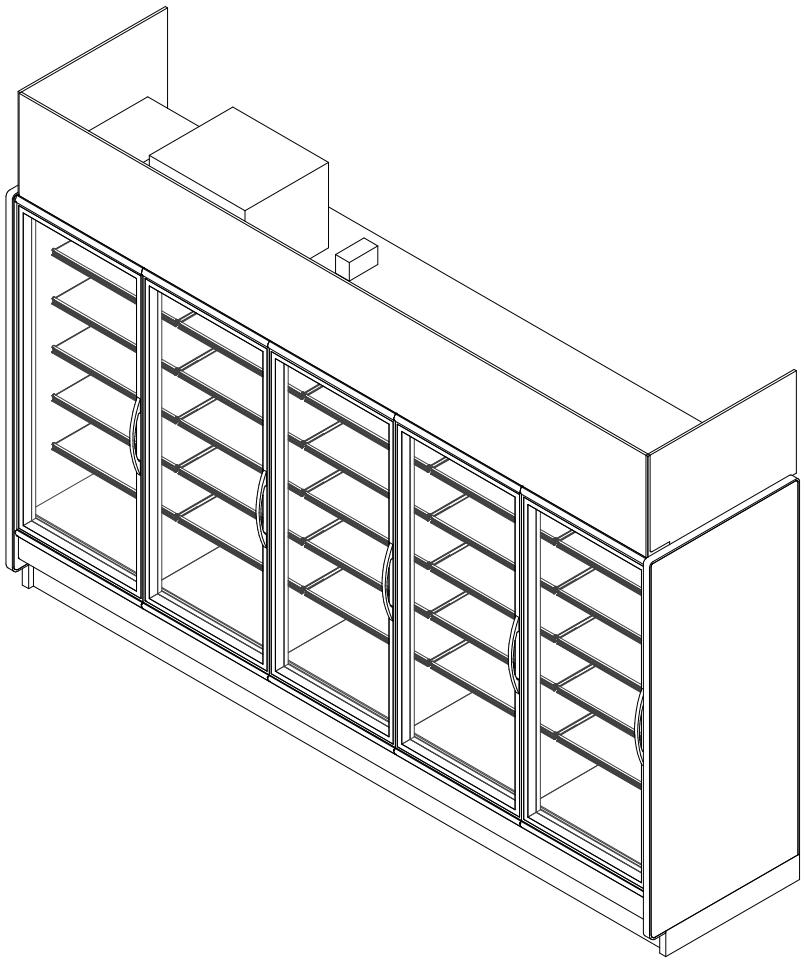
JNRZHSA

2, 3, 4 & 5 Door High Narrow Reach-In Self Contained Merchandiser
Frozen Food/Ice Cream

R-290 ECO FRIENDLY

GENERAL NOTES:

• "---" indicates that the feature is not an option with this case model and/or the data is not available at this time.
• Light controls - occupancy sensors are required for heated doors only. Low E doors do not require the sensors.
-Option 1: OEM Provided: OEM anti-condensate and lighting controls (on/off) are standard unless otherwise specified.
-Option 2: End User Provided: Light controls should be based on occupancy sensors. Store level A/S control should be set to 30% minimum off time at 75ºF/55%RH.
• WARNING: R-290 flammable refrigerant in use. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.
• Condensate pump is optional. Non-electric condensation pan comes standard with case located within CDU and not shown on drawing. All field-supplied components must be certified for R290 (propane) applications.



SHIPPING WEIGHT	
Case	Weight
JNRZHSA	---

2017 DOE COMPLIANT NSF c UL us

ENGINEERED FOR STORES WITH AMBIENT CONDITIONS NOT TO EXCEED 80°F (27°C) AND 55% RELATIVE HUMIDITY. ALL MEASUREMENTS ARE TAKEN PER ASHRAE-72 SPECIFICATIONS. HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

JNRZHSA

Rev. Date	Rev. #	Rev. Title
09-28-26	10	ENDVIEW UPDATES
04-24-26	9	NOTES UPDATE

SECOND NATURE NATURAL
optimax
Hillphoenix a DOVER company

JNRZHSA

2, 3, 4 & 5 Door High Narrow Reach-In Self Contained Merchandiser
Frozen Food/Ice Cream

