

# TFS-3007-HP

## Filamentary X-ray Source

TruFocus Ordered P/N	Min. Voltage (-kV)	Max. Voltage (-kV)	Max. Current (mA)	Max. Power (W)	Focal Spot Size (mm)	Weight (LB)	Flux Stability (RSD %)	Target Material	Beam Angle	Cooling Method	Filament	Maximum Operating Temperature (°C)
TFS-3007-HP	5	30	10	300	0.5	8	0.2*	Tungsten (W)**	40° Cone Angle	Water + 50% Propylene glycol	2.5V max @ 2.1 A max	55

\* Does not exceed 0.2% RSD over 4-Hour period when used with appropriate Power Supply.

\*\* For different options of Target Materials, see Target Materials Available list below . Tube Specifications are based on Tungsten Target, other materials may cause of derating of specifications.



**TFS-3007-HP** is an industrial tube that is suited for a wide variety of analytical applications.

### Target Material Available

Ag	Au	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pd	Rh	Ta	Ti	W
----	----	----	----	----	----	----	----	----	----	----	----	----	---

Maximum power limit depends on the X-ray source target material. See Figure1 below for power limits of different target materials available on TFS-3007-HP.

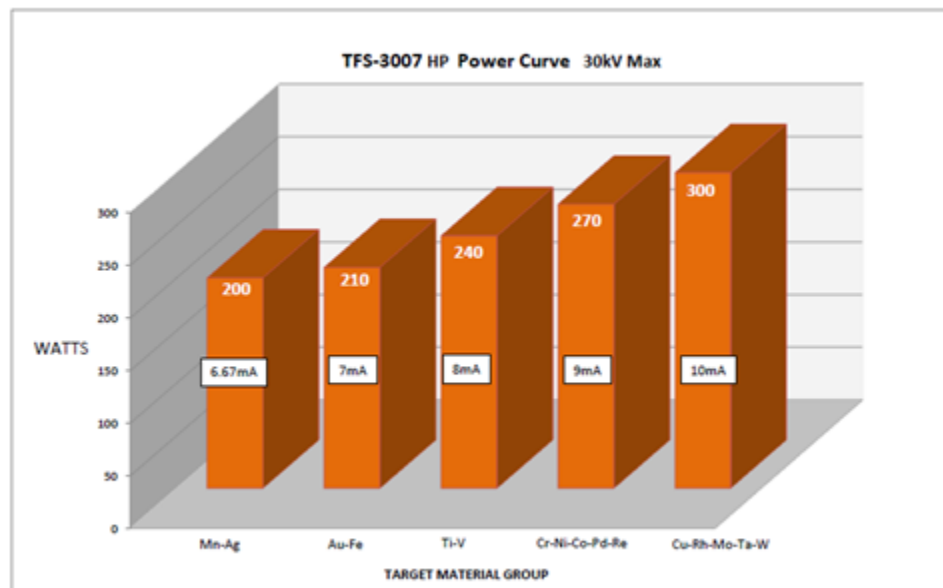
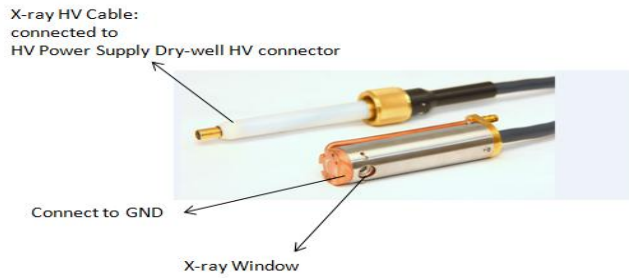


