AGFA
RADIOLOGX
SOLUTIONS

Scalable radiography system

DR 400

The DR 400 system is a flexible and affordable solution. Floor-mounted and easy to install, it takes little space and does not require expensive ceiling supports. At the same time, its adaptable configurations allow it to be tailored to the specific needs of most customers.

Datasheet

AGFA

SCALABLE AND AFFORDABLE FLOOR-MOUNTED RADIOGRAPHY SYSTEM

> Flexible configurations and options for most needs

> Floor-mounted for cost-effective and easy installation and use

> Best-of-breed solid components, offering reliability and maximum uptime

> Can be equipped with CR and DR technology

> DR systems can be combined/integrated with Agfa CR systems for even greater versatility

Solid hardware provides reliability and maximum uptime

The robust table, with floating table top and double click foot switches, is user-friendly for both the operator and the patient. An additional benefit is the under-table mounted generator, which eliminates the need for placement within the X-ray room.

Flexible to meet every need

All versions can be offered with elevating or non-elevating radiographic tables that can handle a patient weight of up to 400 kg.

All configurations of the DR 400 can be enhanced with options such as the wall stand with tilting bucky, which provides the operator with versatility for any exam positioning. The tubehead has an integrated digital inclination display with the option to add a 10 inch interactive display. Other options include motorized tracking of the tubehead and table, wall stand, or automatic collimator.

Floor-mounted suspension provides ease of installation and use

The DR 400 can be configured with fixed, tethered and wireless DR detectors. Floor-mounted, the DR 400 is quick and easy to install, without requiring expensive ceiling supports. Its compact size even fits into limited spaces 4 x 2 m (13.12 x 6.56 ft). The generator settings are preconfigured in the software for each individual exam but can easily be changed via a user-friendly touch screen GUI interface. This efficient design adds to its flexibility.

No-excuses, best-of-breed hardware

From the robust radiographic table, to the wall stand, to the tubehead and beyond, the DR 400 offers no-nonsense, best-of-breed hardware for all its components. By improving uptime and reliability, productivity is increased as well. Less maintenance means a lower total cost of ownership (TCO), and better protection of the hospital's investment.

Services & Support

Agfa offers service agreement solutions tailored to the individual customer's situation. The service agreements are available in Basic, Comfort, Advanced and Privilege levels, making lifecycle costs predictable. A worldwide team of some 1,000 service professionals is at your disposal to provide support at all phases of your project. As an additional service, they can help you customize your examination tree or link RIS protocol codes for an even higher return on investment. Furthermore, this team carries out tasks that go well beyond maintenance, including value added services such as super user training, staff training and software upgrades.

Technical Specifications

Generators

Generator model	EDITOR HFe 401	EDITOR HFe 501	EDITOR HFe 601	EDITOR HFe 801
Input power	3 Phase 400 V	3 Phase 400 V	3 Phase 400 V	3 Phase 400 V
Max. power (kW)	40	50	65	80
Max. mA	500	625	800	800
kV-Range	40-150 kV	40-150 kV	40-150 kV	40-150 kV
Power Output @ 0.1 s	500 mA @ 80 kVp 400 mA @ 100 kVp 320 mA @ 125 kVp 266 mA @ 150 kVp	625 mA @ 80 kVp 500 mA @ 100 kVp 400 mA @ 125 kVp 333 mA @ 150 kVp	800 mA @ 80 kVp 650 mA @ 100 kVp 520 mA @ 125 kVp 430 mA @ 150 kVp	800 mA @ 80 kVp 800 mA @ 100 kVp 640 mA @ 125 kVp 530 mA @ 150 kVp
Compatible X-ray tubes	E7884X E7252X E7254FX E7869XX	E7884X E7252X E7254FX E7869XX	E7252X E7254FX E7869XX	E7254FX E7869XX

Range of radiographic parameters

mA	From 10 mA to 800 mA through the following mA stations: 10, 13, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 320, 400, 500, 650, 800. (Depending on the Generator model)
mAs	Product of mA x time values from 0.5 mAs to 600 mAs (32 steps)
ms	From 1 to 6300 milliseconds through the following time stations: 1, 2, 3, 4, 5, 6, 8, 10, 11, 13, 16, 20, 25, 32, 40, 50, 63, 80, 100, 130, 160, 200, 250, 320, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6300
AEC (Automatic Exposure Control)	mAs: 0.5 mAs to 600 mAs exposure time: Nominal shortest irradiation time = 2 ms

Technical Specifications

X-ray tubes

Housing	Focal spot	Target angle	Heat capacity (kHU)	Anode speed
Toshiba E7884X	0.6 - 1.2	12°	300	Low
Toshiba E7252X	0.6 - 1.2	12°	300	High/Low
Toshiba E7254FX	0.6 - 1.2	12°	400	High/Low
Toshiba E7869XX	0.6 - 1.2	12°	600	High/Low

