

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 chamber and condenser chamber are made from 304 grade stainless steel. The frame is powder coated 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 read on the 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.



The A series freeze driers can be constructed in the above format allowing the product chamber to be built into the wall of a clean room or production area. The ice condenser chamber and serviceable parts are accessible from the back.

A-Series Freeze Drier Specification

	A6/14	A9/17	A10/25
Overall Dimensions W x H x L cm	80 x 145 x 160	110 x 180 x 180	120 x 210 x 260
Specimen Chamber Diameter x Length cm	60 x 140	90 x 170	100 x 250
Tray Area m² and Levels	3.85 – 6	10 – 9	23 - 11
Condenser Chamber Temperature	-55 °C	-55 °C	-55 °C
Specimen Chamber Temperature Range °C	-40 to +50 °C	-40 to +50 °C	-40 to +50 °C
Condenser chamber Defrost	Hot Gas	Hot Gas	Hot Gas
Chamber Doors	Clear Acrylic	Clear Acrylic	Clear Acrylic
Condenser Ice Capacity	27 litre	50 litre	70 litre
Refrigerant	R-507	R-507	R-507
Vacuum Pump	Ulvac GLD 201	Edwards E2M28	Edwards E2M28
Refrigeration m³/h - Hp	Frigopol 19 - 5	Frigopol 24-5.4	Frigopol 30 – 7.5
Isolation Valve Ø cm	Butterfly 15	Butterfly 25	Butterfly 25
Power Requirements	3ph 380 - 415v	3ph 380 - 415v	3ph 380 - 415v
Warranty - Parts and Labour	12 months	12 months	12 months