

Revella Cell Thawing System

Standardize the thaw.

Protect the process.

Water-free, automated cell thawing for controlled and traceable workflows

4 Independent
Wells

Typical Thaw
Time ≤ 3 min

Automatic
Vial Ejection



Move beyond operator-dependent thawing

Thawing helps establish the starting condition for downstream expansion and process consistency. Revella turns an operator-dependent step into a controlled, repeatable dry-contact process.

Traditional Water Bath		
Open-water Exposure	Manual Endpoint	Limited Traceability
Adds cleaning burden and contamination-control concerns.	Timing and removal depend on operator attention.	Process data are typically not captured automatically.

Revella workflow		
Water-free Dry Contact	Automatic Endpoint	Recorded Process
Reduces open-water handling in controlled environments.	Each vial is ejected when the programmed endpoint is reached.	Thawing, operation and alarm records support review and traceability.

“ Revella does not change the biological principle of rapid thawing - it standardizes how the process is executed and recorded. ”

A controlled thaw in four steps

Four independently monitored channels allow teams to run samples as needed while preserving a consistent operator experience.

CONTROLLED VARIABLES

TEMPERATURE

TIME

ENDPOINT

RECORD

Insert

Place a compatible frozen vial vertically into an available well.

01

Clamp & detect

The holder closes automatically and the instrument confirms correct insertion.

02

Monitor & control

Dry-contact heating and infrared sensing track each vial independently in real time.

03

Eject automatically

At the programmed endpoint, the vial ejects and audible/visual prompts confirm completion.

04

“

Typical workflow: ≤ 3 minutes for the standard configuration once the instrument is ready.

”

Four stations. One standardized process.



Each well operates independently

At-a-glance status

Color indicators and on-screen progress simplify run supervision.

01

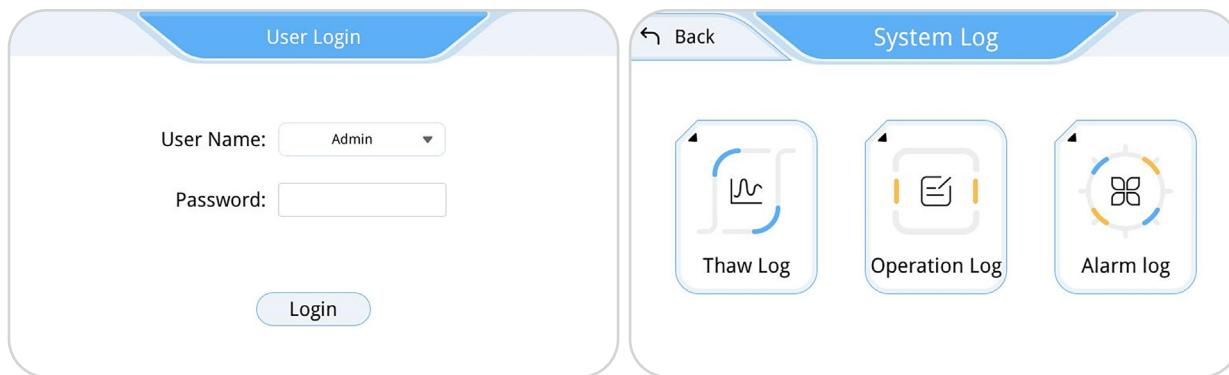
Sample identification

Operators can assign sample IDs to support record review.

02

Built for traceable operation

Role-based access, system-managed records and configurable export functions help answer the questions behind every run: who operated, when, which program, and what the process recorded.



The image shows two side-by-side panels. The left panel, titled 'User Login', contains a 'User Name' dropdown menu with 'Admin' selected, a 'Password' text input field, and a 'Login' button. The right panel, titled 'System Log', has a 'Back' button and three log icons: 'Thaw Log' (a line graph), 'Operation Log' (a document with a pencil), and 'Alarm log' (a gear with a cross).

Three user levels

Administrator, manager and operator permissions support separation of responsibilities.

01

System-managed records

Users cannot manually modify or delete system records; export and backup support the configured retention procedure.

