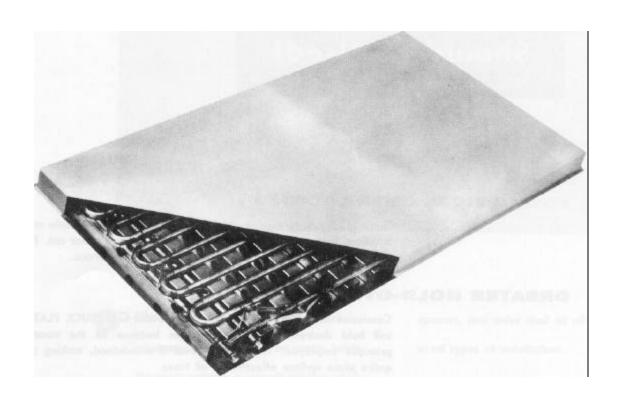
JANUARY 1991 Cold-Cel HOLDOVER TRUCK PLATES

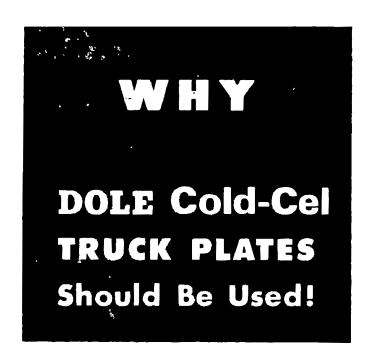




Cold_®Cel IMPROVED HOLDOVER TRUCK PLATES

ENGINEERED TO MAINTAIN
ANY TEMPERATURE REQUIRED THROUGHOUT THE TRIP!

DOLE continues to pioneer in the truck refrigeration field thus always assuring you of the finest in quality and the most in service for your refrigeration dollar. Many years of excellent service and the increasing growth of DOLE users have continued to prove DOLE as one of the leaders in mobile refrigeration equipment. There is no substitute for experience, dependability and value.



ECONOMICAL OPERATION:

There is no maintenance necessary because of rugged simple construction. There are no moving parts and nothing to wear out. The heavy rust-proof zinc finish assures many years of service.

GREATER HOLD-OVER VALUES:

Conclusive tests have shown that DOLE **Cold-Cel** TRUCK PLATES will hold desired temperatures longer because of the vacuum principle employed. The solution level is maintained, making the entire plate surface effective at all times.

QUICKER PULL-DOWN:

Because of DOLE'S exclusive construction and vacuum principle the coils contact the surface of the plate and thus provide for better heat transfer through conduction—hence quicker pull-down.

MORE PLATE SURFACE:

Actual measurements show that **Cold-Cel** TRUCK PLATES have more effective refrigerating surface than any other plate made.

EASE OF INSTALLATION:

DOLE'S new four-fitting **Cold-Cel** TRUCK PLATE assures easy installations with a minimum of piping and connections.

WIDE RANGE OF STANDARD SIZES:

The sizes of **Cold-Cel**TRUCK PLATES have been especially selected to fit the standard body sizes of most manufacturers—thus assuring engineered equipment for modern food transportation.

Cold Cel HOLDOVER TRUCK PLATES





The outside steel shell or jacket encloses continuous steel tubing. The space inside the plate contains a eutectic solution which is under a vacuum.

Finned spacers break the frozen eutectic solution into many cubes thus bringing the outer plate temperature close to the refrigerant temperature.

DOLE'S vacuum principle makes positive metal to metal contact between the coil,

spacers, and outer shell at all times and in all types of installations.

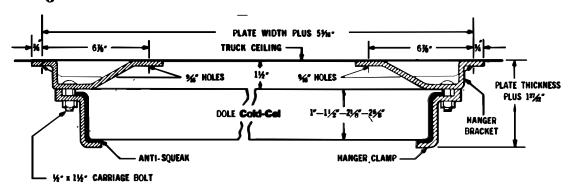
- Note that DOLE'S four connection plates allow for easy installations in all types of bodies.
- DOLE'S rugged construction and heavy zinc finish gives the plates long life which has been proven over and over again.

