

RapidVap® Evaporators



RapidVap® Vertex™ Evaporators

Features & Benefits



LCD Display

Has touchscreen programming. Shows parameters for block, sample and time.

Nitrogen Control

Each switch controls nitrogen flow to one of five rows of nozzles, allowing nitrogen to be conserved during partial runs.

Pressure Regulator

Displays pressure from 0 to 45 psi.

Dry heat—no water bath

Dry heat has several advantages: less maintenance, no rust, no condensation and no potential source of cross contamination.

Microprocessor-controlled heater

Supplies heat to the block and is programmable from 30° C up to 100° C in 1 degree increments.

Nitrogen pressure regulator

Controls the pressure of nitrogen delivered to samples.

Temperature sensor

Monitors block or sample temperature.

Fast evaporation

With nitrogen blow down and heat.

Five rows of 10 nozzles

Deliver nitrogen to up to 50 samples at once.

Angled samples

Increases surface area for faster evaporation and optimized recovery.

Compact benchtop design

Small footprint fits in tight spaces.

Full one year warranty



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Ordering Information



- Ideal for small sample volumes
- Multiple blocks for a variety of tube sizes
- Portable

Catalog Number	Electrical Requirements	Receptacle & Plug Type	Overall Dimensions (w x d x h)	Shipping Weight
7320020	115V, 60 Hz, 8A	 North America, 115V, NEMA 5-15P	20.4" x 13.0" x 12.5"	45 lbs. (16 kg)
7320030	230V, 50/60 Hz, 4A	 Schuko	20.4" x 13.0" x 12.5"	45 lbs. (16 kg)
7320035	230V, 50/60 Hz, 4A	 British (UK)	20.4" x 13.0" x 12.5"	45 lbs. (16 kg)
7320037	230V, 50/60 Hz, 4A	 China/Australia	20.4" x 13.0" x 12.5"	45 lbs. (16 kg)
7320040	230V, 50/60 Hz, 4A	 North America, 230V	20.4" x 13.0" x 12.5"	45 lbs. (16 kg)

All models require (not included):

- Aluminum Block. See page 6
- Sample tubes. Contact your laboratory supply dealer.
- Nitrogen source with a flow rate of 6.5 CFM/185 LPM minimum. See page 12 for full requirements

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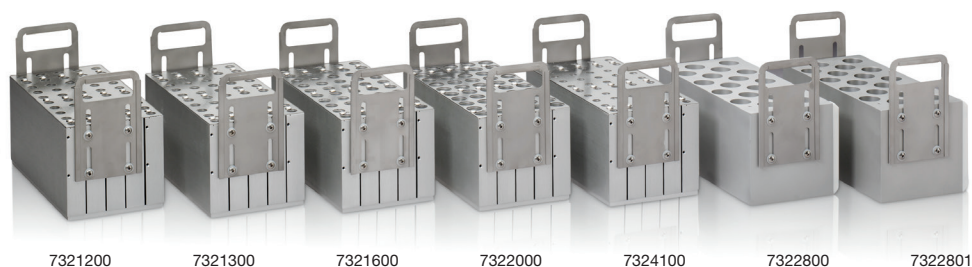
Evaporation Rates



	Tube Size (mm)	Number of Samples	Sample Size (ml)	Temperature (° C)	N ₂ Pressure (psi)	Avg. Time to Dry (min)
Acetonitrile boiling point 82° C	12 x 75	10	2	35	16	<19
	12 x 75	10	2	45	16	<15
	12 x 75	10	2	60	16	<11
	12 x 75	10	2	80	16	<8
Methanol boiling point 65° C	12 x 75	10	2	35	24	<12
	12 x 75	10	2	45	24	<10
	12 x 75	10	2	60	24	<7
	12 x 75	10	2	80	24	<6
	12 x 75	50	2	80	24	<6
	20 x 150	10	10	52	37	<42
Water boiling point 100° C	12 x 75	10	2	45	24	<125
	12 x 75	10	2	60	24	<80
	12 x 75	10	2	80	24	<40
	12 x 75	10	2	100	24	<25
	20 x 150	10	4	100	24	<60
	20 x 150	50	4	100	24	<64
Toluene boiling point 111° C	12 x 75	10	2	35	16	<24
	12 x 75	10	2	45	16	<18
	12 x 75	10	2	60	16	<13
	12 x 75	10	2	80	16	<9
Methylene Chloride boiling point 40° C	12 x 75	10	2	35	20	<8
	12 x 75	10	2	45	22	<7
	12 x 150	10	10	38	37	<22
Hexane	20 x 150	10	10	52	37	<11
Ethyl Acetate	20 x 150	10	10	52	37	<22

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Accessories



Aluminum Blocks. All RapidVap Vertex Evaporators require a Block (not included). Blocks of solid aluminum include stainless steel handles to lift the block in and out of the evaporator. A 0.21" (0.5 cm) dia. port in the upper left hand corner of the block is provided for insertion of the temperature probe to monitor upper block temperature. Select a block that closely matches the outside diameter of your sample container. Custom blocks to fit special glassware are available upon request. **Glassware is required (not included).**

