

Frozen in Time Ltd.

Manufacturers of Freeze Driers
and Vacuum Cold Traps

A-Series Freeze drying Machine Range (2010 Specification)



The A series are general purpose freeze driers. They are of the open design with heating and cooling applied to the drying chamber walls. The drying and condenser chambers are made from 304 grade stainless steel. The frame is mild steel. The internal trays can be made from stainless steel sheet or aluminium expanded mesh. The controls are manual with liquid crystal vacuum and temperature displays. All controls are on a touch sensitive membrane keypad with LED's to show active functions. The drying chamber has 4 mobile temperature probes that can be inserted into samples and read on the control panel. Both chambers share a single air cooled refrigeration system. Each model can be built with dedicated refrigeration systems for each chamber when low drying temperature is required.

Larger A-Series Freeze Driers Specification

	A12/30	A12/60	A20/30	A20/60
<i>Overall Dimensions W x H x L m</i>	2 x 2 x 3.5	2 x 2 x 6.5	2.4 x 2.8 x 6	2.4 x 2.8 x 8
<i>Specimen Chamber Diameter x Length m</i>	1.25 x 3	1.25 x 6	2 x 3	200 x 6
<i>Chamber Volume m³</i>	3.7 m ³	7.4 m ³	9.5 m ³	19 m ³
<i>Condenser Chamber Temperature</i>	-55 °C	-55 °C	-55 °C	-55 °C
<i>Specimen Chamber Temperature Range °C</i>	-40 to +40 °C	-40 to +40 °C	-40 to +40 °C	-40 to +40 °C
<i>Condenser chamber Defrost</i>	Hot Gas	Hot Gas	Hot Gas	Hot Gas
<i>Chamber Doors</i>	Clear Acrylic	Clear Acrylic	Clear Acrylic	Clear Acrylic
<i>Condenser Ice Capacity</i>	120 litre	2 x 120 litre	200 litre	2 x 200 litre
<i>Refrigerant</i>	R-507	R-507	R-507	R-507
<i>Vacuum Pump</i>	Edwards E2M40	2x Edwards E2M40	Edwards E2M40	2x Edwards E2M40
<i>Refrigeration m³/h - Hp</i>	2x Frigopol 24 - 5.4	4x Frigopol 24 - 5.4	2x Frigopol 46 - 10	4x Frigopol 46 - 10
<i>Isolation Valve Ø cm</i>	Butterfly 25	2 x Butterfly 25	Butterfly 25	2 x Butterfly 30
<i>Power Requirements</i>	3ph 380 - 415v	3ph 380 - 415v	3ph 380 - 415v	3ph 380 - 415v
<i>Warranty - Parts and Labour</i>	12 months	12 months	12 months	12 months