 Plates which were installed in the 30's are still giving excellent service.

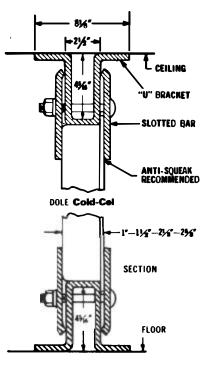


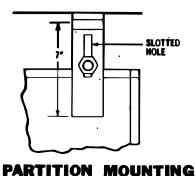
TRUCK PLATE INSTALLATION DETAILS

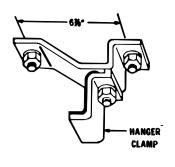
Cold Cel Truck Plate Hanger Installation



HORIZONTAL MOUNTING

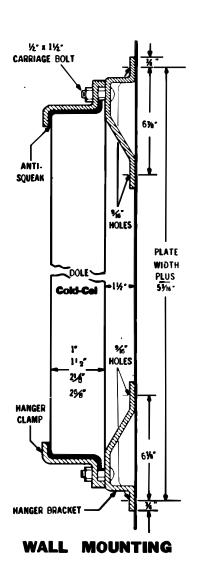






HANGER BRACKET





Cold-Cel HOLDOVER TRUCK PLATES



Cold: Ca TRUCK PLATE SPEC FICAT ONS

DOLE COLD-CEL MOLDOVER TRUCK PLATER

2096C 20x96x2-5/8 273 30.8 77.0 61.6 16.264 14.492 2012OC 20x120x2-5/8 342 38.4 96.0 76.8 22.878 16.153 2430C 24x30x2-5/8 141 16.3 40.8 32.6 9.542 7.571 2448C 24x42x2-5/8 162 18.6 46.5 37.2 10.938 8.679 2448C 24x54x2-5/8 162 18.6 46.5 37.2 10.938 8.679 2486C 24x65x2-5/8 203 23.0 57.5 46.0 13.963 11.079 2480C 24x80x2-5/8 272 30.4 76.0 60.8 18.385 14.588 2412OC 24x120x2-5/8 328 36.3 90.8 72.6 22.109 17.543 2414C 24x120x2-5/8 411 45.2 110.0 90.4 27.695 21.975 2414C 24x120x2-5/8 544 14.52 110.0 90.4 27.695 21.975 2414C 24x144x2-5/8 494 54.1 135.3 108.2 33.280 26.406 24x160x2-5/8 549 60.0 150.0 120.0 37.004 29.361 2758C 27x58x2-5/8 221 24.8 62.0 49.6 14.996 11.898 3060C 30x60x2-5/8 254 28.2 70.5 56.4 17.313 13.737 3060C 30x66x2-5/8 514 55.4 136.5 110.8 34.919 27.707 3650C 36x50x2-5/8 337 36.6 91.5 73.2 23.020 18.265 3666C 36x60x2-5/8 337 36.6 91.5 73.2 23.020 18.265 3666C 36x60x2-5/8 493 52.7 131.8 105.4 33.644 26.695 4666C 46x60x2-5/8 430 46.2 115.5 92.4 29.597 23.494 4680C 46x60x2-5/8 430 46.2 115.5 92.4 29.597 23.494 4680C 46x60x2-5/8 430 46.2 115.5 92.4 29.597 23.494 4680C 46x60x2-5/8 430 46.2 115.5 92.4 29.597 23.694 4680C 46x60x2-5/8 430 46.2 115.5 92.4 29.597 23.694 2442D 24x42x2-1/8 169 18.1 45.3 36.2 8.589 6.815 2442D 24x42x2-1/8 69 9.4 23.5 18.8 4.167 3.322 2442D 24x42x2-1/8 169 18.1 45.3 36.2 8.589 6.815 2448D 24x42x2-1/8 140 18.1 45.3 36.2 8.589 6.815 2448D 24x42x2-1/8 140 18.1 45.3 36.2 8.589 6.815 2448D 24x42x2-1/8 236 29.7 74.3 59.4 14.438 11.456 24410D 24x160x2-1/8 36.8 39.8 31.8 71.0 71.760 24410D 24x160x2-1/8 36.5 37.5 38	[Арргон.	Plate	Cooling Capacity		Holdover Capacity*			
