

# Frozen in Time Ltd.

Manufacturers of Freeze Driers  
and Vacuum Cold Traps

**Production 24 hour cycle Freeze Driers  
(2010 Specification)**



Our energy reduction system reduces the running costs of these machines compared with similar capacity machines.

The drying and condenser chambers are made from 304L grade stainless steel.  
Two full sets of stainless steel trays are supplied with each machine to minimise loading and unloading times.

The Driers are fully automatic with a programmable PLC controller, the process being displayed on screen. This system, once started will go through all of its stages without an operator.

<b>Production Freeze Drier Specification</b>				
	<b>100kg</b>	<b>250kg</b>	<b>500kg</b>	<b>1000kg</b>
<b>Overall Dimensions W x H x L m</b>	1.2 x 2.25 x 3.2	1.6 x 2.5 x 4	2.1 x 2.5 x 6	2.4 x 2.8 x 7
<b>Drying Chamber Diameter x Length m</b>	1 x 1	1.4 x 1.1	1.75 x 1.4	2 x 2
<b>Tray Area m<sup>2</sup> and Levels</b>	7.6 – 10+1	19 – 15+1	38 – 19+1	75 – 22+1
<b>Condenser Chamber Temperature</b>	-60 °C	-60 °C	-60 °C	-60 °C
<b>Drying Chamber Temperature Range °C</b>	-50 to +60 °C	-50 to +60 °C	-50 to +60 °C	-50 to +60 °C
<b>Condenser chamber Defrost</b>	Heat pump	Heat pump	Heat pump	Heat pump
<b>Condenser Ice Capacity</b>	100 litre	250 litre	500 litre	1000 litre
<b>Refrigerant</b>	R-23, R-507 & R134A	R-23, R-507 & R134A	R-23, R-507 & R134A	R-23, R-507 & R134A
<b>Vacuum Pump</b>	Edwards E2M28	Edwards E2M40	Edwards E2M80	Edwards EH250 Edwards E1M80
<b>Isolation Valve Ø cm</b>	Butterfly 30	Butterfly 40	Butterfly 50	Butterfly 80
<b>Power Requirements</b>	3ph 380 - 415v	3ph 380 - 415v	3ph 380 - 415v	3ph 380 - 415v
<b>Running Power Consumption</b>	15kw	31kw	63kw	120kw
<b>Warranty - Parts and Labour</b>	12 months	12 months	12 months	12 months