



QPS Evaluation Services Inc
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File
LR1682

CERTIFICATE OF COMPLIANCE
(ISO TYPE 3 CERTIFICATION SYSTEM)

Issued to	Ice Qube, Inc.
Address	141 Wilson Avenue Greensburg, PA 15601 USA
Project Number	LR1682-2R2
Product	Air Conditioner for computer and electronics equipment enclosure
Model Number	IQ1000EV Z2, IQ2000EV Z2, IQ3000EV Z2, IQ4000EV Z2, IQ5000EV Z2, IQ6000EV Z2, IQ8000EV Z2, IQ10000EV Z2, IQ12000EV Z2, IQ14000EV Z2, IQ17000EV Z2, IQ20000EV Z2
Ratings	USA Class I, Zone 2, AEx ec IIC T6/T5/T4* Gc for the unit without Crankcase Heater. Class I, Zone 2, AEx ec IIC T5/T4/T3* Gc for the unit with Crankcase Heater. CANADA Ex ec IIC T6/T5/T4* Gc for the unit without Crankcase Heater. Ex ec IIC T5/T4/T3* Gc for the unit with Crankcase Heater. (*) See Annex page for detail of temperature classification. T _{amb} : -40°C to +60°C, Input: 120 V 60 Hz, 220/230 V 50/60Hz, 240V 50/60Hz, 400 V 50/60 Hz, 440 V 50/60Hz, 480V 50/60Hz.
Applicable Standards	UL 484 9 th , 2014 CSA C22.2 No. 117-1970 CSA C22.2 No. 236-15 UL 60079-0 7 th UL 60079-7 5 th CSA C22.2 No. 60079-0-19 CSA C22.2 No. 60079-7-16
Factory/Manufacturing Location	Ice Qube, Inc. 141 Wilson Avenue, Greensburg, PA 15601 USA

Statement of Compliance: The product(s) identified in this Certificate and described in the Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.



Issued By: Rob Kohuch, P. Eng.
Senior Engineer, Hazardous Locations [Ex]

Signature:

Date: October 29, 2022



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ANNEX 1 to **LR1682-2R2** "ELECTRICAL RATINGS: for IQ .EZ's series

*Model	Refrigerant		Design Pressure		Electrical Rating – Permanently Connected Units					Maximum Fuse or HACR Type Circuit Breaker Size, A	T-codes	
	Type	Amount	High Side	Low Side	Voltage	Cooling Current (A)	Frequency (Hz)	Phase	Minimum Circuit Ampacity, A		Without crankcase	With crankcase
IQ1000EV	R134a	7oz.	259	186	120	4.36	60	1	See 'Current Rating' section c) for details	See 'Current Rating' d) for details	T6	T5
					220	2.69	50					
					230	2.60	60					
					240	2.09	50					
					240	2.02	60					
					400	1.32	50					
					400	0.90	60					
					440	0.91	50					
					440	0.85	60					
					480	0.58	50					
					480	0.60	60					
IQ2000EV	R134a	10oz.	295	186	120	5.40	60	1	See 'Current Rating' c) for details	See 'Current Rating' d) for details	T6	T5
			303	186	220	2.84	50					
					230	2.71	60					
					240	1.99	50					
					240	1.93	60					
					400	1.43	50					
					400	0.99	60					
					440	1.14	50					
					440	0.89	60					
					480	0.75	50					
					480	0.77	60					



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Model	Refrigerant		Design Pressure		Electrical Rating – Permanently Connected Units					Maximum Fuse or HACR Type Circuit Breaker Size, "A"	T-codes	
	Type	Amount	High Side	Low Side	Voltage	Cooling Current (A)	Frequency (Hz)	Phase	Minimum Circuit Ampacity, A		Without crankcase	With crankcase
IQ3000EV	R134a	10oz.	349	186	120	5.92	60	1	See 'Current Rating' c) for details	See 'Current Rating' d) for details	T6	T5
			345	186	220	3.05	50					
					230	2.95	60					
					240	2.10	50					
					240	2.04	60					
					400	1.55	50					
					400	1.17	60					
					440	1.03	50					
					440	1.05	60					
					480	0.98	50					
					480	0.99	60					
IQ4000EV	R134a	19oz.	243	186	120	8.80	60	1	See 'Current Rating' section c) for details	See 'Current Rating' d) for details	T4	T3
					220	3.86	50					
					230	4.73	60					
					240	3.50	50					
					240	4.13	60					
					400	2.46	50					
					400	2.41	60					
					440	2.02	50					
					440	2.25	60					
					480	2.17	50					
					480	2.26	60					



