

Solar Heating & Cooling

| Last Issue Date: 10/08/2021 | | Type Of Service | | | | |
|-----------------------------|---|-----------------|---|---|---|---|
| Activity | | A | B | C | D | E |
| 1 | SOLAR WATER HEATER: a) Check the temperature of water supplied from the solar assistance system. b) Check the temperature of the storage is within the expected design condition (hydronic heating or absorption). c) Refer to the site system plan for the locations. | | Y | Y | Y | Y |
| 2 | Check the condition and operation of the safety valves and devices. | | | Y | Y | Y |
| 3 | Check the condition of the solar collector panels especially for: a) Cleanliness. b) Leaks. c) Damage or deterioration. d) Integrity of fixings. e) Obscuration of collector panels by trees, debris etc. | | | Y | Y | Y |
| 4 | Check the non-return valve, pressure limiting valve and line strainer. | | | Y | Y | Y |
| 5 | Check the integrity of the tank fixings, collector and electrical connections. | | | Y | Y | Y |
| 6 | Check the closed-circuit fluid level and corrosion inhibitor within the storage tanks and heat exchanger. | | | Y | Y | Y |
| 7 | Inspect all connections. | | | Y | Y | Y |
| 8 | For gas booster units where fitted: a) Check condition of ignition mechanism and auto start. b) Check flue pathway integrity. c) Clear any debris within intake path. d) Check gas and water pipework connections. | | | Y | Y | Y |
| 9 | Record the water storage temperature and ensure it is set within the design guideline for the plant, typically greater than 63degC for hydronic heating storage and 95degC for absorption process. NOTE: Do not increase the storage temperature where this can result in damage to the hydronic pipework (For the Rehaus system normal running temperature 45degC). | | | Y | Y | Y |
| 10 | Check and purge air locks from the circulating pump, air release valves and general system. | | | Y | Y | Y |
| 11 | Check the condition of the circulating pump, associated valves, connections and seals. | | | | Y | Y |
| 12 | Replace the sacrificial anode if required. Label with a permanent marker on the external casing of the tank when the sacrificial anode was replaced. | | | | | Y |
| 13 | UNDERFLOOR HEATING SYSTEM - HYDRONIC: Check the operation of the underfloor heating system including: a) Flowrate consistency across hydronic zones. b) Flow and return water temperatures (are within design parameters - may vary between systems). c) Balancing valves. d) Damage, corrosion and leaks. | | | Y | Y | Y |

Disclaimer - This TDS is intended to provide guidance only to support Preventative Maintenance servicing activities. All TDS users are encouraged to read and understand the full [Conditions of Use](#) provided on the final page of this document and on the DPTI website.

For more information please contact the applicable Facilities Management Service Provider.



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Department of Planning,
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| | e) Check for air within the system - bleed as required. f) Check the expansion devices: diaphragm or header tank. | | | | | |
| 14 | ADSORPTION CHILLER: Check the operation including: a) Flow and return temperatures. b) Flowrate. c) Damage, deterioration and leaks. d) Refrigerant quality and quantity. e) Vacuum pump. f) Heat dissipation systems. g) Circulating pumps. Note: refer to the manufacturer's recommendations for specific service requirements. | | | Y | Y | Y |
| 15 | Record the results in the log book. | | Y | Y | Y | Y |

Special Comments and Technical Data

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- B SERVICE MONTHLY (BY SITE).
 - C SERVICE 6 MONTHLY.
 - D SERVICE ANNUAL.
 - E SERVICE:
 - CLEANING WHEN REQUIRED.
 - 4 YEAR (DEFAULT) SACRIFICIAL ANODE REPLACEMENT.

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