

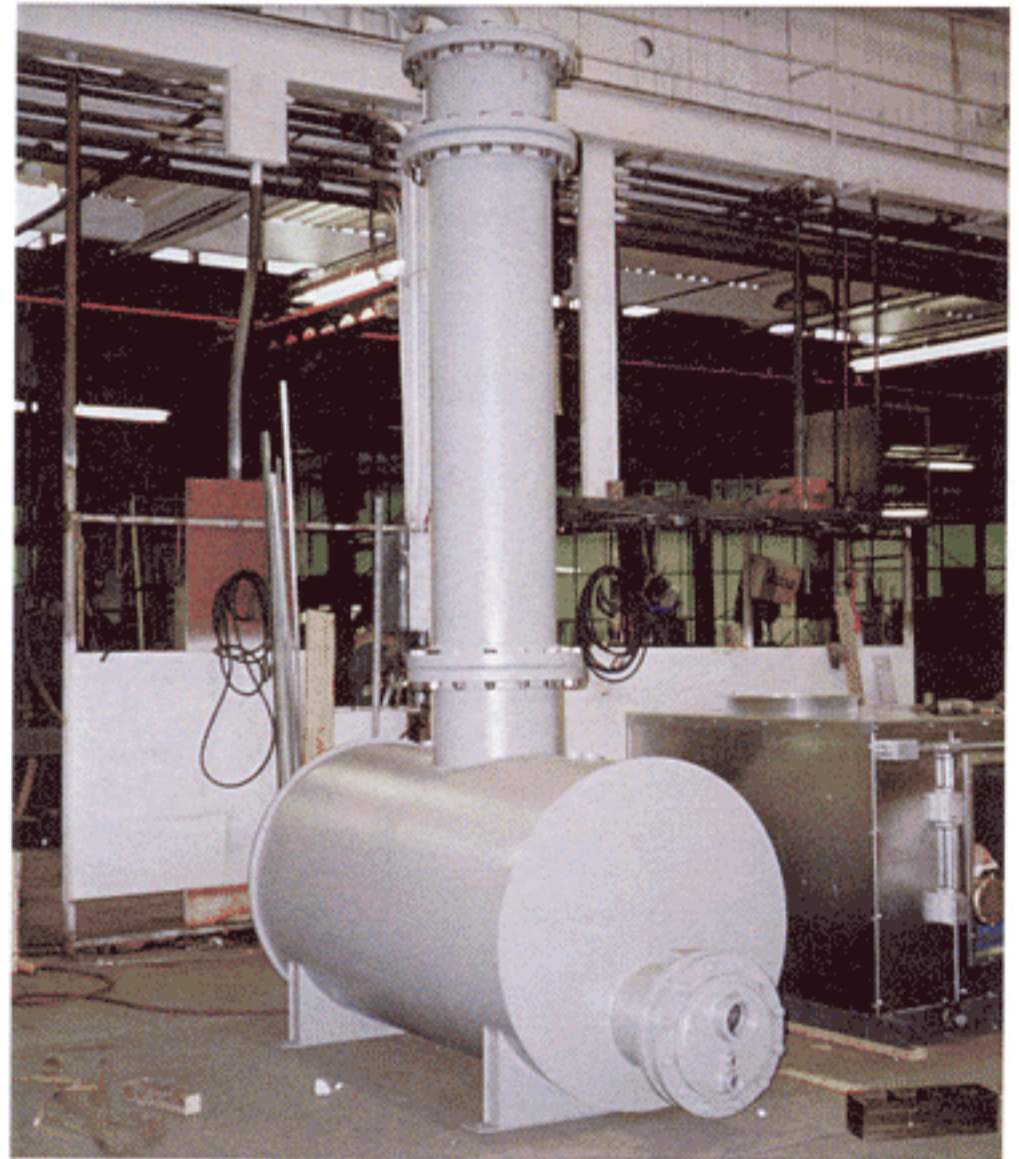
