PORTABLE RO BTU/h CALCULATION

This Tech Note provides the proper conversion from Amps and Volts, to Watts, in order to provide an estimated BTU/h calculation for the Mar Cor® EON® and WRO 300H Portable Reverse Osmosis (RO) machines. A BTU/h calculation will provide you the amount of heat necessary to raise, or lower, the temperature of one pound of water by one degree Fahrenheit.

GUIDANCE

While not everyone may need to calculate the BTU/h for these devices, this will provide guidance when inquiries regarding the specific calculation are requested:

AMPS * VOLTS = WATTS WATTS * 3.41 = BTU/h

The corresponding chart below provides specific calculations for the EON and the WRO 300H:

EON Portable RO Water Purification System		EON						
		Amps	Volts		Watts	Factor		BTU/h
Mode of Operation	Heat Disinfect	15	115		1725	3.41		5,882
	Normal Operation	7.5	115		863	3.41		2,943
	Standby	N/A	N/A		N/A	N/A		N/A

WRO 300H Portable RO Water Purification System		WRO 300H						
		Amps	Volts		Watts	Factor		BTU/h
Mode of Operation	Heat Disinfect	15	115		1800	3.41		6,138
	Normal Operation	3	115		360	3.41		1,228
	Standby	0.5	115		60	3.41		205

Note: All values are estimates and may vary due to incoming voltage. Multiply 3.41 by watts to get BTU/Hr.