Catalog Number	Tube Capacity	Tube Volume	Tube Description	Shipping Weight
7324100	50	3 ml	10 mm x 75 mm, tubes	26 lbs. (12 kg)
7321200	50	5 ml	12 mm x 75 mm, tubes	26 lbs. (12 kg)
7321300	50	8 ml	13 mm x 100 mm, tubes	24 lbs. (11 kg)
7321601	50	12 ml	16 mm x 100 mm, tubes	19 lbs. (9 kg)
7321600	50	16 ml	16 mm x 125 mm, tubes	21 lbs. (10 kg)
7322000	50	30 ml	20 mm x 150 mm, tubes	15 lbs. (7 kg)
7322800	18	40 ml	28 mm x 95 mm, ASE vials	22 lbs. (10 kg)
7322801	18	60 ml	28 mm x 140 mm, ASE vials	19 lbs. (9 kg)
7324600	50	1 ml	1.5 ml microcentrifuge tubes	33 lbs. (15 kg)
7322300	50	12 ml	17 mm x 125 mm, 15 ml conical tubes	33 lbs. (15 kg)

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Specifications

All models feature:

- Powder-coated steel exterior
- Glass lid
- * 900-watt dry block heating system
- 50 nitrogen-dispensing nozzles in five horizontal rows of 10
- 5 nitrogen control valves with on/off switches
- Front-mounted pressure regulator with analog display of pressure from 0 to 45 psi in 2 psi increments
- LCD with touchscreen programming and display of program number; set point temperature and actual system and sample/block temperatures in °C or °F; set point time and time remaining
- Microprocessor-controlled programming includes program number from 1 to 10, temperature of the system from 30° to 100° C (86° to 212° F), and time from 1 to 999 minutes or "ON." Memory stores 1 to 10 programs
- Temperature sensor probe for monitoring of block or sample temperature
- Built-in exhaust fan with blower
- On/off switch
- 6' (183 cm) of 2" (5 cm) ID polyethylene exhaust hose, with clamp
- 6' (183 cm) of flexible polyethylene tubing for nitrogen supply, with push-to-connect fitting
- One year warranty on materials and workmanship
- Overall dimensions with closed lid: 20.4" w x 13.0" d x 12.5" h (51.8 x 33.1 x 31.6 cm)
- Overall dimensions with open lid: 20.4" w x 13.0" d x 22.7" h (51.8 x 33.1 x 57.7 cm)
- Actual weight 35 lbs. (16 kg). Shipping weight 45 lbs. (20 kg)

* Labconco exclusive feature

Standards conformance & regulations:

- UL Standard 61010-1 (115V, 60 Hz and 230V, 50/60 Hz for North America models)
- CAN/CSA C22.2 No. 61010-1 (115V, 60 Hz and 230V, 50/60 Hz for North America models)
- CE Conformity marking (230V, 50/60 Hz for international models)

⚠ **WARNING:** Cancer — P65Warnings.ca.gov (California only)

Options include:

- Region-specific electrical plug configurations

All models require (not included):

- Aluminum Block. See page 6
- Sample tubes. Contact your laboratory supply dealer
- Nitrogen source with flow rate of 6.5 CFM/185 LPM minimum. Nitrogen pressure not to exceed 50 psi. Gas flow with 10 active nozzles is approximately 0.74 scfm @ 15 psi and 1.0 scfm @ 24 psi. Gas flow with 50 active nozzles is approximately 4.5 scfm @ 20 psi and 5.0 scfm @ 24 psi. A nitrogen generator is recommended. See page 22 for ordering information on the Nitro 2LV Nitrogen Generator or contact your nitrogen gas supplier



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Recovery Data

Test results show that the RapidVap Vertex Evaporator produces excellent recoveries of a wide range of compounds.

Procedure: A 15 ml sample consisting of a combination of several of the compounds listed below was prepared in duplicate along with a method blank of pure solvent and each sample or blank was added to a 20 x 150 mm tube and placed in Block 7322000. BNA mixtures were added to Methylene Chloride and run at 40° C and 12 psi nitrogen for approximately 30 minutes. A second set of samples was run at 40° C and 24 psi nitrogen for approximately 22 minutes. All other compound mixtures were added to Hexane and run at 70° C and 12 psi nitrogen for approximately 15 minutes. A second set of samples was run at 24 psi nitrogen for approximately 12 minutes. Ending volumes for all samples were approximately 1 ml. Recovery rates for the two samples were averaged and are shown below.

