



THE WALL-MOUNT™ AIR CONDITIONER WITH TELECOMMUNICATION MODULE UPGRADE

DESCRIPTION

The Bard Wall-Mount telecommunication air conditioner is designed to provide reliable year around temperature control for communication equipment shelters with a high internal heat load. With such a high internal heat load, these shelters require cooling even when outside temperatures drop below 65°F. The Bard Wall-Mount telecommunication air conditioning unit has the necessary safety controls and components to operate during these temperatures.

Factory installed safety controls for the Wall-Mount telecommunication air conditioning unit includes (5) five safety controls and components. These are identified by control module “J”.

Factory installed control module “J” includes:

- Auto reset high pressure control is connected to the compressor control module ① which shuts down the unit if the refrigerant pressure rises above a specified PSIG. This protects the compressor if airflow through the condenser is blocked or if the outdoor fan motor fails.
- Auto reset low pressure control is connected to the compressor control module ① which shuts down the unit if the refrigerant pressure drops below 14 PSIG (+/-4). This control protects the unit if airflow through the indoor blower is impeded, if the blower motor fails, dirty filter condition, or if there is a loss of refrigerant. In addition, the compressor control module includes a built-in 2-minute timed low pressure bypass circuit. During mechanical cooling in low ambient temperatures this prevents nuisance tripping on low pressure start-up.
- Low ambient control is mandatory whenever the compressor operates below 65°F and permits cooling operation down to 0°F. The low ambient control cycles the condenser fan in order to maintain head pressure in the outdoor unit. Without the low ambient control, the evaporator coil will freeze up due to low head pressure. This in turn causes liquid refrigerant to flow into the compressor and damage it.
- Alarm relay has a set of normally open and normally closed dry contacts to provide the ability to signal a condition of unit shut down on either the high or low pressure control.

① *Compressor control module also includes an adjustable 30-second to 5-minute delay on break timer to allow refrigerant pressure equalization. If there is a power interruption there is also a delay-on-make that is equal to 10% of delay-on-break setting. The module also provides the lockout feature (with one retry) for high and low pressure controls, and the 2-minute timed bypass for low pressure control.*

APPLICATIONS

- Communication equipment shelters
- Electronic equipment shelters
- Remote access buildings
- Cable/Satellite buildings
- PCS enclosures

AIR CONDITIONING WALL-MOUNT MODEL NOMENCLATURE

W36A2-A10XXXXXJ

↑— Telecommunication module

Refer to Specification Sheet S3485 (1-Ton) &/or S3461 (1½ to 6-Ton) for more detailed information. For 50 HZ electrical characteristics, refer to 50HZ Specification Sheet S3408 for more detailed information.