



# Installation Conformance Guide

Title	Installation Conformance Guide
Applies to article(s)	Freedom, Comfort, Premium and Travel toilet models

## Introduction

Install your Cinderella toilet according to the instructions in your manual to ensure it functions properly. Incorrect installation can cause malfunctions, premature wear, unpleasant odours, and void the warranty. Also, ensure the installation complies with local regulations.

This detailed guide provides essential instructions and specifications for installing each Cinderella model. It complements the official manuals, links included below, ensuring you have all the information needed for a smooth installation. Follow this guide to optimize your Cinderella model's performance and ensure its longevity and reliability.

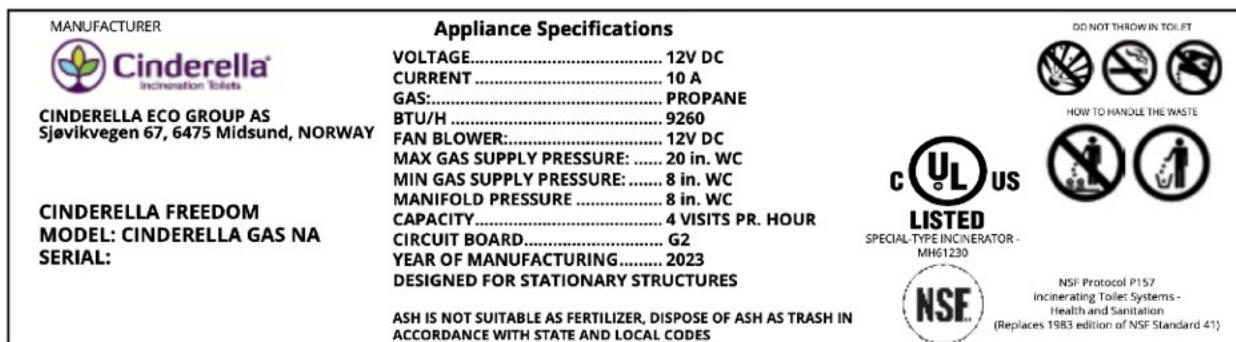
For quick access to instructions specific to a particular section, please click on the relevant links below, to jump to your desired selection.

<b>Cinderella Freedom (Propane)</b>	<b>Official Manual</b>	<b>Page</b>
<u>Electrical &amp; Power</u>		2
<u>Ventilation Specifications</u>	<u>Freedom Manual</u>	4
<u>Propane Specifications</u>		6
<b>Cinderella Comfort &amp; Premium (220-240vAC)</b>		<b>Page</b>
<u>Electrical &amp; Power</u>	<u>Comfort Manual</u>	9
<u>Ventilation Specifications</u>	<u>Premium Manual</u>	10
<b>Cinderella Travel (Propane)</b>		<b>Page</b>
<u>Electrical &amp; Power</u>		13
<u>Ventilation Specifications</u>	<u>Travel Manual</u>	15
<u>Propane Installation</u>		17

## Cinderella Freedom (Propane)

The Cinderella Freedom models have been tested and approved by UL, a consumer safety testing organization. They have the C-UL-US mark, indicating they meet safety requirements in Canada, the US, and other relevant standards.

You can find the appliance rating plate on the back of the incineration toilet or on newer models also located on the inside of the lid. This plate shows you the model ID, serial number, electrical and gas specifications etc.



## Electrical Specifications

To guarantee optimal performance, it is crucial to establish a reliable connection to a compatible 12V DC power source. This connection not only powers the device but also influences its overall performance and longevity.

Power Requirements	Input	Current	Supply Fuse
	12V DC (11.5-14.4V)	4 A	10 A
Power Consumption	Sleep Mode	Standby Mode	Incinerating
	0.005 A	0.09 A	1.3 A
Connection Polarity	Cross Section	Positive (+)	Negative (-)
	2 mm <sup>2</sup> / 14 AWG	RED	BLACK
Power Cable Length	Approximately 6 feet / 1.8 m (pre-trimmed)		
<b>12V Wiring Guide</b>			
0 - 15 feet / 0 - 4.5 m	15 - 25 feet / 4.5 - 7.5 m	25 - 40 feet / 7.5 - 12 m	
AWG 14	AWG 12	AWG 10	

**Note:** Connect the 12 V supply directly to the battery on its own circuit with a 10 A fuse at the beginning. In a camper, the negative and positive DC connection cables should not be connected together to avoid electrical interference and damage to components.

This toilet is designed specifically for off-grid applications, requires a 12vDC supply. Ensure the correct voltage, frequency, and amperage are supplied from a dedicated, grounded circuit protected by a properly sized circuit breaker (minimum 10 A). See low voltage symptoms chart below.

Voltage Related Sounds, Symptoms & Light Signals		
11.5 - 14.4V	Normal Voltage	Continuous Green Light
10.5 - 11.5V	Low Voltage	Flashing Green Light
9.50 - 10.5V	Minimum Operating Voltage	10 Beeps, flashing green light after 1.5 minutes. Gas Valve shuts off. Fan issues. Hatch issues.
< 9.5V	Critical Voltage	10 Beeps / immediate appliance shutdown.

