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MR Solutions announces the world's first 7T cryogen free pre clinical MRI scanner

MR Solutions is launching the world's first cryogen free 7 Tesla, cryogen free, preclinical MRI system. The initial system, which has a bore of 17cm, will be followed later in the year with a range of scanners with larger bore sizes.

MR Solutions is setting the pace in the preclinical imaging market with a range of ground-breaking innovations. It was only a few months ago that they announced that their cryogen free 3T MRI range could now be fitted with a clip-on SPECT camera and incorporate a state of the art PET ring inside the machine. The new range of 7T systems can also be fitted with these SPECT and PET capabilities.

Physicist and CEO of MR Solutions Dr. David Taylor said: "We have been at the forefront of scanning technology for over 30 years and have installed more than 1000 MRI Spectrometers across the world. We have combined that with challenge based thinking to come up with solutions, which deliver what our customers, want – first rate images that are relevant for their particular applications. We are in the business of supporting our client's needs, not just building machines. I think it is one of our key differentiators and why we have been able to not only achieve so many ground-breaking developments in the last 18 months but also bring down the costs."

It was only a year ago that MR Solutions developed the first commercial, range of cryogen free 3T machines that already has led to an extensive order book from academia across the world.

Its cryogen free range of MRI systems offers significant benefit to the preclinical research market. Not only does MR Solution's range offer superior soft tissue contrast and molecular imaging capabilities, they have a stray field of only a few centimetres, can be placed in Class 3 and 4 laboratories and because they do away with the bulky liquid helium cooling system and the statutory safety venting systems and building works they are significantly less expensive than competitive scanners.

MR Solutions has been able to dispense with the usual liquid helium cooling system by using a revolutionary magnet design. This enables the use of a standard low temperature fridge to cool the magnet to the required 4 degrees Kelvin (minus 269 degrees C).

The magnet in the new 7T MRI scanners has an elliptical field of view, which makes it even more suitable for research purposes, and as with the 3T range the strength of the magnetic field can be adjusted from 0 to 7 Tesla.

MR Solutions continues to lead the world in the field of pre clinical scanning and has a pipeline of new multi modality innovations being in development.

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