	Model	Plate Size		Surface	Medium	Low Temp	+18°F	_18°F		
1856F		inchee	lha .	en fe	•	Ben//hel/El	Bea.	Bêna		
1832C	18 54 F							-		
1856C										
1886C 18x66x2-8-/8 168 19.5 48.8 39.0 11.181 8月71 1872C 18x72x2-5-78 193 21.2 53.0 42.4 12.213 9.590 1884C 18x84x2-5-/8 214 24.6 61.5 49.2 14.277 11.328 2024C 20x46x2-5-/8 152 17.6 44.0 35.2 10.189 8.085 2066C 20x66x2-5-/8 152 17.6 44.0 35.2 10.189 8.085 2066C 20x66x2-5-/8 152 17.6 44.0 35.2 10.189 8.085 2076C 20x76x2-5-/8 215 24.5 61.3 49.0 14.419 11.441 2084C 20x26x2-5-/8 215 24.5 61.3 49.0 14.419 11.441 2084C 20x26x2-5-/8 255 26.9 72.3 57.8 17.110 13.576 2096C 20x96x2-5-/8 255 26.9 72.3 57.8 17.110 13.576 2096C 20x96x2-5-/8 342 38.4 96.0 76.8 22.878 18.153 2432C 20x20x2-5-/8 342 38.4 96.0 76.8 22.878 18.153 2432C 20x20x2-5-/8 342 38.4 96.0 76.8 22.878 18.153 2432C 20x20x2-5-/8 141 16.3 40.8 32.6 9.542 7.571 2448C 24x26x2-5-/8 162 18.6 46.5 37.2 10.938 8.679 24842C 24x62x2-5-/8 162 18.6 46.5 37.2 10.938 8.679 24842C 24x62x2-5-/8 162 18.6 46.5 37.2 10.938 8.679 24840C 24x60x2-5-/8 203 23.0 57.5 46.0 13.963 11.079 2480C 24x60x2-5-/8 328 36.3 90.8 72.6 22.109 17.543 2449C 24x160x2-5-/8 328 36.3 90.8 72.6 22.109 17.543 2449C 24x160x2-5-/8 328 36.3 90.8 72.6 22.109 17.543 24410C 24x160x2-5-/8 328 36.3 90.8 72.6 22.109 17.543 24140C 24x160x2-5-/8 328 36.3 90.8 72.6 22.109 17.543 24140C 24x160x2-5-/8 349 60.0 150.0 120.0 37.004 29.361 2758C 24x160x2-5-/8 349 60.0 150.0 120.0 37.004 29.361 2758C 24x160x2-5-/8 349 60.0 150.0 120.0 37.004 29.361 2758C 24x160x2-5-/8 241 60.0 13.963 11.079 3650C 36x60x2-5-/8 253 28.1 70.3 56.2 17.353 13.769 3660C 36x60x2-5-/8 358 305 30.8 70.5 56.2 17.353 13.769 3660C 36x60x2-5-/8 359 30.9 77.3 61.8 19.073 15.134 30120C 30x160x2-5-/8 251 24.8 62.0 49.6 14.996 17.593 3660C 36x60x2-5-/8 359 30.9 77.3 61.8 19.073 15.134 30120C 30x160x2-5-/8 359 30.9 77.5 68.8 6.9 10.0 30x160x2-5-/8 30.5 30.8 50.2 5.8 5.9 30.9 30.8 50.2 5.										
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3674D 36x74x2-1/8 327 40.2 100.5 80.4 20,302 16,109	3650D									
	4680D									

