

## **Radialpet™**

### **Radial Wave Therapy (RWT) for Multi Orthopedic Applications**



#### **Introduction**

Radialpet™ by Medispec is a radial wave therapy (RWT) system designed to deliver extracorporeal radial wave energy generated through an electromagnetic projectile mechanism.

Developed based on extensive theoretical knowledge and broad clinical experience in Extracorporeal Shock Wave Therapy (ESWT) and Radial Wave Therapy (RWT), Radialpet™ is designed for the treatment of superficial chronic orthopedic conditions. It is recognized as a reliable and effective solution within orthopedic and rehabilitation practices.

Radialpet™ provides a safe, non-invasive, and rapid therapeutic option for resistant or non-responsive superficial orthopedic pathologies, supporting meaningful improvement in pain reduction and functional outcomes without surgical intervention.

#### **Clinical Applications**

Radialpet™ is indicated for a wide range of superficial orthopedic conditions, including but not limited to:

##### **Joint disorders:**

- Hip arthritis (coxarthrosis)
- Knee arthritis (gonarthrosis)
- Elbow arthritis (cubarthrosis)

**Tendinopathies:** Biceps tendon tendinopathy**Other superficial tendinopathies:**

- Osteoarthritis
- Hip dysplasia and hip osteoarthritis
- Knee osteoarthritis
- Elbow osteoarthritis
- Shoulder osteoarthritis

**Key Benefits****Plug and play operation**

No special electrical infrastructure required.

**No compressor dependency**

No air compressor, air filters, or water drainage, reducing maintenance requirements.

**User-friendly design**

Intuitive operation with short training time.

**Reusable applicator system**

Only tips require replacement, reducing ongoing consumable costs.

**Portable and compact**

Easily moved between treatment rooms and stored when not in use.

**Cost-effective ownership**

Low maintenance requirements and high system reliability.

**Simple and comfortable operation**

Designed for consistent, stable, and reliable treatments.

**Technology Advantage**

Unlike pneumatic radial wave devices that rely on compressors, high-voltage power sources, and ongoing maintenance procedures, Radialpet™ operates using an electromagnetic, non-compressor-based mechanism. This design simplifies operation, reduces maintenance needs, and enhances system portability.

Additionally, the absence of air pressure contributes to improved handpiece stability and enables efficient coverage of larger treatment areas. This results in more controlled energy delivery and improved patient comfort during treatment sessions.

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**Radial wave devices comparison**

| Device Parameters      | Medispec Radialpet        | Storz Masterpuls MP100                    | Storz D-ACTOR® 100 ultra                |
|------------------------|---------------------------|---|---|
| Energy Source          | Electromagnetic           | Pneumatic                                 | Pneumatic                               |
| Maximum Energy Density | 0.43 mJ / mm <sup>2</sup> | 0.22 mJ/mm <sup>2</sup>                   |   |
| Compressor Pressure    | None                      | 1-4 bar                                   | max. 5 bar                              |
| Tip Size               | 6, 15 & 25 mm             | 6 to 15 mm                                |   |
| Burst mode             | yes                       |   |   |
| Compressor             | No                        | Yes                                       | Yes                                     |
| Measurements           | 360x160x300mm             | 500x600x500mm*                            | 426x144x340mm<br>(without touch screen) |
| Hand Carry             | Yes<br>365x170x330mm      | No<br>Big & requires a cart<br>for moving | Optional<br>585x840x585mm               |
| Weight                 | 3.8 kg                    | 62 kg                                     | 10.5 kg                                 |