

CXR Shippers



With the new CXR series Taylor-Wharton offers a design to overcome the problems of cleaning the dry shippers.

- Replaceable absorbent
- Cleanable
- Larger necktube diameter
- More robust
- Meets IATA requirements

SPECIFICATIONS			
Models		CXR 100	CXR 500
Static holding time ⁽¹⁾	Days	16	11
Working time ⁽²⁾	Days	11	7
Evaporation rate ⁽¹⁾	l/24h	0.23	0.6
LN ₂ capacity/absorbed	l	3.7	7.7
Weight, empty	kg	5.3	13.6
Weight, full ⁽³⁾	kg	8.3	19.8
Neck diameter	mm	91	216
Overall height	mm	493	683
Overall diameter	mm	234	391
Number of canisters / Canister dimensions ⁽⁴⁾	mm	1/67x 279	-
Number of 1.2 and 2.0ml vials (5 per cane) (4)/(6 per cane) ⁽⁴⁾		85/102	500
Number of 0.25ml straws (bulk, 2 layer)		1.820	-
Number of 0.5ml straws (10 per cane)		280	-
Number of 0.5ml straws		490	-

⁽¹⁾ Evaporation rate and holding time are nominal. Actual rate may be affected by the nature of the contents, atmospheric conditions, container history and manufacturing tolerances

⁽²⁾ Working time is an arbitrary, reference-only value to estimate container performance under the actual operating conditions

⁽³⁾ Without canisters or racks

⁽⁴⁾ CXR 500 cryogenic vials are stored in 100 cell boxes

ACCESSORIES			
Shipping case		CX10-8C00	CX50-8C00
Dimensions W x D x H /weight	mm/kg	400x 400x 620 / 8.8	480x 480x 760 / 14.0
Padded carton		3701-9277	-
Dimensions W x D x H /weight	mm/kg	370x 370x 710 / 3.25	-
Rack for 9 cryogenic blood bags		-	CP70-9C44
Rack for 5 cryogenic vial boxes		-	RS30-9C44
Cryo-Box 100		-	5026-1010
Data logger		M382CE	M385CE
PC cable with software ⁽¹⁾		M381CE	M381CE

⁽¹⁾ Required for programming and downloading data

CX Shippers



Padded carton

CX 100

Shipping case
for CX 100

CX 500

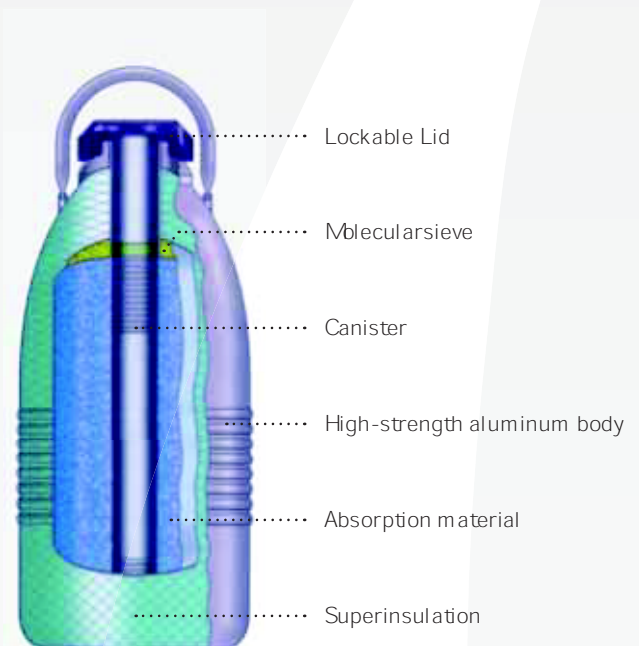
Shipping case
for CX 500

Cryo Express „dry shippers“ are designed to transport a variety of materials at cryogenic temperatures safely. The unique absorbent material prevents a liquid spill if the unit is tipped over. This eliminates the danger of spills and represents a significant improvement in the shipment of biogenic material.

Storage temperature inside the shipping cavity remains at approximately -150° C until the liquid nitrogen evaporates from the absorbent. This increases reliability, especially in the case of shipments involving long distances.

Due to the superior vacuum performance with super insulation these units provide maximum holding times. With these vessels and the shipping cases international shipment no longer represents a problem. The vessels comply with IATA regulations.

The optional available data logger records the storage temperature of biological material.



» Containers for safe shipment of biogenic material «



SPECIFICATIONS			
Models		CX 100	CX 500
Static holding time ⁽¹⁾	Days	24	11
Working time ⁽²⁾	Days	17	7
Evaporation rate ⁽¹⁾	l/24h	0.18	0.6
LN ₂ capacity/absorbed	l	4.4	6.4
Weight, empty	kg	5.3	13.6
Weight, full ⁽³⁾	kg	8.9	18.8
Neck diameter	mm	71	216
Overall height	mm	467	683
Overall diameter	mm	234	391
Number of canisters/ Canister dimensions ⁽⁴⁾	mm	1/67 x 279	-
Number of 1.2 and 2.0ml vials (5 per cane) (4)/(6 per cane) ⁽⁴⁾		85/102	500
Number of 0.25ml straws (bulk, 2 layer)		1.820	-
Number of 0.5ml straws (10 per cane)		280	-
Number of 0.5ml straws		490	-

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⁽⁴⁾ CXR 500 cryogenic vials are stored in 100 cell boxes

ACCESSORIES			
Shipping case Dimensions W x D x H /weight	mm/kg	CX10-8C00 400x 400x 620 / 8.8	CX50-8C00 480x 480x 760 / 14.0
Padded carton Dimensions W x D x H /weight	mm/kg	3701-9277 370x 370x 710 / 3.25	-
Rack for 9 cryogenic blood bags		-	CP70-9C44
Rack for 5 cryogenic vial boxes		-	RS30-9C44
Cryo-Box 100		-	5026-1010
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Data Logger

The data logger permits uninterrupted monitoring and logging of the temperature inside the CX and CXR shippers. This is indispensable in the case of valuable samples. The logger and thermocouple temperature sensor are contained within a modified neck plug therefore avoiding trailing wires or extra boxes which could become damaged or detached in transit.

The logger complies with the following standards:

- EMC Directive 89/336/EEC
- RTCA DO-160D Sect. 21.4, Radiated Emission – Cat. B (for safe operation on board aircraft)

Functions/Features:

- Measuring range: -199° C to +40° C (accuracy +/- 3° C)
- Logging of up to 8192 temperature measurements in non-volatile memory
- Logging intervals can be set between 1 and 30 minutes
- Battery life of min. 5 years (non-rechargeable lithium battery)
- PC interface for setting up, collection and analysis of data
- LED status indication for recording (active/standby) and battery condition
- LED indication of too high temperature
- 'Tip Over' Switch – Detects if the shipper has been laid on its side during transport. The position is logged at the same time as the temperature. 'Tip Over' is indicated in the temperature log and by LED.