## Powering Options

Most Popular Power Options for Cinderella Freedom			
			
12V AGM, Flooded Deep Cycle, or LiFePO4 Battery	Universal AC to DC 12V 10A Power Adapter	Portable Battery Pack with 12V Output	120VAC to 12VDC Adapter
<p>It's common to set up a solar system specifically for a Cinderella Freedom. Batteries provide reliable energy delivery, ensuring smooth operation for extended periods.</p> <p>*A 100-135AH battery and a 100-150 watt panel should provide a good starting point.</p>	<p>This is an excellent all-around option for various applications needing a consistent 12V power supply.</p> <p>See our Kedron model specific for Cinderella.</p>	<p>Portable and expandable products like the ANKER SOLIX are perfect for powering your devices on the go. They offer a reliable 12V output, no matter where you are.</p>	<p>For AC to DC conversions, we recommend adapters like the Samlex SEC-1223 or SEC-1235.</p>

## Ventilation Component Specifications

The Cinderella Freedom system must be vented with S636-certified pipes and in accordance with North American Gas Code. Using unauthorized parts or deviating from the manufacturer's specifications will cause malfunction, wear, odours, and void the warranty. Contact a local tradesman or dealer for more information.

Cinderella offers customized ventilation kits for installing your toilet according to the Gas Code and manufacture requirements. Kits are sold separately from the toilet.

[Box 1 - Accessory Kit - 101862](#)



[Box 2 - Ventilation Kit - 101455](#)



Should you or your installer wish to source your own, it is important to adhere to the manufacturer specifications outlined in your product manual or the chart below.

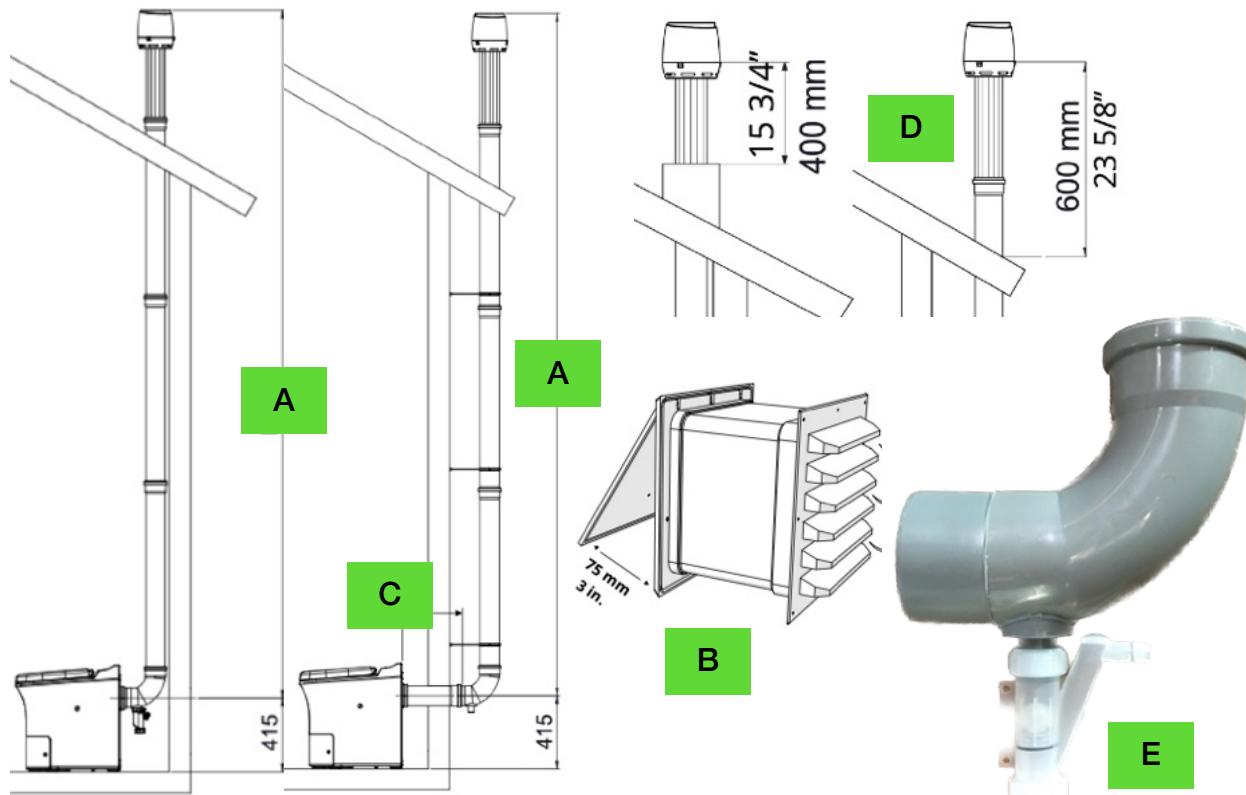
Item	Specifications
Ventilation Pipes	Rigid, hard pipes that feature a smooth inner surface, 636-rated PP quality, with a minimum temperature tolerance of 90°C (194°F). 110 mm (4 5/16 inches) pipes with a minimum inner diameter of 102 mm (4 inches).
Exhaust Elbow	Cinderella Freedom requires a smooth curved 87° elbow with a condensate drain to minimize air flow restriction. The elbow must be accessible for rinsing the drainage pipe and cleaning the outlet pipe.
Flue Termination	Flue terminal cap that is designed for optimal flow and increased product efficiency. Too much restriction will cause the system to malfunction.
Fresh Air Intake	Minimum dimensions must be 160 mm (6 inches) / 201 cm <sup>2</sup> (31 inches <sup>2</sup> ) and open while the unit is in use and cooling mode is complete.

