



NA100 Pre-installation Summary Sheet

Mechanical, Electrical, and Cooling Data

Electrical		
Nominal output power	100 kW	
Output power range	10,000 W to 110,000 W	
Power consumption	179 kW at 100 kW at 100% modulation	
AC power factor	0.98	
Overall efficiency, AC input to RF output	83% (85-88% typical)	
Transmitter AC input configuration	3-phase, 3 wire WYE plus safety ground	
AC input voltage	400 V 3-phase	480 V 3-phase
AC fuse & conductor size	Consult local electrical codes	
Total line amps at nominal output	175	146
AC entrances	External AC switching assembly	
Grounding / earthing	<p>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.</p>	

Cooling	
Cooling air volume	10,200 m ³ /h (6,000 cfm)
Air flushing	Transmitter exhausts to room (with option for duct work)
Heat dissipation	28,571 W at 100 kW 100% modulation (97,515 Btu/hr)
Air conditioning load	8.1 ton at 100 kW 100% modulation

Mechanical	
Dimensions	H 186.7 cm (73.5") x W 376 cm (148") x D 87.4 cm (34.5"). 3 cabinets
Weight	2,025 kg (4,464 lbs)
RF output connector	3 1/8 to 6 1/8 inch EIA female
Remote control	Top center of control cabinet