



# **Refrigerated Truck Bodies - Cold Plate**



### Why Choose Morgan Cold Plate Over Conventional Refrigeration Systems?

### Cold Plate works...efficiently.

Morgan's Cold Plate uses an electrically-driven, easy-to-access front mounted OR under-body mounted compressor to super-cool the plate system. Air is then circulated across the plates and throughout the cargo area using a series of simple fans. Simplicity translates to low maintenance requirements.

#### Cold Plate works...cost-effectively.

Morgan's Cold Plate System is electrically driven and operates at a fraction of the cost of conventional engine-driven systems that require a running engine, and consume costly diesel fuel just to maintain required temperatures.

### Cold Plate works...dependably.

Even under disastrous conditions, such as total electrical system failure, Cold Plate holds enough reserve to maintain even the coldest temperatures for as long as 24 hours in an unopened compartment.

### Cold Plate works...environmentally.

Electrical operation means Morgan's Cold Plate results in lower CO2 emissions, fewer particulate pollutants AND less noise pollution than engine-driven systems.

### Cold Plate works...efficiently.

Options such as Auto Defrost help maintain a more consistent cargo temperature by preventing frost build-up on the plates - reducing the need for manual maintenance.

Why Choose Cold Plate Over Conventional Refrigeration Systems? ... Because Cold Plate WORKS –

When There's No Room for Compromise.

# STANDARD FEATURES

SUB-FRAME – Three-inch I-beam cross-members positioned on 12" centers, three-inch structural longrails, Mylar tape between all steel sub-frame components, and extruded aluminum lower bottom rails to prevent corrosion don't mean much, unless strength, durability and dependability are important. Morgan thinks they are.

FLOOR – Morgan's smooth, extruded-aluminum "Hat" floor configuration helps to move condensate away from product and maintain a dryer, safer cargo area.

SCUFF PLATE – A six-inch scuff plate helps to protect sidewalls from minor impacts, and maintain the insulative integrity and appearance of the cargo area.

THRESHOLD – It should be no surprise that Morgan's refrigerated bodies include a stainless steel threshold to resist moisture and support easy cleaning. It's the addition of the built-in Thermobreak and composite build-up to mitigate heat transfer that makes a Morgan body better.

REAR DOOR – Heat energy follows the path of least resistance into your cargo area. Morgan rear door Whiting Tempguard is just one more way we eliminate a path - that others don't.

REAR FRAME – Morgan's rear frame does what it's designed to do – protect. Stainless Steel construction resists corrosion. A built-in header and clearance light protectors provide added strength and durability. And a built-in rain deflector and curb and road side grab handles help to provide a safer work environment.

ROOF - One-piece aluminum sheeting with anti-snag roof bows on 24" centers, and a crowned roof design helps to prevent pooling of water and ice, and maintain the integrity of the roof system.

SKINS – White, pre-painted aluminum side skins provide a clean, attractive appearance; and the perfect canvas for custom-advertisements.

SIDE WALL – Extruded aluminum top, bottom and z-shaped vertical posts (on 16-inch centers) are strong, light weight and resist corrosion.

INSULATION – There's insulation, then there's Morgan poured-in-place urethane foam insulation that goes the extra mile to prevent infiltration of heat in even the hottest environments. Four-inch front and floor and 3-inch ceiling, side and rear densities help to maintain the right temperature, regardless of the temperature outside.

INTERIOR LINER – Morgan's USDA-approved, seamless glassboard liner delivers an easy-to-clean surface, and the professional appearance your customers will appreciate.

FRONT END – Aerodynamic design, patented poly-tuff corner caps, and a plastic refrigerated dormer are just a few of the ways Morgan's front end is designed to protect your vehicle and your investment. Folding steps and a strategically positioned grab handle mounted on front radius are a few of the ways they protect your people.

BUMPER – Morgan's five-inch structural bumper provides an added degree of impact protection; while the slip-resistant pooched bumper and closure-plate surfaces create a safer work environment.

INTERIOR LIGHTING – Morgan refrigerated bodies include a cab-controlled dome light to enhance visibility in recessed areas where natural light is limited.

EXTERIOR LIGHTING - Sealed LED clearance lights enhance visibility efficiently and effectively.

MOUNTING – Full mount U-bolt construction supports easy maintenance and repair.

MUDLFAPS – Morgan 24" x 36" black mud flaps help to deflect dirt and debris, and maintain the clean, professional appearance of your vehicle.



Morgan offers your choice of a front mounted or frame-mounted compressor. Regardless of the configuration you choose, easy access is assured.