**Warning:**

- *DO NOT use any flexible ducts or pipes.*
- *NO wind fan or similar as a replacement for the chimney cap.*
- *NO Bends allowed in addition to the elbow bend.*
- *NO mesh nets or coverings in the ventilation pipes or intake locations.*
- *DO NOT use any competing fans to extract air from the room when the toilet is in use.*
- *Minimum clearances must be 50mm (2 inches) from sides and rear of toilet.*

## Ventilation Installation Limitations & Options

	Pipe Diameter	Direction	Reference	Bends	Max Length
Exhaust Flue	110 mm / 4-21/64 inches	Horizontal	C	NONE	100 cm / 3.5 feet
	110 mm / 4-21/64 inches	Vertical	A	NONE	500 cm / 16 feet
Fresh Air Intake	Minimum Dimensions	Reference	Other		
	160 mm (6 inches) / 201 cm <sup>2</sup> (31 inches <sup>2</sup> )	B	Required. Install either directly behind and/or underneath the toilet.		
	General Information			Reference	
Chimney Cap	Install the chimney cap <b>vertically above the roof</b> , extending at least <b>2 feet (600 mm)</b> above the surface. Extend further if snow accumulates. Don't exceed the maximum pipe length. Cinderella's chimney cap optimizes flow and product efficiency,			D	
	General Information			Reference	
Siphon	If a siphon or back-flow preventer is installed inside a structure, use it as a trap. If installed outside, avoid using the siphon to prevent damage. Some installers may use a custom hose with a clamp for draining into an alternative location.			E	



## Propane Installation

A qualified and licensed propane specialist **must** exclusively connect this toilet to the gas supply, following the technical and regulatory standards of the installation region. A gas technician's presence will prevent potential issues by conducting necessary flame and leak tests and adjustments as required.

An external regulator must be installed and set to 1/2 PSI or 14" WC.

The Cinderella Freedom connection comes standard with a 1/4" NPT to G 1/4" LH straight fitting attached loosely to a G 1/4" LH nut to 1/2" NPT female 90° fitting, with a left-handed reverse thread for safety. This can confuse DIY installers. Our dealers and certified propane installers may use similar connections to the illustration below and listing below, or may offer alternatives.

#	Propane Accessory	#	Propane Accessory
1	1/4" NPT to G 1/4" LH straight fitting	5	3/8" male flare to 1/2" NPT
2	G 1/4" LH nut to 1/2" NPT female 90°	6	1/2" male flare to 3/8" male flare
3	1/2" NPT male to 3/8" male flare	7	3/8" female flare to gas hose to low pressure regulator.
4	3/8" female to 3/8" female flex line		



## Customer Propane Connection Examples



## Freedom Installation Conformance Checklist

Control Items	Check
The connected voltage is in accordance with the appliance rating plate	
The connected gas pressure is in accordance with the appliance rating plate	
The flue pipe length is within manufacturer specifications	
The chimney cap is installed more than 2' above the roofline	
The chimney cap is installed to manufacturer specifications	
The siphon is installed where condensation is likely to accumulate	
Flue pipe material is installed according to manufacturer specifications	
Inlet air is in accordance with manufacturer specifications	
Transportation zip tie is removed and ash container is properly in place	
Gas supplied is propane or high quality LPG	
An external low pressure regulator is installed	
Propane specialist conducted a leak, flame and pressure test	
You were issued a certificate of inspection from your propane technician	

Cinderella and their affiliates accept no liability for DIY installations. Customers are responsible for following manufacturer instructions, ensuring code compliance, and consulting qualified installers when needed.

