

TELEMARK Product Unpacking and Installation

**Product manuals are found on the enclosed USB drive
Please read manuals before installing and operating equipment**

1

Unpack equipment from shipping box

Check equipment matches packing list

Save shipping box



2

Load the supplied Telemark Product USB in your computer and view or print out manuals needed

Manuals are also available at telemark.com



3

If needed, load software from the USB on a Windows PC for the 861 or Programmable Sweep



4

Read manual before installing equipment



5

For EB Sources: Review cooling water requirements and flow direction

Instructions are on this document or can be found on the Reference Dimensions drawing for your model EB source



6

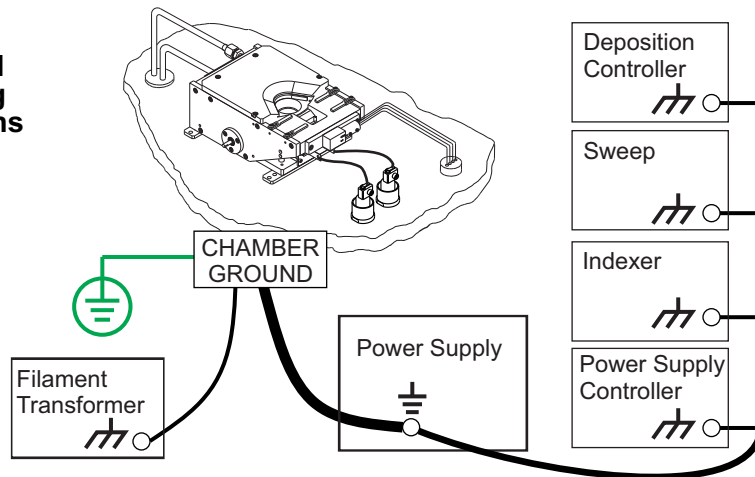
Review electrical requirements

Specifications are on this document or can be found in the manual



7

Review Safety and Grounding instructions in manual



The vacuum tank, EB source, power supply, controller, sweep, deposition controller and filament transformer must all be connected to a good earth ground.

8

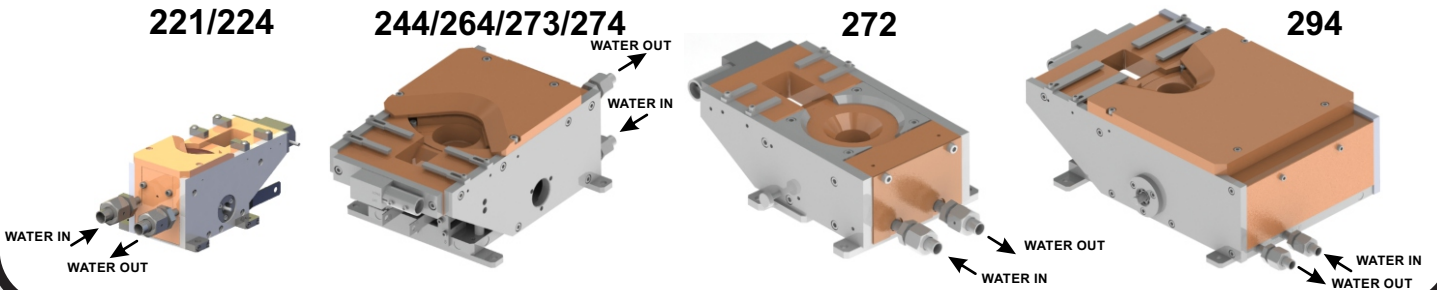
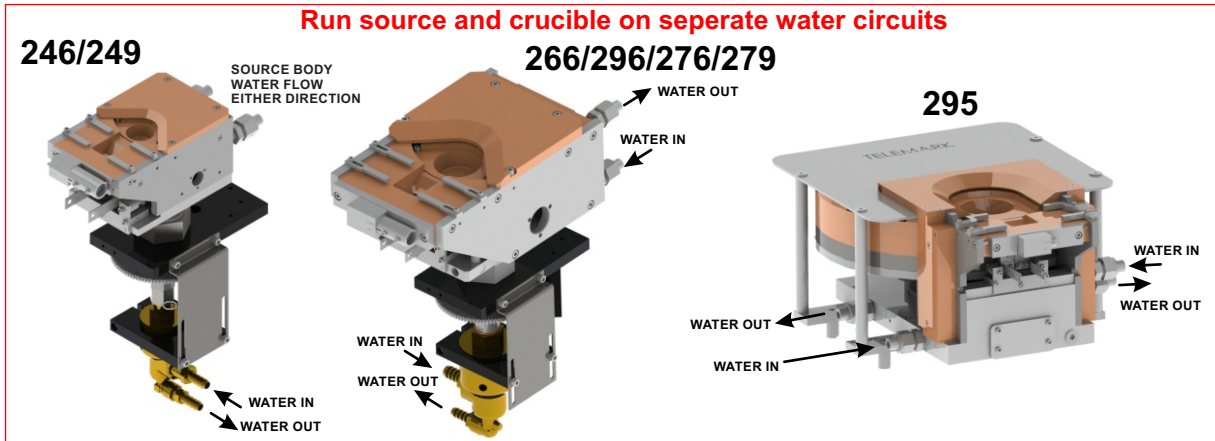
Read Manual before operating equipment