When temperatures OUTSIDE can differ by more than 100(F) from temperatures INSIDE, it's good to know Morgan Cold Plate-equipped refrigerated bodies are designed and built to overcome the challenge.

Morgan Cold Plate technology is designed to generate and maintain the coldest temperatures available to create the perfect environment for your load; whether you require sub-zero temperatures to keep your product frozen, or comfortably cool temperatures to keep your product fresh.

Add to that the innovative design and quality construction of every Morgan refrigerated body – from poured-in-place insulation to full-perimeter thermal breaks – and Morgan helps to ensure the quality of your product remains uncompromised.



Product quality can be severely compromised when cargo located near doors and thresholds is exposed to outdoor temperatures due to thermal leaks.

Morgan's exclusive full-perimeter thermal breaks on doors and thresholds help to prevent passive heat transfer that can cause temperature differences across the cargo area.







Morgan's insulated truck bodies go far beyond industry standards to maintain the perfect temperature throughout your cargo area.

Poured-in-place polyurethane foam ensures that every surface – including the floor – provides a superior temperature barrier between your cargo and the world outside.



Morgan innovation changed the van body industry when they produced a body that is aerodynamic in design, and features patented poly-tuff corners, a reinforced front-end.

# FLOOR OPTIONS



Steel diamond plate, medium pattern with epoxy floor coating.



#### 1 1/4" Aluminum (Hat) Floor





1 1/4" Aluminum (Hat) Floor with Anti-Skid Surface 1 1/4" Aluminum (Inverted T) Anti-Skid Floor



Sliding / Swing Rear Door Shown

# **OPTIONS**

Morgan Cold Plate-equipped refrigerated bodies are already the best in the industry. But you can customize and enhance their performance with an array of options created specifically to meet your unique needs.

From your choice of door, floor, and cargo restraint configurations, to various bumper, lighting and thermal control systems – Morgan works hard to make your job easier and more efficient.

- 4" and 5" insulation packages available
- Walkramps
- Liftgates
- Refrigeration unit and installation
- Cargo restraint systems
- Strip curtains
- Bulkheads permanent or moveable
- Side and rear door options
- Various flooring options
- Custom paint and decal installation
- Various lighting options
- Galvannealed rear frame
- Multi-temperature applications
- Custom side door steps
- Customized rear bumpers
- Shelving and rack systems
- Various scuff plate options
- Maximizer swing side door

### Options That Set the Standard



### Specifications - Refrigerated Cold Plate

LENGTH DIMENSIONS										
NOMINAL LENGTH 10 12 14 16 18 20 22 24 26 28									28	
"K"	10' 5-5/8"	12' 5-5/8"	14' 5-5/8"	16' 5-5/8"	18' 5-5/8"	20' 5-5/8"	22' 5-5/8"	24' 5-5/8"	26' 5-5/8"	28' 5-5/8"
"L" - O/H 4,11	8' 1"	10' 1"	12' 1"	14' 1"	16' 1"	18' 1"	20' 1"	22' 1"	24' 1"	26' 1"
"L" - PANEL DOORS 5,11	8' 4"	10' 4"	12' 4"	14' 4"	16' 4"	18' 4"	20' 4"	22' 4"	24' 4"	26' 4"

4.) O/H Door Dimensions Are For A Single Insulated Door, Subtract 1" For Double Insulated Doors, 5.) Panel Door Dimensions Are For 3" Thick Foam Doors. Subtract 1" for 4" Foam Doors, 2" For 5" Foam Doors. 11.) With 3-Plate Econo Cel

"E" - REAR DOOR OPENING WIDTH									
EXTERIOR BODY WIDTH	O/H I	DOOR	SWING PANEL DOORS <sup>7</sup>						
	3", 4" SIDE Foam	5" SIDE FOAM	2, 3, OR 4 - PANEL FULL OPENING	1 OR 2 -PANEL NARROW OPENING					
96	82"	80"	88"	43-3/4"					
102	88"	86"	94"	43-3/4"					

7.) Side Wall Foam Thickness Does Not Affect Swing Panel Door Opening Width.

