



Sample Thawing Stations

“Developed by a scientist at a major genomic diagnostic company to improve productivity and quality of analytical results”

Thaw your samples quickly, reproducibly and safely.

Station One

The **Station One** thaws frozen samples and reagents in a fraction of the time using only ambient air. Dual fans intake ambient air and channel it upward through a perforated thawing tray where it circulates over and around samples. This simple action decreases sample and reagent thawing times by up to 75% without any application of heat. It eliminates edge effects, cold starts and sample to sample thermal variability. And its fixed platform enables highly reproducible thawing that can be proceduralized and validated under GMP/QSR, USP, and ISO.

The Station One's A.I.R. (Automatic Internal Redistribution) System design is a breakthrough of its own. Air is drawn inward by two fixed speed fans. The sealed inner chamber builds a steady positive pressure that gently 'spills' out the top continuously refreshing the cool air around samples with ambient air. Airflow restricted by samples placed on the thawing surface naturally and evenly redistributes itself internally. The result is a proportional increase in airflow through the open airways around and between samples. This basic action assures optimized thawing of any job big or small.

The unit includes accessory racks that will fit most industry standard tubes from 1 to 50ml. It's large thawing surface accommodates two microplates or microtube racks at a time. Equipped with the included accessory racks it can thaw 34 large tubes (15-50ml) or 52 small tubes (1-2ml) in a single cycle. Station One has a compact footprint and consumes minimal power.

Catalog # 1-300-0725 Station One



The Heliport Thawing Station

The **Heliport Thawing Station** brings a new paradigm to procedural sample handling. Utilizing the same convection principles as our Station One, Heliport is the first sample thawing system built specifically for automation integration. Heliport's powerful convection system reduces thaw times up to 90% while allowing the seamless transition of thawed samples directly into your automated process. Heliport features an expanded thawing surface for large sample arrays, accommodating up to 11 microplates or microtube racks. Included accessory cradles enable custom configurable sample layouts and easy matrixing to automated scripts. Seven jumbo fans provide sufficient fan power to thaw everything in your freezer quickly and reproducibly. And Heliport accomplishes all of this with no excess input of heat, no tweaking of controls, and no calibration or maintenance required. Heliport also features a remote I/O port for simple integration with liquid handlers or any automated platform you may be running. Allowing you to easily integrate safe, efficient, and reproducible thawing of up to one thousand samples in as little as **nine** minutes! All within your existing automated process. It's also great for benchtop use too.

Catalog # 1-300-70000 Heliport





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Heliport Plus

Heliport Plus has the same deck size as the Heliport but with the added feature of a 600 watt heating system that can be turned on to thaw large molecule compounds and high melt carriers such as DMSO. In addition, it's combined with 7 upgraded fans that deliver 6 liters per minute of 30C air at 2 meters per second. The heater can be turned off when not needed for other compounds and will perform the same as the basic Heliport.

1-300-71000 Heliport Plus with heating system



Works with all brands of tube racks and microplates



Heater can be turned off when not needed



Fully configurable deck, accommodating up to 11 SBS racks

Thaw Times (-20C to ice free)

Water

Container	Fill	Quantity	Station One	Room Temp	Thaw Time % Decrease
1.5 ml microcentrifuge tube	1.4 ml	52	14 min	25 min	44%
15 ml conical	15 ml	6	28 min	49 min	43%
50 ml conical	40ml	2	34 min	75 min	55%
96 well microplate	200 ul	2 plates of 96	11 min	22 min	50%
1.4 ml tubes	700ul	2 racks of 96	30 min	150 min	80%

Container	Fill	Quantity	Heliport	Room Temp	Thaw Time % Decrease
1.4 ml tubes	800 ul	11 racks of 96	19 min	177 min	89%
1.4 ml tubes	700 ul	11 racks of 96	17 min	150 min	89%
1.4 ml tubes	600 ul	11 racks of 96	12 min	131 min	91%
1.4 ml tubes	400 ul	11 racks of 96	11 min	108 min	90%
1.4 ml tubes	200 ul	11 racks of 96	9 min	97 min	91%

DMSO

Container	Fill	Quantity	Heliport Plus	Room Temp	Thaw Time % Decrease
FluidX AcoustiX tubes	70 ul	11 racks of 96	9 min	35 min	74%
1.4 ml tubes- push cap	700 ul	11 racks of 96	24 min	240 min	90%
1.4 ml tubes- screw cap	700 ul	11 racks of 96	18 min	160 min	89%