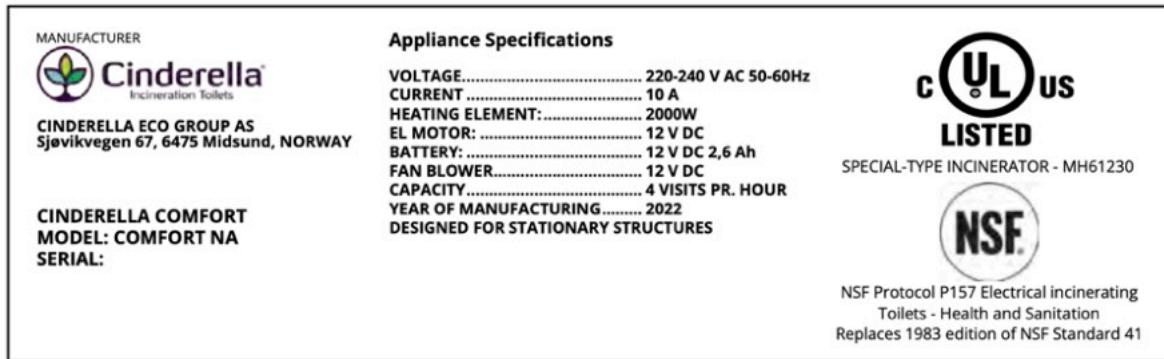
Each Cinderella model has specific environmental constraints, maintenance and installation requirements, which are detailed in the manual and visualized in the chart below. Please be aware that any installation outside of Cinderella's stipulated requirements will void the warranty.

Model	Meters	Feet	BTU/hr	Operating Temp
Comfort	2,500	8,200	N/A	-20°C - +40°C or -5°F - +105°F
Freedom	1,500	4,920	9,260	
Travel	2,000	6,560	10,500	

## Cinderella Comfort & Premium (220-240vAC)

Comfort and Premium are electric models that have been tested and approved by UL as well as NSF. Both models have the C-UL-US and NSF mark, indicating they meet safety requirements in Canada, the US, and other relevant standards.

You can find the appliance rating plate on the back of the incineration toilet or on newer models also located on the inside of the lid. This plate shows you the model ID, serial number, electrical and gas specifications etc.



## Electrical Specifications

To guarantee optimal performance, it is crucial to establish a reliable connection to a compatible 240vAC power and must be installed in accordance with National Electrical Codes, as well as all state, municipal and local codes.

Power Requirements	Input	Current	Fuse
	220-240V AC	9 A	10 A
Power Consumption	<b>Standby Mode</b>		<b>Incinerating</b>
	0.5W		2000W   ~1.5kWh per use
Power Connection	<b>Cable Cross Section</b>		<b>Plug Type</b>
	2 mm <sup>2</sup> / 14 AWG		NEMA 6-15P
Power Cable Length	Approximately 6 feet / 1.8 m		

### **Warning:**

- Avoid using power converters, as they may overheat, damage, or pose safety risks.
- Don't use batteries, generators, or solar panels as they may not provide sufficient power.
- Tandem breakers should be avoided.
- Any changes to the electrical must be done by a qualified professional
- Customers with frequent lightning strikes, outages, or rolling brown/blackouts should consider alternative sanitation solutions.

## Ventilation Component Specifications

Cinderella offers complete kits includes necessary parts for an ideal installation, optimizing the incinerating process and functionality of your toilet including UV stabilized PP quality pipes for installing the inlet and outlet ventilation. Kits are sold separately from the toilet.

Using unauthorized parts or deviating from the manufacturer's specifications will cause malfunction, wear, odours, and void the warranty. Contact a local tradesman or dealer for more information.

**Box 1 - Accessory Kit - 101865**



**Box 2 - Ventilation Kit - 101857**



Should you or your installer wish to source your own, it is important to adhere to the manufacturer specifications outlined in your product manual or the chart below.

