MR-compatible Fluid Heating System for Small Animals



Specifications

Flexible heating pads ODxLxT mm:

mouse 38x 76x3 large mouse 48x102x4 rat 57x152x5

Curved heating pads WxLxT mm:

mouse 30x 76x3 large mouse 35x102x4 rat 40x152x5

Flat heating pads WxLxT mm: mouse 30x 76x3 large mouse 35x102x4 rat 40x152x5

In bore tubing:

length 2.0 m inlet

2.0 m return

OD 3.2 mm

Heater Module

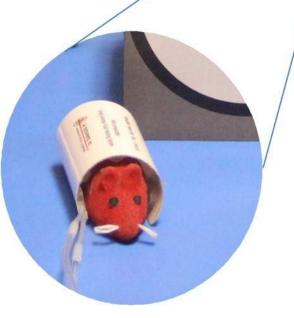
Power 115 VAC, 4 Amps

230 VAC, 2 Amps

Size hxwxd 16.4 x 8.9 x 26.0 cm

Circulator Module

Power 12 VDC, 3 Amps Size hxwxd 31.8 x 53.4 x 33.0 cm



Regulate the temperature of mice and rats during MR imaging

- Flexible heating pads 3 mm thick
- Small tubes carry fluid into the bore
- Response better than 1°C in 30 sec
- Polyether eliminates fluid signal in images

US patent 9,332,927

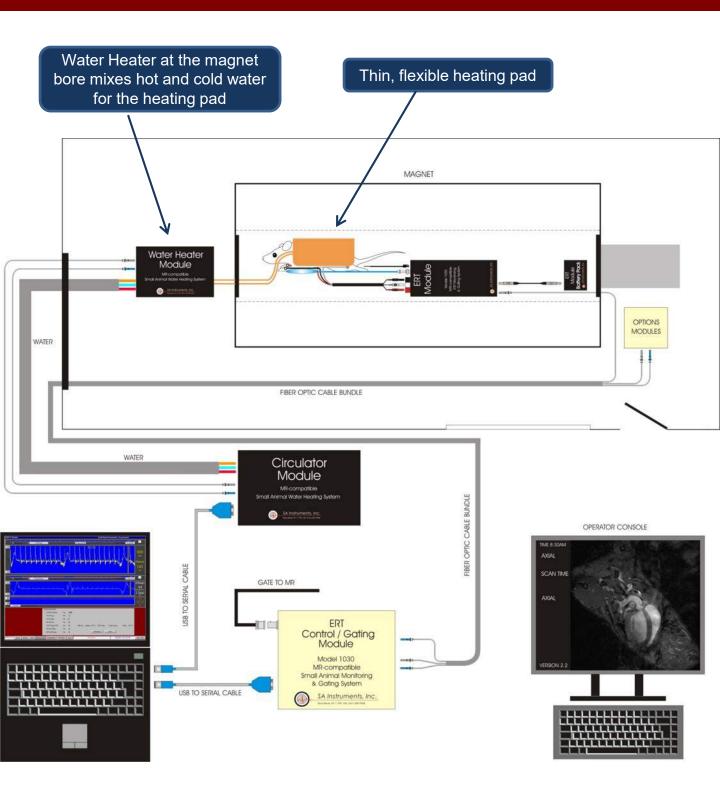


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