



V5A (Conventional FM mode) Pre-installation Summary Sheet

Mechanical, Electrical, and Cooling Data

Electrical			
Nominal output power	5,000 W		
Output power range	750 W to 5,500 W		
Power consumption	8,065 W at 5 kW		
AC power factor	0.93		
Overall efficiency, AC input to RF output	62% typical		
Transmitter AC input configuration	3-phase, 3 wire, switch mode power supply (with single phase, 2 wire, switch mode power supply option)		
AC input voltage	208 V 3-phase	380 V 3-phase	220 V 3-phase
AC fuse & conductor size	Consult local electrical codes		
Total line amps at nominal modulation	24	13	39
AC entrances*	Terminals on rear, right-hand side of cabinet. For top or bottom entry, use existing holes.		
Grounding / earthing	The site must contain a station reference ground, as defined in Nautel's <i>Recommendations for Transmitter Site Preparation</i> booklet. This ground must provide a continuous, low impedance path to the earth. The transmitter cabinet's designated reference ground point, the shield of the coaxial feed cable, and the ground connection of the power source's surge protection devices must be connected directly to the station reference ground using, as a minimum, four-inch (100 mm) copper strap.		

Cooling	
Cooling air volume	790 cfm
Air flushing ^{1†}	Fans at the rear of each RF power module and between each pair of power supply modules draw cooling air from the rear of the transmitter and exhausts through the front of the transmitter. For open ventilation systems, air from the RF power modules exhausts at the top front of the compartment, while air from the switching power supply modules exhausts at the bottom of the front door.
Heat dissipation	3,065 W at 5 kW (10,460 Btu/hr)
Air conditioning load	0.87 ton at 5 kW

Mechanical	
Dimensions	189.2 cm H x 81.3 cm W x 88.9 cm D (74.5" H x 32" W x 35" D) 1 cabinet
Weight	280 kg (615 lbs)
RF output connector	3 1/8 inch EIA flange, female (1 5/8 inch and 7/8 inch available)
Remote control connections ¹	Top center of cabinet.

* As viewed from front of transmitter

† Closed ventilation systems available upon request.