



# Application Note

Heliport Thaw Station  
Aqueous Thawing Evaluation

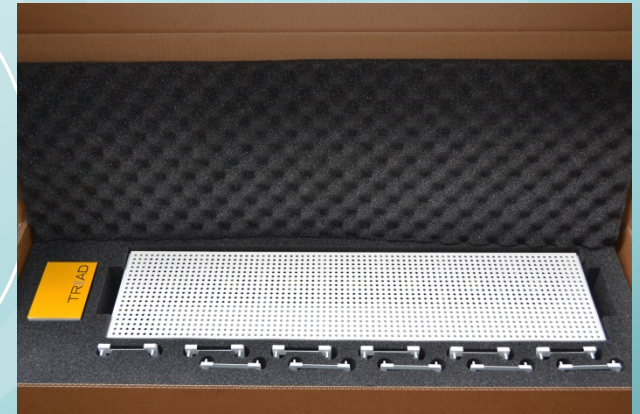
# Introducing Heliport



The first and only  
automation friendly rapid  
thawing solution



The largest and fastest convection  
based thawing platform available  
anywhere



The emerging 'new standard'  
of the world'



## Application Note

Box Scientific  
[www.boxscientific.com](http://www.boxscientific.com)

# Features and Capabilities



Seven Jumbo Fans deliver a continuous 315 CFM ambient air current

- High uniformity, high reproducibility
- No calibration or maintenance required
- Rapidly thaws samples to equilibrium with the working environment



Accommodates up to 11 SBS footprint positions, custom configured in portrait or landscape orientation



Suitable for benchtop use or plug-and-play integration with most automated systems



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# Advantages

	Benchtop	Water Bath	Microwave	Heliport
Thaws samples in 30 minutes or less	X	O	O	O
Maintains steady thermal gradient throughout the thaw process	X	X	X	O
Does not utilize external heat or thermostating	O	X	X	O
Yields a consistent thermal state across entire sample set	O	O	X	O
Yields a consistent thermal state across multiple sample sets	O	X	X	O
Equilibrates samples to ambient test conditions	O	X	X	O

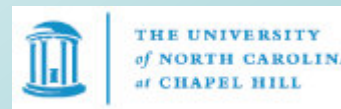
**Table 1.** Heliport Comparison to Common Thawing Practices

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## Used By

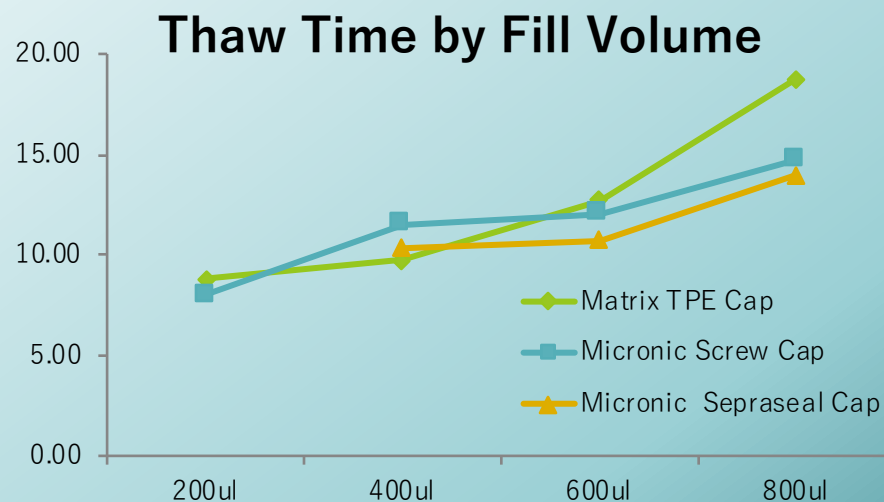


# Aqueous Sample Thawing

Heliport offers incomparable speed, uniformity and reproducibility for aqueous biologics including blood serum and plasma, oligonucleotides, DNA, RNA, proteins and more.

Thaw Time by Fill Volume

Sample Rack	200ul	400ul	600ul	800ul
Matrix 96 x 1.2ml TPE cap	8:49	9:44	12:43	18:45
Micronic 96 x 1.2ml Screw	8:01	11:33	12:04	14:43
Micronic 96 x 1.2ml		10:20	10:44	13:58



# Heliport Specifications:

<b>Product:</b>	Heliport thaw station
<b>P/N:</b>	300-70000
<b>Price:</b>	
<b>Dimensions (cm):</b>	
<b>L</b>	76.5
<b>W</b>	19
<b>H</b>	13
<b>Power Source:</b>	120VAC to 12VDC/3.0A wall wort
<b>Power Requirements:</b>	12VDC/1.4A
<b>Fans</b>	7 x 92mm
<b>I/O</b>	3 way lighted switch (all fans )
<b>Other modes:</b>	Remote- remote I/O via remote port/cable
<b>Max fan airflow (cfm):</b>	315
<b>Weight (lbs):</b>	6
<b>Shipping container:</b>	corrugated box/cut foam insert
<b>Packaged weight (lbs)</b>	11
<b>Package Contents:</b>	Heliport, accessory cradles(11), manual, power supply (boxed), remote I/O cable (1)
<b>Container Dimensions(cm):</b>	
<b>L</b>	101.5
<b>W</b>	29
<b>H</b>	27



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