R-290 ECO FRIENDLY

SYSTEM REQUIREMENT

Case Length	Volts	Wiring Type	Phase	Frequency (Hz)	Optional Factory Installed Plug	MCA	MOP	Total Load (Amps)	24hr Energy Usage (kWh)	THR (BTUH)
2 Door	120/208	3 Wire + Gnd	1	60	NEMA 14-20/L14-20	8.8	15.0	7.5	22.1	3142.0
3 Door	120/208	3 Wire + Gnd	1	60	NEMA 14-20/L14-20	12.8	15.0	10.4	33.0	4692.0
4 Door	120/208	3 Wire + Gnd	1	60	NEMA L14-30	27.8	30.0	23.4	37.5	5331.0
5 Door	120/208	3 Wire + Gnd	1	60	NEMA L14-30	29.6	30.0	24.9	48.4	6881.0

ELECTRICAL DATA

Case Length	Fans Per Case	Evaporator Fans	
		120 Volts	
		Amps	Watts
2 Door	1	0.42	34
3 Door	2	0.84	68
4 Door	3	1.26	102
5 Door	3	1.26	102

LIGHTING DATA

Case Length	Door Size	OP7 Single Swing	
		120 Volts	
		Amps	Watts
2 Door	30"	0.28	33.0
3 Door	30"	0.41	49.2
4 Door	30"	0.55	65.4
5 Door	30"	0.68	81.6

ANTI CONDENSATE DATA

Case Length	Door Size	Individual Circuits									
		I90 Doors				ELMD Doors				Door Frame	
		Heated Doors		Low E Doors		Heated Doors		Low E Doors		101-LE	
		120 Volts		120 Volts		120 Volts		120 Volts		120 Volts	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
2 Door	30"	0.56	67	0.34	40	0.64	76	0.38	45	1.26	151
3 Door	30"	0.84	101	0.51	61	0.95	114	0.57	68	1.76	211
4 Door	30"	1.12	135	0.67	81	1.27	152	0.76	91	2.29	275
5 Door	30"	1.40	169	0.84	101	1.59	191	0.95	114	2.78	334

GUIDELINES AND CONTROL SETTINGS

Case Length	Application	Superheat Set Point @ Bulb (°F)	Discharge Air (°F)	Set Point Differential (°F)	Discharge Air Velocity (FPM)
2 - 5 Door	Frozen Food	3 - 8	- 2	4	250
2 - 5 Door	Frozen Food	3 - 8	- 2	4	250
2 - 5 Door	Ice Cream	3 - 8	- 9	4	250
2 - 5 Door	Ice Cream	3 - 8	- 9	4	250

2017 DOE COMPLIANT

NSF

c UL us

ENGINEERED FOR STORES WITH AMBIENT CONDITIONS NOT TO EXCEED 80°F (27°C) AND 55% RELATIVE HUMIDITY. ALL MEASUREMENTS ARE TAKEN PER ASHRAE-72 SPECIFICATIONS. HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

JNRZHSA

Rev. Date	Rev. #	Rev. Title
09-28-26	10	ENDVIEW UPDATES
04-24-26	9	NOTES UPDATE

SECOND NATURE NATURAL

optimax

Hillphoenix a DOVER company

JNRZHSA

2, 3, 4 & 5 Door High Narrow Reach-In Self Contained Merchandiser
Frozen Food

R-290 ECO FRIENDLY

CONDENSING UNIT DATA										
Case Length	Volts	Phase	Frequency (Hz)	Horsepower	RLA	LRA	Refrigerant	Refrigerant (g)	Room Area Min. (m)	Room Area Min. (ft)
2 Door	208	1	60	1	3.9	25.4	R-290	150	3.26	35.11
3 Door	208	1	60	1 1/2	6.1	48.0	R-290	180	3.91	42.14
4 Door	208	1	60	2 1/2	18.0	75.0	R-290	260	5.65	60.87
5 Door	208	1	60	2 1/2	18.0	75.0	R-290	300	6.52	70.23

DEFROST CONTROLS			
	Hot Gas Defrost		
Defrosts Per Day	Run-Off Time (Min)	Fail-Safe (Min)	Termination Temp (°F)
1	0	30	72

