

# 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.

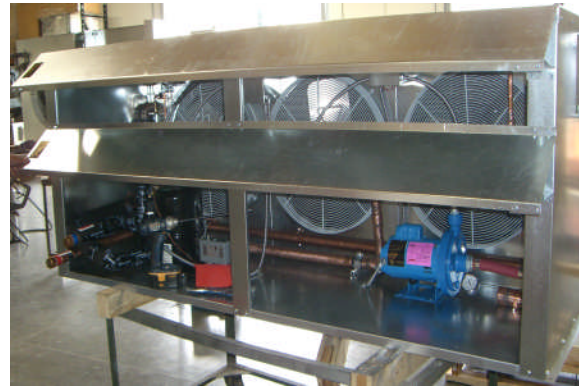
The chiller is used to drop the temperature of Glycol down to a desired temperature needed for any specific use. If the soft serve machines need return Glycol at 75° at 120°F ambient the chiller will do that. Glycol system with chiller works in high humidity and high ambient

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)