

Absorption Chiller - Gas Fired

Last Issue Date: 02/03/2015		Type Of Service				
Activity		A	B	C	D	E
1	Check vacuum/purge	Y	Y	Y	Y	
2	Perform air purge	Y	Y	Y	Y	
3	Check operation of flow switches		Y	Y	Y	
4	Check operation of anti freeze protection		Y	Y	Y	
5	Check operation of burner control hi-limit		Y	Y	Y	
6	Check operation of burner nozzles		Y	Y	Y	
7	Check operation of refrigerant pump		Y	Y	Y	
8	Check and record working of all safety controls. Reset the safety device as required. Check all the set points on the control panel. Check and record TRG reading of the absorbent and refrigerant pump. Check and record the current drawn by absorbent, refrigerant and purge pump. Analyse the Lithium bromide solution and maintain the corrosion inhibitor level and alkalinity. Check pH to maintain the desired parameters of lithium bromide. Check for the presence of octyl alcohol and check and maintain the cooling and chilled water quality.			Y	Y	
9	Carry out external visual inspection and check for any damage. Check the diaphragms on the diaphragm valves. Check for any scaling/slime in the condenser tubes. Carry out tube cleaning. Check and record the insulation resistance. Overhaul the purge pump and clean the moisture trap on the purge line.				Y	
10	LONG TERM SHUTDOWN Ensure there is no circulation of cooling and chilled water through the chiller. If shutdown is for one week or more, perform either; (A)Air purging weekly to maintain the required vacuum. (B)If shutdown is required for a period exceeding 3 weeks charge nitrogen gas into the chiller up to a positive pressure of 0.2 kg/cm.sq. No air purging is required in this case.					Y
11	Recordall results in log book.	Y	Y	Y	Y	Y

**Special Comments and Technical Data**

A SERVICE WEEKLY, B SERVICE MONTHLY, C SERVICE 6 MONTHLY, D SERVICE ANNUALLY AND E SERVICE AS REQUIRED

**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.



Government of South Australia  
Department of Planning,  
Transport and Infrastructure

Download Date: 04/11/2021

# Conditions of Use

A TDS should be used as a generic guide for Facilities Management Service Providers (FMSP) to deliver Facilities Maintenance Services, specifically Preventative Maintenance in accordance with the DPTI [Agency Work Procedure Manual](#).

Users of a TDS should familiarise themselves with the following **Conditions of Use**:

1. You use the information and data contained in any TDS published by DPTI at your sole risk. DPTI-AGFMA does not have the expertise to provide complete or accurate technical data schedules and provides these technical data sheets merely as a starting point and/or guide.
2. If you rely on the information in a TDS you are responsible for ensuring, by independent verification, its accuracy, currency and completeness. DPTI cannot guarantee that the information contained in a TDS meets the standards or requirements of legislative requirements.
3. A TDS is not an exhaustive list of tasks or obligations that may be required and is generally generic in nature. DPTI does not oblige the user of a TDS to rely on it to the exclusion of other sources of information. For example, manufacturer's requirements may need to be followed for additional and / or alternative tasks and for additional and / or alternative servicing frequencies. You should always check the primary source of information such as the Australian Standards, manufacturer's specifications, legislation and other standards before undertaking any work to which a schedule may apply.
4. You must apply appropriate risk management principles and carry out all tasks in accordance with obligations under the [Work Health and Safety Act 2012](#).
5. You must not use a TDS unless you meet the specific competency requirements for preventative maintenance servicing works and are capable of applying the TDS to your trade or area of expertise. A TDS is only to be used by people who are specifically instructed by DPTI to use them and only for work undertaken in South Australia.
6. DPTI, its agents, instrumentalities, officers and employees make no representations, express or implied, as to the accuracy of the information, the data contained in a TDS or the suitability of a TDS for a particular purpose.
7. DPTI does not provide legal advice. DPTI accepts no liability, howsoever arising, for any loss resulting from the use of a TDS and any information or data or reliance placed on them.
8. DPTI may change information and data in a TDS without notice.
9. DPTI may revise this disclaimer at any time by updating these Conditions of Use.