NOTES:

• "---" indicates that this feature is not an option on this case model.
• The 24 Hour Energy Value is based upon AHRI 1200 test conditions with Hillphoenix provided evaporator fans, condensing unit, LED lights, occupancy sensor based (on/off) lighting control, dew point based anti-sweat heat controller, condensate pump, evaporator pan, heated door frame, and heated glass doors/electric defrost on low temp cases.
• Heat dissipated to room listed for maximum design conditions, normal operating loads may be lower.
• Data listed is for Optimax. For other lighting options please contact your sales representative.
• Light wattages above reflect 100% run time. To determine actual daily energy usage at 75ºF/55%RH conditions, reduce the light wattages above by 42% and reduce the A/S values above by the minimum off time.
• Anti-condensate heat values for Low E represent a door with no heat on the glass.
• Low energy doors (no heat on the glass) do not require anti-condensate or lighting controls. Frame A/S heat is cycled off during defrost cycles.
• Heated doors (heat on the glass) require anti-condensate and lighting controls.Frame A/S heat is cycled off during defrost cycles.
• The recommended evaporator temperature and defrost settings may need to be adjusted based on system setup, store conditions, etc. The minimum recommended evaporator temperature is 4°F below the listed evaporator temperature.
• Discharge air temperature values represent readings taken within the upper air channel immediately behind/upstream of the honeycomb.
• Listed discharge air velocity represents the average velocity immediately after defrost completion using a Testo 410i vane anemometer with anemometer air scoop (HP part number P109185M) positioned adjacent to the interior edge of the discharge honeycomb.

2017 DOE COMPLIANT NSF cULus

ENGINEERED FOR STORES WITH AMBIENT CONDITIONS NOT TO EXCEED 80°F (27°C) AND 55% RELATIVE HUMIDITY. ALL MEASUREMENTS ARE TAKEN PER ASHRAE-72 SPECIFICATIONS. HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

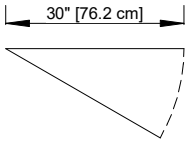
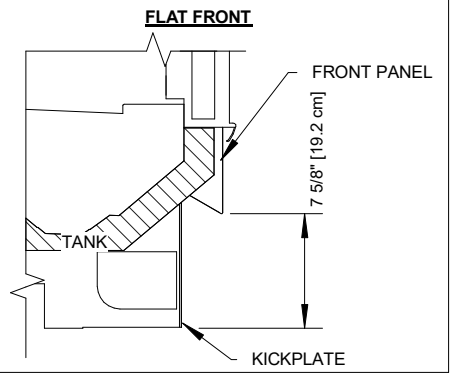
Rev. Date	Rev. #	Rev. Title
09-28-26	10	ENDVIEW UPDATES
04-24-26	9	NOTES UPDATE

SECOND NATURE NATURAL
optimax
Hillphoenix a DOVER company

JNRZHSA

2, 3, 4 & 5 Door High Narrow Reach-In Self Contained Merchandiser
Frozen Food/Ice Cream

R-290 ECO FRIENDLY

DOOR OPTIONS	FRONT OPTIONS
STANDARD SWING DOOR 2, 3, 4, & 5 - DOOR CASES 	

2017 DOE COMPLIANT

NSF

c UL us

ENGINEERED FOR STORES WITH AMBIENT CONDITIONS NOT TO EXCEED 80°F (27°C) AND 55% RELATIVE HUMIDITY. ALL MEASUREMENTS ARE TAKEN PER ASHRAE-72 SPECIFICATIONS. HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

