SCM FRIGO USA

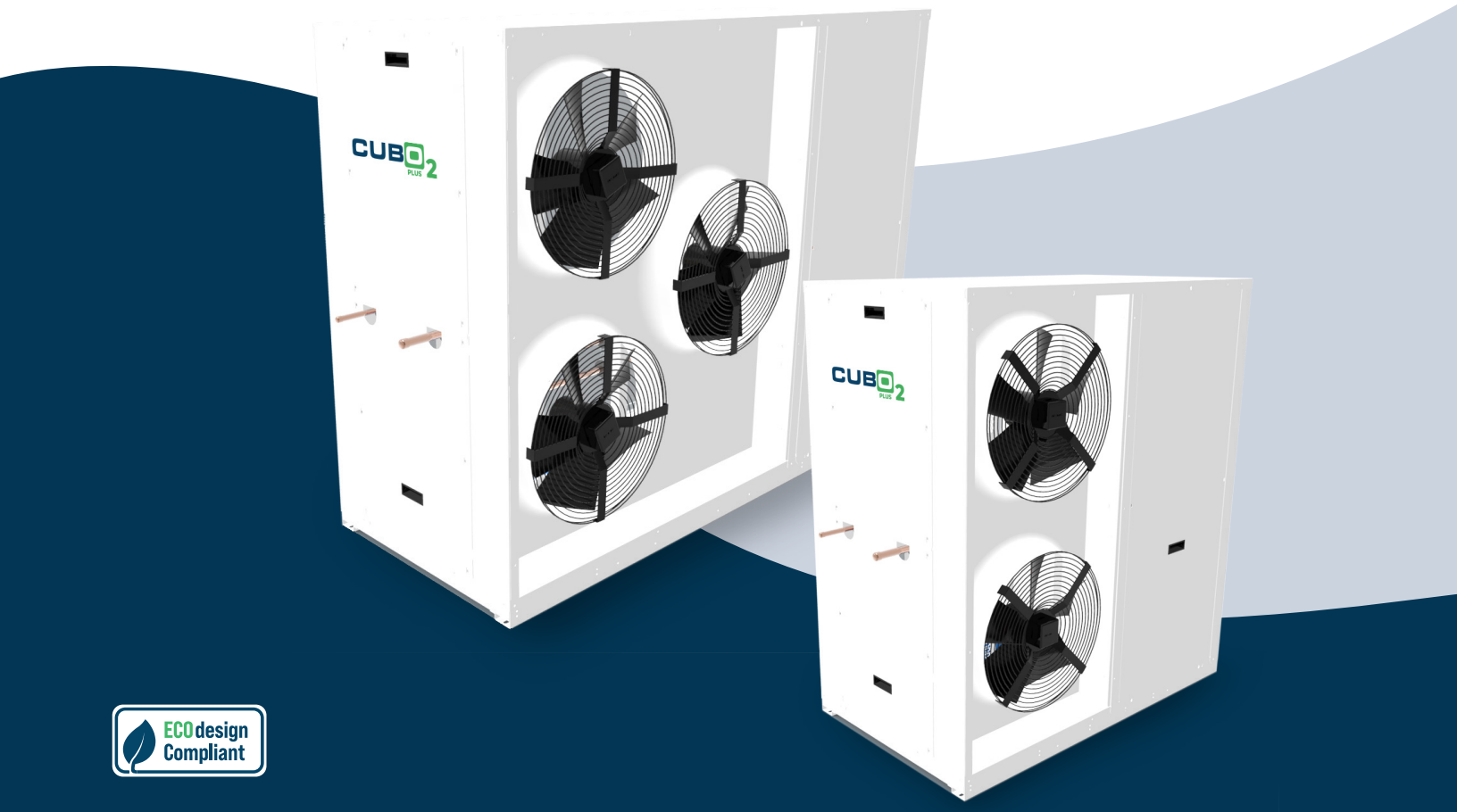
CUBO2 PLUS

SUSTAINABLE COLD SOLUTIONS

Transcritical CO_2 ndensing units

UL CERTIFIED

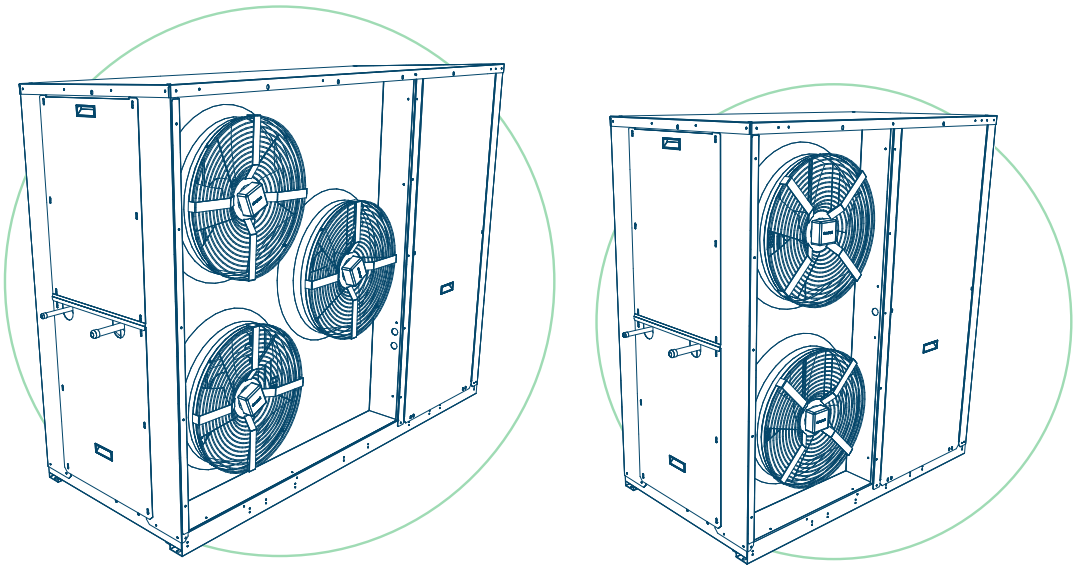
Available with VARISTEP CRII



ECOdesign Compliant

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

BEIJER REF



Condensing unit for transcritical CO_2 applications equipped with BITZER or DORIN semi-hermetic piston compressors with frequency inverter or BITZER CRII, integrated air cooled gas cooler and EC fans. It is a high-efficiency solution designed for a small footprint and low noise.

