USA

SCM FRIGO USA

CUBO2 AQUA

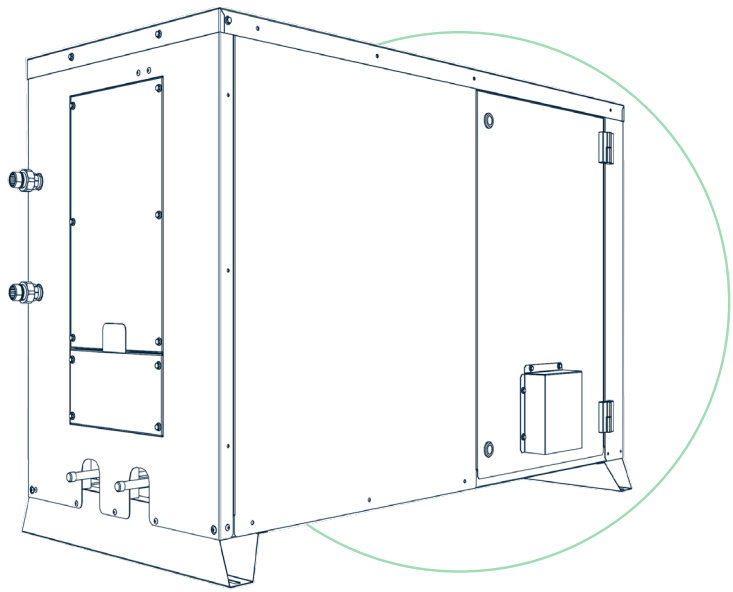
SUSTAINABLE COLD SOLUTIONS

Transcritical CO_2 ndensing units

UL CERTIFIED

SCM FRIGO We know the art of achieving the *perfect temperature*

BEIJER REF



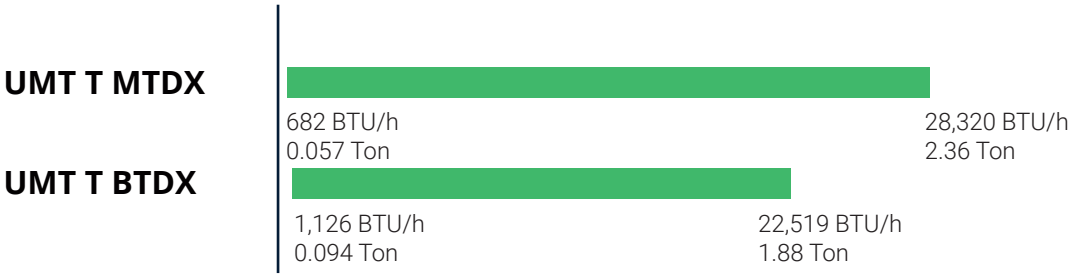
Condensing unit for transcritical CO_2 applications, equipped with a TOSHIBA BLDC compressor, water/brine brazed plate heat exchanger (BHE) gas cooler, and inverter. Its compact design ensures easy installation, and it can communicate directly with refrigeration units. These features guarantee high efficiency, even at part load.

MAIN ADVANTAGES

- CO_2 REFRIGERANT
- EFFICIENT SOLUTION
- SMALL FOOTPRINT
- EASY START-UP
- DC BRUSHLESS ROTARY COMPRESSOR
- WATER COOLER EQUIPPED
- PLUG & PLAY HYDRAULIC CONNECTIONS

Cooling Capacity

Transcritical Condensing Units DX



Standard Accessories

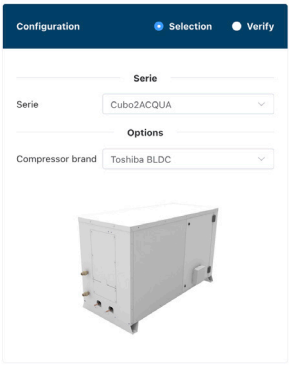
- Toshiba BLDC compressors
- Carel controller
- Inverter modulation for capacity control 25–100%
- BHPE water/brine gas cooler
- Design pressure 130 bar / 1885 PSI (high pressure side) | 80 bar/1160 PSI (liquid line) | 80 bar / 1160 PSI (suction line)
- ASME Liquid receiver 0.424 ft³
- UL Certified equipment
- K65 connections