JNRZHSA

Rev. Date	Rev. #	Rev. Title
09-28-26	10	ENDVIEW UPDATES
04-24-26	9	NOTES UPDATE

SECOND NATURE NATURAL

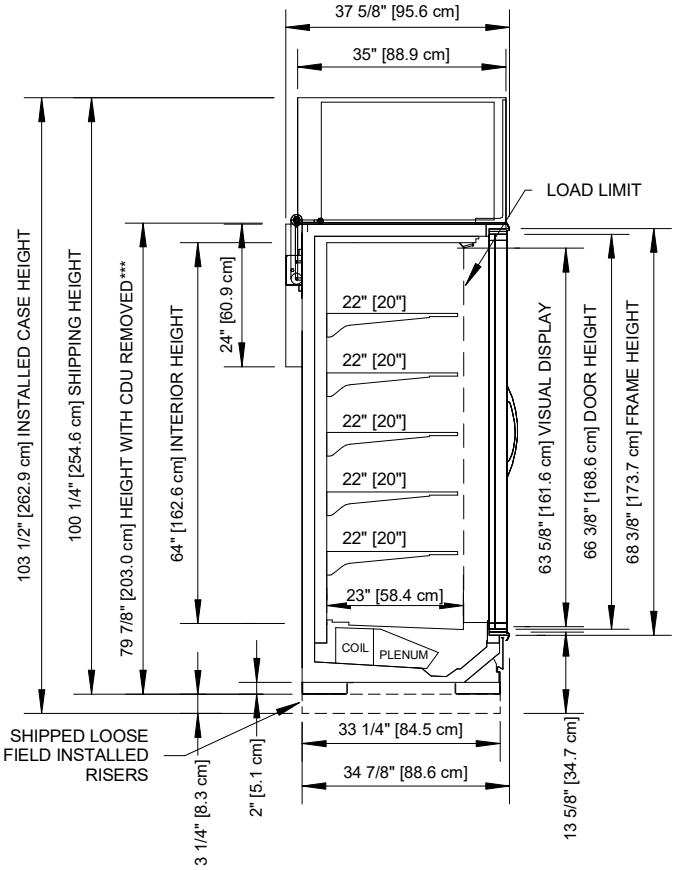
optimax

Hillphoenix a DOVER company

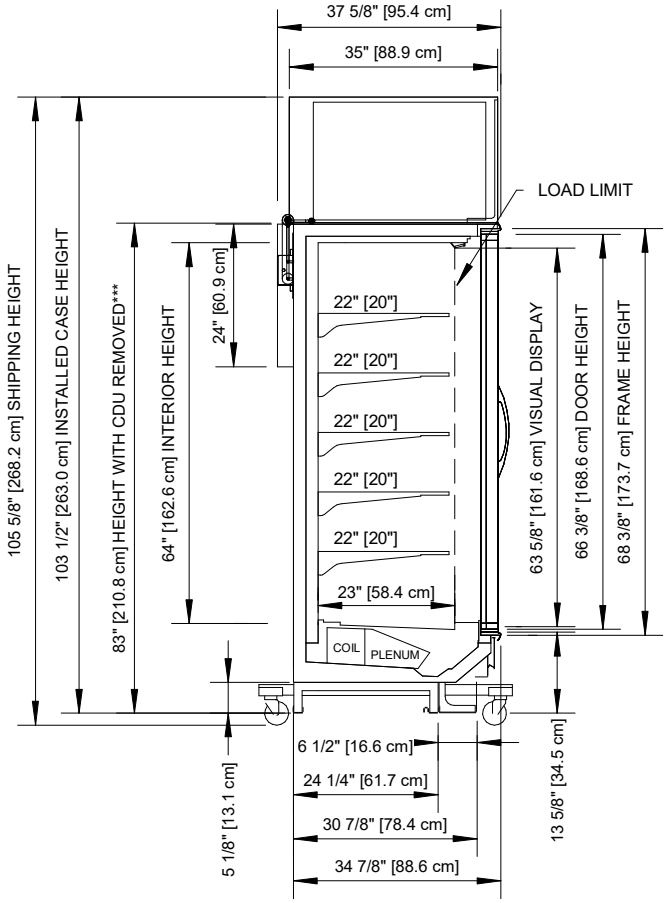
JNRZHSA

2, 3, 4 & 5 Door High Narrow Reach-In Self Contained Merchandiser
Frozen Food/Ice Cream

R-290 ECO FRIENDLY



SPECIALIZED



STANDARD

2017 DOE COMPLIANT

NSF

cULus

ENGINEERED FOR STORES WITH AMBIENT CONDITIONS NOT TO EXCEED 80°F (27°C) AND 55% RELATIVE HUMIDITY. ALL MEASUREMENTS ARE TAKEN PER ASHRAE-72 SPECIFICATIONS. HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

