

TECHNICAL SPECIFICATIONS

Controller	PIC24 16-bits
Keys	3 Push Buttons
Display	3 digits, 7-Segment Display for temperature(°C) and time set-point indication, unit default (°C)
LEDs	6 LEDs Indicator
Bluetooth	BLE 4.2 In-built
Battery	12V Li-Ion 5000mAh; Battery life can support up to minimum 30 thawing cycles(1 straw at a time) or last for 3 days, whichever is earlier under standard operating conditions
Adaptor	Input-100-240VAC; 50/60 Hz; Output – 14VDC 4A
Power supply	14VDC 4A
Straw Detection Sensor	IR sensor
Temperature Sensor	PT100
Water Level Sensor	Conductive type
Temperature Resolution	0.1 °C
Thawing Temperature Accuracy	+/- 0.2 °C
Thawing Medium	Water (Volume approx. 40 ml)
Thawing Temperature	35 to 42 °C (cloud control)
Thawing Time	30 to 120 second (cloud control)
Vibrator	In-built
Enclosure	ABS (External)
Operating Temperature	-5 to 50 °C
Buzzer	Auto-indication while unit on/off and thawing cycle completion
Operation	Operation of heating and thawing should be operated through mobile app
Weight of the Equipment	~900 gm
Tweezer	Metal Tweezer for handling of semen straw