

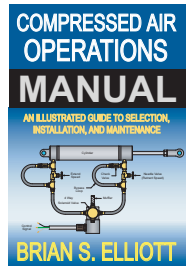
# Technical Bulletin

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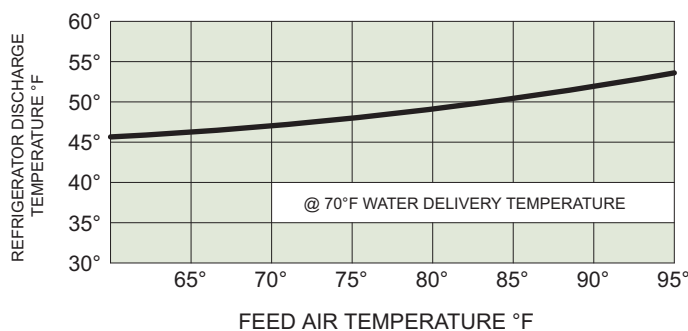
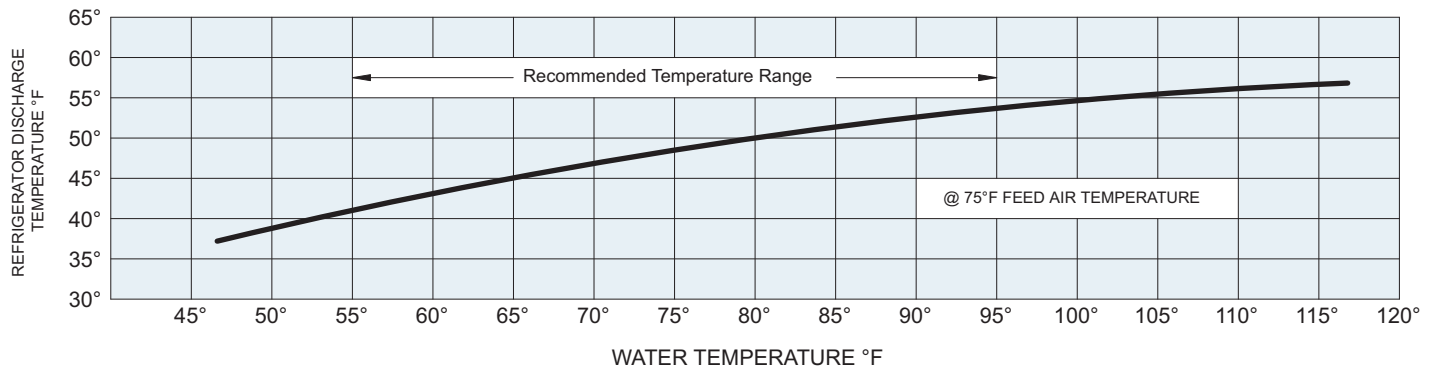
## The Effects of Air & Water Temperature on Refrigerator Discharge Temperature

Air Option's Dry Doc Series of compressed air dryers utilize ordinary tap water as their primary refrigerant. The water is injected into an expanding compressed air stream where it is flashed vaporized to produce the low temperatures required for the dryer. Fluctuations in the temperature of the water and the compressed air stream will produce some variations in the discharge temperature of the refrigerator. For general purpose compressed air applications, this does not have a significant impact on the function of the dryer. However, some customers have expressed an interest in this information, so Air Options has prepared the following charts to show the averaged effect of varying air and water temperature on discharge temperature.

Comprehensive information on compressed air systems is provided in the book "Compressed Air Operations Manual" by Brian S. Elliott, ISBN: 0-07-147526-5, published by McGraw-Hill Book Company.



Effect of Air and Water Temperature on Refrigerator Discharge Temperature



NOTE:  
AIR AND/OR WATER TEMPERATURE SHOULD NOT EXCEED 100°F  
WATER DELIVERY PRESSURE SHOULD NOT DROP BELOW 25 PSI  
WATER TEMPERATURE SHOULD NOT DROP BELOW 55°F  
AIR TEMPERATURE SHOULD NOT DROP BELOW 40°F

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