20150	1000	Арргон.		Cooling	Capacity	Holdover Capacity*		
Model	Plate Size	Net Weight	Surface	Medium Temp	Low Temp	+18°F	-18'F	
	inches	lbs	eq ft	Btu/(hr)(F)	Btu/(hr)(F)	Btu	Btu	
3378G	33x78x1-3/4	290	38.4	96.0	76.8	15,579	12,361	
3390G	33x90x1-3/4	330	44.2	110.5	88.4	18,007	14,287	
33102G	33x102x1-3/4	370	50.0	125.0	100.0	20,434	16,214	
33114G	33x114x1-3/4	410	55.8	139.5	111.6	22,862	18,140	
1854B	18x54x1-1/2	96	15.0	37.5	30.0	4,728	3.75	
2430B	24x30x1-1/2	69	11.1	27.8	22.2	3,500	2,77	
2460B	24x60x1-1/2	142	21.7	54.3	43.4	7,122	5,65	
241208	24x120x1-1/2	288	43.0	107.5	86.0	14,365	11,398	
2758B	27x58x1-1/2	154	23.5	58.8	47.0	7,778	8,17	
3060B	30x60x1-1/2	177	26.8	67.0	53.6	8,980	7,125	
3066B	30x66x1-1/2	195	29.5	73.8	59.0	9,893	7.850	
30120B	30x120x1-1/2	359	53.1	132.8	106.2	18,112	14,37	
3666B	36x66x1-1/2	234	35.1	87.8	70.2	11,940	9,47	
2460A	24x60x1	115	21.1	52.8	42.2	4,190	3,325	
24120A	24x120x1	233	42.0	105.0	84.0	8,452	6,706	
2758A	27x58x1	125	22.9	57.3	45.8	4,576	3,63	
3060A	30x60x1	143	26.2	65.5	52.4	5,283	4,193	
3066A	30x66x1	158	28.8	72.0	57.6	5.821	4,611	
30120A	30x120x1	290	52.1	130.3	104.2	10,657	8,45	
3666A	36x66x1	189	34.4	86.0	68.8	7,025	5,57	
2460E	24x60x3/4	89	20.9	52.3	41.8	2.948	2,335	
24120E	24x120x3/4	180	41.5	103.8	83.0	5,946	4,711	
2758E	27x58x3/4	97	22.6	56.5	45.2	3.219	2,55	
3060E	30x50x3/4	111	25.9	64.8	51.8	3.717	2,94	
3066E	30x66x3/4	123	28.5	71.3	57.0	4.095	3,24	
30120E	30x120x3/4	225	51.5	128.8	103.0	7,497	5,94	
3378E	33x78x3/4	160	36.9	92.3	73.8	5.353	4,24	
3390E	33x90x3/4	185	42.5	106.3	85.0	6,187	4,90	
33102E	33x102x3/4	210	48.1	120.3	96.2	7.022	5,57	
33114E	33x114x3/4	235	53.8	134.5	107.6	7,856	6,23	
3666E	36x56x3/4	147	34.0	85.0	68.0	4,942	3,92	
V3018D	30x18x2-1/8	65	8.9	22.3	17.8	3,917	3,10	
V3618D	36x18x2-1/8	78	10.5	26.3	21.0	4,727	3,75	
V4218D	42x18x2-1/8	92	12.2	30.5	24.4	5,538	4,394	
V4220D	42x20x2-1/8	102	13.4	33.5	26.8	6,190	4,91	
V4236D	42x36x2-1/8	183	23.2	58.0	46.4	11,402	9,047	
V5424D	54x24x2-1/8	158	20.2	50.5	40.4	9.686	7,68	
V6024D	60×24×2-1/8	176	22.4	56.0	44.8	10,782	8,555	
V2418B	24x18x1-1/2	41	6.8	17.0	13.6	2,052	1,628	
V3018B	30x18x1-1/2	52	8.5	21.3	17.0	2,587	2,053	
V3618B	36x18x1-1/2	63	10.1	25.3	20.2	3,122	2,477	
V4218B	42×18×1-1/2	74	11.7	29.3	23.4	3,658	2,902	
V4818B	48x18x1-1/2	85	13.3	33.3	26.6	4,193	3,32	