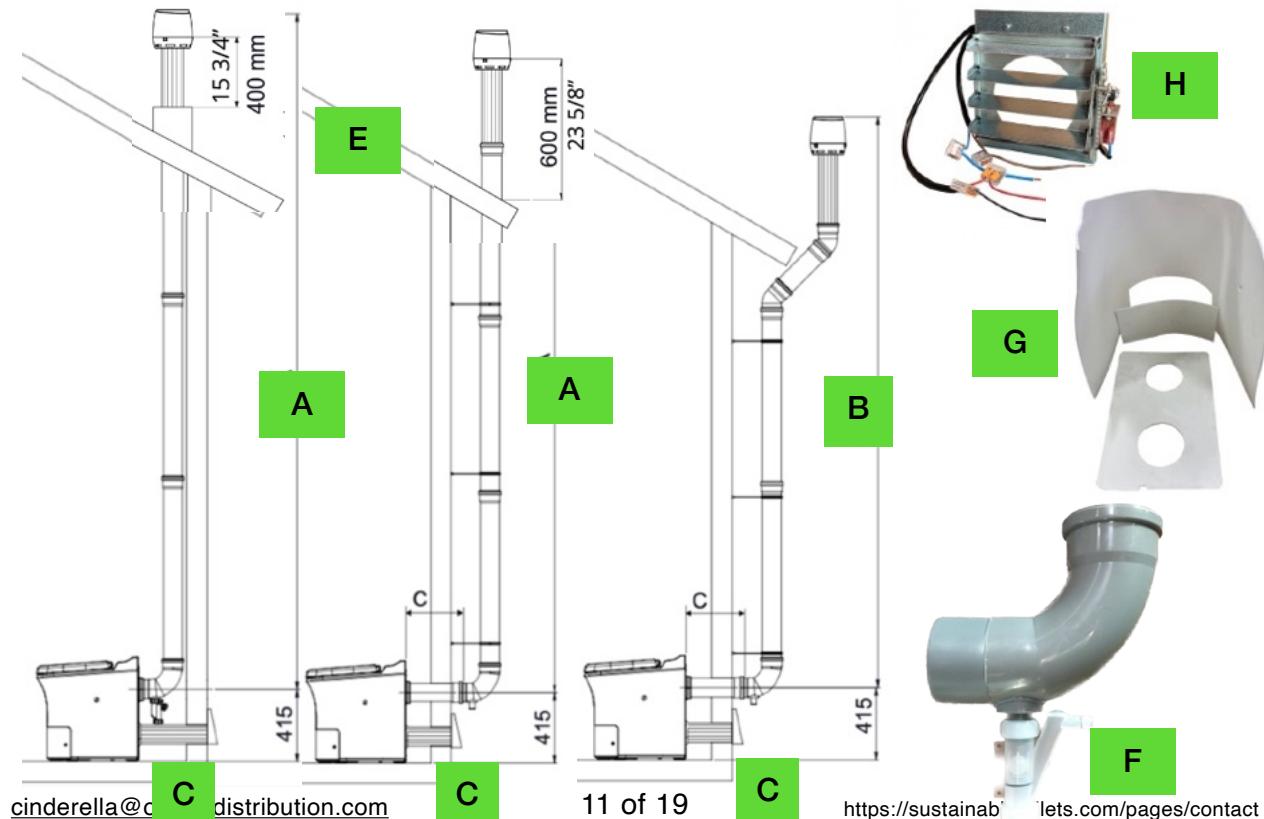
Item	Specifications
Ventilation Pipes	Rigid, hard pipes that feature a smooth inner surface, with a minimum temperature tolerance of 90°C (194°F). 110 mm (4 5/16 inches) pipes with a minimum inner diameter of 102 mm (4 inches).
Exhaust Elbow	Cinderella Comfort requires a smooth curved 87° elbow to minimize air flow restriction. The elbow must be accessible for rinsing the drainage pipe and cleaning the outlet pipe.
Flue Termination	Flue terminal cap that is designed for optimal flow and increased product efficiency. Too much restriction will cause the system to malfunction.
Fresh Air Intake	Rigid, hard pipes that feature a smooth inner surface; 10 mm (4 5/16 inches) pipes with a minimum inner diameter of 102 mm (4 inches). It is possible to use a 90° bend to source fresh air from beneath the floor so long as there is enough in the crawl space.

**Warning:**

- *DO NOT use any flexible ducts or pipes.*
- *NO wind fan or similar as a replacement for the chimney cap.*
- *NO 90° bends in addition to the elbow bend for exhaust.*
- *NO mesh nets or coverings in the ventilation pipes or intake locations.*
- *Minimum clearances must be 50mm (2 inches) from sides and rear of toilet.*
- *DO NOT install in a mobile or portable installation such as RV or conversion van.*

## Ventilation Installation Limitations & Options

	Pipe Diameter	Direction	Reference	Bends	Max Length
Exhaust Flue	110 mm / 4-21/64 inches	Horizontal	C	NONE	100 cm / 3.5'
	110 mm / 4-21/64 inches	Vertical	A	NONE	600 cm / 20'
	110 mm / 4-21/64 inches	Vertical	B	2 x 45°	500 cm / 16'
Air Intake	110 mm / 4-21/64 inches	Horizontal	D	NONE	100 cm / 3.5'
<b>General Information</b>		<b>Reference</b>			
Chimney Cap	Install the chimney cap <b>vertically above the roof</b> , extending at least <b>2 feet (600 mm)</b> above the surface. Extend further if snow accumulates. Don't exceed the maximum pipe length. Cinderella's chimney cap optimizes flow and product efficiency.				E
Siphon	If a siphon or back-flow preventer is installed inside a structure, use it as a trap. Some installers may use a custom hose with a clamp for draining into an alternative location.				F
Arctic Insulation	A specialized insulation kit designed to provide enhanced protection in cold or humid environments. It adds insulation to the toilet shell, preventing water and ice buildup and reducing wear on the appliance and interior.				G
Intake Baffle	Recommended for cold or humid climates. Works best with the arctic kit. Increases efficiency and comfort.				H



## Comfort Installation Conformance Checklist

Control Items	Check
The connected voltage is in accordance with the appliance rating plate	
The appliance is connected to its own circuit with proper breaker	
The exhaust pipe length is within manufacturer specifications	
The intake pipe length is within manufacturer specifications	
The chimney cap is installed to manufacture specifications	
Flue pipe material is installed according to manufacturer specifications	
Transportation zip tie is removed and ash container is properly in place	
You were issued a certificate of inspection from your electrician	

Cinderella and their affiliates accepts no liability for DIY installations. Customers are responsible for following manufacturer instructions, ensuring code compliance, and consulting qualified installers when needed.