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Model	Refrigerant		Design Pressure		Electrical Rating – Permanently Connected Units					Maximum Fuse or HACR Type Circuit Breaker Size, A	T-codes	
	Type	Amount	High Side	Low Side	Voltage	Cooling Current (A)	Frequency (Hz)	Phase	Minimum Circuit Ampacity, A		Without crankcase	With crankcase
IQ5000EV	R134a	24oz.	243	186	120	8.81	60	1	See 'Current Rating' c) for details	See 'Current Rating' d) for details	T4	T3
					220	3.87	50					
					230	4.74	60					
					240	3.50	50					
					240	4.13	60					
					400	2.52	50					
					400	2.72	60					
					440	2.03	50					
					440	2.25	60					
					480	2.18	50					
IQ6000EV	R134a	28oz.	243	186	120	8.83	60	1	See 'Current Rating' c) for details	See 'Current Rating' d) for details	T4	T3
					220	3.88	50					
					230	4.75	60					
					240	3.52	50					
					240	4.11	60					
					400	2.73	50					
					400	2.73	60					
					440	2.03	50					
					440	2.26	60					
					480	2.18	50					
					480	2.27	60					



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Model	Refrigerant		Design Pressure		Electrical Rating – Permanently Connected Units					Maximum Fuse or HACR Type Circuit Breaker Size, A	T-codes	
	Type	Amount	High Side	Low Side	Voltage	Cooling Current (A)	Frequency (Hz)	Phase	Minimum Circuit Ampacity, A		Without crankcase	With crankcase
IQ8000EV	R407c	34oz.	324	162	120	15.10	60	1	See 'Current Rating' c) for details	See 'Current Rating' d) for details	T4	T3
					220	6.50	50					
					230	7.70	60					
					240	6.96	50					
					240	7.17	60					
					400	4.20	50					
					400	4.21	60					
					440	3.74	50					
					440	3.98	60					
					480	3.80	50					
					480	3.60	60					
IQ10000EV	R407c	39oz	324	162	120	19.80	60	1	See 'Current Rating' c) for details	See 'Current Rating' d) for details	T4	T3
		36oz	324	162	220	10.00	50					
					230	10.10	60					
					240	9.26	50					
					240	9.46	60					
					400	5.10	50					
					400	5.09	60					
					440	5.04	50					
					440	5.20	60					
					480	5.06	50					
					480	5.05	60					



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Model	Refrigerant		Design Pressure		Electrical Rating – Permanently Connected Units					Maximum Fuse or HACR Type Circuit Breaker Size, A	T-codes	
	Type	Amount	High Side	Low Side	Voltage	Cooling Current (A)	Frequency (Hz)	Phase	Minimum Circuit Ampacity, A		Without crankcase	With crankcase
IQ12000EV	R407c	43oz	324	162	120	20.10	60	1	`See 'Current Rating' c) for details	See 'Current Rating' d) for details	T4	T3
		41oz.	324	162	220	10.30	50					
					230	10.30	60					
					240	9.42	50					
					240	9.70	60					
					400	5.22	50					
					400	5.21	60					
					440	5.10	50					
					440	5.32	60					
					480	5.10	50					
					480	5.09	60					
IQ14000EV	R407c	44oz	315	162	220	12.50	50	1	See 'Current Rating' c) for details	See 'Current Rating' d) for details	T5	T4
					230	12.10	60					
					240	11.44	50					
					240	11.68	60					
					400	7.09	50					
					400	7.11	60					
					440	7.59	50					
					440	7.01	60					
					480	6.76	50					
					480	6.66	60					



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Model	Refrigerant		Design Pressure		Electrical Rating – Permanently Connected Units					Maximum Fuse or HACR Type Circuit Breaker Size, A Low Side	T-codes	
	Type	Amount	High Side	Low Side	Voltage	Cooling Current (A)	Frequency (Hz)	Phase	Minimum Circuit Ampacity, A		Without crankcase	With crankcase
IQ17000EV	R407c	44oz	315	162	220	13.76	50	1	See 'Current Rating' c) for details	See 'Current Rating' d) for details	T5	T4
					230	13.21	60					
					240	12.65	50					
					240	12.80	60					
					400	6.81	50					
					400	6.92	60					
					440	7.13	50					
					440	7.15	60					
					480	6.74	50					
					480	6.43	60					
IQ20000EV	R407c	64oz	315	162	220	16.96	50	1	See 'Current Rating' c) for details	See 'Current Rating' d) for details	T5	T4
					230	16.40	60					
					240	15.27	50					
					240	15.35	60					
					400	8.70	50					
					400	8.67	60					
					440	9.12	50					
					440	8.88	60					
					480	8.64	50					
					480	8.36	60					