate in a true cascade, managed by a centralised Heat Pump Manager to ensure uniform machine scheduling and optimal efficiency. The system shall be equipped with an Internet Service Gateway connected to the Heat Pump Manager and a network router/switch to enable remote service visibility and building management system (BMS) integration via MODBUS protocol.

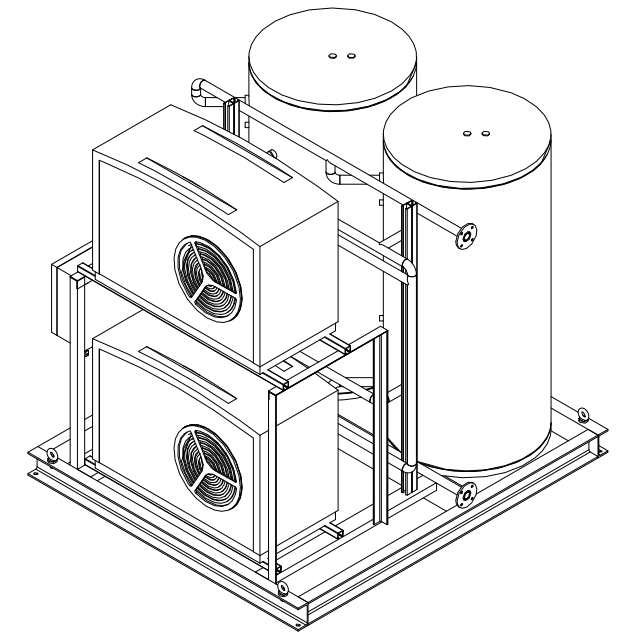
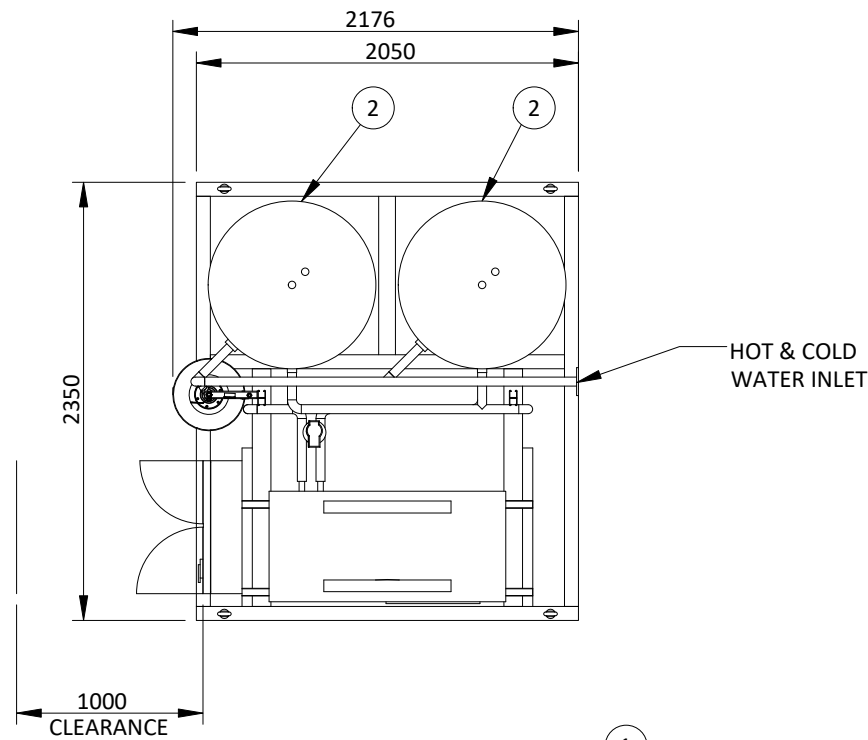
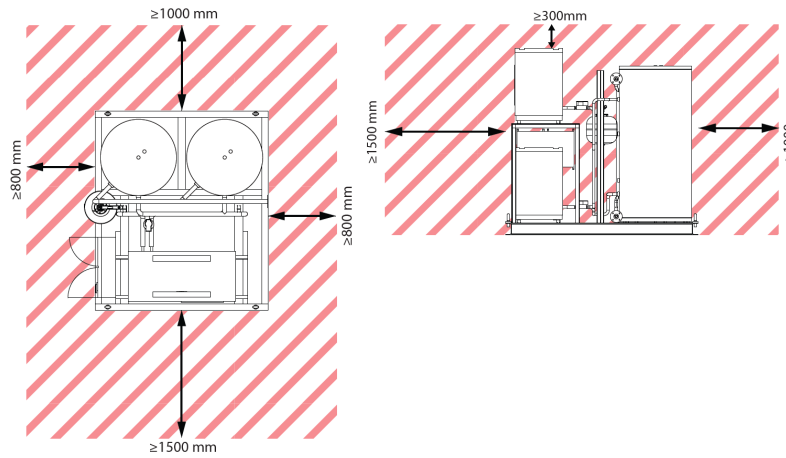
The system shall require a connected load of 90A at 415VAC, be WaterMark certified, and be suitable for outdoor installation. Each installation shall include a 37A/PH 415V central control panel for manual selection and monitoring tank temperature, ambient air temperature, and system performance metrics. The system shall comply with all relevant Australian Standards and be configured for long-term efficiency and reliability.