MAIN ADVANTAGES

- CO_2 REFRIGERANT
- EFFICIENT SOLUTION
- LOW NOISE
- SMALL FOOTPRINT
- EASY START-UP
- SEMI-HERMETIC RECIPROCATIONG COMPRESSOR
- GAS COOLER EQUIPPED

Cooling Capacity

Transcritical condensing units DX

UMT MTDX

8,087.00 BTU/h
0.67 Ton

152,523.00 BTU/h
12.7 Ton

UMT BTDX

3,412.50 BTU/h
0.28 Ton

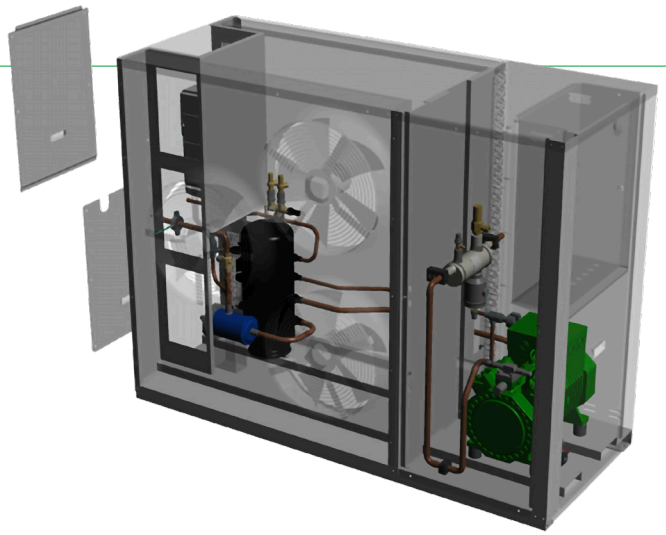
53,912.00 BTU/h
4.5 Ton

Standard Accessories

- Semi-hermetic reciprocating compressor
- Carel controller
- Inverter modulation for capacity control 60% - 140% or Bitzer CRII for capacity modulation 10% - 100%
- Integrated gas cooler with EC fans
- Design pressure: 130 bar / 1885 PSI (high pressure side) | 80 bar / 1160 PSI (liquid line) |80 bar / 1160 PSI (suction line)
- Power supply 460V / 3Ph + PE /60 Hz
- ASME Liquid receiver - 0.53 ft^3
- UL Certified equipment
- K65 connections

Accessories on Request

- ASME Liquid receiver - 1.31 ft^3
- Adiabatic system (suggested for ambient temperature > + 100.4°F)
- RDM/Danfoss controller
- Epoxy or electrofin gas cooler corrosion coil protection



Additional Features & Benefits

1. **Service accessibility**
   Easy access panels for fast maintenance and reduced downtime.
2. **Compact footprint**
   Save space in mechanical rooms or rooftops.
3. **Condenser fan control**
   Variable speed fan optimizes performance and energy efficiency, reducing operating costs.
4. **Control board access**
   Safe and user-friendly access to electronic components for simplified commissioning and diagnostics.
5. **Integrated monitoring system**
   Real-time performance tracking and remote diagnostics.
6. **Horizontal discharge**
   Ideal for compact installations or areas with height restrictions; improves airflow management.
7. **Self-leveling feet**
   Quick installation on uneven surfaces; improves unit stability and alignment.
8. **Standard coils**
   Optimized heat transfer; customizable fin density ensures performance across different climates and applications.

Technical data Cubo$_2$ Plus [a]

LOW TEMPERATURE
Variable Speed Drive

UMT 055 BTDX — Dorin CD2S 550

Ambient temperature [°F]	Evaporation Temperature[°F] -40 Capacity [kBTU/h] min	-40 Capacity [kBTU/h] max	-40 Pe kW	-40 COP	-31 Capacity [kBTU/h] min	-31 Capacity [kBTU/h] max	-31 Pe kW	-31 COP	-22 Capacity [kBTU/h] min	-22 Capacity [kBTU/h] max	-22 Pe kW	-22 COP	-13 Capacity [kBTU/h] min	-13 Capacity [kBTU/h] max	-13 Pe kW	-13 COP
104	-	-	-	-	-	-	-	-	17.57	**35.13**	8,92	1,15	22.01	**44.02**	6,22	2,08
100	-	-	-	-	15.09	**30.18**	8,14	1,09	17.73	**35.46**	8,63	1,20	22.001	**44.02**	6,22	2,08
90	13.14	**26.29**	7,09	1,09	15.56	**31.12**	7,42	1,23	18.08	**36.15**	7,82	1,35	20.58	**41.15**	8,16	1,48
77	13.43	**26.86**	6,40	1,23	15.70	**31.40**	6,70	1,37	18.43	**36.85**	7,02	1,54	21.19	**42.38**	7,32	1,70
59	13.74	**27.47**	5,56	1,45	16.38	**32.76**	5,71	1,68	19.16	**38.36**	6,00	1,87	22.01	**44.02**	6,22	2,08
41	14.25	**28.50**	4,62	1,81	16.95	**33.90**	4,82	2,06	19.78	**39.55**	4,98	2,33	-	-	-	-

N. of fans	2 x Ø 500 mm	**MEPS** [c]	1,80
Weight	1,235 lbs	**Annual Energy Consumption**	65,817 kWh/year
Sound pressure [b]	48 dB(A)	**FLA/MRA/Pmax**	18,9 A / 67,4 A / 9,4 kW

