

APPLICATION NOTE

Measuring W/Rh on Planmed Clarity For Black Piranha

This application note contains a correction table for the kV measured on the Planmed Clarity the Black Piranha.

The Planmed Clarity comes with Tungsten anode with a total of two different anode/filter combinations; W/60 μ m Rh, and W/75 μ m Ag.

With the Black Piranha it is recommended to use the calibrations M11 (W/75 μ m Ag) and M6 (W/50 μ m Rh). Using the M6 calibration it is recommended to use the corrections in this document.

This application note's corrections comes from a limited amount of measured data.

Due to the limited data there can be variations in kV because the data is not based on tubes of different aging.

Introduction

Use this table when you are measuring W/Rh (M6) on the Planned Clarity with the Black Piranha.

The below tables are valid for Black Piranhas calibrated after September 1, 2015.

Tube voltage (kV)	W/Rh (M6) Large Focus
23	-0.1 kV
25	-0.7 kV
26	-0.8 kV
28	-0.9 kV
30	-0.5 kV
32	-0.2 kV
35	-0.1 kV

Instruction

The table values correct the measured (displayed) tube voltage value depending on set kV and focal spot size, when measuring 60 mm from the chest wall.

The table should be used with RTI QABrowser/ oRTigo or Ocean measuring tube voltage and the correct RQ Code (M6) selected in the program. The detector is placed in the radiation field and the user makes an exposure. Finally the measured tube voltage is read in the display and then manually corrected with a number from the applicable table.

Note! These corrections are valid if your system is calibrated after 2015-09-01

Example

Measured or set tube voltage:	26 kV
Radiation quality:	W/Rh (M6)
Focal spot:	Large
Measured tube voltage:	25 kV
Correction:	-0.7 kV for 25 kV
Corrected tube voltage:	$25 - 0.7 = 24,3$ kV