



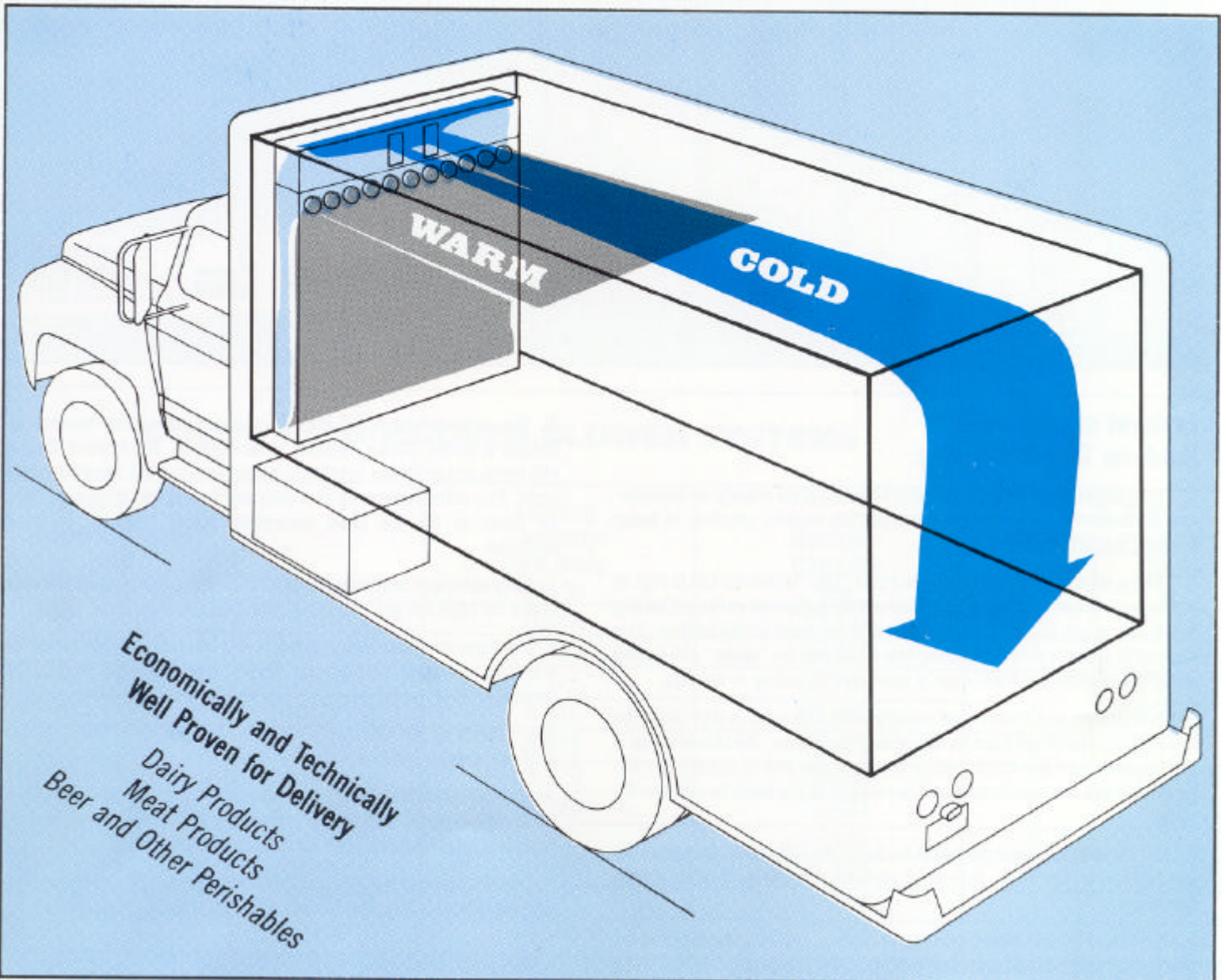
RELIABLE TRUCK REFRIGERATION SYSTEMS FOR 50+ YEARS
PROUDLY PRESENTS THE NEW ADVANCED

