

**DIRECTIONS FOR USE:**

This product must be used in accordance to the following directions by HVACR professionals only.

For best results, it is recommended that both chilled water systems and hot water heating systems (below 185°F) be charged with one gallon of Ty-Ion B20 per 100 gallons of system water, or 1000 ppm (mg/L) as nitrite. Additional product should be considered for closed hot water systems where the temperature exceeds 185°F since they can be more prone to corrosive attack. Mix one gallon of Ty-Ion B20 per 75 gallons water or 1500 ppm (mg/L) as nitrite in these circumstances. Periodically, at least once per month, the treatment residual should be checked; the residual should always be at least 1000 ppm (mg/L) as nitrite (NaNO<sub>2</sub>), and up to 1500 ppm (mg/L) in hot water systems where more B20 is required. Proceed as follows:

1. Drain and flush the system to remove all suspended matter, treatment, etc. If it is a new system, or even in an existing system, it is preferable to pre-clean the system with System Cleaner (Part Number 4370-08). System Cleaner is a heavy industrial cleaner specifically formulated to clean equipment surfaces fouled by cutting oils, grease, lubricants, corrosion products and other debris. Use one gallon of product for every 75 gallons of system water. Circulate cleaning solution for approximately 8 hours then flush system continually until flush water runs clear.
2. If the system is not new and has never been treated, corrosion has undoubtedly taken place and resulting corrosion products should be cleaned. This can be done with Ty-Ion B20 or System Cleaner. If Ty-Ion B20 is used, charge system with 2-3 gallons of Ty-Ion B20 for every 100 gallons of system water and circulate for several weeks. This additional B20 will emulsify and dissolve those deposits. At that time, the system can be drained, flushed and charged as described above based on water temperature.
3. Add the required amount of Ty-Ion B20 through a Nu-Calgon Pot Feeder or through a system manhole or other means. Concentrations of Ty-Ion B20 can be monitored utilizing an appropriate test kit. Periodic tests are necessary to ensure that Ty-Ion B20 treatment residuals are maintained at 1000 ppm or 1500 ppm (mg/L).
4. Use the Nitrite Test Kit (Part Number 4797-0).



7537-05  
(43721)

# Ty-Ion B20

## CLOSED SYSTEM TREATMENT

*Protects Chilled and Hot Water Systems  
Against Corrosion*

**Disperses Suspended Solids with Unique Dispersant**

**Extended Life Treatment**

**FOR PROFESSIONAL USE ONLY**

**5 U.S. Gallons (18.9 liters)**

**DANGER**

May be corrosive to metals. Causes severe skin burns and eye damage. Harmful if swallowed. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child.

**PREVENTION:** Keep only in original packaging. Do not breathe mist or vapour. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Absorb spillage to prevent material-damage. **RESPONSE: IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. **IF ON SKIN (OR HAIR):** Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. **IF INHALED:** remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention.

**KEEP OUT OF REACH OF CHILDREN.**



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Qty 1

**B82-049**

7537-05 Ty-Ion B20

**CHM00428**

7537-05 Ty-Ion B20



1 Each



**STORAGE:** Store in a corrosion resistant container with a resistant inner liner. Store locked up.

**DISPOSAL:** Dispose of container in accordance with local, regional, national and international regulations.

Contains (CAS#): Sodium Nitrite (7632-00-0), Sodium Tetraborate Pentahydrate (12179-04-3), Sodium Hydroxide (1310-73-2), Phenolphthalein (77-09-8).

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(219) Calgon is a licensed trade name.