Package Name	CMT-22
HP Type	WPL A-07
QTY	2
Tanks	2
Heating Cylinder Volume (L)	1658
Min. Spatial Requirement (m2)	8.46
Dry Weight (kg)	574.00
Wet Weight (kg)	2232.00
Connected load (A)	81.00
Peak Draw (kW)	16.80
Max Current per Phase (A)	37A
Voltage/Phase	415V/3Ph+N/50Hz

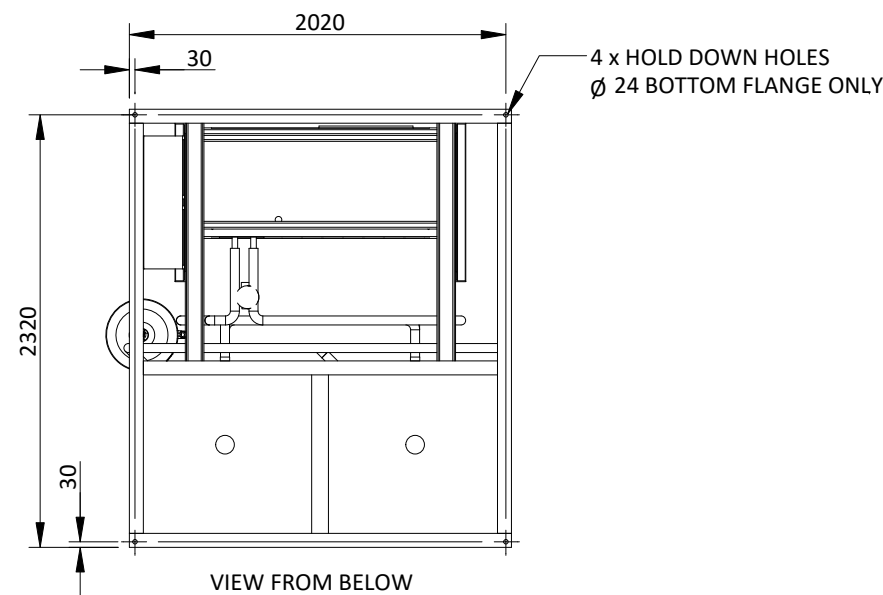
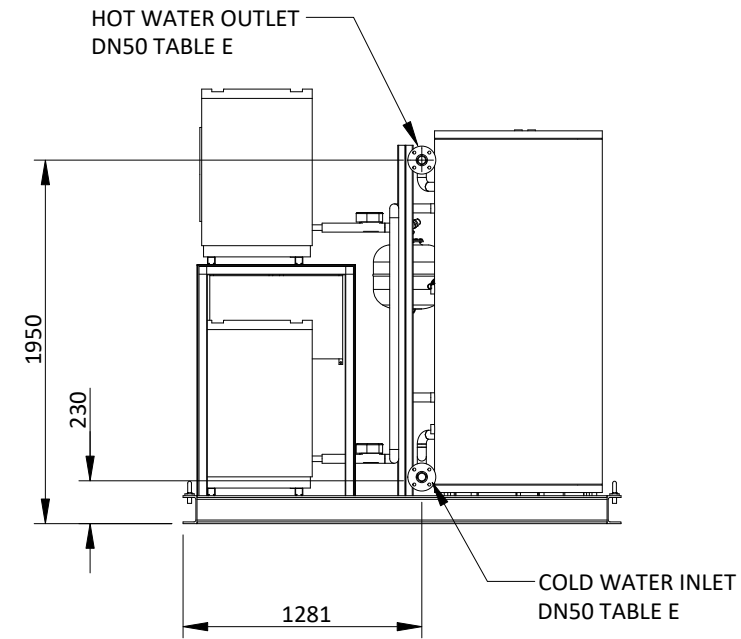
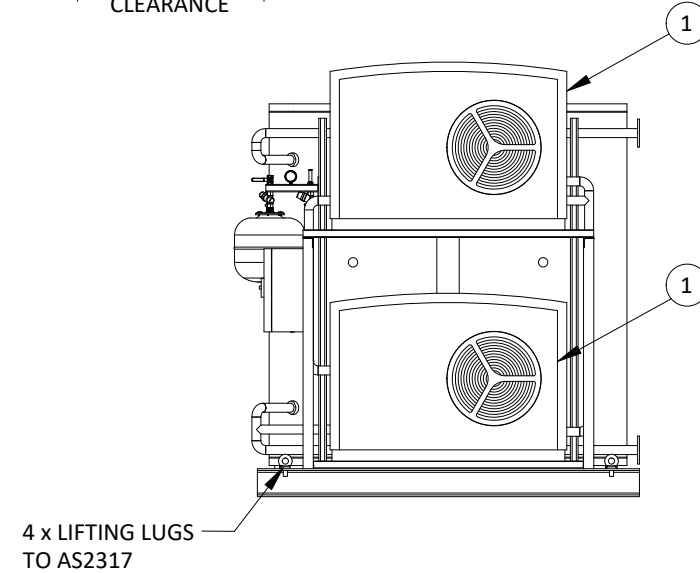
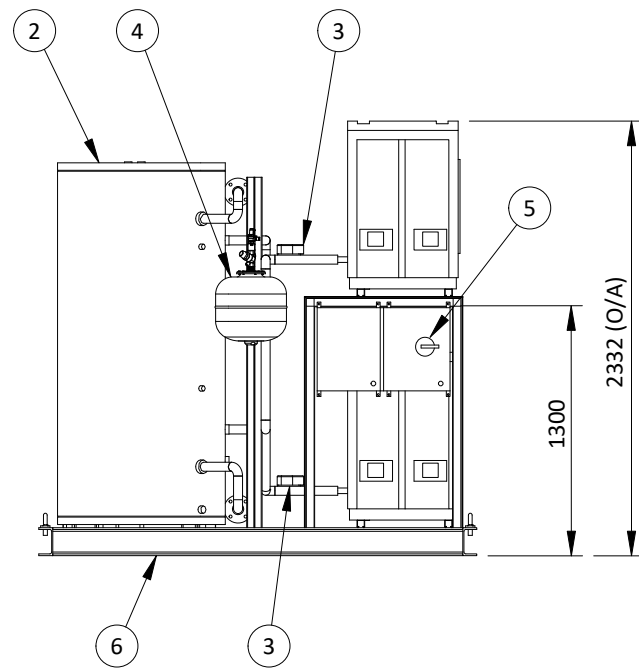


Clearances required for serviceability and system performance.

If minimum clearances can not be adhered to contact Stiebel Eltron for more information.



ISOMETRIC VIEW ADDED FOR CLARITY



NOTES:

- MINOR FASTENERS, SOME PIPE SUPPORTS AND INSULATION NOT SHOWN FOR CLARITY.
- STRUCTURAL STEEL GALVANISED TO AS4680.
- PIPING PRESSIT COPPER WITH 25mm EPDM FOIL BACKED INSULATION.
- SKID TO BE INSTALLED ON A LEVEL SLAB. FOR ANY VARIATION IN FLOOR LEVEL SHIMS SHALL BE USED TO SUIT SKID NATURAL SHAPE.
- RECOMMENDED 1.2m CLEARANCE ON ALL SIDES FOR SERVICE ACCESS
- WHEN LIFTING WITH LIFT LUGS A SPREADER BAR WITH MINIMUM 2.4m WIDTH MUST BE USED TO AVOID DAMAGING THE EQUIPMENT.
- APPROXIMATE DRY WEIGHT: 990 kg
APPROXIMATE WET WEIGHT: 2,910 kg

ITEM	PART No	DESCRIPTION	QTY
6		STRUCTURAL SKID FRAME	1
5		ELECTRICAL CONTROL PANEL	1
4		EXPANSION TANK AND ACCESORIES	1
3		STIEBEL ELTRON WATER PUMP	2
2		STIEBEL ELTRON OUTDOOR TANK	2
1		STIEBEL ELTRON WPL-A 07 HEAT PUMP	2

GENERAL ARRANGEMENT DOMESTIC HOT WATER SYSTEM CM-T 22 SKID CONFIGURATION ARTICLE ID: 207792			
DWG No:	B1186-DWG-GAD-M-0002	SHEET:	1/1
REV:	A		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS
THIRD ANGLE PROJECTION
FABRICATION TOLERANCE: ± 2.0mm
MACHINED TOLERANCE: ± 0.5mm

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SIZE: A3 SCALE: N.T.S
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STIEBEL ELTRON

REV	DATE	DESCRIPTION	DRN	CHK	APP
A	13/05/2025	FIRST RELEASE	JM	TS	BR

SIZE:	SCALE:	DO NOT SCALE DRAWING
A3	N.T.S	