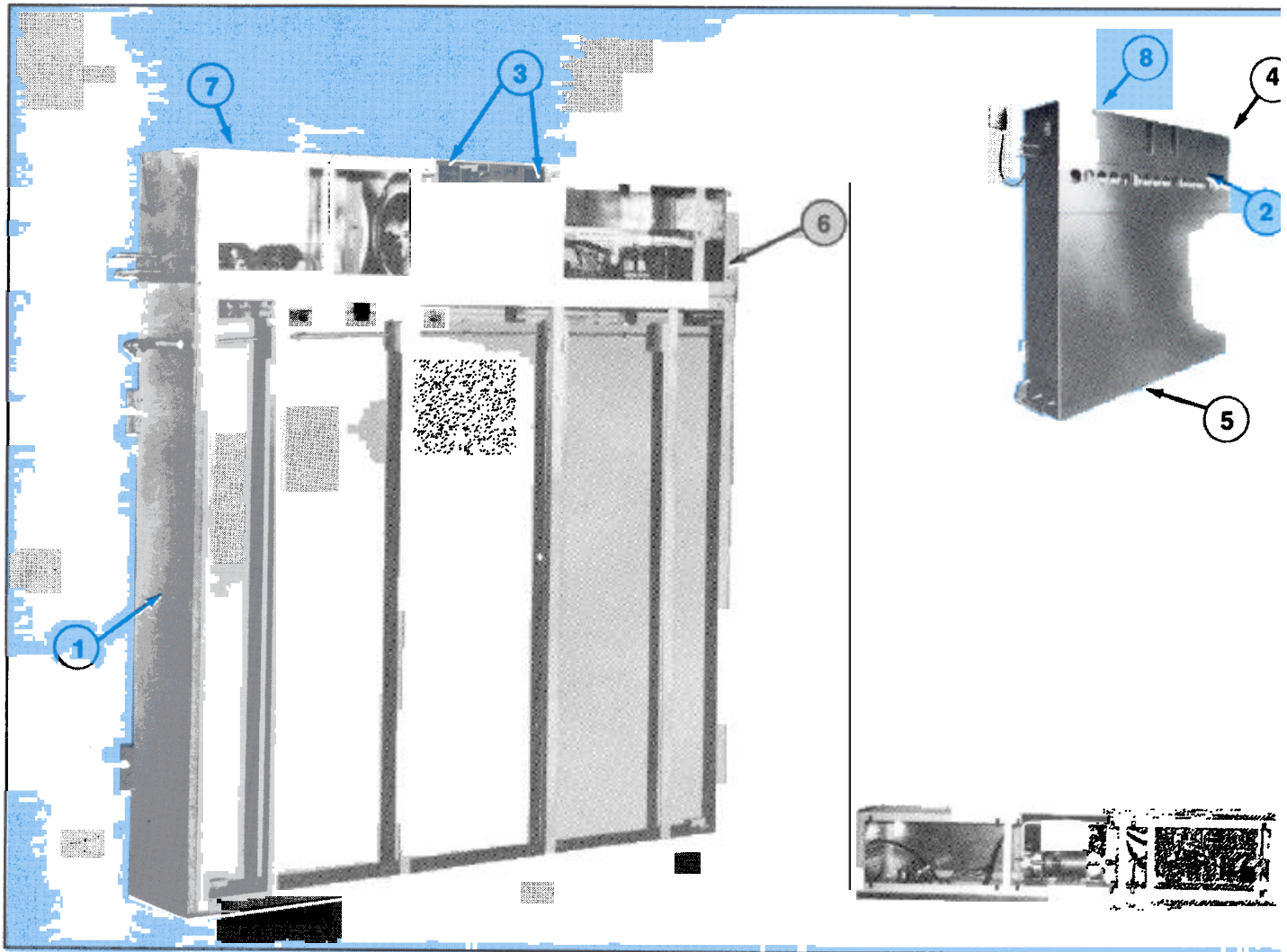
COLD-WEL[®]

WATER DEFROST & SEQUENTIAL AUTOMATIC DEFROST

HOLDOVER BLOWER SYSTEM

A uniquely patented forced-air flow pattern allows for a wide range of dependable holdover plates.