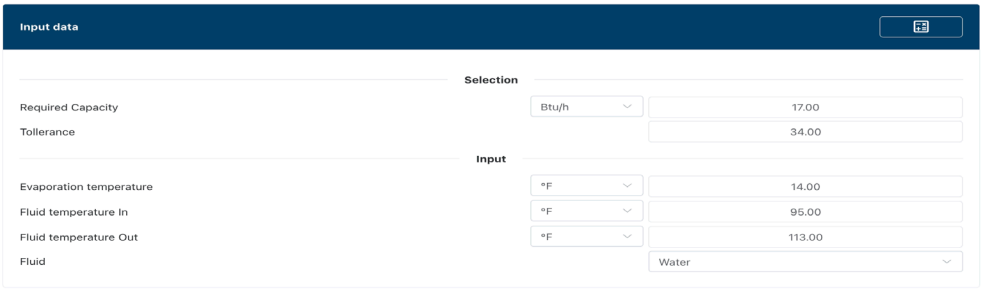
Accessories on Request

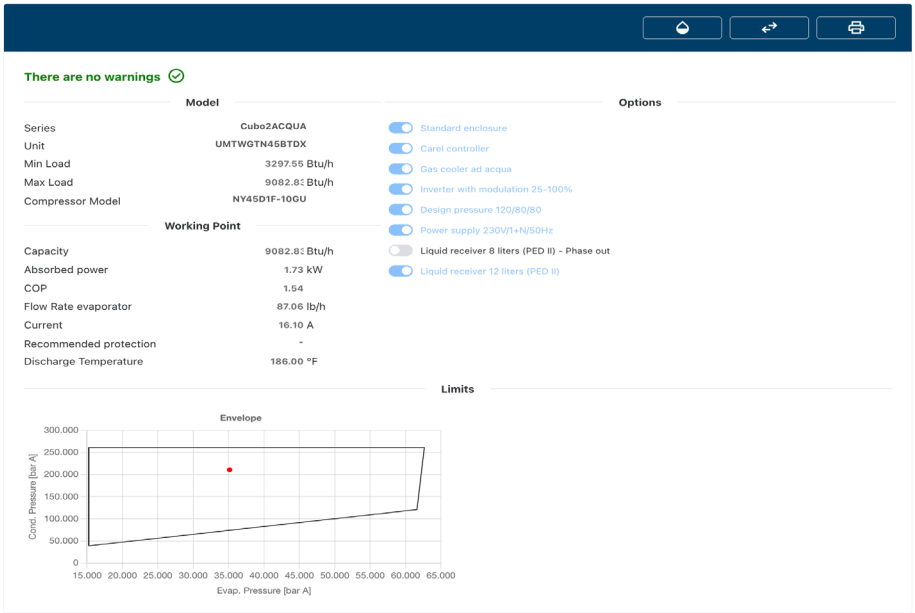
- Oil management (oil separator + reservoir, oil level control, oil return solenoid valve)
- Winter kit (suggested for ambient temperature < -4 °F)

Software Calculation Tool

Select your unit and check its CO_2 charge







AT THE FOLLOWING LINK YOU CAN CHECK THE UNIT CHARGE.

https://cubo2calculation.scmfrigo.com/#/home

Technical data Cubo$_2$ Aqua [a]

UMT WG T N45 BTDX

Ambient Temperature [°F]	Evaporation Temperature [°F] -31 Capacity [kBTU/h] min	-31 Capacity [kBTU/h] max	-31 COP	-22 Capacity [kBTU/h] min	-22 Capacity [kBTU/h] max	-22 COP	-13 Capacity [kBTU/h] min	-13 Capacity [kBTU/h] max	-13 COP	-4 Capacity [kBTU/h] min	-4 Capacity [kBTU/h] max	-4 COP
104	2.354	**4.064**	1.18	2.832	**7.814**	1.37	3.310	**9.076**	1.54	3.890	**10.578**	1.76
100.4	2.423	**6.585**	1.23	2.934	**7.916**	1.42	3.412	**9.179**	1.60	4.026	**10.680**	1.83
89.6	2.627	**6.893**	1.41	3.207	**8.223**	1.64	3.787	**9.486**	1.86	4.470	**10.994**	2.13
77	2.764	**7.097**	1.57	3.378	**8.462**	1.83	3.992	**9.725**	2.07	4.743	**11.226**	2.38
59	3.105	**7.609**	2.05	3.787	**8.974**	2.39	4.470	**10.271**	2.73	5.323	**11.772**	3.17
41	3.310	**7.814**	2.32	4.026	**9.213**	2.75	4.777	**10.509**	3.17	5.630	**12.011**	3.73

Water flow	3.2 gpm	**Sound pressure** [b]	38.8 dB(A)
Pressure drop	2.18 psi	**Power Supply**	230/1+N+PE/60
Weight	341.7 lbs		

UMT WG T N67 BTDX

Ambient Temperature [°F]	Evaporation Temperature [°F] -31 Capacity [kBTU/h] min	-31 Capacity [kBTU/h] max	-31 COP	-22 Capacity [kBTU/h] min	-22 Capacity [kBTU/h] max	-22 COP	-13 Capacity [kBTU/h] min	-13 Capacity [kBTU/h] max	-13 COP	-4 Capacity [kBTU/h] min	-4 Capacity [kBTU/h] max	-4 COP
104	3.822	**10.407**	1.27	4.641	**12.420**	1.45	5.459	**14.263**	1.62	6.381	**16.378**	1.80
100.4	3.890	**10.475**	1.32	4.709	**12.523**	1.51	5.528	**14.399**	1.69	6.449	**16.515**	1.89
89.6	4.129	**10.782**	1.51	4.948	**12.898**	1.75	5.767	**14.877**	1.96	6.688	**17.061**	2.21
77	4.265	**11.021**	1.68	5.118	**13.205**	1.95	5.937	**15.218**	2.20	6.858	**17.470**	2.49
59	4.606	**11.601**	2.19	5.494	**13.853**	2.57	6.312	**15.969**	2.93	7.234	**18.323**	3.37
41	4.777	**11.840**	2.50	5.698	**14.160**	2.97	6.551	**16.310**	3.44	7.473	**18.733**	4.02

Water flow	4.8 gpm	**Sound pressure** [b]	38.8 dB(A)
Pressure drop	2.90 psi	**Power Supply**	230/1+N+PE/60
Weight	341.7 lbs		

UMT WG T 067 BTDX

Ambient Temperature [°F]	Evaporation Temperature [°F] -31 Capacity [kBTU/h] min	-31 Capacity [kBTU/h] max	-31 COP	-22 Capacity [kBTU/h] min	-22 Capacity [kBTU/h] max	-22 COP	-13 Capacity [kBTU/h] min	-13 Capacity [kBTU/h] max	-13 COP	-4 Capacity [kBTU/h] min	-4 Capacity [kBTU/h] max	-4 COP
104	3.242	**14.945**	0.88	4.060	**18.153**	1.06	4.641	**20.575**	1.17	5.664	**24.602**	1.40
100.4	3.242	**14.945**	0.91	4.060	**18.153**	1.07	4.641	**20.575**	1.18	5.664	**24.602**	1.41
89.6	3.242	**14.945**	1.09	4.060	**18.153**	1.20	4.641	**20.575**	1.37	5.664	**24.602**	1.57
77	3.242	**14.945**	1.24	4.060	**18.153**	1.37	4.641	**20.575**	1.57	5.664	**24.602**	1.71
59	3.242	**14.945**	1.68	4.060	**18.153**	1.88	4.641	**20.575**	2.13	5.664	**24.602**	2.35
41	3.242	**14.945**	2.04	4.060	**18.153**	2.32	4.641	**20.575**	2.59	5.664	**24.602**	2.68

Water flow	6.2 gpm	**Sound pressure** [b]	41.7 dB(A)
Pressure drop	3.63 psi	**Power Supply**	460/3+N+PE/60
Weight	429.9 lbs		

UMT WG T 100 BTDX

Ambient Temperature [°F]	Evaporation Temperature [°F] -31 Capacity [kBTU/h] min	-31 Capacity [kBTU/h] max	-31 COP	-22 Capacity [kBTU/h] min	-22 Capacity [kBTU/h] max	-22 COP	-13 Capacity [kBTU/h] min	-13 Capacity [kBTU/h] max	-13 COP	-4 Capacity [kBTU/h] min	-4 Capacity [kBTU/h] max	-4 COP
104	5.186	**22.315**	0.89	6.449	**26.956**	1.08	7.302	**30.505**	1.17	8.872	**36.339**	1.40
100.4	5.186	**22.315**	0.90	6.449	**26.956**	1.09	7.302	**30.505**	1.18	8.872	**36.339**	1.41
89.6	5.186	**22.315**	1.18	6.449	**26.956**	1.27	7.302	**30.505**	1.43	8.872	**36.339**	1.58
77	5.186	**22.315**	1.36	6.449	**26.956**	1.47	7.302	**30.505**	1.65	8.872	**36.339**	1.77
59	5.186	**22.315**	1.91	6.449	**26.956**	2.08	7.302	**30.505**	2.33	8.872	**36.339**	2.51
41	5.186	**22.315**	2.35	6.449	**26.956**	2.66	7.302	**30.505**	2.92	8.872	**36.339**	2.93

Water flow	7.9 gpm	**Sound pressure** [b]	41.7 dB(A)
Pressure drop	4.64 psi	**Power Supply**	460/3+N+PE/60
Weight	429.9 lbs		

NOTES

[a] Insterstage SST variable from 23 °F to 32 °F according to operating conditions. Inverter modulation from 25 - 100%, corresponding to 1500-6000 rpm

[b] Based on free field area weed semi-spherical sound emission in 32.8 ft distance; tolerance ± 2 dB(A)

[c] Minimum Energy Performance Standards, calculated according to Ecodesign Directive EN 2009/125/EC

Technical data Cubo$_2$ Aqua [a]

UMT WG T 030 MTDX

Ambient Temperature [°F]	Evaporation Temperature [°F] 5 Capacity [kBTU/h] min	5 Capacity [kBTU/h] max	5 COP	14 Capacity [kBTU/h] min	14 Capacity [kBTU/h] max	14 COP	23 Capacity [kBTU/h] min	23 Capacity [kBTU/h] max	23 COP	32 Capacity [kBTU/h] min	32 Capacity [kBTU/h] max	32 COP	41 Capacity [kBTU/h] min	41 Capacity [kBTU/h] max	41 COP
104	1.024	**5.869**	1.24	1.331	**7.097**	1.48	1.672	**8.530**	1.75	2.047	**10.100**	2.06	2.491	**11.908**	2.42
100.4	1.126	**6.415**	1.35	1.433	**7.780**	1.61	1.808	**9.315**	1.92	2.252	**11.055**	2.26	2.730	**13.034**	2.65
89.6	1.365	**7.234**	1.74	1.740	**8.735**	2.08	2.150	**10.407**	2.48	2.627	**12.352**	2.94	3.173	**14.570**	3.47
77	1.570	**7.814**	2.11	1.945	**9.349**	2.53	2.388	**11.158**	3.02	2.900	**13.205**	3.58	3.515	**15.559**	4.24
59	2.116	**9.759**	3.43	2.593	**11.635**	4.13	3.139	**13.819**	4.95	3.787	**16.344**	5.92	4.538	**19.210**	7.05
41	2.627	**11.567**	4.99	3.173	**13.751**	6.01	3.856	**16.310**	7.22	4.606	**19.279**	8.66	-	**-**	-

Water flow	3.17 gpm	**Sound pressure** [b]	37.3 dB(A)
Pressure drop	2.18 psi	**Power Supply**	230/1+N+PE/60
Weight	332.9 lbs		

UMT WG T 045MTDX

Ambient Temperature [°F]	Evaporation Temperature [°F] 5 Capacity [kBTU/h] min	5 Capacity [kBTU/h] max	5 COP	14 Capacity [kBTU/h] min	14 Capacity [kBTU/h] max	14 COP	23 Capacity [kBTU/h] min	23 Capacity [kBTU/h] max	23 COP	32 Capacity [kBTU/h] min	32 Capacity [kBTU/h] max	32 COP	41 Capacity [kBTU/h] min	41 Capacity [kBTU/h] max	41 COP
104	1.774	**9.827**	1.19	2.218	**11.704**	1.41	2.764	**13.819**	1.65	3.344	**16.174**	1.93	4.060	**18.835**	2.24
100.4	1.911	**10.748**	1.30	2.423	**12.796**	1.54	3.003	**15.116**	1.81	3.685	**17.709**	2.11	4.436	**20.643**	2.45
89.6	2.320	**11.908**	1.68	2.866	**14.126**	1.98	3.515	**16.651**	2.33	4.265	**19.517**	2.74	5.118	**22.759**	3.20
77	2.593	**12.625**	2.03	3.207	**14.945**	2.40	3.890	**17.607**	2.83	4.675	**20.678**	3.34	5.596	**24.124**	3.91
59	3.412	**15.389**	3.30	4.163	**18.187**	3.92	5.016	**21.394**	4.66	5.971	**25.113**	5.52	7.097	**29.379**	6.53
41	4.163	**17.948**	4.81	5.016	**21.224**	5.74	6.039	**25.011**	6.84	7.165	**29.379**	8.15	-	**-**	-

Water flow	4.76 gpm	**Sound pressure** [b]	37.3 dB(A)
Pressure drop	2.90 psi	**Power Supply**	230/1+N+PE/60
Weight	332.9 lbs		

UMT WG T 067MTDX

Ambient Temperature [°F]	Evaporation Temperature [°F] 5 Capacity [kBTU/h] min	5 Capacity [kBTU/h] max	5 COP	14 Capacity [kBTU/h] min	14 Capacity [kBTU/h] max	14 COP	23 Capacity [kBTU/h] min	23 Capacity [kBTU/h] max	23 COP	32 Capacity [kBTU/h] min	32 Capacity [kBTU/h] max	32 COP	41 Capacity [kBTU/h] min	41 Capacity [kBTU/h] max	41 COP
104	2.423	**13.034**	1.08	3.071	**15.832**	1.29	3.856	**18.937**	1.52	4.709	**22.486**	1.80	5.732	**26.478**	2.11
100.4	2.627	**14.263**	1.18	3.378	**17.300**	1.41	4.197	**20.746**	1.67	5.186	**24.636**	1.97	6.278	**29.037**	2.31
89.6	3.139	**16.105**	1.52	3.958	**19.415**	1.81	4.982	**23.203**	2.16	5.971	**27.502**	2.56	7.200	**32.381**	3.02
77	3.515	**17.368**	1.84	4.368	**20.848**	2.20	5.357	**24.840**	2.62	6.517	**29.413**	3.12	7.848	**34.599**	3.69
59	4.709	**21.667**	2.99	5.767	**25.898**	3.59	6.995	**30.743**	4.31	8.428	**36.339**	5.15	10.066	**42.720**	6.14
41	5.835	**25.693**	4.34	7.097	**30.607**	5.23	8.530	**36.305**	6.29	9.725	**41.014**	6.77	-	**-**	-

Water flow	6.34 gpm	**Sound pressure** [b]	40.2 dB(A)
Pressure drop	3.63 psi	**Power Supply**	230/1+N+PE/60
Weight	335.1 lbs		

UMT WG T 100 MTDX

Ambient Temperature [°F]	Evaporation Temperature [°F] 5 Capacity [kBTU/h] min	5 Capacity [kBTU/h] max	5 COP	14 Capacity [kBTU/h] min	14 Capacity [kBTU/h] max	14 COP	23 Capacity [kBTU/h] min	23 Capacity [kBTU/h] max	23 COP	32 Capacity [kBTU/h] min	32 Capacity [kBTU/h] max	32 COP	41 Capacity [kBTU/h] min	41 Capacity [kBTU/h] max	41 COP
104	3.992	**19.927**	1.10	5.016	**23.987**	1.29	6.210	**28.525**	1.51	7.575	**33.678**	1.76	9.076	**39.444**	2.04
100.4	4.368	**21.804**	1.20	5.494	**26.205**	1.41	6.790	**31.221**	1.65	8.292	**36.885**	1.93	9.963	**43.232**	2.23
89.6	5.152	**24.465**	1.55	6.415	**29.276**	1.83	7.848	**34.736**	2.15	9.486	**40.980**	2.51	11.397	**48.043**	2.92
77	5.732	**26.239**	1.89	7.029	**31.255**	2.23	8.564	**37.022**	2.62	10.339	**43.641**	3.07	12.352	**51.114**	3.59
59	7.507	**32.347**	3.11	9.145	**38.421**	3.69	11.021	**45.416**	4.37	13.205	**53.502**	5.16	15.696	**62.715**	6.09
41	9.179	**38.045**	4.60	11.089	**45.143**	5.48	13.307	**53.298**	6.52	15.901	**62.783**	7.75	-	**-**	-

Water flow	7.93 gpm	**Sound pressure** [b]	40.2 dB(A)
Pressure drop	4.64 psi	**Power Supply**	460/3+N+PE/60
Weight	335.1 lbs		

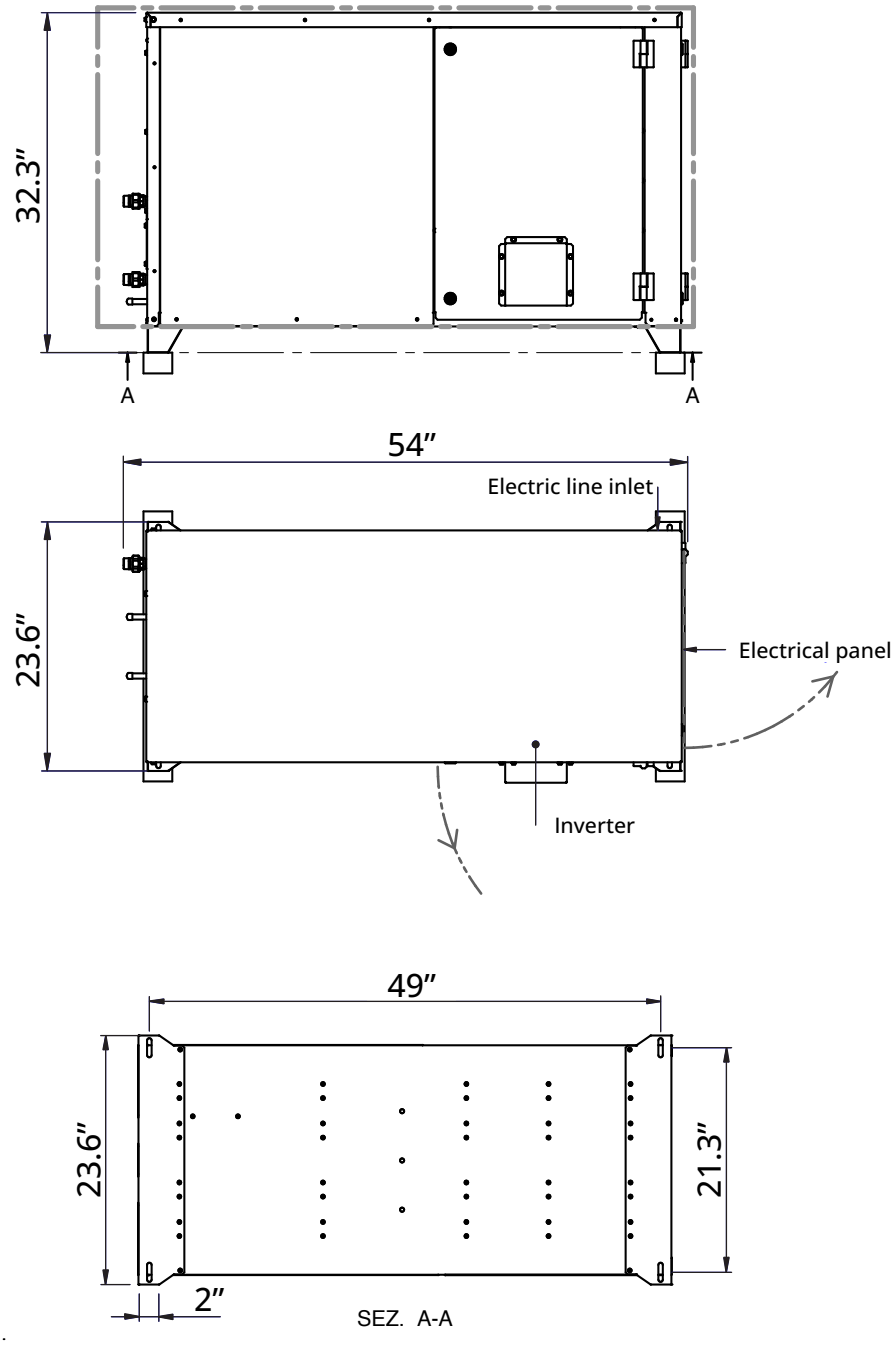
NOTES

[a] Interstage SST variable from 23 °F to 32 °F according to operating conditions. Inverter modulation from 25 - 100%, corresponding to 1500-6000 rpm

