

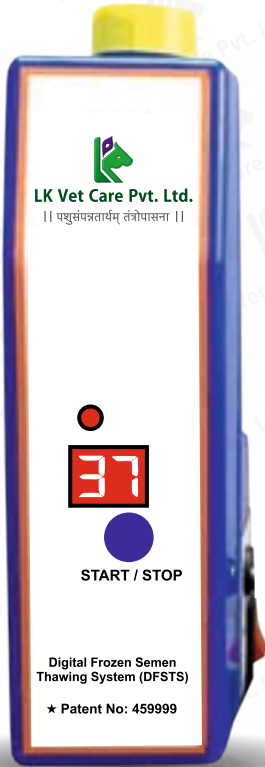
DFSTS (Thaw Monitor)

Design Patented



LK Vet Care Pvt. Ltd.

॥ पशुसंपन्नतार्थम् तंत्रोपासना ॥



Digital Frozen Semen Thawing System (DFSTS)

Brand: Milkotronics

- Maintains Perfect Thawing Temperature (37°C) of Semen.
- Vertical Methodology & Water Thawing (40 MI) in only 30 Secs.
- Uniform Homogeneous Distribution of Sperms in Semen Straw after Digital Thawing, as Compared to Conventional Manual Thawing.
- Compact, Lightweight, Portable, Easy to Use.
- Operates on Vehicle Battery and Mains Power Supply.



DFSTS Application



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General Technical Specifications Digital Frozen Semen Thawing System (DFSTS)

Adapter	Input-100-240v AC; 50/60 Hz; Output-12v 5a, with Mains Cord and 3-pin Top
Battery Cable	Battery Cable (Minimum 1 mtr) for Connecting to Vehicle (Motorcycle) Battery and Thawing Unit with a Soft Bag for Carrying Device.
Device Indicators	Seven Segment Display for Temperature and Set-point Indication, Unit Default; Audio Indication (buzzer) while Unit On/ Off And Thawing Cycle Completion.
Enclosure Body	Abs Body (External); Aluminum Tube Inside for Semen Straw
Operating Temp.	+5° To +45° C Temperature
Packaging	Bubble Sheet & Carton Packing
Power Supply	Inbuilt Feature to Connect with the Motorcycle Battery via a Battery Cable
Size	Height Of Device - 195 To 200 mm Device Width - 60 To 65 mm Flask Outer Diameter - 18 To 20 mm Flask Height - 140 To 145 mm
Sensor	Temperature Sensor of PT 100 or Equivalent: +0.01°C to +0.02°C
Set Points for Thawing of Straw	Cow: Temperature of 37° or 38° C Buffalo: Temperature of 39° or 40° C Fixed Temperature as per requirement.
Thawing Details	Programmable Heating Cycle from 4 Minutes to 6 Minutes (Factory Default: 4 Minutes) PID Control Action for Accurate Temperature Control
Methodology	Water as a medium for Thawing (approx. 40 ml); Vertical Thawing Methodology
User Operation	Easy Operation by using 2 Keys (Up & Down Arrow Key); Built-in Vibrator for Uniform Distribution of Semen.
Weight	0.5 Kg (only Device); 0.9 Kg (with Adapter)
Device Test	Certification for Temperature (Hot & Cold); Vibration (1-Axis)

Features	Advantages	Benefits
Vertical Water Bed	Vertical Thawing	Good Result compare to horizontal thawing
Microprocessor based temperature controller with built in PID Algorithm	Temperature Accuracy of +0.1°C to +0.2°C of measured value	Wide range of temperature availability
	Operating Temperature Range +5° C to 50° C	Uniform thawing of Frozen Semen and helps in activating the sperms.
Ultrasonic Vibrator	Uniform Temperature on all sides of Frozen Semen Straw.	Uniform thawing of Frozen Semen and helps in activating the sperms.
Programmable Heating Cycle	Cycle ranges from 4 mins to 6 mins (Factory Default Time: 4 mins)	Convenience in operation.
Seven Segment Display	Simplicity & ease in operation	Skilled person is not required for this operation.
Audio Indication (Buzzer)	Simplicity & ease in operation	Skilled person is not required for this operation.

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