Each Cinderella model has specific environmental constraints, maintenance and installation requirements, which are detailed in the manual and visualized in the chart below. Please be aware that any installation outside of Cinderella's stipulated requirements will void the warranty.

Model	Meters	Feet	BTU/hr	Operating Temp
Comfort	2,500	8,200	N/A	-20°C - +40°C or -5°F - +105°F
Freedom	1,500	4,920	9,260	
Travel	2,000	6,560	10,500	

## Cinderella Travel (Propane)

The Cinderella Travel models have been tested and approved by UL, a consumer safety testing organization. They have the C-UL-US mark, indicating they meet safety requirements in Canada, the US, and other relevant standards.

You can find the appliance rating plate on the inside of the lid. This plate shows you the model ID, serial number, electrical and gas specifications etc.



## Electrical Specifications

To guarantee optimal performance, it is crucial to establish a reliable connection to a compatible 12V DC power source. This connection not only powers the device but also influences its overall performance and longevity.

Power Requirements	Input	Current	Supply Fuse
	12V DC (11.5-14.5V)	4 A	10 A
Power Consumption	Sleep Mode	Standby Mode	Incinerating
	0.005 A	0.09 A	1.3 A
Connection Polarity	Cross Section	Positive (+)	Negative (-)
	2 mm <sup>2</sup> / 14 AWG	RED	BLACK
Main Power Switch	Found inside the uni with the shell removed, under the fan.		
<b>12V Wiring Guide</b>			
0 - 15 feet / 0 - 4.5 m	15 - 25 feet / 4.5 - 7.5 m	25 - 40 feet / 7.5 - 12 m	
AWG 14	AWG 12	AWG 10	

**Note:** Connect the 12 V supply on its own circuit with a 10 A fuse at the beginning. In a camper, the negative and positive DC connection cables should not be connected together to avoid electrical interference and damage to components.

This toilet is designed specifically for mobile applications and requires a 12vDC supply. Ensure the correct voltage, frequency, and amperage are supplied from a dedicated, grounded circuit protected by a properly sized circuit breaker (minimum 10 A). See low voltage symptoms chart below.

Voltage Related Sounds, Symptoms & Light Signals		
11.5 - 14.4V	Normal Voltage	Continuous Green Light
10.5 - 11.5V	Low Voltage	Flashing Green Light
9.50 - 10.5V	Minimum Operating Voltage	10 Beeps, flashing green light after 1.5 minutes. Gas Valve shuts off. Fan issues. Hatch issues.
< 9.5V	Critical Voltage	10 Beeps / immediate appliance shutdown.

## Powering Options

Most Popular Power Options for Cinderella Travel			
			
Universal AC to DC 12V 10A Power Adapter	12V AGM, Flooded Deep Cycle, or LiFePO4 Battery	Portable Battery Pack with 12V Output	120VAC to 12VDC Adapter

This is an excellent all-around option for various applications needing a consistent 12V power supply. Check out our Kedron model specific for Cinderella

It's common to set up a solar system for Travel. Batteries provide reliable energy delivery, ensuring smooth operation for extended periods.

\*A 100-135AH battery + 100-150 watt panel should provide a good starting point.

Portable and expandable products like the ANKER SOLIX are perfect for powering your devices on the go. They offer a reliable 12V output, no matter where you are.

For AC to DC conversions, we recommend adapters like the Samlex SEC-1223 or SEC-1235.

## Ventilation Components and Options

The toilet is delivered separately from the most components for installation. An installation package is available for optimal installation is required. Using unauthorized parts or deviating from the manufacturer's specifications will cause malfunction, wear, odours, and void the warranty. Contact a local tradesman or dealer for more information.

<u>Travel Toilet</u>	<u>Ventilation Kit</u>	<u>Build-In-Box</u>
<b>IN THE TOILET BOX</b> <ul style="list-style-type: none"> <li>Travel Toilet</li> <li>Box of 100 Tavel Liners</li> <li>Roof Feed Through</li> <li>Docking Frame</li> <li>Chimney Top</li> <li>Winter Extension</li> <li>Control Panel</li> </ul> 	<b>VENTILATION KIT</b> <ul style="list-style-type: none"> <li>Inlet Flange</li> <li>Insulation Sleeve</li> <li>Inlet Hose</li> <li>Exhaust Hose</li> <li>Inlet Hose Clamps</li> <li>Exhaust Hose Clamps</li> <li>Power Connector</li> </ul> 	<b>BUILD-IN-BOX</b> <ul style="list-style-type: none"> <li>(Optional)</li> <li>Frame Box &amp; Top</li> <li>2 x Pipe Covers</li> <li>1 x Pipe Bracket</li> <li>12 x Screw Plugs</li> </ul> 

Should you or your installer wish to source your own, it is important to adhere to the manufacturer specifications outlined in your product manual or the chart below

<b>Item</b>	<b>Specifications</b>
Ventilation Pipes	Acid resistant, flexible, stainless steel, with a minimum temperature tolerance of 118°C (244°F). UL 1777 and ULC S635 Listed.
Exhaust Insulation	Flexible, closed-cell elastomeric insulation, handling high temperatures up to 150°C (302°F).
Fresh Air Intake	Flexible intake venting. May be insulated if desired.