TELEMARK Specifications

Source Water Flow Direction

All sources should have a water flow switch on the output
 Water flow is not direction sensitive for models
 211, 218, 259, 263, 293 508, 528, 568, 575, 578



Power Supply Specifications

Model	Line Frequency	Line Current
ST-4 208VAC	50/60Hz	16A
ST-4 400VAC	50/60Hz	9A
ST-6 208VAC	50/60Hz	23A
ST-6 400VAC	50/60Hz	12A
ST-8 208VAC	50/60Hz	30A
ST-8 400VAC	50/60Hz	15A
SX-10 208VAC	50/60Hz	39A
SX-10 400VAC	50/60Hz	22A
SX-12 208VAC	50/60Hz	42A
SX-12 400VAC	50/60Hz	27A
TT-6 208VAC	60Hz	35A
TT-6 400VAC	50/60Hz	23A
TT-10 208VAC	60Hz	60A
TT-10 400VAC	50/60Hz	35A
TT-15 208VAC	60Hz	73A
TT-15 400VAC	50/60Hz	42A
TT-20 400VAC	50/60Hz	50A

All Power Supplies Line Voltages +/-5%
 Check manual for proper line fuse rating

Source Specifications

Model	Power Rating	High Voltage Range	Source Water	Crucible Water*
211/218	6 kW	-6 kV to -10 kV	2 gpm	
221	3 kW	-5 kV to -7 kV	2 gpm	
224	4 kW	-5 kV to -7 kV	2 gpm	
272/259	14 kW	-6 kV to -10 kV	3 gpm	
244/246/249	6 kW	-6 kV to -10 kV	2 gpm	2 gpm
263/293	10 kW	-4 kV to -10 kV	3 gpm	
264/266/271/273/ 274/276/279	10 kW	-6 kV to -10 kV	3 gpm	3 gpm
294/297	10 kW	-6 kV to -10 kV	3 gpm	3 gpm
295	10 or 15 kW	-6 kV to -10 kV	3 gpm	5 gpm
508/528	3 kW	-5 kV to -7 kV		2 gpm
568	6 kW	-5 kV to -8 kV	2 gpm	2 gpm
575	8 kW	-6 kV to -10 kV	2 gpm	2 gpm
578	10 kW	-6 kV to -10 kV	2 gpm	2 gpm

All Input water temperature should be 60-70 F (15-21C) at a pressure of 60 psi (4.1 bar). Supply water lines to be 3/8" (10mm) except for the 295 15 kW crucible is to be 1/2" line

* Specification for sources with separate crucible water lines

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