Features of COLD-WEL Holdover Blower Systems:

1. The 0 degree holdover plates provide twice the plate to body-air temperature difference when compared to competitive models, resulting in faster recovery and pull-down.
2. The top intake and discharge create a cold "trap" within the COLD-WEL to prevent gravity airflow down through and out the bottom when the circulating fan is off, unlike competitive products that are open at the bottom. This eliminates possible product freezing over night, and the "waste" of holdover refrigeration when the truck door is open during loading or delivery.
3. Dual blowers on a double shaft motor provide high velocity blast along the ceiling to the rear of the truck for full product protection. The blower motor is DC-powered from the truck battery on the route and automatically AC-powered when the condensing unit is plugged-in-dockside to refreeze the plates.
4. The air inlets are appropriately at the top of the COLD-WEL to receive the warmest air in the body. This is of particular significance after a door opening.
5. The closed bottom allows stacking of product against the exterior of the unit for full utilization of available floor area, and prevents the defrost water from flooding the floor of the truck body.

6. The water defrost COLD-WEL is equipped with water headers or flanges of plates. During dockside water hook-up, the headers flood efficiently and uniformly over the plate surfaces to wash away the frost overnight. This defrost operation is initiated and terminated manually. The air inlets at the top allow convenient visual checking of the condition.

7. Fully automatic sequential defrost COLD-WELL utilizes dual coil circulates for swift hot gas defrosting (See diagram on overleaf page).

8. The easy-to-remove panel of the blower plenum chamber makes all electrical operating components readily accessible for inspection service.

The location of the COLD-WEL System at the front of the body affords optimum weight distribution on the chassis.

The quicker reduction of the body temperature after door opening inherent in the COLD-WEL reduces blower motor operating time, total blower motor load, and total electrical load on the truck battery.

A winter heat option is available to protect against product freezing at dockside when heat is required instead of refrigeration in northern climates.



DIMENSION DATA

COLD-WEL® HOLDOVER BLOWER SYSTEMS							
COLD-WEL® Holdover Blower Unit Model	Defrost	O.A. Dimension with 1 in. Insulated cover			Removable Blower Housing Height in.	Net Weight lbs.	Shipping Weight lbs.
		Height in.	Width in.	Depth in.			
PHO-62 FX230_W	Water	73	70	12 ¹ / ₂	13	1,010	1,065
PHO-66 FX230_S	Sequential	73	70	16 ¹ / ₂	13	1,080	
PHO-70 FX230_W	Water	73	70	12 ¹ / ₂	13	1,150	
	Sequential	73	70	16 ¹ / ₂	13	1,260	
PHO-86 FX230_S	Water	73	70	12 ¹ / ₂	13	1,270	
	Sequential	73	70	16 ¹ / ₂	13	1,440	1,495
PHO-93 FX230_W	Water	73	70	16 ¹ / ₂	13	1,390	
PHO-96 FX230_S	Sequential	73	70	16 ¹ / ₂	13	1,650	
PHO-105 FX230_W	Water	73	70	16 ¹ / ₂	13	1,600	1,655
	Sequential	73	70	16 ¹ / ₂	13	1,830	1,885
PHO-117 FX230_W	Water	73	70	16 ¹ / ₂	13	1,780	1,835

