



Air Conditioning Electric

# ACE 238DLGS Series



## High Performance Electric Roof-mounted HVAC

### Breakthrough Technology

The ACE238DLG was the first of many production systems in the transit industry to use SUTRAK's generator power (2006), marking a milestone in the movement from mechanical compression systems to electric scroll compression. Beyond the efficiency gains, these systems allow for containing the refrigerant loop and improved performance, providing even cooling capacity across all vehicle operations.

### Complete System

The ACE234DLG“S” (stacked) takes all of the technology and features of the standard profile system and packages it into smaller footprint system. It comes complete with integrated scroll compressors, 3-phase blower and fan motors, electronics and microprocessor controls. Two of these housings are combined with a 30kVA power generation system to make up the ACE238DLGS for articulated buses.

“DL” (Dual loop) models are a patented design operating with balanced 50% or 100% capacity while reducing parasitic loads by more than 50% when compared to traditional bus HVAC systems. These dual loop systems offer redundancy in the field.

“G” packages offer integration of a power generation package. An air-cooled synchronous a.c. generator is belt driven off the main engine. Other related components include frequency and voltage regulation, safety protection and more.

### Optional Accessories

- Integrated Pressure Transducers
- Digital keypad display/controller
- J1939 Control
- Electric Heat
- Hybrid Battery Cooler



The ACE238DLGS on a 2011 NABI 60-foot articulated bus

### Features

- ✓ Dual Scroll Compressors in each housing
- ✓ No external refrigerant runs
- ✓ Redundant refrigerant loops
- ✓ 50% or 100% capacity operation

### Applications

- ✓ 60-ft transit buses, especially with limited roof space
- ✓ ACE238DLS: Hybrid buses with onboard power source for HVAC
- ✓ ACE238DLGS: Buses without onboard power source for HVAC. Requires “G” package.

### Specifications

Dimensions (h/w/l):	14.25/76.00/100.00 (inches)
Weight:	875 lbs. (app. with compressors)
Cooling Capacity:	96,000 BTU
Heating Capacity:	100,000 BTU's (glycol)
Opt. Electric Heat:	9-12 kW via resistance heating
Refrigerant:	R-134a Standard (R407C optional)
Supply Voltage (a.c.):	50-3-380/420 (standard-“G” model)
*Opt. Supply Voltage:	50-3-200/220, 60-3-200/230, 60-3-460
Power Consumption:	27.1 amps@460VAC 10.0 amps@24VDC

(Two of the above housings with associated performance capacities and power requirements are required for ACE238DLGS)

*\*This design is available as an ACE234DLS in various fixed voltages for installations with an onboard power source.*

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