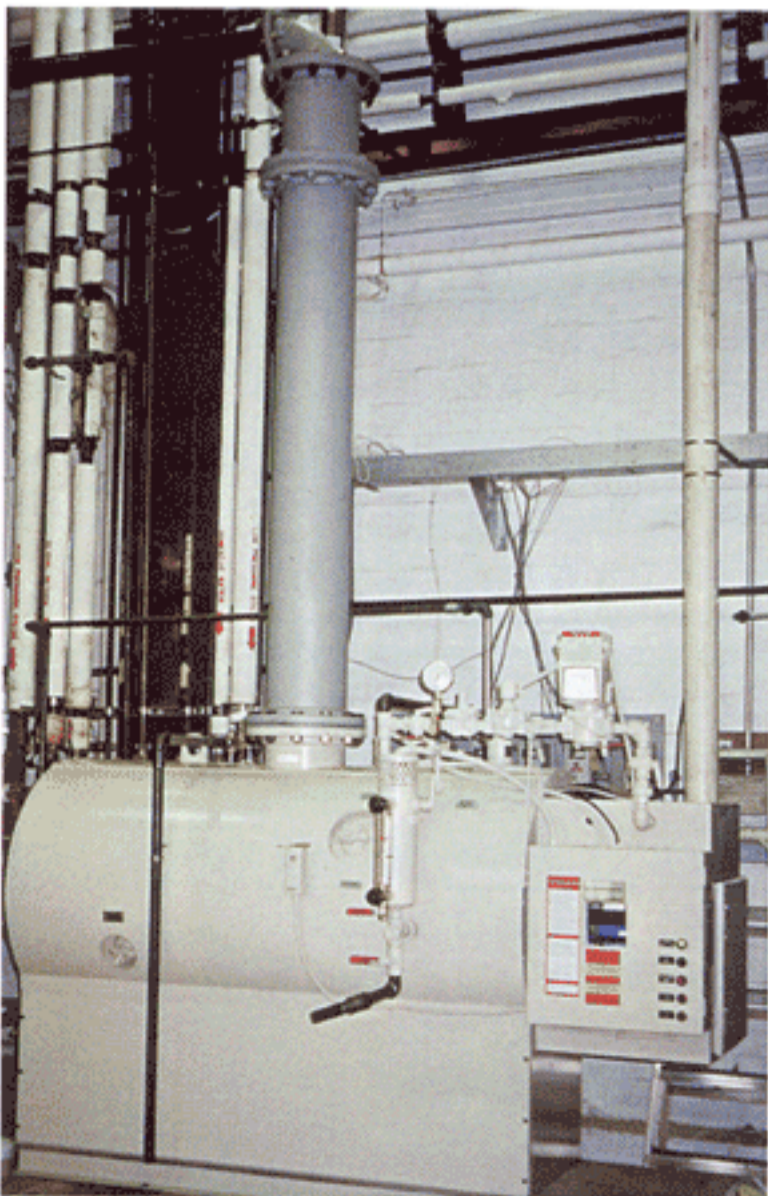