UMT 075 BTDX — Dorin CD2S 750

Ambient temperature [°F]	Evaporation Temperature[°F] -40 Capacity [kBTU/h] min	-40 Capacity [kBTU/h] max	-40 Pe kW	-40 COP	-31 Capacity [kBTU/h] min	-31 Capacity [kBTU/h] max	-31 Pe kW	-31 COP	-22 Capacity [kBTU/h] min	-22 Capacity [kBTU/h] max	-22 Pe kW	-22 COP	-13 Capacity [kBTU/h] min	-13 Capacity [kBTU/h] max	-13 Pe kW	-13 COP
104	-	-	-	-	-	-	-	-	22.62	**45.24**	12,14	1,09	25.22	**50.44**	12,59	1,17
100	-	-	-	-	19.78	**39.55**	11,11	1,04	22.79	**45.57**	11,69	1,14	25.75	**51.51**	12,14	1,24
90	17.40	**34.80**	9,65	1,06	20.04	**40.09**	10,03	1,17	23.44	**46.88**	10,50	1,31	26.49	**52.98**	10,87	1,43
77	17.69	**35.38**	8,58	1,21	20.57	**41.15**	8,94	1,35	23.75	**47.50**	9,29	1,50	27.70	**55.40**	9,48	1,71
59	18.34	**36.69**	7,30	1,47	21.54	**43.07**	7,60	1,66	24.61	**49.22**	7,97	1,81	28.35	**56.71**	8,06	2,06
41	18.85	**37.71**	6,04	1,83	22.36	**44.71**	6,26	2,09	25.69	**51.39**	6,47	2,33	-	-	-	0,00

N. of fans	2 x Ø 500 mm	**MEPS** [c]	1,85
Weight	1,257 lbs	**Annual Energy Consumption**	85,345 kWh/year
Sound pressure [b]	48 dB(A)	**FLA/MRA/Pmax**	23,9 A / 90,4 A / 12,1 kW

UMT 090 BTDX — Dorin CD2S 900

Ambient temperature [°F]	Evaporation Temperature[°F] -40 Capacity [kBTU/h] min	-40 Capacity [kBTU/h] max	-40 Pe kW	-40 COP	-31 Capacity [kBTU/h] min	-31 Capacity [kBTU/h] max	-31 Pe kW	-31 COP	-22 Capacity [kBTU/h] min	-22 Capacity [kBTU/h] max	-22 Pe kW	-22 COP	-13 Capacity [kBTU/h] min	-13 Capacity [kBTU/h] max	-13 Pe kW	-13 COP
104	-	-	-	-	-	-	-	-	26.96	**53.92**	14,74	1,07	30.05	**60.11**	15,24	1,16
100	-	-	-	-	24.16	**48.32**	13,58	1,04	27.84	**55.69**	14,28	1,14	31.10	**62.20**	14,76	1,23
90	21.03	**42.05**	11,76	1,05	24.51	**49.01**	12,26	1,17	28.29	**56.59**	12,76	1,30	32.00	**64.00**	13,20	1,42
77	21.37	**42.75**	10,46	1,20	25.18	**50.36**	10,91	1,35	29.05	**58.10**	11,32	1,50	32.84	**65.68**	11,66	1,65
59	38.57	**44.38**	8,89	1,46	26.06	**52.12**	9,23	1,66	30.03	**60.03**	9,52	1,85	34.68	**69.36**	9,80	2,07
41	22.87	**45.74**	7,34	1,83	26.76	**53.52**	7,57	2,07	31.10	**62.20**	7,84	2,33	-	-	-	-

N. of fans	3 x Ø 500 mm	**MEPS** [c]	1,87
Weight	1,433 lbs	**Annual Energy Consumption**	103,011 kWh/year
Sound pressure [b]	48 dB(A)	**FLA/MRA/Pmax**	29,6 A / 98,6 A / 14,8 kW

UMT 200 BTDX — Dorin CD2S 2000

Ambient temperature [°F]	Evaporation Temperature[°F] -40 Capacity [kBTU/h] min	-40 Capacity [kBTU/h] max	-40 Pe kW	-40 COP	-31 Capacity [kBTU/h] min	-31 Capacity [kBTU/h] max	-31 Pe kW	-31 COP	-22 Capacity [kBTU/h] min	-22 Capacity [kBTU/h] max	-22 Pe kW	-22 COP	-13 Capacity [kBTU/h] min	-13 Capacity [kBTU/h] max	-13 Pe kW	-13 COP
104	-	-	-	-	-	-	-	-	33.39	**66.78**	16,82	1,16	38.06	**76.12**	17,64	1,26
100	-	-	-	-	29.01	**58.02**	15,36	1,11	33.70	**67.40**	16,28	1,21	38.41	**76.81**	17,06	1,32
90	25.22	**50.44**	13,39	1,10	29.56	**59.13**	14,08	1,23	34.35	**68.71**	14,78	1,36	39.59	**79.19**	15,52	1,50
77	25.75	**51.51**	12,08	1,25	30.16	**60.31**	12,68	1,39	35.38	**70.75**	13,33	1,56	40.29	**80.58**	13,91	1,70
59	26.63	**53.27**	10,44	1,50	31.43	**62.85**	10,94	1,68	36.81	**73.62**	11,45	1,88	42.28	**84.55**	11,88	2,09
41	27.64	**55.28**	8,75	1,85	32.49	**64.98**	9,12	2,09	37.94	**75.87**	9,54	2,33	-	-	-	-

N. of fans	3 x Ø 500 mm	**MEPS** [c]	1,89
Weight	1,444 lbs	**Annual Energy Consumption**	125,074 kWh/year
Sound pressure [b]	50 dB(A)	**FLA/MRA/Pmax**	44,6 A / 183,6 A / 23,7 kW