Capac Capac

Holdove Capac Holdove Capacity

PLAT

+18°F 2-1	1/8" Holdover	Truck Plates	-18°F 2-1/8" Holdover Truck Pletes					
	iuriace ft	Copeland R-12 Condensing Unit	Plate S		Copeland R-502 Condensing Unit			
for 8 hr min plug-in	for 10 hr min plug-in	Model	for 8 hr min plug-in	for 10 hr min plug-in	Model			
up to 55 55 to 80 80 to 125 125 to 160 160 to 225	70 to 100 100 to 155 155 to 195	one TSAM-0075 one TSAM-0100 one TFAM-0150 one TFAM-0200 one TFAM-0300	50 to 95	70 to 125 125 to 150 150 to 235 235 to 250 250 to 300	one T2AL-0100 one T3AL-0150 one T4AL-0200 one T5AL-0300 two T3AL-0150 two T4AL-0200 one T2AL-0500 two T5AL-0300			

lug-_ ce heat table (based on factor) is Here

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and manding body heat quality of insulation,

guarante

How To Calculate DOLE Cold Cel

New and improved insulations and insulating methods, body construction and changes in loading and delivery patterns have created the need for a more accurate method of calculating holdover truck plates than was acceptable a few years ago. The following presents such a method giving consideration to the latest practice in body construction and usage.

The main difference between this and former methods is in the determination of the service heat gain, now calculated on the basis of the interior cubical content, instead of a percentage of the wall heat leakage. This is the only additional calculation required to those formerly needed. Instructions accompany each table and allow calculations to be easily summarized and tabulated.

TABLE I gives the btu/hr leakage (wall gain) load for hi_temp and lo temp bodies for 115° (Southwest), 100° (South) and 90° (North) outside design air temperature and for various thicknesses of insulation. Temperature difference is already taken into consideration so multiplying the proper factor by the number of square feet outside area of the body, or body section, gives the desired result. The amount of plate surface necessary to handle the hourly wall heat gain may be obtained by multiplying

the "Plate" factor by the same figure.

TABLE II gives the service heat gain and plate required to handle it, obtained in similar manner except using the number of cubic feet internal volume as a multiplier.

TABLE III gives the factor by which the result from TABLE II is multiplied if Service is greater than light.

The actual plate sizes are determined from page 7 in accordance with the total requirements from TABLES I and II and from the configuration of the truck body dimensions, door locations, etc. The total effective holdover available is also found on page 7. Holdover time in hours is the result of this figure divided by total hourly gain from TABLES I, II and III.

Required hourly compressor capacity in btu is the sum of the hourly wall heat gain (TABLE I) multiplied by 24 (hours) and the service heat gain multiplied by the number of hours the vehicle is on the road, divided by the number of hours of plug-in time available. The horsepower of the corresponding unit is found in TABLE IV.

Actual plug-in time is the total daily load found in the preceding paragraph divided by compressor capacity (TABLE IV).

TABLE I
WALL HEAT GAIN (Btu/hr) AND REQUIRED PLATE SURFACE per sq ft Outside Area

Urethane Foam	Lo To	Lo Temp Bodies (0°) -18° Solution							Hi Temp Bodies (38°) +18°					
Insulation Thickness (1)	Outside Air Design Temperature													
in.	11	5°	. 10)O°	9	0°	11	5°	10)0°	90	0°		
	Btu/hr	Plate	Btu/hr	Plate	Btu/hr	Plate	Btu/hr	Plate	Btu/hr	Plate	Btu/hr	Plate		
3							4.72	.118	3.80	.095	3.19	.080		
3 1/2			•				4.05	.101	3.26	.082	2.73	.068		
4	5.29	.147	4.60	.128	4.14	.115	3.54	.089	2.85	.071.	2.39	.060		
4 1/2	4.70	.131	4.09	.114	3.68	.102	For Part	ition L	eakage b	etwee	n high an	d low		
5	4.24	.118	3.68	.102	3.32	.092								
6	3.53	.098	3.07	.085										

