

Technical Bulletin

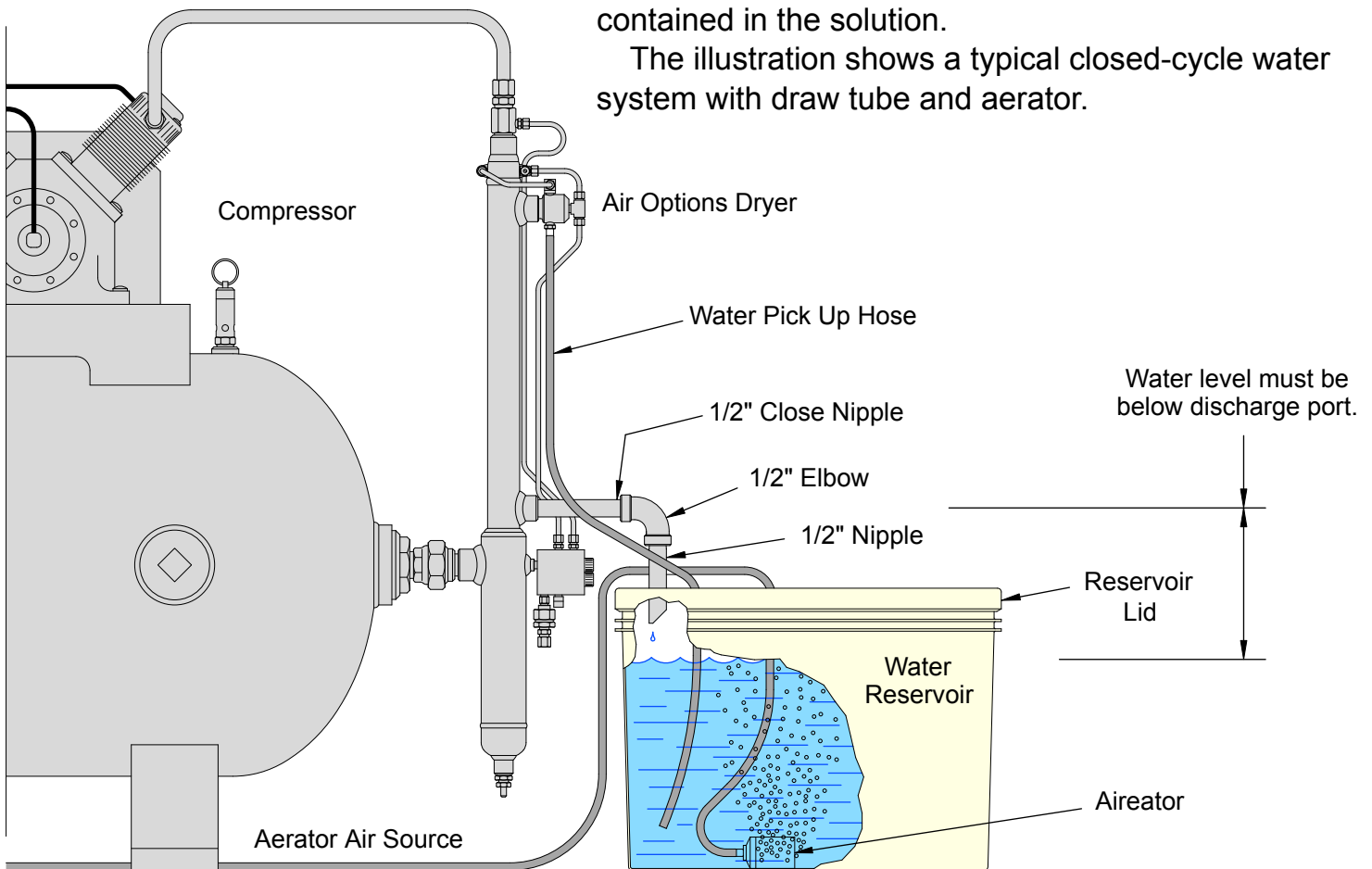
Closed Cycle Water Source for Air Options Dryers

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For some applications it may be difficult to provide running water and/or drainage facilities for the dryer. In these cases a closed water source may be utilized using the natural suction that the refrigerator generates. The water reservoir should be a plastic container that will provide 3 to 5 gallons of water capacity per compressor HP. I.E. a 5 HP compressor will require a reservoir of 15 to 25 gallons. An aerator is added to the water reserve to create a evaporative cooling effect, offsetting the warming from the recycled water.

This arraignment is not recommended for compressors over 30 HP or compressors with a duty cycle over 10-15%. It should be noted that some water loss will be experienced through evaporation. Therefore, it is important that the water level in the reservoir is routinely maintained. A corrosion inhibitor and a nonvolatile disinfectant should be added to the water. Do not use automotive antifreeze, the water orifice will be plugged up by leak sealers in the contained in the solution.

The illustration shows a typical closed-cycle water system with draw tube and aerator.



P.O. Box 35984
Houston, Texas 77235
Ph.: 713-721-9619 Fax.: 713-726-1931
E.Mail: Info@Air-Options.com

AIR-OPTIONS, INC.

Affordable Solutions for Compressed Air