



## XR12 Pre-installation Summary Sheet

### Mechanical, Electrical, and Cooling Data

Electrical				
Nominal output power	12,000 W			
Output power range	1,000 W to 13,200 W			
Power consumption	21,400 W at 12 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
AC fuse & conductor size	Consult local electrical codes			
Total line amps at 12 kW, 100% modulation	63	54	33	27
AC entrances <sup>1</sup>	Through 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	1,020 m <sup>3</sup> /h (600 cfm)
Air flushing	Cooling air enters through rear of cabinet and exhausts through top.
Heat dissipation	3,428 W at 12 kW, 100% modulation (11,702 Btu/hr)
Air conditioning load	0.97 ton at 12 kW, 100% modulation

Mechanical	
Dimensions	184 cm H x 72 cm W x 104 cm D (72.5" H x 28.5" W x 41" D) 1 cabinet
Weight	329 kg (725 lbs)
RF output connector	1 5/8 inch EIA O/P flange
Remote control connections <sup>1</sup>	Terminal block inside front door

<sup>1</sup> As viewed from front of transmitter