

High Frequency Radiographic Generators



Spectra 50HF operator's console

- 50, 40, 30 and 20 kW power ratings
- Anatomical or manual technique selection
- Automatic exposure control option
- Digital imaging compatible

AMERICOMP

Affordable Choices in Radiography

Since 1987, the quality standards of Americomp have been unsurpassed. Americomp systems remain the affordable choice in today's marketplace, offering the same long term dependable performance that has become synonymous with the Americomp name.



Spectra 50HF, 40HF, 30HF and 20HF High Frequency Generators

Power at an Affordable Price

Designed for clinical use, 20 kHz High Frequency technology delivers the benefits of reduced patient exposure, maximum diagnostic image quality and extended tube life.

Choose Between AP, Manual or AEC Mode

With three modes to choose from, the user-friendly operator console provides maximum flexibility and full control of the powerful generator. Americomp generators display technique factors for the x-ray exposure as well as the exposure parameters. The soft-touch arrow buttons provide complete control to modify any technique factor or parameter.

AP (Anatomical Programming) Mode

This helpful feature (optional on the 20HF and 30HF) offers consistent, effortless images by fast, automatic technique selection in three easy steps:

1. *Select the anatomical region.*
2. *Select the radiographic view.*
3. *Select the patient centimeter thickness.*

For greater flexibility, the AP program can be modified and the changes saved to memory. Customized AP menus and parameters can be saved.

Manual Mode

Offering fast 2-point selection of only the kVp and mAs factors, the generator will automatically select the highest mA station and the shortest exposure time – resulting in less image blur caused by patient motion. The large LCD window displays the kVp, mAs and mA station, allowing modifications to be made prior to the x-ray exposure.

AEC (Automatic Exposure Control) Mode

An optional Automatic Exposure Control (AEC) and receptor ionization chamber is available on all High Frequency generators. This state-of-the-art feature terminates the exposure automatically at the exact mAs necessary to obtain the optimal image.

Specifications	Spectra 50HF	Spectra 40HF	Spectra 30HF	Spectra 20HF
Output power rating	50 kW	40 kW	30 kW	20 kW
Output frequency	20kHz	20 kHz	20 kHz	20 kHz
Maximum output	500 mA @ 100 kVp	500 mA @ 80 kVp	300 mA @ 100 kVp	300 mA @ 66 kVp
kVp range and selections	40 – 125 in 1 kV steps	40 – 125 in 1 kV steps	40 – 125 in 1 kV steps	40 – 125 in 1 kV steps
mA range and selections	50s, 100s, 200L, 300L, 350L, 400L, 450L, 500L	50s, 100s, 200L, 300L, 350L, 400L, 450L, 500L	50s, 100s, 150L, 200L, 250L, 300L	50s, 100s, 150L, 200L, 250L, 300L
mAs range	0.2 - 600	0.2 - 600	0.5 - 400	0.5 - 400
Exposure time range	0.004–3.0 seconds	0.004-3.0 seconds	0.004-2.66 seconds	0.004-2.66 seconds
Power requirements (see options below)	230 – 240 VAC 3 phase	230 – 240 VAC 3 phase	230 – 240 VAC 1 phase	208 – 240 VAC 1 phase
Made in the U.S.A.	✓	✓	✓	✓
Options				
Anatomical programming	Standard	Standard	✓	✓
500 mA (50s,100s, 200L, 300L, 350L, 400L, 450L, 500L)	Standard	Standard	✓ (see Note 1)	n/a
Automatic Exposure Control (AEC) with integrated electronics	✓	✓	✓	n/a
Line match transformer	For 208-229 V 3 phase electric service	For 208-229 V 3 phase electric service	For 208-229 V 1 phase electric service	n/a
Line match transformer	For 380-480 V 3 phase electric service	For 380-480 V 3 phase electric service	n/a	n/a
Wall mounting kit for operator console	✓	✓	✓	✓
Floor pedestal for operator console	✓	✓	✓	✓

Notes: 1. If the 500mA option is selected, the mAs range will be 0.2-600, time range will be .004-3.0 seconds, and the mA selections will be 50s, 100s, 200L, 300L, 350L, 400L, 450L and 500L.

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