SECOND NATURE NATURAL

optimax

Hillphoenix a DOVER company

JNRZHSA

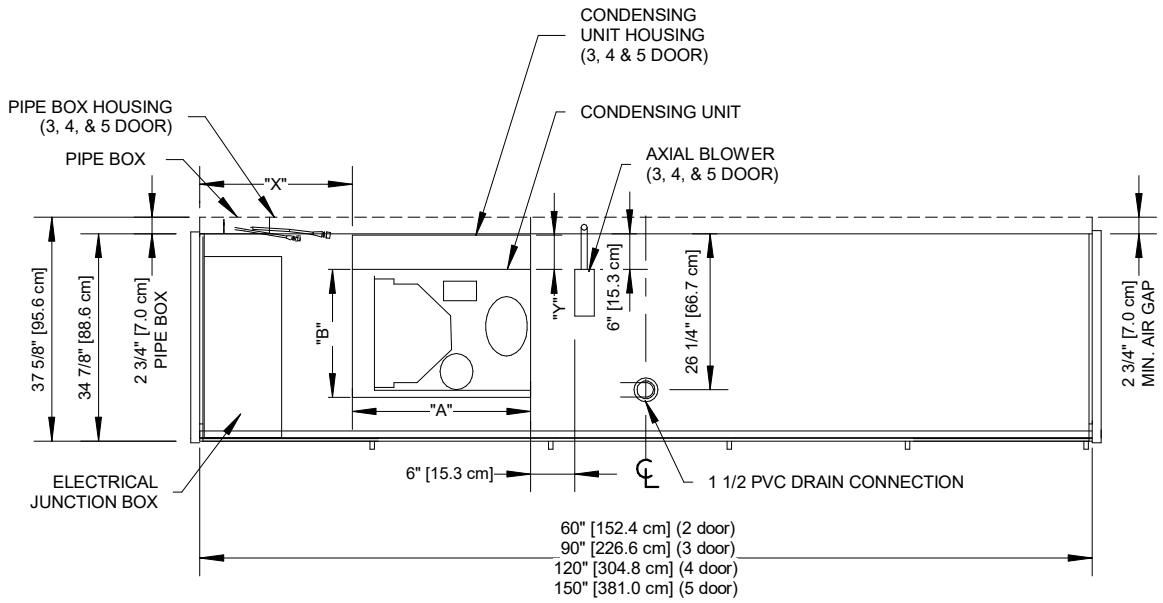
Rev. Date	Rev. #	Rev. Title
09-28-26	10	ENDVIEW UPDATES
04-24-26	9	NOTES UPDATE

JNRZHSA

2, 3, 4 & 5 Door High Narrow Reach-In Self Contained Merchandiser
Frozen Food/Ice Cream

R-290 ECO FRIENDLY

CONDENSING UNIT SIZE AND POSITION R-290				
CASE LENGTH	2DR	3DR	4DR	5DR
"X"	25.63"	25.63"	25.63"	25.63"
"Y"	7.94"	7.94"	7.94"	7.94"
"A"	25.9"	25.8"	22.75"	22.75"
"B"	17.2"	17.3"	19.89"	19.89"



NOTES:

* : STUB-UP AREA

** : RECOMMENDED STUB-UP CENTERLINE FOR ELECTRICAL AND HUB DRAINS

*** Specialized Base Frame:

- Case fits through 80" doorway after CDU is removed in the field.
- 2" lifting brackets (installed) & 3.25" ship loose risers combine for 5" baseframe once installled.
- Drain traps ship loose.

• Ends add approximately 1/2" to the back & 1" to the front (end panel height included in case height).

• The standard pump is shipped loose with the case unless another selection on the drain option is selected, such as filtered pump or floor drain package. Check your work order and manual for installation details.

2017 DOE COMPLIANT

ENGINEERED FOR STORES WITH AMBIENT CONDITIONS NOT TO EXCEED 80°F (27°C) AND 55% RELATIVE HUMIDITY. ALL MEASUREMENTS ARE TAKEN PER ASHRAE-72 SPECIFICATIONS. HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

JNRZHSA

Rev. Date	Rev. #	Rev. Title
09-28-26	10	ENDVIEW UPDATES
04-24-26	9	NOTES UPDATE

SECOND NATURE NATURAL
optimax
Hillphoenix a DOVER company