UMT 250 BTDX — Dorin CD2S 2500

Ambient temperature [°F]	Evaporation Temperature[°F] -40 Capacity [kBTU/h] min	-40 Capacity [kBTU/h] max	-40 Pe kW	-40 COP	-31 Capacity [kBTU/h] min	-31 Capacity [kBTU/h] max	-31 Pe kW	-31 COP	-22 Capacity [kBTU/h] min	-22 Capacity [kBTU/h] max	-22 Pe kW	-22 COP	-13 Capacity [kBTU/h] min	-13 Capacity [kBTU/h] max	-13 Pe kW	-13 COP
104	-	-	-	-	-	-	-	-	42.26	**84.51**	21,89	1,13	47.95	**95.89**	22,81	1,23
100	-	-	-	-	37.26	**74.52**	20,24	1,08	43.12	**86.23**	21,18	1,19	48.95	**97.90**	22,06	1,30
90	32.35	**64.69**	17,41	1,09	37.83	**75.67**	18,22	1,22	43.83	**87.66**	19,02	1,35	49.75	**99.50**	19,76	1,48
77	33.25	**66.50**	15,49	1,26	38.90	**77.80**	16,31	1,40	44.51	**89.02**	16,94	1,54	51.08	**102.16**	17,58	1,70
59	34.21	**68.42**	13,42	1,49	40.29	**80.58**	13,97	1,69	46.53	**93.07**	14,46	1,89	53.35	**106.70**	14,89	2,10
41	35.23	**70.47**	11,17	1,85	41.38	**82.75**	11,56	2,10	48.23	**96.47**	11,99	2,36	-	-	-	-

N. of fans	3 x Ø 500 mm	**MEPS** [c]	1,90
Weight	1,455 lbs	**Annual Energy Consumption**	159,585 kWh/year
Sound pressure [b]	50 dB(A)	**FLA/MRA/Pmax**	51,6 A / 209,6 A / 27,6 kW

NOTES

[a] Inverter modulation from 30 to 60 Hz except / cooling capacity min @30Hz - @60Hz except** @60Hz
[b] Based on free field area with semi-spherical sound emission in 10m (~33ft) distance; tolerance ± 2 dB(A)
[c] Minimum Energy Performance Standards, calculated according to Ecodesign Directive EN 2009/125/EC

Technical data Cubo$_2$ Plus [a]

UMT 036 MTDX Dorin CD 360H

Ambient temp [°F]	Evaporation Temperature[°F] 5 Capacity[kBTU/h] min	max	Pe kW	EER	14 Capacity[kBTU/h] min	max	Pe kW	EER	23 Capacity[kBTU/h] min	max	Pe kW	EER	32 Capacity[kBTU/h] min	max	Pe kW	EER	41 Capacity[kBTU/h] min	max	Pe kW	EER
104	6.70	**13.40**	4.39	3.05	8.40	**16.80**	4.60	3.65	10.33	**20.66**	4.77	4.33	12.46	**24.92**	4.60	5.08	14.76	**29.52**	4.99	5.92
100	7.06	**14.11**	4.32	3.26	8.83	**17.66**	4.51	3.91	10.83	**21.67**	4.66	4.65	13.05	**26.11**	4.77	5.48	15.45	**30.89**	4.83	6.40
90	8.32	**16.64**	4.08	4.08	10.33	**20.66**	4.20	4.92	12.60	**25.20**	4.27	5.90	15.10	**30.21**	4.30	7.02	17.80	**35.67**	4.28	8.33
77	9.90	**19.80**	4.04	4.91	12.28	**24.65**	3.98	6.17	14.97	**29.94**	4.21	7.11	17.95	**35.89**	4.23	8.49	21.18	**42.35**	4.19	10.10
59	12.44	**24.88**	3.59	6.93	15.04	**30.08**	3.20	9.39	18.43	**36.86**	3.57	10.33	21.93	**43.87**	3.47	12.63	23.73	**51.46**	3.32	15.51
41	15.23	**30.46**	3.00	10.14	18.47	**36.95**	2.63	14.06	22.12	**44.23**	2.78	15.92	26.13	**52.26**	2.58	20.29	30.48	**60.96**	2.31	26.43

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2.56
Weight	1,014 lbs	**Annual Energy Consumption**	19,150 kWh/year
Sound pressure [b]	43 dB(A)	**MRA/Pmax**	15.9 A / 7.5 kW

UMT 075 MTDX Dorin CD 4 75-4.7 H

Ambient temp [°F]	Evaporation Temperature[°F] 5 Capacity[kBTU/h] min	max	Pe kW	EER	14 Capacity[kBTU/h] min	max	Pe kW	EER	23 Capacity[kBTU/h] min	max	Pe kW	EER	32 Capacity[kBTU/h] min	max	Pe kW	EER	41 Capacity[kBTU/h] min	max	Pe kW	EER
104	13.98	**27.97**	7.71	3.63	17.09	**34.19**	8.04	4.25	20.42	**40.85**	8.28	4.93	23.83	**47.66**	8.45	5.64	27.16	**54.33**	8.52	6.38
100	14.58	**29.17**	7.53	3.88	17.75	**35.5**	7.81	4.54	21.09	**42.18**	8.02	5.26	24.45	**48.91**	8.15	6.00	27.67	**55.33**	8.18	6.77
90	16.4	**32.8**	6.91	4.75	19.39	**38.77**	7.08	5.47	22.21	**44.41**	7.17	6.20	24.73	**49.45**	7.16	6.91	26.91	**53.82**	7.05	7.64
77	20.08	**40.15**	6.82	5.89	24.37	**48.74**	6.97	6.99	28.97	**57.94**	7.04	8.23	33.61	**67.23**	7.01	9.59	37.96	**75.93**	6.88	11.04
59	24.28	**48.57**	5.86	8.28	28.71	**57.42**	5.85	9.82	32.67	**65.34**	5.74	11.38	35.6	**71.19**	5.53	12.87	39.23	**78.46**	5.22	15.04
41	27.24	**54.47**	4.71	11.57	31.28	**62.55**	4.53	13.81	37.07	**74.13**	4.25	17.45	43.4	**86.8**	3.86	22.47	50.21	**100.42**	3.37	29.81

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2.67
Weight	1,433 lbs	**Annual Energy Consumption**	26,174 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	20.5 A / 10.4 kW

