



ND5 Pre-installation Summary Sheet

Mechanical, Electrical, and Cooling Data

Electrical						
Nominal output power	5,000 W (5,500 capable)					
Output power range	500 W to 5,500 W					
Power consumption	10,000 W at 5 kW 100% modulation					
AC power factor	3-phase .95 Single-phase .65					
Overall efficiency, AC input to RF output	75% typical					
Transmitter AC input configuration	3-phase, 3 wire WYE plus safety ground. Single phase, 2 wire plus safety ground option.					
AC input voltage	208 V 3-phase	240 V 3-phase	400 V 3-phase	480 V 3-phase	220 V 1-phase	240 V 1-phase
AC fuse & conductor size	Consult local electrical codes					
Total line amps at nominal output	19	17	10	9	47	44
AC entrances	Top or bottom of cabinet					
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	680 m ³ /h (400 cfm)
Air flushing*	Transmitter exhausts air through RF power module's front panel.
Heat dissipation	2,500 W at 5 kW 100% modulation (8,533 Btu/hr)
Air conditioning load	0.71 ton at 5.0 kW 100% modulation

Mechanical	
Dimensions	H 186 cm (73.5") x W 61 cm (24") x D 80 cm (31.5") 1 cabinet
Weight	305 kg (670 lbs.)
RF output connector	7/8 inch EIA flange
Remote control connections	Mounted on transmitter chassis behind control monitor panel

* As viewed from front of transmitter.