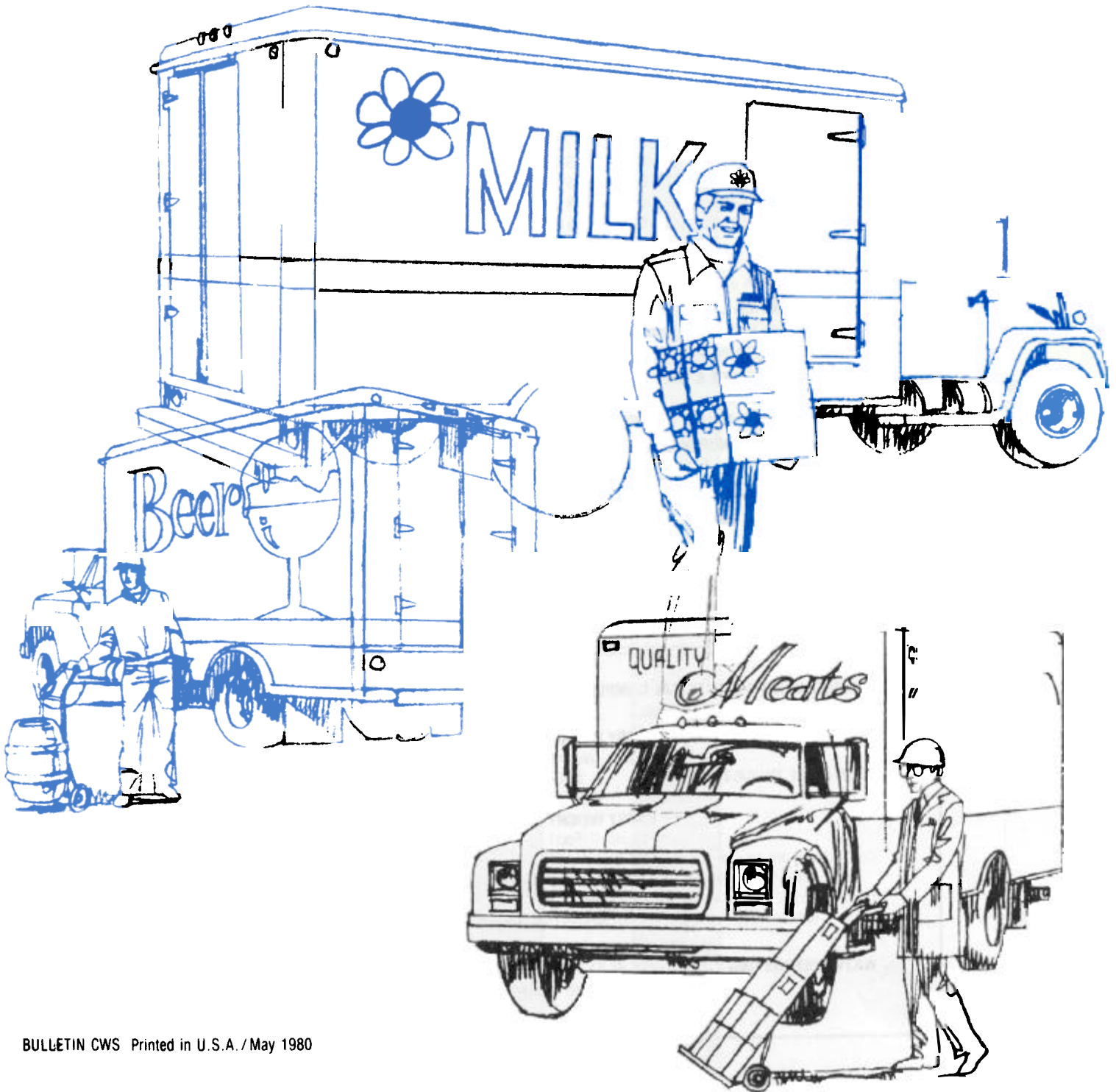
SELECTION DATA

COLD-WEL® HOLDOVER BLOWER SYSTEMS					
COLD-WEL® Holdover Blower Unit Model	Defrost	Cooling Capacity 35°F Body Btu/hr	Holdover Capacity Btu	2 ⁵ / ₈ in. 0° F Holdover Plates	
				Quantity	Size in.
PHO-62 FX230_W	Water	6,880	53,123	2	41 ¹ / ₂ X 67
PHO-66 FX230_S	Sequential	7,500	56,075	3	
	Water	7,975	60,790	2	48 ¹ / ₂ X 67
PHO-70 FX230_W	Sequential	8,910	67,880	3	35 ¹ / ₂ X 67
	Water	8,915	68,469	2	54 ¹ / ₂ X 67
PHO-86 FX230_S	Sequential	10,320	79,684	3	41 ¹ / ₂ X 67
PHO-93 FX230_W	Water	10,320	79,684	3	
PHO-96 FX230_S	Sequential	11,963	91,185	3	
PHO-105 FX230_W	Water	11,963	91,185	3	48 ¹ / ₂ X 67
PHO-106 FX230_S	Sequential	13,373	102,704	3	54 ¹ / ₂ X 67
PHO-117 FX230_W	Water	13,373	102,704	3	54 ¹ / ₂ X 67

With this Annual Cost Chart you can now compare total yearly costs of Dole's COLD-WEL with gasoline or diesel engine driven mechanical systems for refrigerating a medium-temperature delivery truck.