UMT 120 MTDX Dorin CD4 90-6.4H

Ambient temp [°F]	Evaporation Temperature[°F] 5 Capacity[kBTU/h] min	max	Pe kW	EER	14 Capacity[kBTU/h] min	max	Pe kW	EER	23 Capacity[kBTU/h] min	max	Pe kW	EER	32 Capacity[kBTU/h] min	max	Pe kW	EER	41 Capacity[kBTU/h] min	max	Pe kW	EER
104	19.31	**38.61**	10.33	3.74	23.63	**47.31**	10.78	4.39	28.32	**56.64**	11.13	5.09	33.06	**66.12**	11.37	5.81	37.62	**75.24**	11.5	6.54
100	20.16	**40.32**	10.08	4.00	24.6	**49.19**	10.48	4.69	29.28	**58.55**	10.78	5.43	33.92	**67.85**	10.97	6.19	38.26	**76.54**	11.04	6.93
90	22.82	**45.63**	9.24	4.94	26.95	**53.90**	9.48	5.69	30.71	**61.41**	9.61	6.39	33.96	**67.91**	9.63	7.05	36.79	**73.57**	9.52	7.73
77	27.65	**55.31**	9.11	6.07	33.64	**67.28**	9.33	7.21	40.04	**80.08**	9.43	8.49	46.34	**92.67**	9.41	9.84	51.87	**103.74**	9.27	11.19
59	33.62	**67.25**	7.80	8.62	39.95	**79.90**	7.81	10.23	45.33	**90.66**	7.70	11.78	49.00	**97.99**	7.47	13.12	53.73	**107.45**	7.12	15.09
41	40.07	**80.13**	6.27	12.78	42.83	**85.65**	6.08	14.08	50.7	**101.39**	5.79	17.52	59.29	**118.58**	5.38	22.03	68.5	**137.01**	4.88	28.10

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2.75
Weight	1,257 lbs	**Annual Energy Consumption**	35,268 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	26.3 A / 13.8 kW

UMT 150 MTDX CD4 120-9.2H

Ambient temp [°F]	Evaporation Temperature[°F] 5 Capacity[kBTU/h] min	max	Pe kW	EER	14 Capacity[kBTU/h] min	max	Pe kW	EER	23 Capacity[kBTU/h] min	max	Pe kW	EER	32 Capacity[kBTU/h] min	max	Pe kW	EER	41 Capacity[kBTU/h] min	max	Pe kW	EER
104	27.6	**55.2**	14.79	3.73	33.95	**67.91**	15.46	4.39	40.98	**81.97**	16.00	5.12	48.48	**96.96**	16.4	5.91	56.14	**112.29**	16.66	6.74
100	28.86	**57.71**	14.43	4.00	35.42	**70.84**	15.03	4.71	42.64	**85.27**	15.50	5.50	50.25	**100.51**	15.83	6.35	57.93	**115.86**	16.00	7.24
90	33.18	**66.36**	13.24	5.01	46.44	**92.89**	16.92	5.49	51.53	**103.07**	17.08	6.03	48.22	**96.44**	13.89	6.90	60.63	**121.26**	13.94	8.70
77	39.46	**78.91**	13.06	6.04	48.12	**96.24**	13.4	7.18	57.75	**115.49**	13.60	8.49	68.08	**136.16**	13.65	9.97	78.66	**157.32**	13.56	11.6
59	48.11	**96.22**	11.24	8.56	58.10	**116.2**	11.30	10.28	69.01	**138.01**	11.23	12.28	80.12	**160.25**	11.05	14.51	90.21	**180.41**	10.75	16.79
41	57.17	**114.34**	9.15	12.50	68.04	**136.07**	9.03	15.07	78.65	**157.29**	8.81	17.85	87.81	**175.62**	8.51	20.64	96.58	**193.17**	8.13	23.77

N. of fans	3 x Ø 500 mm	**MEPS** [c]	2.83
Weight	1,235 lbs	**Annual Energy Consumption**	51,217 kWh/year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	33.4 A / 18.6 kW

UMT 190 MTDX Dorin CD 2000H

Ambient temp [°F]	Evaporation Temperature[°F] 5 Capacity[kBTU/h] min	max	Pe kW	EER	14 Capacity[kBTU/h] min	max	Pe kW	EER	23 Capacity[kBTU/h] min	max	Pe kW	EER	32 Capacity[kBTU/h] min	max	Pe kW	EER	41 Capacity[kBTU/h] min	max	Pe kW	EER
104	36.32	**72.63**	18.81	3.86	43.89	**87.77**	19.5	4.5	51.54	**103.08**	20.01	5.15	58.86	**98.1**	16.93	5.79	64.42	**107.37**	17.16	6.26
100	37.7	**75.4**	18.27	4.13	45.21	**90.41**	18.88	4.79	52.61	**105.22**	19.31	5.45	59.51	**99.18**	16.24	6.11	64.36	**107.27**	16.38	6.55
90	44.09	**88.18**	17.29	5.1	52.56	**105.13**	17.76	5.92	60.59	**121.18**	18.03	6.72	67.67	**112.78**	15.08	7.48	73.64	**122.74**	14.95	8.21
77	51.95	**103.9**	16.31	6.37	62.18	**124.36**	16.62	7.48	71.92	**143.85**	16.74	8.6	77.73	**129.78**	13.64	9.5	83.33	**138.89**	13.48	10.3
59	61.26	**122.53**	13.84	8.85	68.73	**137.47**	13.81	9.95	74.35	**148.7**	13.59	10.94	89.9	**149.67**	11.49	13.02	123.25	**205.42**	11.52	17.83
41	67.69	**135.37**	11.05	12.25	80.95	**161.91**	10.71	15.12	95.66	**191.31**	10.2	18.75	105.73	**176.21**	9.63	18.31	120.13	**200.22**	9.68	20.7

N. of fans	3 x Ø 500 mm	**MEPS** [c]	2.85
Weight	1,444 lbs	**Annual Energy Consumption**	66,470 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	42.4 A / 24 kW

NOTES

[a] Inverter modulation from 30 to 60 Hz except / cooling capacity min @30Hz - @60Hz except** @60Hz

[b] Based on free field area with semi-spherical sound emission in 10m (~33ft) distance; tolerance ± 2 dB(A)

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

Technical data Cubo$_2$ Plus [a]

MEDIUM TEMPERATURE - BITZER

Variable Speed Drive

UMT 036 MTDX — Bitzer 2MTE-5K

Evaporation Temperature[°F]