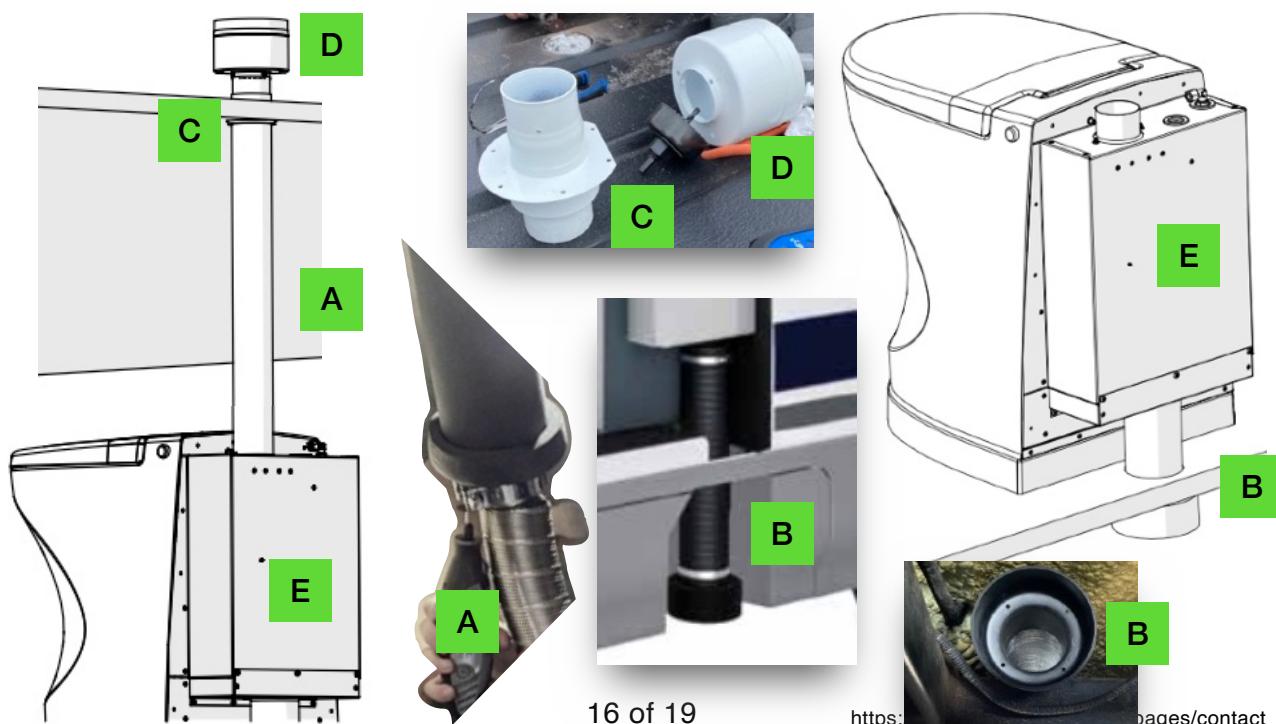
## Installation Limitations & Options

For optimal performance, Cinderella recommends hiring a professional installer. Cinderella Travel can be retrofitted into various vehicles, including RVs, boats, tiny homes, skoolies, and medical vans. This may involve replacing toilets, removing black water tanks, ensuring 12V control power and propane, providing adequate air supply, and installing an exhaust pipe extending beyond the roof.

	Pipe Diameter	Direction	Reference	Bends	Max Length
Exhaust Flue	60 mm / 2-1/2"	Vertical	A	Gentle	250 cm / 100"
<i>*No horizontal stretches longer than 60cm / 2-1/2 inches. No 90° bends. Cover pipe with insulation.</i>					
Air Intake	80 mm / 3-5/32"	Vertical	B	Gentle	120 cm / 3.5"
<i>*Do not put any mesh or covering over the intake. No 90° bends.</i>					
	<b>General Information</b>				Reference
Roof Flange	Ensure the material quality meets EN 1.4016. If objects are within 1 meter (3.3 feet) of the chimney cap or snow on the roof obstructs air flow, install an extension between the flange and the chimney cap.				C
Chimney Cap	Heavy duty, galvanized stainless steel, air cooled chimney cap for high-wind areas.				D
Inspection Hatch	Access to the top of the Build-in module is crucial for easy connection access, allowing annual inspection and leak testing of the gas connection. Use Build-In-Box if wall penetration isn't possible.				E

### Warning:

- Minimum clearances must be 50mm (2 inches) from sides and rear of toilet
- DO NOT install in a mobile or portable installation such as RV or conversion van.