% Recovery			% Recovery			% Recovery		
@ 12 psi @ 24 psi			@ 12 psi @ 24 psi			@ 12 psi @ 24 psi		
BNAs (EPA 8270 method)								
N-Nitrosodimethylamine	111	107	Phenanthrene	100	105	Dimethoate	99	99
Phenol	94	96	Anthracene	92	100	Ronnel	105	106
Aniline	116	118	Di-n-butyl Phthalate	88	103	Chlorpyrifos	107	108
Bis(2-Chloroethyl) Ether	97	97	Fluoranthene	90	99	Methyl Parathion	110	110
2-Chlorophenol	92	93	Pyrene	103	103	Fenthion	106	106
1,3-Dichlorobenzene	85	89	Butyl Benzyl Phthalate	102	97	Malathion	108	108
1,4-Dichlorobenzene	85	88	Benzo[a]anthracene	104	100	Merphos	100	98
Benzyl Alcohol	90	100	Chrysene	104	102	Tokuthion (Prothiofos)	110	110
1,2-Dichlorobenzene	83	87	Bis[2-Ethylhexyl] Phthalate	101	100	Bolstar	107	106
2-Methylphenol	93	99	Di-n-octyl Phthalate	96	102	Fensulfthion	110	107
Bis(2-Chloroisopropyl) Ether	94	99	Indeno[1,2,3-cd]Pyrene	95	99	Methyl Azinphos	108	108
n-Nitroso-di-n-propylamine	90	103	Benzo[b]Fluoranthene	94	100	Coumaphos	97	99
(3 & 4)-Methylphenol	92	94	Benzo[k]Fluoranthene	97	100	EPN	102	99
Hexachloroethane	92	96	Benzo[a]Pyrene	96	99	Ethyl parathion	104	104
Nitrobenzene	96	100	Dibenz[a,h]anthracene	92	93	Sulfotepp	103	108
Isophorone	98	100	Benzo[ghi]perylene	90	93	Tetrachlorvinphos	109	110
2-Nitrophenol	90	96	Organochlorine Insecticides & Metabolites			Nitrogen/Phosphorous Herbicides & Insecticides (EPA 8141 method)		
2,4-Dimethylphenol	95	94	(EPA 8081 method)			EPTC	103	101
Bis(2-Chloroethoxy)Methane	85	102	alpha-Chlordane	104	105	Butylate	104	104
2,4-Dichlorophenol	94	102	gamma-Chlordane	103	102	Propachlor	105	104
1,2,4-Trichlorobenzene	90	92	alpha-BHC	103	106	Trifluralin	98	93
Naphthalene	90	99	gamma-BHC (Lindane)	103	106	Terbufos	97	97
4-Chloroaniline	109	111	beta-BHC	105	107	Atrazine	103	100
Hexachlorobutadiene	83	90	Heptachlor	108	109	Simazine	106	101
4-Chloro-3-methylphenol	89	90	delta-BHC	107	110	Alachlor	105	102
2-Methylnaphthalene	96	107	Aldrin	102	103	Metribuzin	101	100
Hexachlorocyclopentadiene	65	76	Heptachlor Epoxide	105	107	Metolachlor	101	104
2,4,6-Trichlorophenol	85	92	Endosulfan I	107	108	Pendimethalin	103	100
2,4,5-Trichlorophenol	74	79	4,4'-DDE	104	104	Butachlor	105	100
2-Chloronaphthalene	92	96	Dieldrin	107	109	Cyanazine	92	90
2-Nitroaniline	92	91	Endrin	104	106	Acetochlor	96	100
Dimethylphthalate	92	103	4,4'-DDD	112	115	Chlorinated Phenoxy Herbicides		
Acenaphthylene	92	98	Endosulfan II	106	106	(EPA 8151 method)		
2,6-Dinitrotoluene	99	106	4,4'-DDT	112	112	Dalapon	69	70
3-Nitroaniline	96	108	Endrin Aldehyde	106	108	3,5-Dichlorobenzoic acid	102	103
Acenaphthene	87	89	Endosulfan Sulfate	116	114	Dicamba	98	101
2,4-Dinitrophenol	89	89	Methoxychlor	106	106	Dichlorprop	104	104
Dibenzofuran	88	91	Endrin ketone	114	127	2,4-D	104	104
2,4-Dinitrotoluene	93	90	Hexachlorobenzene	103	104	Pentachlorophenol	100	101
4-Nitrophenol	90	89	Organophosphorus Insecticides			2,4,5-TP (Silvex)	102	103
Diethyl Phthalate	95	93	(EPA 8141 method)			Chloramben	106	109
Fluorene	90	100	Naled	93	105	2,4,5-T	104	104
4-Chlorophenyl Phenyl Ether	78	85	Dichlorvos	105	100	2,4-DB	105	105
4-Nitroaniline	103	110	Mevinphos	107	107	Bentazon	105	106
4,6-Dinitro-2-methylphenol	90	103	Ethoprop	92	104	Picloram	113	114
N-Nitrosodiphenylamine	92	100	Phorate	98	104	Dinoseb	104	104
Azobenzene	89	102	Demeton, O & S	96	102	DCPA	104	104
4-Bromophenyl Phenyl Ether	97	102	Diazinon	99	103	Acifluorfen	112	114
Hexachlorobenzene	89	94	Disulfoton	93	101			
Pentachlorophenol	77	89						

**Visit labconco.com to request information
for all Labconco products.**

LABCONCO CORPORATION

8811 Prospect Avenue
Kansas City, MO 64132

(800) 821-5525 | (816) 333-8811

labconco.com

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