# Niagara Moisture Management Systems

**DISTILLATION COLUMN TECHNOLOGY SIGNIFICANTLY REDUCES GLYCOL USAGE AND OPERATING EXPENSES ASSOCIATED WITH NO-FROST SYSTEMS**

Distillation technology is known to be one of the most effective and efficient methods of separation in today's chemical industry. It is for this reason that Niagara Blower Company has invested over three years and two million dollars in Research and Development efforts to incorporate distillation column technology into our time tested, No-Frost system design. By employing distillation columns as No-Frost system concentrators, system coefficients of performance (C.O.P.'s) increase dramatically and glycol usage is minimized to a few gallons per year. The distillation column concentrators (DCC's) are standard with new systems and also have excellent applications as replacements for older, less efficient systems.

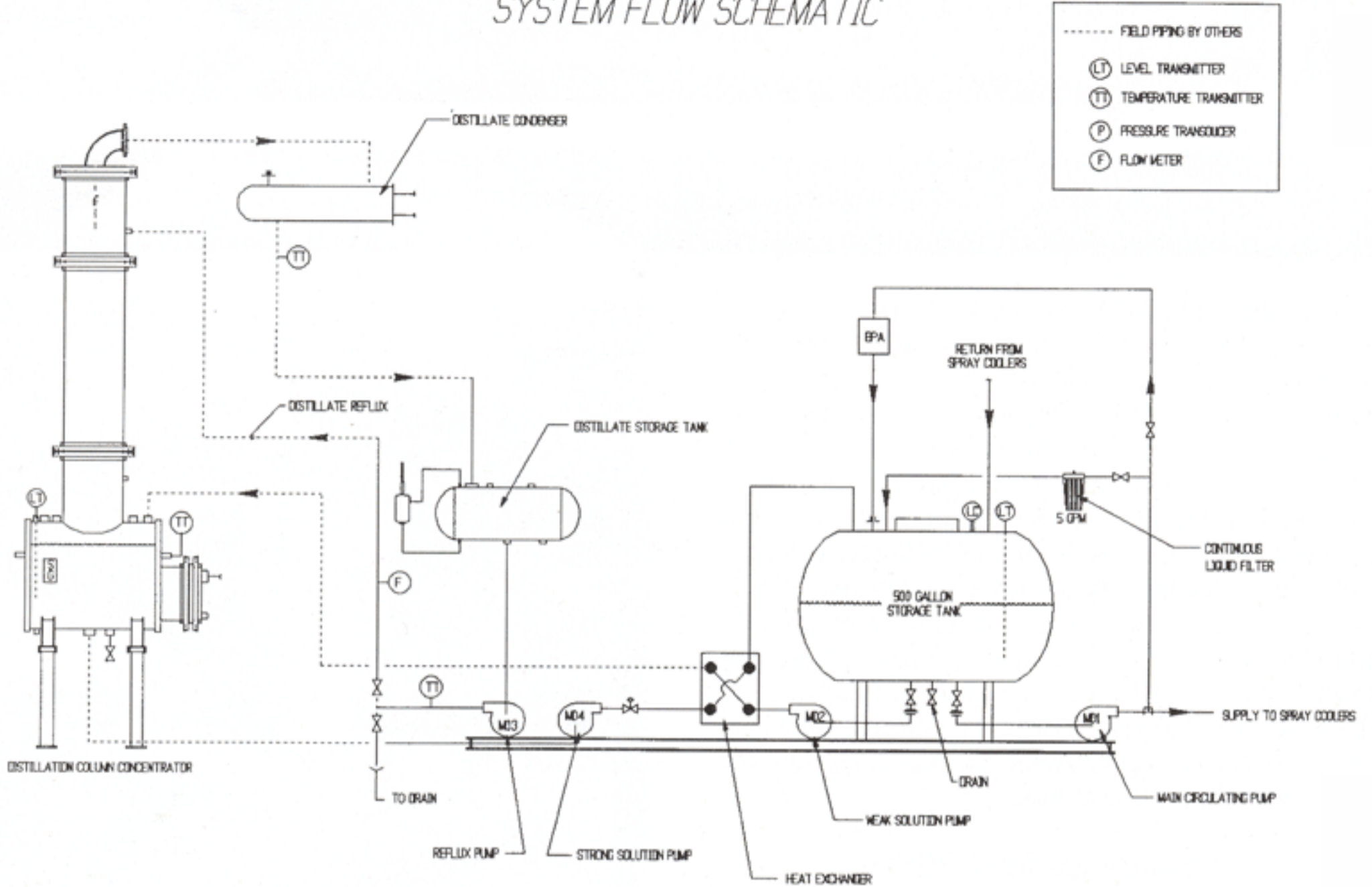
## Natural gas fired DCC



## Steam fired DCC

The distillation column concentrators (DCC's) are available in either steam fired (above) or natural gas fired (left) models. Four sizes are offered in either model ranging from a net moisture removal capacity of 100 #/Hr to 1000 #/Hr. Glycol usage associated with the distillation column is targeted at 100 ppm (0.01%) by design. For most systems this equals an annual glycol savings sufficient to provide a one to two year simple payback. In addition to semi-annual glycol liquid analysis at no charge, Niagara will also perform periodic testing of your distillate sample. This will ensure proper operating conditions and performance. Contact your district Niagara Engineer or call **1-800-426-5169** for more information.

# SYSTEM FLOW SCHEMATIC



## Savings Calculation Worksheet

- (A) Current annual glycol usage \_\_\_\_\_ gals.
- (B) Average daily concentrator run time \_\_\_\_\_ Hrs.
- (C) Current concentrator capacity \_\_\_\_\_ lbs./hr.
- (D) Estimated DCC glycol usage  $(0.0001 \times B \times C \times 365) / (8.35 \times 1.06)$  \_\_\_\_\_
- (E) Estimated annual savings  $[A-D] \times \$10.00$  \_\_\_\_\_