Figure 1 Maximum Tube Power vs. Target Material

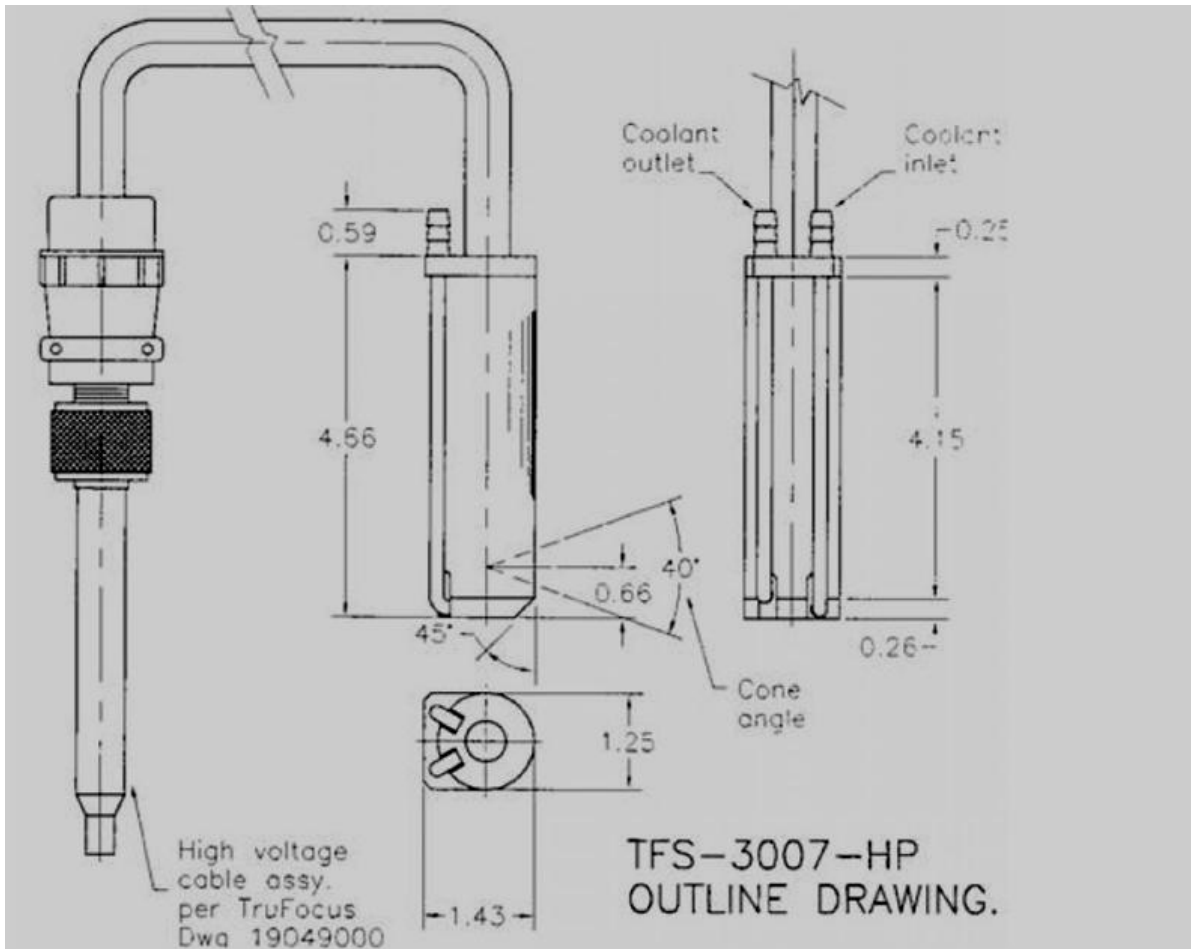
## TFS-3007-HP X-ray Source Overview



## Outline Drawing

**Note:**

- 1) Cable length will be supplied per customer requirements
- 2) Dimensions do not include screwheads
- 3) Coolant inlet and outlet Bard type fitting accept 1/4" Dia ID flex tubing



# Caution

## X-Ray Radiation



1. X-Ray radiation is harmful to the human body. It is necessary to take all safety precautions when operating this device.
2. The x-ray tube should be installed in an x-ray shielded cabinet to avoid exposure. It is recommended that the safety interlock system be used at all times.
3. It is the customer's responsibility to provide shielding for the use of this device.

## Warranty Information

This x-ray tube is warranted to be free of defects in materials and workmanship for a period of 365 days (1 year). This warranty is limited to repair or replacement of defective products only. This warranty replacement cost to customer shall be prorated over the duration of the warranty period. The warranty period commences on the date of installation, but no later than 30 days from the date of shipment from TruFocus to the customer. Any loss, damage, failure and/or malfunction relating in any way to accident, abuse, alteration, misuse, neglect, fitting, disassembly, attempted repair, storage, adjustments of the electronics, or failure to use the tube within the specifications or operating instructions provided by TruFocus, or the lack of proper routine maintenance and care of the tube or system in which it is installed are expressly denied coverage under this warranty.

Subject to local and technical requirements and regulations. Availability of product in this promotional material may vary. Please consult with our office staff for availability.

***Information furnished by TruFocus is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are subject to change without notice. Patent rights are granted to any and all of the circuits described herein. © 2013 TruFocus Corporation***