FM3.5 Pre-installation Summary Sheet

Mechanical, Electrical, and Cooling Data

Electrical			
Nominal output power	3,500 W		
Output power range	1,750 W to 3,850 W		
Power consumption	5,385 W at 3.5 kW		
AC power factor	0.90		
Overall efficiency, AC input to RF output	65% 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-PH	380 V 3-PH	220 V 1-PH
AC fuse & conductor size	Consult local electrical codes		
Total line amps at nominal output	17	9	29
AC entrances*	Terminals on lower, rear, right-hand side of the cabinet. For bottom-entry, use existing hole. For top-entry, punch hole.		
Grounding / earthing	The site must contain a station reference ground, as defined in Nautel's *Recommendations for Transmitter Site Preparation* 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	637.5 m^3/h (375 cfm)
Air flushing	From top of transmitter, air exhausts to room or can be ducted.
Heat dissipation	1,885 W at 3.5 kW (6,433 Btu/hr)
Air conditioning load	0.54 ton at 3.5 kW

Mechanical	
Dimensions	H 186 cm (73.5") x W 74 cm (29") x D 80 cm (31.5") 1 cabinet
Weight	364 kg (800 lbs)
RF output connector	1 5/8 inch EIA flange female
Remote control connections*	Top left-hand side of cabinet

* As viewed from front of transmitter.

Nautel Limited 10089 Peggy's Cove Road, Hackett's Cove, Nova Scotia, Canada B3Z 3J4
Tel: +1.902.823.2233 Fax: +1.902.823.3183 info@nautel.com