Patient Table

Height (non elevating table): 700 mm (27.56")
Height (elevating table): Min 550 mm (21.65"), Max 900 mm (35.43")
Width: 770 mm (30.31")
Length of table base: 1400 mm (55.12")
Tabletop width: 810 mm (31.89")
Tabletop length: 2200 mm (86.61")
Tabletop detector distance: < 60 mm (2.36")
Radiation absorption: < 0.7 mm Al (0.03") equivalent
Tabletop travel longitudinal: 1100 mm (43.31")
Tabletop travel transverse: 240 mm (9.45")
Max. patient weight: 400 kg
Bucky travel along table access: 500 mm (19.69")
Automatic exposure control: 3-field ionisation chambers

Table mounted tubestand

Height of tubestand: 2330 mm (91.73")
Minimum room height: 2500 mm (98.43")
Tubestand longitudinal travel: 1305 mm (51.38")
Length of the X-ray tubestand arm: 930 mm (36.61")
Maximum height of X-ray tube focus (vertical position): 1800 mm (70.78")
Exact height of the focus depends on the tube type
Rotation of column with respect to its vertical axis: ± 90°
(The positions are determined by indents at 0°, ± 45°, ± 90°)
Rotation of Tube-Collimator Assembly with respect to its transverse axis: ± 110°
Transversal movement of tubehead: ± 7 cm (2.76")

Collimator (manual)

Dimensions (W x D x H): 183 x 241 x 168 mm
Inherent filtration: 2 mm Al equivalent
Full field light localizer: > 160 lx
Additional internal filtration:
- 1 mm Al + 0.1 mm Cu
- 1 mm Al + 0.2 mm Cu
- 2 mm Al
- No additional filtration

Rotation: up to maximum ± 180°
External Dose Area Product Meter (optional)

Collimator (automatic)

Dimensions (W x D x H): 244 x 282 x 216 mm
Inherent filtration: 2 mm Al equivalent
Full field light localizer: > 160 lx
Motorized shutter movement
Motorized additional internal filtration:
- 1 mm Al + 0.1 mm Cu
- 1 mm Al + 0.2 mm Cu
- 2 mm Al
- No additional filtration

Rotation: up to maximum ± 180°
Build-in Dose Area product meter (optional)

Wallstand

Height: 2245 mm (88.39")
Width: 651 mm (25.63")
Depth: 367 mm (14.45")
Minimum height detector center: 335 mm (13.19")
Maximum height detector center: 1850 mm (72.83")
Bucky vertical motion: 1520 mm (59.84")
Radiation absorption (front panel attenuation, excluding the AEC): < 0.7 mm Al equivalent
Angle bucky (tilting bucky): -20° to +90°
Wall stand surface – detector plane distance: < 50 mm (1.97")
Max load on bucky wallstand: 32 kg (70.54 lbs)
Automatic exposure control: 3-field ionisation chambers

Bucky

Bucky has always removable grids
Bucky available for 43 x 43 cm fixed detector
Bucky available for 35 x 43 cm cassette size detector (can be used for CR & DR)
Cassette size bucky can rotate from landscape to portrait

Options & system-accessories

Tubestand can be motorized for vertical tracking of tubehead on table or wall stand
Automatic collimator
10" interactive tubehead display
Auto Cassette Size Sensing in cassette size bucky (ACSS)
Mattress
Lateral cassette holder
Compression belt for table
Tilting bucky for wall stand
Spacer for wall stand
Babyholder for wall stand
Anti-scatter grids: parallel grid and focused grids with 178 l/inch, ratio 10:1 focal distances 100/150/180 cm (39.37/59.06/70.87")

Product weights

Patient table incl tubestand and generator:
- non elevating: 550 kg (1212.54 lbs)
- elevating: 610 kg (1344.82 lbs)

Wall stand: 157 kg (346.13 lbs),
196 kg (432.10 lbs) in case of tilting

Electrical connection

Line voltage: Generator is available in two versions (two different sales order codes):
- 3 line 400 V, 50/60 Hz, neutral line, protective earth: Europe version
- 3 line 400 V or 480 V, 50/60 Hz, (adjustment to 400 V or 480 V is done automatically), with or without neutral line, protective earth: US version

Power consumption:
400 V version:
- 20 kVA; 92 A (0.2s) Generator 40 kW
- 24 kVA; 113 A (0.2s) Generator 50 kW
- 35 kVA; 144 A (0.2s) Generator 65 kW
- 44 kVA; 180 A (0.2s) Generator 80 kW

480 V version:
- 20 kVA; 72 A (0.2s) Generator 40 kW
- 24 kVA; 97 A (0.2s) Generator 50 kW
- 35 kVA; 124 A (0.2s) Generator 65 kW
- 44 kVA; 154 A (0.2s) Generator 80 kW

Room

Minimum Ceiling height: 2500 mm (98.43")

Environmental Requirements

Operation

Temperature: +10 ~ +35° C
Humidity: 30 ~ 75% Rh (non condensing)
Atmospheric pressure: 700 ~ 1060 hPa
Max altitude: 3000 m

Storage and transportation

Temperature: +15 ~ +50° C
Humidity: 15 ~ 90% Rh (non condensing)

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