Ambient temp [°F]	5 Capacity[kBTU/h] min	5 Capacity[kBTU/h] max	5 Pe kW	5 EER	14 Capacity[kBTU/h] min	14 Capacity[kBTU/h] max	14 Pe kW	14 EER	23 Capacity[kBTU/h] min	23 Capacity[kBTU/h] max	23 Pe kW	23 EER	32 Capacity[kBTU/h] min	32 Capacity[kBTU/h] max	32 Pe kW	32 EER	41 Capacity[kBTU/h] min	41 Capacity[kBTU/h] max	41 Pe kW	41 EER
104	9.72	**19.44**	5.23	3.72	11.86	**23.72**	5.93	4	14.3	**28.6**	6.13	4.66	17	**34.01**	6.29	5.4	20.16	**40.33**	6.39	6.32
100	10.18	**20.36**	5.09	4	12.44	**24.89**	5.77	4.31	15.03	**30.05**	5.96	5.04	17.88	**35.76**	6.09	5.87	21.15	**42.31**	6.15	6.88
90	11.81	**23.61**	4.64	5.09	14.47	**28.94**	5.26	5.5	17.45	**34.9**	5.37	6.5	20.56	**41.13**	5.4	7.61	23.67	**47.34**	5.36	8.83
77	13.96	**27.91**	4.58	6.1	17.21	**34.41**	5.19	6.63	20.99	**41.99**	5.28	7.95	25.42	**50.84**	5.3	9.59	30.28	**60.55**	5.24	11.55
59	16.95	**33.9**	3.57	9.49	20.66	**41.31**	4.03	10.25	24.53	**49.06**	4.02	12.21	28.84	**57.67**	3.96	14.56	33.43	**66.86**	3.81	17.53
41	20.23	**40.47**	2.97	13.61	24.6	**49.2**	3.34	14.74	29.19	**58.38**	3.24	18.02	34.41	**68.83**	3.1	22.22	39.88	**79.75**	2.86	27.88

N. of fans	2 x Ø 500 mm	**MEPS [c]**	2.75
Weight	1,014 lbs	**Annual Energy Consumption**	18,927 kWh/year
Sound pressure [b]	43 dB(A)	**MRA/Pmax**	15.9 A / 7.5 kW

UMT 075 MTDX — Bitzer 2KTE-7K

Evaporation Temperature[°F]

Ambient temp [°F]	5 Capacity[kBTU/h] min	5 Capacity[kBTU/h] max	5 Pe kW	5 EER	14 Capacity[kBTU/h] min	14 Capacity[kBTU/h] max	14 Pe kW	14 EER	23 Capacity[kBTU/h] min	23 Capacity[kBTU/h] max	23 Pe kW	23 EER	32 Capacity[kBTU/h] min	32 Capacity[kBTU/h] max	32 Pe kW	32 EER	41 Capacity[kBTU/h] min	41 Capacity[kBTU/h] max	41 Pe kW	41 EER
104	14.02	**28.05**	7.88	3.56	17.22	**34.44**	8.24	4.18	20.91	**41.82**	8.54	4.9	25.06	**50.13**	8.77	5.72	29.51	**59.02**	8.91	6.62
100	14.7	**29.4**	7.68	3.83	18.06	**36.11**	8.01	4.51	21.89	**43.79**	8.28	5.29	26.15	**52.31**	8.48	6.17	30.66	**61.33**	8.57	7.15
90	17.06	**34.12**	7.04	4.85	20.79	**41.58**	7.27	5.72	24.72	**49.44**	7.42	6.66	28.54	**57.07**	7.49	7.62	31.96	**63.92**	7.43	8.6
77	20.34	**40.69**	6.94	5.86	25	**50**	7.16	6.99	30.33	**60.67**	7.29	8.32	36.3	**72.6**	7.33	9.9	42.65	**85.3**	7.25	11.76
59	24.25	**48.5**	5.58	8.69	28.93	**57.86**	5.67	10.2	34.08	**68.17**	5.7	11.97	39.72	**79.45**	5.64	14.07	45.82	**91.65**	5.5	16.65
41	29.04	**58.09**	4.74	12.25	34.43	**68.85**	4.73	14.57	40.36	**80.72**	4.64	17.39	46.86	**93.72**	4.48	20.9	53.92	**107.83**	4.27	25.46

N. of fans	2 x Ø 500 mm	**MEPS [c]**	2.78
Weight	1,036 lbs	**Annual Energy Consumption**	26,966 kWh/year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	20.5 A / 10.4 kW

UMT 120 MTDX — Bitzer 4MTE-10K

Evaporation Temperature[°F]

Ambient temp [°F]	5 Capacity[kBTU/h] min	5 Capacity[kBTU/h] max	5 Pe kW	5 EER	14 Capacity[kBTU/h] min	14 Capacity[kBTU/h] max	14 Pe kW	14 EER	23 Capacity[kBTU/h] min	23 Capacity[kBTU/h] max	23 Pe kW	23 EER	32 Capacity[kBTU/h] min	32 Capacity[kBTU/h] max	32 Pe kW	32 EER	41 Capacity[kBTU/h] min	41 Capacity[kBTU/h] max	41 Pe kW	41 EER
104	18.4	**36.8**	10.33	3.65	22.86	**45.73**	11.02	4.15	27.74	**55.47**	11.5	4.82	32.91	**65.82**	11.78	5.59	38.16	**76.32**	11.87	6.43
100	19.44	**38.88**	10.2	3.81	24.01	**48.03**	10.78	4.46	28.93	**57.85**	11.16	5.19	34.01	**68.03**	11.34	6	39.02	**78.03**	11.34	6.88
90	22.55	**45.1**	9.53	4.73	26.88	**53.76**	9.81	5.48	30.87	**61.74**	9.92	6.23	34.45	**68.9**	9.84	7	37.75	**75.51**	9.63	7.84
77	27.37	**54.74**	9.41	5.82	33.63	**67.27**	9.65	6.97	40.47	**80.93**	9.72	8.33	47.41	**94.82**	9.62	9.86	53.66	**107.31**	9.36	11.47
59	31.6	**63.2**	7.65	8.26	37.61	**75.22**	7.73	9.73	44.18	**88.37**	7.73	11.43	51.36	**102.72**	7.64	13.44	59.12	**118.24**	7.47	15.83
41	37.78	**75.56**	6.44	11.73	44.35	**88.7**	6.28	14.13	52.44	**104.87**	6.37	16.46	60.81	**121.61**	6.24	19.49	69.86	**139.71**	6.05	23.09

