



An absorption water chiller is designed to run with specific amounts of inhibitors within a lithium bromide solution. Over time, these compounds become depleted, causing performance problems and allowing harmful chemical reactions to take place. An annual or semi-annual chemical analysis of an absorption water chiller's lithium bromide solution can help prevent costly repairs, extend the chiller's operating life, and increase its efficiency. The key to this process is Trane's Chemical Laboratory.

**Absorption  
Chiller  
Chemical  
Analysis**

**WE TEST ALL  
CHILLER MAKES**



**The Trane Chemical Laboratory has experience analyzing lithium bromide solutions from virtually all absorption chiller makes and types**



Worldwide Applied Systems Group  
The Trane Company  
3600 Pammel Creek Road  
La Crosse, WI 54601-7599  
www.trane.com

An American Standard Company

E/CTV-S-69  
New  
October 1998

Since The Trane Company has a policy of continuous product improvement, it reserves the right to change design and specification without notice.

**Absorption Chiller  
Chemical Analysis**

## The Trane Chemical Laboratory



The Trane Chemical Laboratory has been serving the HVAC industry for over 45 years. By focusing on this industry, the Trane Chemical Laboratory has developed the specialized expertise to analyze fluids ranging from oils to lithium bromide solutions. Backed by the world's leader in chiller manufacturing, the Trane Chemical Laboratory has experience analyzing lithium bromide solutions from virtually all absorption chiller makes and types.

### What Problems Can an Unbalanced Chiller Cause?

- Harmful ammonia build-up
- Corrosive attack to chiller parts
- Sludging
- Excessive suspended solids
- Clogging of the heat exchanger
- Plugging of spray nozzles
- Increase in formation of non-condensables

### What Does a Lithium Bromide Analysis Provide?

- Data on all past and present tests
- Past and present interpretations and service recommendations
- A calculation of the chemical additives needed to rebalance the chiller

Results from each analysis are provided within three working days. An express one-day analysis service is also available. The Trane Chemical Laboratory stores past sample results from your chiller so it can be used in future maintenance recommendations.

### Part of an Important Service Team

A lithium bromide analysis done by a knowledgeable lab, plus a qualified and experienced service engineer, will provide you with valuable information about the condition of your absorption chiller. We're Trane – we know chillers. The Trane Chemical Laboratory also does chemical analysis services for compressor oils and refrigerants.

### Your Contact for the Trane Chemical Laboratory Services: