

# Pluto Dual

The Truly Dual Air Refrigeration Unit



**VOLVO AIR**

## Green, Sustainable, Efficient and Reliable

Businesses face new challenges continuously. From increasing fuel costs to new noise or food safety regulations, there are a lot of variables that can cripple your operations. And while facing such challenges, you're still expected to continue to always deliver the freshest product possible. That's where Volta Air can help you.

Our range of electric and hybrid vehicle refrigeration units can suit all your needs. Irrespective of the kind of vehicle you have, Volta Air has efficient temperature control or refrigeration solutions for you.



### Pluto Dual Electric Reefer Unit

Pluto Dual is our most advanced no-idle electric reefer with dual compartments. The dual independently controlled cooling compartments can be used to transport fresh and frozen products at the same time, thus saving time and money. Unlike any other reefer unit on the market, Pluto Dual can operate for up to 10 hours on battery or continuous operation on engine mode. The battery's operating time can vary with ambient temperature, insulation, application, and door openings.



## Pluto Dual is the right choice for you. Find out why!

### **Dual Cooling**

The Pluto Dual has two independently controlled cooling zones that can be set to different temperatures. So, you can transport fresh as well as frozen products at the same time, in the same vehicle.

### **Green, Clean and Sustainable**

The Pluto Dual is an electric refrigeration unit and so makes zero emissions. It is clean and environment-friendly technology that's not only sustainable but also helps you cut down operational costs by 30-50%!

### **Flexible Operation**

The Pluto Dual electric reefer unit is flexible and will easily adjust according to your needs. It is adjustable enough that you can transport frozen and fresh goods together as per your requirements. Just set the temperature you want in each compartment and the rest will be taken care of!

### **Low Noise**

The Pluto Dual produces low noise levels in all operating conditions. So, you can stop worrying about breaking any noise regulations, ever.

### **Fuel Savings & Reduced Operational Costs**

The Pluto Dual will help save fuel for you by optimizing performance according to capacity and demand. This will reduce the fuel consumption of the vehicle. Less fuel consumed means lower operational costs and better profit margins.

### **Smart Digital Temperature Controller**

The smart digital temperature controller enables accurate monitoring and control of your cargo's temperature from the control panel. It comes with a smart temperature management system that helps improve efficiency while maintaining the temperature.

### **Volta Air, CARB Approved**

Most of our refrigeration systems, are approved by the California Air Resources Board. This makes you eligible for TRU exemption from registering units or doing expensive compliance upgrades. You are also eligible for an 80% rebate in California with the approval of CARB!

**Sustainable refrigeration solutions by Volta Air  
Designed and Engineered in Canada.**

## In-Cab Integrated Smart LCD Display Unit / Controller

With advanced control options, easy to program, and a clear LCD Backlit display, the Volta Air Smart Controller display unit is designed for optimal control of the refrigeration unit. The unit allows access to multiple functions and options, while guaranteeing optimal temperature control and accurate system reporting. The PLUTO DSR Display is fully integrated with alarm codes and information symbols for easy readability and rapid response.



### Smart Control Panel with Advanced Digital Technology

- Easy installation
- Advanced controls within a simple interface
- Accurate refrigeration monitoring and management
- Highly configurable for specific applications

### The LCD Control Unit

- Reduced service costs and fewer maintenance callouts
- Separated display and control board for easy and clean installation
- LCD backlit, with brightness control, for clear readability in all light conditions

### Automated Features

- Low voltage protection, automatic recovery from power loss
- Manual and automated defrost command, with optional scheduling
- Variable fan and compressor speed control to ensure optimal performance and extend battery life
- Automatic shutdown if a door is left open, reduces cooling losses
- Over-the-air firmware updates

### Optional Features

- Integration with TriTrackers application that allows for real-time temperature monitoring, GPS location tracking and system diagnostics.
- Independent control of multi-temp units
- Set-point lock
- Better manage the safety of your drivers and your products
- See suggestions for replacements to dodge expensive repercussions
- Preventative maintenance scheduling and reminders (TBD)

# Specifications

Model		Pluto Dual	
		Fresh	Frozen
Working Voltage		12V	12v
Refrigerant		R-134a (2.6 lbs)	R-134a (2.2 lbs)
Cooling Capacity	+ 15°C (60°F)	3300 W (11500 BTU/hr)	3000 W (10200 BTU/hr)
	+5°C (41°F)	2700 W (9212 BTU/hr)	2300 W (7860 BTU/hr)
	-15°C (5°F)	1200 W (3800 BTU/hr)	1400 W (4775 BTU/hr)
Heating and Defrost		Hot Gas Heating	Electric Heating
Heating Capacity		1400 W (3400 BTU/hr)	1500 W (4800 BTU/hr)
Compressor Type		24V DC Brushless Electrical	24V DC Brushless Electrical
Evaporator Air Volume		>1380 m <sup>3</sup> /h / 818 CFM	>1050 m <sup>3</sup> /h / 620 CFM
AMP Draw	Average	35A 24V	51A 24V
	Maximum	48A 24V	63A 24V
	Recommended Alternator	250A-300A	
Condenser Weight		30 kg (68 lbs)	31 kg (68 lbs)
Condenser Dimensions		1100 x 800 x 217 mm (43.3 x 32.8 x 8.5 in)	1100 x 495 x 203 mm (43.3 x 19.5 x 8 in)
Evaporator Dimensions		766 x 530 x 153 mm (30.2 x 20.9 x 6 in)	635 x 254 x 254 mm (25 x 10 x 10 in)
Evaporator Weight		13.5 kg (29.7 lbs)	10kg (22.5 lbs)
Average Installation Time		6.0 hours	6.0 hours

## Trusted By Companies Of All Sizes



## **VOLTA AIR TECHNOLOGY INC.**

### **Clean Refrigeration for Urban Delivery**

Volta Air is a manufacturer for a range of sustainable refrigeration solutions for all kind of vehicles and applications.

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