N. of fans	2 x Ø 500 mm	**MEPS [c]**	2.68
Weight	1,257 lbs	**Annual Energy Consumption**	36,104 kWh/year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	26.3 A / 13.8 kW

UMT 150 MTDX — Bitzer 4KTE-12K

Evaporation Temperature[°F]

Ambient temp [°F]	5 Capacity[kBTU/h] min	5 Capacity[kBTU/h] max	5 Pe kW	5 EER	14 Capacity[kBTU/h] min	14 Capacity[kBTU/h] max	14 Pe kW	14 EER	23 Capacity[kBTU/h] min	23 Capacity[kBTU/h] max	23 Pe kW	23 EER	32 Capacity[kBTU/h] min	32 Capacity[kBTU/h] max	32 Pe kW	32 EER	41 Capacity[kBTU/h] min	41 Capacity[kBTU/h] max	41 Pe kW	41 EER
104	27.9	**55.8**	15.2	3.67	34.58	**69.16**	15.8	4.38	41.76	**83.52**	16.32	5.12	49.26	**98.53**	16.72	5.89	56.79	**113.59**	16.96	6.7
100	29.38	**58.75**	14.78	3.98	36.22	**72.45**	15.33	4.73	43.45	**86.9**	15.79	5.5	50.81	**101.61**	16.11	6.31	57.97	**115.95**	16.26	7.13
90	33.42	**66.85**	13.45	4.97	39.78	**79.55**	13.82	5.76	45.54	**91.08**	14.06	6.48	50.71	**101.41**	14.11	7.19	55.46	**110.91**	13.95	7.95
77	40.81	**81.62**	13.25	6.16	50.28	**100.55**	13.6	7.4	60.41	**120.81**	13.79	8.76	70.5	**141.01**	13.8	10.22	79.47	**158.94**	13.58	11.7
59	47.19	**94.39**	10.8	8.74	55.99	**111.99**	11.01	10.17	65.7	**131.41**	11.1	11.83	76.37	**152.74**	11.06	13.81	88	**176.01**	10.85	16.23
41	57.78	**115.56**	9.19	12.58	67.57	**135.14**	9.22	14.66	78.46	**156.93**	9.13	17.19	90.58	**181.16**	8.9	20.36	103.85	**207.71**	8.53	24.35

N. of fans	3 x Ø 500 mm	**MEPS [c]**	2.74
Weight	1,422 lbs	**Annual Energy Consumption**	52,347 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	33.4 A / 18.6 kW

UMT 190 MTDX — Bitzer 4HTE-20K

Evaporation Temperature[°F]

Ambient temp [°F]	5 Capacity[kBTU/h] min	5 Capacity[kBTU/h] max	5 Pe kW	5 EER	14 Capacity[kBTU/h] min	14 Capacity[kBTU/h] max	14 Pe kW	14 EER	23 Capacity[kBTU/h] min	23 Capacity[kBTU/h] max	23 Pe kW	23 EER	32 Capacity[kBTU/h] min	32 Capacity[kBTU/h] max	32 Pe kW	32 EER	41 Capacity[kBTU/h] min	41 Capacity[kBTU/h] max	41 Pe kW	41 EER
104	36.29	**72.57**	18.66	3.89	43.67	**87.35**	19.6	4.46	51.55	**94.42**	18.61	5.07	59.37	**98.95**	17.31	5.71	66.87	**111.46**	17.53	6.36
100	37.96	**75.92**	18.2	4.17	45.26	**90.52**	19.01	4.76	52.86	**96.82**	17.96	5.39	60.21	**100.35**	16.62	6.04	67.15	**111.92**	16.75	6.68
90	44.79	**89.58**	17.29	5.18	46.84	**93.69**	17.01	5.51	59	**108.06**	16.42	6.58	68.71	**114.52**	15.33	7.47	78.84	**131.4**	15.64	8.4
77	53.02	**106.04**	16.32	6.5	63.01	**126.02**	16.7	7.55	73.01	**133.72**	15.46	8.65	81.62	**136.03**	14.02	9.7	88.62	**147.7**	13.85	10.66
59	58.28	**116.55**	13.5	8.63	68.31	**136.61**	13.75	9.94	79.55	**145.7**	12.75	11.43	91.67	**152.78**	11.67	13.09	104.75	**174.9**	11.68	14.95
41	69	**138**	11.58	11.92	80.75	**161.49**	11.65	13.86	93.87	**171.93**	10.72	16.04	107.92	**179.87**	9.76	18.44	123	**204.99**	9.74	21.04

N. of fans	3 x Ø 500 mm	**MEPS [c]**	2.71
Weight	1,444 lbs	**Annual Energy Consumption**	62,283 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	42.4 A / 24 kW

NOTES

[a] Inverter modulation from 30 to 60 Hz except / cooling capacity min @30Hz - @60Hz except** @60Hz

[b] Based on free field area with semi-spherical sound emission in 10m (~33ft) distance; tolerance ± 2 dB(A)

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

Technical data Cubo$_2$ Plus [a]

