



XR25 Pre-installation Summary Sheet

Mechanical, Electrical, and Cooling Data

Electrical					
Nominal output power	25,000 W				
Output power range	5,000 W to 30,000 W				
Power consumption	44,643 W at 25 kW, 100% modulation				
AC power factor	0.95				
Overall efficiency, AC input to RF output	84% typical				
Transmitter AC input configuration	3-phase, 3 wire plus safety ground				
AC input voltage	208 V	240 V	400 V	480 V	600 V
AC fuse & conductor size	Consult local electrical codes				
Total line amps at 25 kW, 100% modulation					
AC entrances ¹	Access to the AC/DC power supply is gained via the rear panel.				
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	1,400 m ³ /h (800 cfm)
Air flushing	Cooling air enters rear of cabinet, flows through power modules, and exhausts through top front of the cabinets.
Heat dissipation	7,143 W at 25 kW, 100% modulation (24,379 Btu/hr)
Air conditioning load	2.03 ton at 25 kW, 100% modulation

Mechanical	
Dimensions	184 cm H x 134 cm W x 104 cm D (72.5" H x 53" W x 41" D) 2 cabinets
Weight	550 kg (1,200 lbs)
RF output connector	3 1/8 inch EIA O/P flange
Remote control connections ¹	Terminal block inside front door

¹ As viewed from front of transmitter