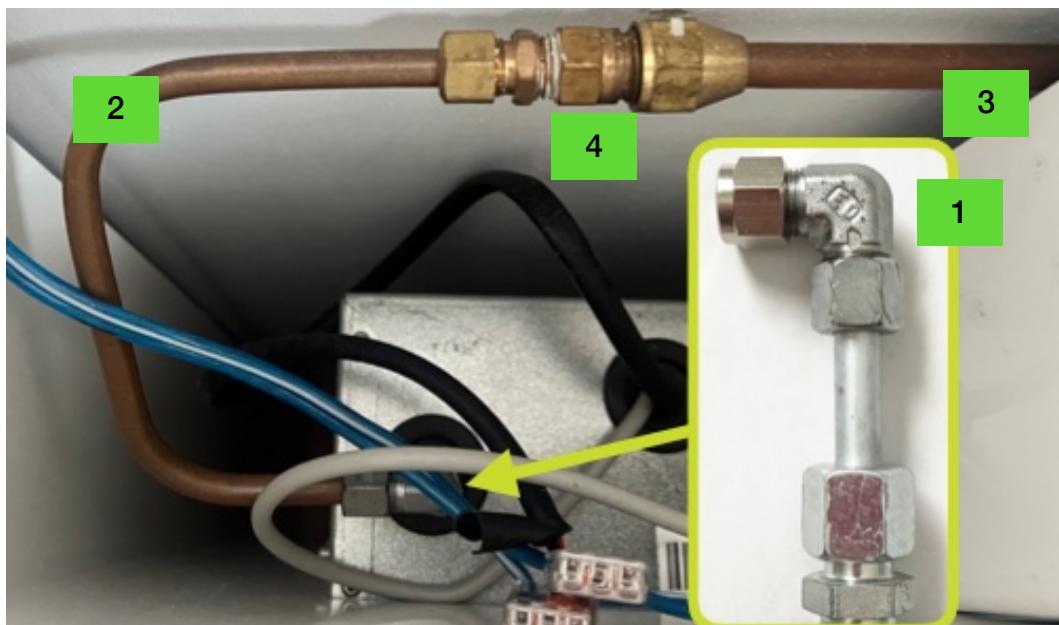
## Propane Installation

A qualified and licensed propane specialist **must** exclusively connect this toilet to the gas supply, following the technical and regulatory standards of the installation region. A gas technician's presence will prevent potential issues by conducting necessary flame and leak tests and adjustments as required. A separate gas shut-off valve is required when connecting to an existing gas supply line.

For a safe and secure connection, use 8mm (5/16") or 10mm (3/8") pipe to connect to the toilet's adapter. The original 8mm connection must remain for its UL certification. DIY installers may be confused. Our dealers and certified propane installers may use similar connections or alternatives as shown in the illustration and listing below.

Please see photo example of a typical installation with an 8mm (5/16") to 10mm (3/8") converter fitting connecting to the original 8mm elbow, for clarity with more installation examples on the next page.

#	Propane Accessory	#	Propane Accessory
1	8mm (5/16") 90° Compression Fitting	3	8mm (5/16") Copper pipe
2	8mm (5/16") Copper pipe	4	Various conversion fittings



**Warning:** Gas pressure changes with temperature. The Travel is a mobile appliance, so its pressure changes with the ambient temperature. For example, at 20°C (60°F), the pressure in the tank is about 115 PSI, while at -10°C (14°F), it's about 45 PSI. As you go south, you use more butane, and in some places, only butane is used. Butane burns like propane but has different characteristics.

## Customer Installation Examples



## Travel Installation Conformance Checklist

Control Items	Check
The connected voltage is in accordance with the appliance rating plate	
The connected gas pressure is in accordance with the appliance rating plate	
The flue pipe length is within manufacturer specifications	
The chimney cap is installed more than 2' above the roofline	
The chimney cap is installed to manufacturer specifications	
The siphon is installed where condensation is likely to accumulate	
Flue pipe material is installed according to manufacturer specifications	
Inlet air is in accordance with manufacturer specifications	
Gas supplied is propane or high quality LPG	
An external low pressure regulator is installed	
Propane specialist conducted a leak, flame and pressure test	
You were issued a certificate of inspection from your propane technician	
A propane supply shut off valve and sticker is installed.	

Cinderella and their affiliates accept no liability for DIY installations. Customers are responsible for following manufacturer instructions, ensuring code compliance, and consulting qualified installers when needed.

Each Cinderella model has specific environmental constraints, maintenance and installation requirements, which are detailed in the manual and visualized in the chart below. Please be aware that any installation outside of Cinderella's stipulated requirements will void the warranty.

Model	Meters	Feet	BTU/hr	Operating Temp
Comfort	2,500	8,200	N/A	-20°C - +40°C or -5°F - +105°F
Freedom	1,500	4,920	9,260	
Travel	2,000	6,560	10,500	