USE OF TABLE: To determine HOURLY HEAT GAIN through walls, floor and roof of body, multiply the figure in the "Btu/hr" column under the appropriate outside design temperature and in line with the thickness of insulation by the NUMBER OF SQUARE FEET OF OUTSIDE AREA of the body.

To determine the SQUARE FEET OF EFFECTIVE PLATE SURFACE for THIS PORTION OF THE TOTAL LOAD, multiply the corresponding figure under the "Plate" heading by the number of square feet of outside area.

IMPORTANT: These figures ARE TO BE ADDED to the corresponding results from Table II to get TOTAL HOURLY Btu LOADS AND PLATE REQUIREMENTS.

(1) Based on body heat leak coefficient = $(0.16 \text{ Btu})/(\text{hr})(\text{sq ft})(\text{F/in.}) \times (1.15 \text{ Framing Factor})$ = (0.184 Btu)/(hr)(sq ft)(F/in.)

TRUCK PLATE Requirements



TABLE II
SERVICE HEAT GAIN (Btu/hr) AND REQUIRED PLATE SURFACE per cu ft Inside Volume

_	Lo To	odies (0	Hi Temp Bodies (38°) +18°									
Internal Volume of	Outside Design Temperatures											
Body-Cu ft	11	5°	10	00°	90	0°	115°		100°		90°	
_	Btu/hr	Plate	Btu/hr	Plate	Btu/hr	Plate	Btu/hr	Plate	Btu/hr	Plate	Btu/hr	Plate
To 120 Cu ft	11.5 0	.320	10.00	. 27 8	9.00	.250	7.70	.193	6.20	.155		
To 130 Cu ft	10.35	.288	9.00	. 25 0	8.10	.225	6.93	.173	5.58	.140		.117
To 150 Cu ft	9.20	.255	8.00	.222	7.20	.200	6.16	.154	4.96	.124	4.16	.104
To 200 Cu ft	8.0 5	.223	7.00	.194	6.30	.175	5.39	.135	4.34	.109	3.64	.091
To 250 Cu ft	7.48	.208	6.5 0	.181	5.85	.163	5.00	.125	4.03	.101	3.38	.085
To 300 Cu ft	6.90	.192	6.00	.167	5.40	.150	4.62	.116	3.72	.093	3.12	.078
To 375 Cuft	6.33	.176	5.5 0	.153	4.95	.1 3 8	4.24	.106	3.41	.085	2.86	.072
To 475 Cu ft	5.75	.160	5 .00	.139	4.50	.125	3.85	.096	3.10	.078	2.60	.065
To 625 Cuft	5 .18	.144	4.5 0	.125	4.05	.113	3.47	.087	2.79	.070	2.34	.059
To 800 Cu ft	4.83	.135	4.20	.117	3.78	.105	3.23	.081	2.60	.065	2.18	.055
To 1000 Cu ft	4.60	.128	4.00	.111	3.60	.100	3.08	.077	2.48	.062	2.08	.052
To 1200 Cu ft	4.49	.124	3.90	.108	3.51	.097	3.00	.075	2.42	.061	2.03	.051
To 1500 Cu ft	4.37	.122	3 .80	.106	3.42	.095	2.93	.073	2.36	.059	1.98	.050
To 1800 Cu ft	4.26	.118	3.70	.103	3.33	.093	2.85	.071	2.29	.057	1.92	.048
<u>To 2200</u> Cu ft	4.14	.115	3.60	.100	3.24	.090	2.77	.069	2.23	.056	_1.87	.047

Above figures apply for "Light" Service as defined. See Table III for multipliers for other types of Service.

