

# GLYCOL-PAK FLUID COOLING SYSTEMS WITH CHILLER FOR SOFT SERVE FROZEN YOGURT FREEZERS

## System Design

The AIRDYNE GLYCOL-PAK: fluid cooler with Chiller is a heat exchanger designed to operate with water cooled dispensing equipment. The hot glycol from the water cooled condenser is piped to the GLYCOL-PAK fluid cooler with chiller, whereby heat is removed from the fluid and rejected into the outside air. The cooled glycol is re-circulated as required by the water cooled equipment. The system is controlled by a thermostat to shut the fans off at a predetermined temperature on GP-4s and up. Fluid cooler is completely piped and pre-wired for low cost installation in the field.

## Benefits of Glycol-Pak with Chiller

The yogurt shop's air conditioning load is reduced as the compressor heat is not rejected into the conditioned space. The additional benefit is the dramatic savings in the water usage thus reducing the water and sewer bills. The cooled glycol is re-circulated in a closed loop circuit and never comes into contact with the outside air. There is no need for adding makeup water or the expensive maintenance and chemicals typical of open type cooling systems.

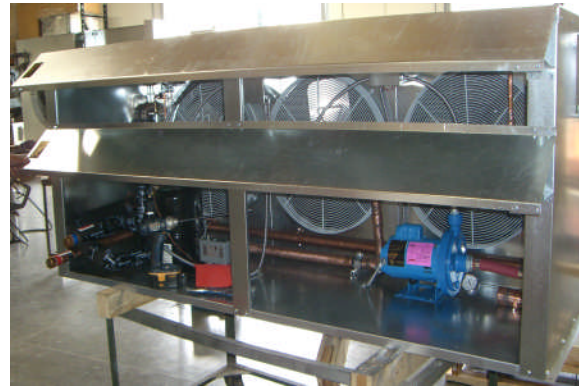
The chiller is used to drop the temperature of Glycol down to a desired temperature needed for any specific use. If the soft serve machines need return Glycol at 75° at 120°F ambient the chiller will do that. Glycol system with chiller works in high humidity and high ambient

conditions. The chiller should be purchased for locations where ambient is very hot or humid. The chiller can be used to chill the Glycol at a predetermined temperature and deliver consistent results.

## Features of the Glycol-Pak with Chiller

The system accommodates up to 12 barrels. Customer has a Choice of six standard models available from 2 to barrel soft-serve freezers for frozen yogurt/ice cream.

Each system is equipped with a durable galvanized cabinet, staggered copper tube coils with aluminum fins, centrifugal pump, fan motor assembly, thermal expansion tank with fill port, pump bypass with adjustable pressure relief valve, automatic air venting valve, fan cycle thermostat; for GP-4 & up, main fuse disconnect and fluid manifolds.



## Glycol-Pak Capabilities with Chiller

| Airdyne Model No. | No. of Soft Serve Barrels | Heat of Rejection (BTU) | Total Fluid Volume (Gal)** | Fluid Flow (GPM) | Connection Hot Fluid Inlet | (OD) Cold Fluid Outlet | L   | W  | H  | Total System Amps | Shipping Weight (lbs) |
|-------------------|---------------------------|-------------------------|----------------------------|------------------|----------------------------|------------------------|-----|----|----|-------------------|-----------------------|
| GP-1C             | 2                         | 30,000                  | 4                          | 4                | 7/8"                       | 7/8"                   | 30  | 36 | 36 | 13.5              | 500                   |
| GP-2C             | 4                         | 55,000                  | 6                          | 8                | 1 1/8"                     | 1 1/8"                 | 50  | 36 | 36 | 15.3              | 600                   |
| GP-3C             | 6                         | 81,000                  | 8                          | 10               | 1 1/8"                     | 1 1/8"                 | 50  | 36 | 36 | 16.9              | 700                   |
| GP-4C             | 8                         | 108,000                 | 10                         | 13               | 1 3/8"                     | 1 3/8"                 | 70  | 36 | 36 | 18.8              | 800                   |
| GP-5C             | 10                        | 135,000                 | 12                         | 16               | 1 5/8"                     | 1 5/8"                 | 90  | 36 | 36 | 21.3              | 985                   |
| GP-6C             | 12                        | 165,000                 | 14                         | 20               | 1 5/8"                     | 1 5/8"                 | 110 | 36 | 36 | 24.4              | 1100                  |
| GP-7C             | 14                        | 190,000                 | 15                         | 22               | 1 5/8"                     | 1 5/8"                 | 70  | 74 | 36 | 24.4              | 1300                  |
| GP-8C             | 16                        | 225,000                 | 16                         | 25               | 1 5/8"                     | 1 5/8"                 | 70  | 74 | 36 | 24.4              | 1425                  |
| GP-9C             | 18                        | 260,000                 | 18                         | 29               | 1 5/8"                     | 1 5/8"                 | 90  | 74 | 36 | 24.4              | 1450                  |
| GP-10C            | 20                        | 290,000                 | 22                         | 32               | 2 1/8"                     | 2 1/8"                 | 90  | 74 | 36 | 37.4              | 1600                  |
| GP-11C            | 22                        | 330,000                 | 26                         | 37               | 2 1/8"                     | 2 1/8"                 | 110 | 74 | 36 | 37.4              | 1600                  |
| GP-12C            | 24                        | 362,000                 | 28                         | 40               | 2 1/8"                     | 2 1/8"                 | 110 | 60 | 36 | 44.4              | 2000                  |
| GP-13C            | 26                        | 408,000                 | 30                         | 44               | 2 1/8"                     | 2 1/8"                 | 130 | 68 | 54 | 44.4              | 2000                  |

NOTES: \*Heat rejection is calculated at ambient temperature of 120° degrees Fahrenheit. \*\* (208 Volts, Single Phase, 60 Hertz)