

## ARCHIMEDE T 2000-3000-5000-6000 WATT SERIES

The new exciters, high power **ArchimedeT** series, are realized with technology ICEFET\*, that allows drastic decrease of the temperature to a sensitive reduction of the consumptions.

**ARCHIMEDE T 5Kw** is a system of total quality thanks to a diagnostic remote, fast and capillary assistance, low consumptions, duration in the time and it is easy to use.

All the components of the series shared the same characteristics to the RF module, power supply, logics of control, systems of protection, derating, facility of installation and simplicity of setup. The advantages of the module systems are as follows:

- All technological improvement on the basic product is directly transferred on the apparatuses of the series.
- Automatic diffusion of the knowledge and maintenance
- Interchangeability and independence of the each module base
- Common parts of exchange on the whole series

System of the power supply switching by PFC (380 V three-phases or 230 V mono phase), high efficiency.

Logic proportional protection without interruption of the operation, predisposition for telemetry.

The new line of FM transmitters launched by **ITALAB**, "Simply Fet", are characterized of an important efficiency refinement; in fact, with regard to RF part, it passes 83% and the entire performance of the transmitter is 73%.

This product also involves a low environmental impact and it is aimed at high energy saving.

For example, it is possible to liken the new 5Kw "Simply Fet" to a classic valve with the same power, which medium efficiency is 50%.

### TECHNICAL CHARACTERISTIC

Frequency range:	87.5 - 108 MHz ( others on request )
Low pass filter:	Band 87.5 MHz - 108 MHz
Rack	All the mechanical part is in "ALODINE" yellow aluminum treated 4 units - 34 Kg
Visualized parameters	More than 50 visualized parameters on display LCD
Setting parameters operation	From the frontal panel through encoders and LCD
CPU	YES
Redundance power supply	YES
Redundance fan	YES
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CPU	YES
Redundance power supply	YES
Redundance fan	YES
Rf dispositive	DUAL FET
<b>CONNECTORS</b>	
Output RF connectors	FLANGE - EIA 7/8"
Audio input channel L/R	XLR female
Input connector MPX	BNC female
Connector SCA	BNC female
<b>RF BLOCK</b>	
General stability of the output power	+/- 0,1 dB
Output impedance	50 ohm
Armonich suppression	> 70 dBc
Spurie suppression	> 80 dBc
Input impedance	50 ohm (amplifier version)
Gain	18dB ± 1
Threshold of ROS Software	10 % output power ± 1
Threshold of ROS fast hardware	10 % ± 1
AM Asynchronous residual	0.10%
AM synchronous residual	0.20%
Efficiency	76% tip.
<b>COOLING SYSTEM</b>	
Different temperature of the air in entrance / gone out (@ 25 °C in )	13 °C
Type of cooling	Forced air
<b>ENVIRONMENTAL CONDITIONS</b>	
Temperature (working)	0 ° +45 °C
Temperature (not working)	-20° - +70°C
Umidity (working)	95% a 40 °C
Umidity (not working)	90% a 65 °C
Altitudine (working)	≤ 4.500 meters
Altitudine (not working)	≤ 10.000 meters