

IC SERIES REFRIGERATORS

Liquid nitrogen refrigerators designed for the storage of samples in the most efficient manner. Features include increased capacity, moulded handle assembly, convenient specimen loading/unloading, transparent top, positive canister positioning, spider free design & greater necktube strength.

Model	IC-3R	IC-6R	IC-10R	IC-20R	IC-20RX	IC-22R	IC-22RX	IC-35R	IC-35RX	IC-38RX/6	IC-38RX/10	IC-50RXR
LN2 capacity (ltrs)	3.6	6	10	20	20	22	22	35	35	38	38	50
Static hold time (days)*	25	30	100	200	105	146	146	269	184	135	135	125
Evaporation rate* ltrs/day	0.14	0.20	0.10	0.10	0.19	0.15	0.15	0.13	0.19	0.28	0.28	0.40
Working time** days/weeks	14 / 2	18 / 3	62 / 9	126 / 18	65 / 9	112 / 16	112 / 16	168 / 24	112 / 16	84 / 12	84 / 12	78 / 11
Necktube diameter (mm)	57	57	257	57	95	66	66	57	95	127	127	95
Outside diameter (mm)	222	222	286	381	381	381	381	470	470	470	470	470
Overall height (mm)	419	460	584	647	647	667	667	660	660	698	698	781
Empty weight (kg)	3.5	3.5	5.5	11.5	10.5	10	10	14.5	14.5	14.5	14.5	17.5
Full weight (kg)	6.5	8.5	15	27.5	27.5	28.5	28.5	43	43	46.5	46.5	58.5
Canister length (mm)	127	127	279	279	279	279	279	279	279	279	279	279
Canister inside diameter (mm)	44	44	44	44	75	51	51	44	75	104	75	75
Canisters	6	6	6	6	6	3	6	6	6	6	10	6
Capacity:												
0.5cc straws (on canes)	330	330	660	660	2,340	480	960	660	2,340	4,680	3,900	2,340
0.5cc straws (bulk)	990	990	1,800	1,800	5,820	1,356	2,712	1,800	5,820	10,320	9,700	5,820
1.2 ml. vials	n/a	n/a	180	180	660	205	410	180	660	1,320	1,100	660

* Evaporation rate and hold times are nominal.

**Working time is an arbitrary reference, to estimate container performance under normal operating conditions. Designed for working time from 14 days to 168 days.

Straw capacity on canes:-

10 straws/cane for 11" canisters
5 straws/cane for 5" canisters

Bulk:-

Two level goblets for 11"; one level for 5"

Vial capacity on canes:-

5 vials/cane for 11" canisters

Accessories:-

- Neck insert
- Canisters
- Square racks
- Aluminium or cardboard boxes for the square racks
- Low level alarm
- Model letter denotes type of unit and numbers approximate litre capacity
- R-Refrigerator: RX-Expanded capacity refrigerator
- Empty & full weights determined without canisters
- Five year warranty



IC SERIES DRY SHIPPERS

A range of dry shipping vessels to suit the needs of users worldwide. Design innovations include an extra large storage capacity, convenient specimen loading, lockable necktube insert & a reuseable shipping container.

Transport biological specimens in a convenient container

These units are designed to safely transport biological specimens in a cold vapor environment. The rugged aluminium construction makes these containers light in weight for portability and lower transport cost, but tough enough to provide years of trouble-free service under normal usage.

- 55 straw capacity to 2730 straw capacity
- 2VS, 4VS and 7VS come equipped with a foam insulated slant-top carton to ensure protection during transport
- Slant-top carton feature prevents container from being shipped upside down
- Two year warranty

Features:-

- Light weight makes handling easier
- Convenient specimen storage
- Durable exterior finish
- Greater necktube strength
- Backed by more than 100 personnel years of cryogenic experience
- Increased capacity

Applications:-

- Veterinary
- Agricultural
- Sperm banks
- Blood banks
- Research laboratories

Model	IC-2VS	IC-4VS	IC-7VS	IC-20VS
Nitrogen capacity (ltrs)	2.4	4.6	6.0	6.3
Static hold time (days)	17	32	26	28
Evaporation rate ltrs/day	0.14	0.14	0.23	0.22
Necktube diameter (mm)	57	57	95	95
Outside diameter (mm)	222	222	286	381
Overall height (mm)	416	517	511	762
Empty weight (kg)	4	5	7	13.5
Full weight (kg)	5.5	9	11.5	18.5
Canister length (mm)	127	279	279	279
Canister inside diameter (mm)	44	44	75	75
Canisters	1	1	1	7
Capacity:				
0.5cc straws (on canes)	55	110	390	2730
0.5cc straws (bulk)	165	300	969	6789
1.2 ml. vials	n/a	30	110	770

Cardboard and wood shipping cases available for dry shippers. Evaporation rate and static hold times are nominal. Weights are determined without canisters.

Straw capacity on canes:-
10 straws/cane for 11" canisters
5 straws/cane for 5" canisters

Bulk:-
Two level goblets for 11"; one level for 5"

Vial capacity on canes:-
5 vials/cane for 11" canisters

IC SERIES DIRECTORS

Director series storage vessels are available in two sizes with capacities up to 4000 vials to meet your laboratory needs. Easy tracking of all samples and direct access to individual samples by way of indexed racks and divided storage boxes.

Suitable for both manual and computerised inventory methods. Advanced superinsulation and vacuum technology provide optimum thermal efficiency and reduced operating costs.

Designed for high capacity vial storage

The Director Series group is designed primarily for laboratory use for rack storage of vials. These units are available in 60 litre and 120 litre models. They store 2,000 and 4,000 vials.

Features:-

- Greater liquid nitrogen efficiency
- Durable aluminium construction
- Lockable lid
- Maximum storage capacity

Two year vacuum warranty

Model	D-4000	D-2000C
Capacity (ltrs)	120	60
Static hold time (days)	150	83
Evaporation rate (ltrs/day)	0.80	0.72
Necktube diameter (mm)	216	216
Height (mm)	965	711
Outside diameter (mm)	559	559
Weight empty (kg)	32.5	25
Weight full (kg)	129.5	74
Number of racks	4	4
2" high - boxes per rack	10	5
Box dimensions (mm)	133 x 133	133 x 133
Ampoules per box	100	100
Boxes per vessel	40	20
1.2 or 2.0ml vial capacity	4000	2000



Wessington Cryogenics Limited
2 Gadwall Road, Rainton Bridge South
Houghton Le Spring, Tyne & Wear, England, DH4 5NL
Tel: +44 (0)191 512 0677 Fax: +44 (0)191 512 0745
Email: info@wessingtoncryogenics.com