USE OF TABLE: To determine HOURLY HEAT GAIN from service, such as door openings, infiltration etc., multiply the "Btu/hr" figure under the appropriate outside design temperature and in line with the cubic volume figure equal to or less than actual by the **actual** NUMBER OF CUBIC FEET contained in the body.

To determine SQUARE FEET OF EFFECTIVE PLATE SURFACE required for THIS PORTION OF THE TOTAL LOAD, multiply the corresponding figure under the "Plate" heading by the NUMBER OF CUBIC FEET contained in the body.

IMPORTANT: These figures ARE TO BE ADDED to the corresponding results from Table I to get TOTAL HOURLY Btu LOADS and PLATE REQUIREMENTS.

TABLE III

MULTIPLIERS FOR VARYING SERVICE CONDITIONS DETERMINED BY USE OF TABLE II

Type of Service	Holdover Plates
	1.00
Medium	1.50
Heavy	2.00

LIGHT SERVICE is defined as—routes with only a few major drop offs.

MEDIUM SERVICE is defined as—50% more. Routes with less than four 4 minute door openings per hour.

HEAVY SERVICE is defined as—100% more. Routes with four or more 2 minute door openings per hour.

MOTE: For portal to portal delivery where actual door openings are not a factor, use Table I only, increasing the results obtained by 25% to compensate for infiltration of outside air into the body due to the air ram effect on the nose of the truck when travelling at relatively high speeds on the open road.

USE OF TABLE: If service is greater than light as defined, multiply "Service Heat Gain" by corresponding factor from Table III. Recommend for best product delivery and/or return temperature, use heavy (2.00) regardless of actual service conditions.

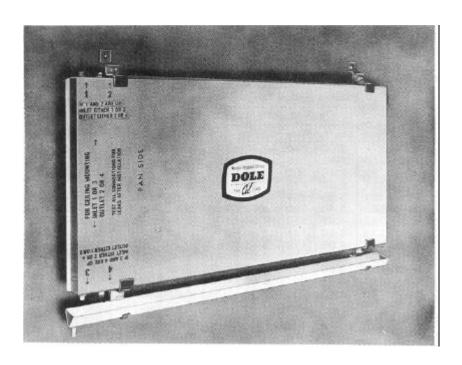
TABLE IV

EFFECTIVE COMPRESSOR CAPACITIES (BTU/hr) FOR PLATE APPLICATIONS ALLOWING 2° to 5° LOSS THROUGH PLATE AND SUCTION LINES

Refrigerant	R-12 +5° ET	R-502 -30° ET
Comp. H.P.	. + 18° Plates (Hi)	-18° Plates (Lo)
1/2	3000	_
3/4		
1		3350
1 1/2		
_ 2		7200
		11500
		16250

wall heat gain times 24 (hrs) plus hourly service heat gain times hours road time) by number hours plug-in time available to determine compressor capacity required...or if compressor exists divide total daily load by corresponding compressor capacity to determine hours of plug-in time required.

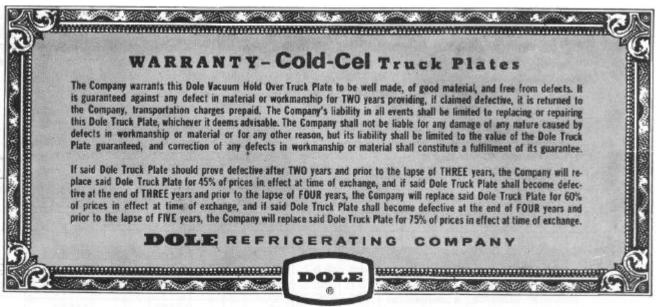
Typical Installation





HOLDOVER TRUCK PLATES

Mounted With Drip Pan



Specifications Subject to Change Without Notice

DOLE REFRIGERATING COMPANY

1420 Higgs Road P.O. Box 1009 • Lewisburg, TN 37091 Phone (615) 359-6211 • 1-800-251-8990