COLD-WEL will save you up to \$2,195 per truck per year.



ANNUAL COST OF REFRIGERATING SYSTEMS

Type of Truck: 35°F (2°C) Wholesale Delivery
 Truck Body Internal Volume: 675 to 790 Cubic Feet (19.1 to 22.4 Cubic Meters)
 Cooling Requirements:
 Southern Climate: 6,845 Btu/Hour On-the-Route;
 2,125 Btu/Hour At-Dockside
 Northern Climate: 6,110 Btu/Hour On-the-Route;
 1,855 Btu/Hour At-Dockside
 Continuous Refrigeration - 5 Days/Week:
 Southern Climate: 50 Weeks/Year
 Northern Climate: 35 Weeks/Year

INITIAL COST (6-Year Depreciation)
INSTALLED SYSTEM
BODY PREPARATION
OPTIONAL FUEL TANK (When required)
ADDED BODY LENGTH (When required to recover lost floor space)
 (\$400)/(Foot)

ENGINE OPERATING & MAINTENANCE COST
FUEL
 Southern Climate: Gasoline: (4.4 Gallons @ \$1.10/Gallon)/(10 Hours On-the-Route)
 Diesel: (2.1 Gallons @ \$1.05/Gallon)/(10 Hours On-the-Route)
 Northern Climate: Gasoline: (4.1 Gallons @ \$1.10/Gallon)/(10 Hours On-the-Route)
 Diesel: (1.9 Gallons @ \$1.05/Gallon)/(10 Hours On-the-Route)
OIL CHANGE
 Gasoline: (4 Quarts @ \$1.00/Quart + \$15.00 Labor)/(100 Hours)
 Diesel: (6 Quarts @ \$1.00/Quart + \$15.00 Labor)/(400 Hours)
DECARBONIZATION & TUNE-UP
 (\$100 Material & Labor)/(500 Hours)
 (1 out of 7 decarbonizations performed during overhaul—cost not included here)
MAJOR MAINTENANCE & OVERHAUL
 Gasoline: (\$ 750 Material & Labor)/(3,500 Hours)
 Diesel: (\$1,250 Material & Labor)/(7,500 Hours)
ACCESSORIES & MINOR MAINTENANCE
 (\$200 Material & Labor)/(2,500 Hours)

230-3-60 ELECTRIC MOTOR OPERATING COST
ELECTRICITY
 Southern Climate: COLD-WEL: (25 KWH @ \$0.06/KWH)/(14 Hours Dockside Plug-In)
 Gasoline & Diesel: (10 KWH @ \$0.06/KWH)/(14 Hours Dockside Plug-In)
 Northern Climate: COLD-WEL: (22 KWH @ \$0.06/KWH)/(14 Hours Dockside Plug-In)
 Gasoline & Diesel: (9 KWH @ \$0.06/KWH)/(14 Hours Dockside Plug-In)

OTHER COSTS
REFRIGERATION & ELECTRICAL COMPONENTS MAINTENANCE
 (\$250 Material & Labor)/(250 Days)
ADDITIONAL TRUCK FUEL
TO CARRY WEIGHT OF REFRIGERATING SYSTEM
 COLD-WEL: (Water-Defrost—1,850 Pounds; Automatic-Defrost—1,925 Pounds)
 Gasoline: (825 Pounds)
 Diesel: (1,000 Pounds)
TO CARRY WEIGHT OF ADDED BODY LENGTH (When required)
 (250 Pounds)/(Foot)
 Costs shown are for Gasoline-Powered Truck:
 (0.22 Gallon/1,000 Pounds @ \$1.10/Gallon)/(100 Miles/Day Suburban Route or 65 Miles/Day City Route)
 Costs are 35% less for Diesel-Powered Truck:
 (0.15 Gallon/1,000 Pounds @ \$1.05/Gallon)/(100 Miles/Day Suburban Route or 65 Miles/Day City Route)
WATER & SEWER CHARGES
WATER DEFROSTING (100 Gallons @ \$1.25/1,000 Gallons & Sewer Charge @ \$0.75/1,000 Gallons)/(Day)
LABOR (When required, if driver does not perform function as part of daily assignment) . .
 (\$1.50 Labor)/(Day)