02

RUN RECORDS

Sample ID • start time • duration • user

EXPORT

USB PDF • Wi-Fi/email delivery • optional printing

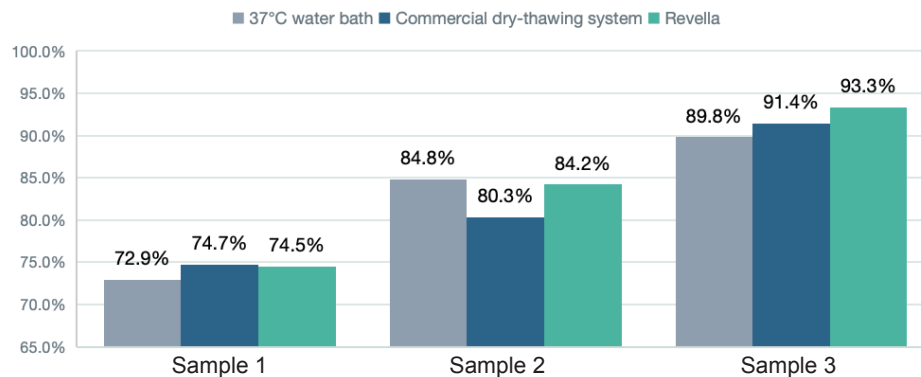
ALARMS

Over-temperature • operating errors • self-check status

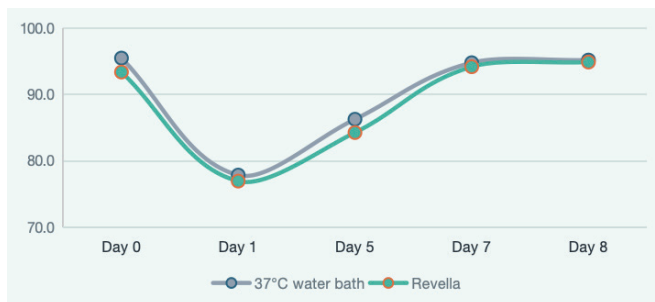
Comparable performance in iPSC and T-cell workflows

Customer evaluations show Revella delivering comparable iPSC viability across three thawing workflows, while longitudinal T-cell data demonstrate closely aligned recovery and expansion through Day 8.

iPSC post-thaw viability across three workflows | n = 3 cell samples



T-cell viability remained aligned through Day 8



DAY 8 FOLD EXPANSION

56.76× Revella

56.04× Water bath

“Data on file. T-cell results represent one customer evaluation; no statistical inference is made. Confirm performance for each cell type, vial, fill volume and acceptance criteria.”

Match Revella to your container format

Start with standard cryovials or engage CellStore to confirm a configuration for additional primary containers.

CAT. NO.	CONFIGURATION	IMAGE
CS-THAW-01	Four 2 mL cryovial thawing modules	
CS-THAW-02	Four 5 mL cryovial thawing modules	
CS-THAW-03	Four customized thawing modules for compatible vials or prefilled syringes, including AT vials, pharmaceutical vials, COP vials and other specialized containers.	 prefilled syringe  AT vial  pharmaceutical vial  COP vial

Confirm compatibility before ordering

“ Share your container brand and format, nominal volume, fill volume, sample type and desired endpoint. Our team will recommend the appropriate configuration or feasibility assessment.

”

Ready to standardize your thawing workflow?

Heating	Direct-contact dry heating
Temperature sensing	Independent infrared vial-wall monitoring per well
Sample-holder accuracy	±1°C at 50°C
Typical thaw time	≤3 minutes
Display	7-inch color touchscreen, 800 × 480
Interfaces	2 × USB; Wi-Fi
Power	100-240 VAC, 50/60 Hz; 300 W max
Dimensions / weight	335 × 293 × 266 mm / 7 kg
Operating environment	0-35°C; relative humidity ≤70%

QUALIFICATION & SUPPORT

- IQ/OQ documentation available
- PQ outline available
- 12-month warranty

Discuss your vial format, sample volume and acceptance criteria with CellStore.

www.cellstore-global.com