[b] Based on free field area weed semi-spherical sound emission in 32.8 ft distance; tolerance ± 2 dB(A)

[c] Minimum Energy Performance Standards, calculated according to Ecodesign Directive EN 2009/125/EC

Dimensional Data



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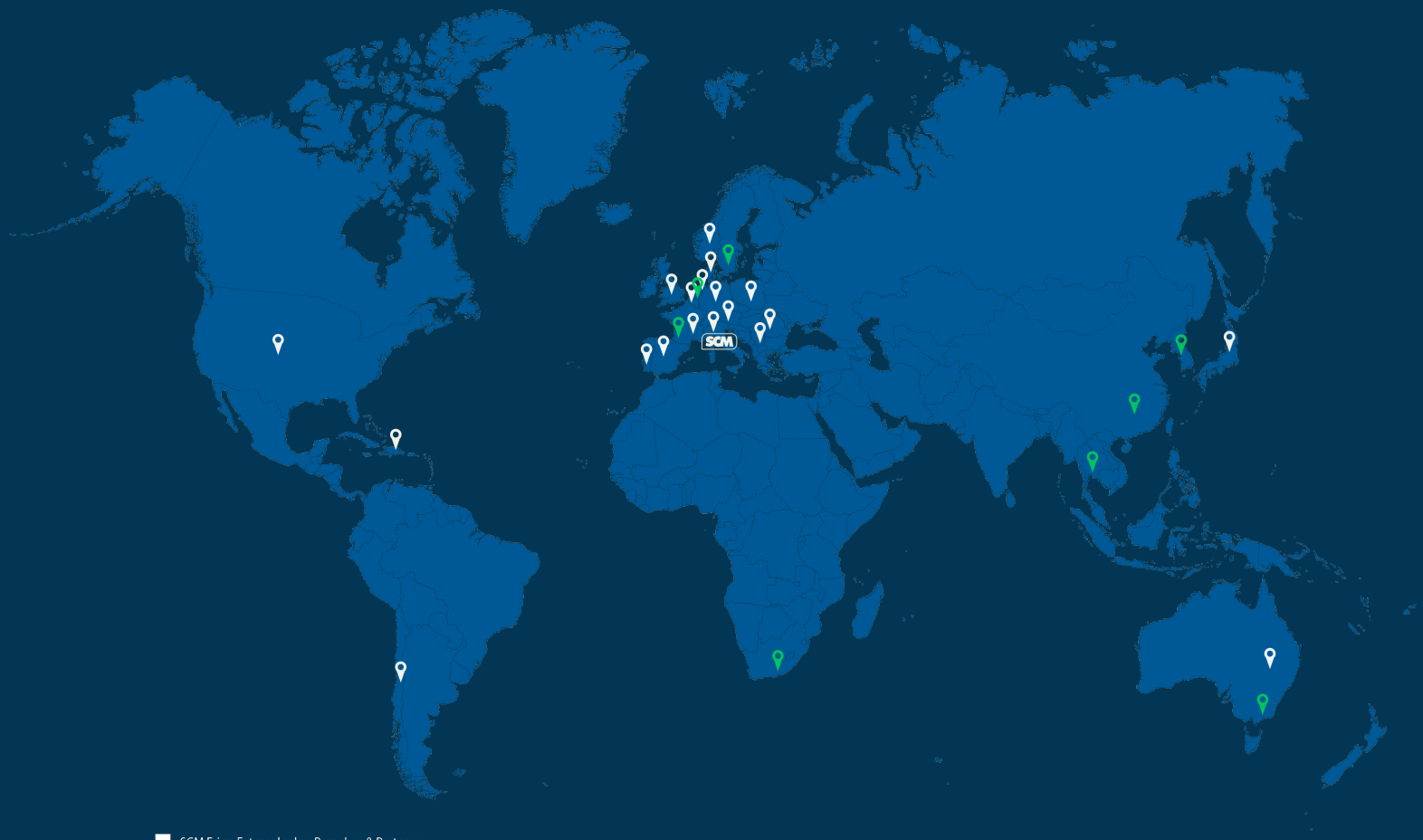

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