"F" - REAR DOOR OPENING HEIGHT									
BODY HEIGHT	WHITING T	OVERHEA EMPGUARD	D DOORS WHITING C	SWING PANEL					
	TODCO 1. GUA	12 POLAR- Ard	TODCO 2. GUA	3", 4", AND					
	3" AND 4" CEILING FOAM	5" CEILING FOAM	3" AND 4" CEILING FOAM	5" CEILING FOAM	5" CEILING FOAM				
91	76-3/8"	75-3/8"	75-3/8"	74-3/8"	81-5/8"				
97	82-3/8"	81-3/8"	81-3/8"	80-3/8"	87-3/8"				
103	88-3/8"	87-3/8"	87-3/8"	86-3/8"	93-5/8"				

6.) Rear Door Opening Height Is Based On Standard 4" Floor Foam. Subtract 1" for 5" Floor Foam.

WIDTH DIMENSIONS									
EXTERIOR		"B" <sup>1</sup>							
WIDTH	"A"	3" FOAM	4" FOAM	5" FOAM					
96	96"	89-3/16"	87-3/16"	85-3/16"					
102	102"	95-3/16"	93-3/16"	91-3/16"					

1.) Interior Width Dimension Is From Scuff To Scuff.



HEIGHT DIMENSIONS									
BODY		"D" <sup>3</sup>							
HEIGHT	HEIGHT "C" <sup>2</sup>		4" FOAM	5" FOAM					
91	97-3/8"	86.00"	85.00"	84.00"					
97	103-3/8"	92.00"	91.00"	90.00"					
103	109-3/8"	98.00"	97.00"	96.00"					

2.) Exterior Height Does Not Include Longitudinals

3.) Interior Height Is Based On Standard 4" Floor Foam. Subtract 1" For 5" Floor Foam.

CALCULATED WEIGHT CHART										
BODY	BODY LENGTH									
HEIGHT	10	12	14	16	18	20	22	24	26	28
GVSR91	2801	3054	3322	3582	3843	4114	4383	4648	4921	5177
GVSR97	2870	3118	3401	3665	3940	4206	4479	4749	5024	5288
GVSR103			3479	3750	4029	4297	4578	4851	5130	5400

Body Weight Includes: Base Body, O/H Rear Door, D.O.T. Underride., Mud Flaps, Lighting Per FMVSS 108, Mounting Kit, Kemlite Liner Front, Sides and Ceiling, Steel Reinforcement For Reefer Unit, 3" Foam Sides And Ceiling,

4" Foam Front And Floor, Smooth Extruded Aluminum Hat Floor, 4" Jr. I-Beam Longitudinals. Weight Tolerance = ± 3%

SIDE DOOR DIMENSIONS									
"H" - SI									
			"G" SIDE DOOR WIDTH						
SIDE DOOR	91	97	103						
STD. HEIGHT	72-7/8"	72-7/8"	72-7/8"	36-1/16"					
FULL HEIGHT	36-1/16"								

STANDARD SIDE DOOR LOCATIONS										
BODY LENGTH	10	12	14	16	18	20	22	24	26	28
J <sup>12</sup>	2	29-1/16	°			e	51-1/16	**		

8.) Foremost Location Of Side Door is 29.06" From Inside Front Wall. 9.) Door Can Be Moved Fore and Aft of Std. Location on 2" Increments Only. 10.) Door Location is Based On 4" Of Foam In Front Wall.

12.) Subtract 18" for 3-Plate Econo Cel



- A= Overall Width B= Interior Width
- C = Exterior Height D = Interior Height
- E = Rear Door Opening Width
- F = Rear Door Opening Height
- G = Side Door Opening Height H =Standard Side Door Opening Height
- $\begin{array}{l} H = \text{Standard Side Door Opening Height} \\ J = \text{Leading Edge Of Side Door To Inside Front of} \\ K = \text{Exterior Length of Body} \\ L = \text{Inside Front Liner To Inside Rear Door Panel} \\ M = \text{Bottom Of Evaporator Unit To Floor} \\ \end{array}$ J = Leading Edge Of Side Door To Inside Front of Body

- N = Bottom Of Condenser Unit To Bottom of Longitudinal (4" I-Beam) O = Depth of Refrigeration Unit Condenser
- P = Depth of Refrigeration Unit Evaporator



For More Information Contact Your Morgan Representative or Authorized Morgan Distributor

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800-666-7426 www.morgancorp.com



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Products as shown may include optional equipment that is not part of the standard Morgan truck body configuration. Some product images may differ from current configurations and may not be available as depicted at the time of your order. NOTE: All dimensions, weights, and measurements specified herein are subject to Morgan's manufacturing tolerances, may change without notice, and may vary depending on options selected. Please Contact Morgan Representative for available options, complete up-to-date specifications and for measurements for your particular truck body and chassis specifications. @ Morgan Corporation 01/2013