TOTAL ANNUAL COST OF REFRIGERATING SYSTEM

DOLE PH080FX230CW WATER-DEFROST COLD-WEL SYSTEM		DOLE PH080FX230CA AUTOMATIC-DEFROST COLD-WEL SYSTEM		GASOLINE-ENGINE & ELECTRIC-MOTOR DRIVEN MECHANICAL SYSTEM		DIESEL-ENGINE & ELECTRIC-MOTOR DRIVEN MECHANICAL SYSTEM	
Southern Climate	Northern Climate	Southern Climate	Northern Climate	Southern Climate	Northern Climate	Southern Climate	Northern Climate
\$775	\$775	\$925	\$925	\$625	\$625	\$925	\$925
20	20	20	20	30	30	30	30
65	65	85	85	30	30	30	30
				1,210	790	550	350
				475	330	130	90
				430	300		
				535	375	415	290
				200	140	200	140
375	230	375	230	150	95	150	95
250	175	250	175	250	175	250	175
110	110	115	115	50	50	60	60
15	15	20	20				
50	35						
375	265						
\$2,035	\$1,690	\$1,790	\$1,570	\$3,985	\$2,940	\$2,740	\$2,185

This chart shows the annual cost of refrigerating a 35°F (2°C) delivery truck for milk, meat, beer & other perishables. The chart compares the cost of COLD-WEL Holdover Blower Systems (utilizing reliable, maintenance-free holdover plates) to mechanical systems (driven by a gasoline or diesel engine). The cost information presented here represents a compilation of data obtained from a survey (conducted during March and April, 1980) of Refrigerated Delivery Truck Users, Chassis & Body Builders, Refrigeration Equipment Manufacturers & Dealers, and Equipment Consultants.

Conclusion:

COLD-WEL will save you . . .

Northern Climate:

\$615 to \$1,370 per truck per year

Southern Climate:

\$950 to \$2,195 per truck per year

In addition to extensive savings in maintenance costs, COLD-WEL has many other significant advantages:

- COLD-WEL** refrigerates with fan-circulated air over maintenance-free holdover plates which have proven to be effective and reliable for over 40 years.
- COLD-WEL** will continue to perform efficiently many years beyond expected or normal depreciation schedules. (See comparison chart available).
- COLD-WEL** eliminates the special perplexing problems of gasoline or diesel engine operation and maintenance.
- COLD-WEL** virtually eliminates maintenance downtime less aggravation and no need for spare trucks.
- COLD-WEL** gives you a choice of 9 different capacity models so pay only for the refrigeration required. The holdover plates are sized to match the cooling requirements of the truck bodies from 8 to 25 feet in length or in smaller trailers.
- COLD-WEL** holdover plates are frozen quietly at night with electricity at favorable off-peak utility rates.
- COLD-WEL** provides clear floor-to ceiling . . . no dolly cart or pallet load interference.
- COLD-WEL** reduces driver fatigue by eliminating overhead vibration and noise.
- COLD-WEL** eliminates air and noise pollution produced by the gasoline or diesel engine.
- COLD-WEL** uses less fossil fuel energy . . .
58% less than a gasoline-engine driven system
30% less than a diesel-engine driven system.
- COLD-WEL** thermostatically controlled operation achieves rapid temperature pull-down on the route and permits variation in body temperature as the product demands.

DOLE PUT IT ALL TOGETHER.

Efficient operation • Durability • Economy • Reliability • Pollution-free • Low maintenance

Contact the "DOLE COLD LINE" 1-800-251-8990

**Dole Engineers Can Advise You How To Save Money
And Still Maintain Your Product Quality And Integrity.**

(Savings Chart Available On Request)



DOLE REFRIGERATING COMPANY

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