UMT 075 VS MTDX — Bitzer 4PTE-7K

Ambient temp [°F]	Evaporation Temperature[°F] 5 Capacity[kBTU/h] min	max	Pe kW	EER	14 Capacity[kBTU/h] min	max	Pe kW	EER	23 Capacity[kBTU/h] min	max	Pe kW	EER	32 Capacity[kBTU/h] min	max	Pe kW	EER	41 Capacity[kBTU/h] min	max	Pe kW	EER
104	2.34	**23.37**	6.26	1.1	2.87	**28.73**	6.55	1.29	3.5	**34.96**	6.81	1.51	4.21	**42.14**	7	1.76	5.02	**50.21**	7.13	2.06
100	2.45	**24.51**	6.09	1.18	3.01	**30.15**	6.36	1.39	3.67	**36.69**	6.59	1.63	4.42	**44.17**	6.76	1.92	5.25	**52.51**	6.85	2.25
90	2.85	**28.54**	5.55	1.51	3.51	**35.06**	5.74	1.79	4.25	**42.48**	5.88	2.12	5.06	**50.56**	5.94	2.5	5.86	**58.64**	5.91	2.91
77	3.39	**33.9**	5.47	1.82	4.17	**41.67**	5.65	2.16	5.06	**50.62**	5.77	2.57	6.09	**60.86**	5.81	3.07	7.24	**72.41**	5.75	3.69
59	4.17	**41.74**	4.23	2.89	4.99	**49.94**	4.28	3.42	5.9	**59.04**	4.28	4.05	6.91	**69.06**	4.21	4.81	8	**80**	4.07	5.76
41	5	**49.97**	3.51	4.18	5.94	**59.41**	3.47	5.02	6.99	**69.88**	3.37	6.07	8.15	**81.46**	3.21	7.44	9.42	**94.15**	2.98	9.26

N. of fans	2 x Ø 500 mm	**MEPS** [c]	3.14
Weight	1,036 lbs	**Annual Energy Consumption**	20,096 kWh/year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	20.5 A / 10.4 kW

UMT 120 VS MTDX — Bitzer 4MTE-10K

Ambient temp [°F]	Evaporation Temperature[°F] 5 Capacity[kBTU/h] min	max	Pe kW	EER	14 Capacity[kBTU/h] min	max	Pe kW	EER	23 Capacity[kBTU/h] min	max	Pe kW	EER	32 Capacity[kBTU/h] min	max	Pe kW	EER	41 Capacity[kBTU/h] min	max	Pe kW	EER
104	3.07	**30.67**	8.61	3.56	3.81	**38.11**	9.18	4.15	4.62	**46.23**	9.59	4.82	5.48	**54.85**	9.82	5.59	6.36	**63.6**	9.89	6.43
100	3.24	**32.4**	8.5	3.81	4	**40.02**	8.98	4.46	4.82	**48.21**	9.3	5.19	5.67	**56.69**	9.45	6	6.5	**65.03**	9.45	6.88
90	3.76	**37.58**	7.94	4.73	4.48	**44.8**	8.18	5.48	5.14	**51.45**	8.26	6.23	5.74	**57.41**	8.2	7	6.29	**62.92**	8.02	7.84
77	4.56	**45.62**	7.84	5.82	5.61	**56.06**	8.04	6.97	6.74	**67.44**	8.1	8.33	7.9	**79.02**	8.01	9.86	8.94	**89.43**	7.9	11.47
59	5.27	**52.66**	6.37	8.26	6.27	**62.68**	6.44	9.73	7.36	**73.64**	6.44	11.43	8.56	**85.6**	6.37	13.44	9.85	**98.54**	6.23	15.83
41	6.3	**62.97**	5.37	11.73	7.39	**73.92**	5.23	14.13	8.74	**87.4**	5.31	16.46	10.13	**101.34**	5.2	19.49	11.64	**116.43**	5.04	23.09

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2.68
Weight	1,257 lbs	**Annual Energy Consumption**	30,081 kWh/year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	26.3 A / 13.8 kW

UMT 150 VS MTDX — Bitzer 4KTE-12K

Ambient temp [°F]	Evaporation Temperature[°F] 5 Capacity[kBTU/h] min	max	Pe kW	EER	14 Capacity[kBTU/h] min	max	Pe kW	EER	23 Capacity[kBTU/h] min	max	Pe kW	EER	32 Capacity[kBTU/h] min	max	Pe kW	EER	41 Capacity[kBTU/h] min	max	Pe kW	EER
104	4.65	**46.5**	12.67	3.67	5.76	**57.63**	13.17	4.38	6.96	**69.6**	13.6	5.12	9.85	**98.53**	13.94	7.07	11.36	**113.59**	14.14	8.04
100	4.9	**48.96**	12.31	3.98	6.04	**60.37**	12.77	4.73	7.24	**72.42**	13.16	5.5	10.16	**101.61**	13.43	7.57	11.59	**115.95**	13.55	8.56
90	5.57	**55.71**	11.21	4.97	6.63	**66.29**	11.52	5.76	7.59	**75.9**	11.72	6.48	10.14	**101.41**	11.76	8.62	11.09	**110.91**	11.63	9.54
77	6.8	**68.02**	11.05	6.16	8.38	**83.8**	11.33	7.4	10.07	**100.68**	11.49	8.76	14.1	**141.01**	11.5	12.26	15.89	**158.94**	11.32	14.04
59	7.87	**78.66**	9	8.74	9.33	**93.32**	9.18	10.17	10.95	**109.51**	9.25	11.83	15.27	**152.74**	9.21	16.58	17.6	**176.01**	9.04	19.47
41	9.63	**96.3**	7.66	12.58	11.26	**112.62**	7.68	14.66	13.08	**130.77**	7.61	17.19	18.12	**181.16**	7.41	24.43	20.77	**207.71**	7.11	29.22

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2.80
Weight	1,421 lbs	**Annual Energy Consumption**	42,608 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	33.4 A / 18.6 kW

UMT 190 MTDX — Bitzer 4HTE-20K

Ambient temp [°F]	Evaporation Temperature[°F] 5 Capacity[kBTU/h] min	max	Pe kW	EER	14 Capacity[kBTU/h] min	max	Pe kW	EER	23 Capacity[kBTU/h] min	max	Pe kW	EER	32 Capacity[kBTU/h] min	max	Pe kW	EER	41 Capacity[kBTU/h] min	max	Pe kW	EER
104	6.05	**60.48**	15.55	3.89	7.28	**72.79**	16.33	4.46	8.58	**85.83**	16.92	5.07	9.89	**98.95**	17.31	5.71	11.15	**111.46**	17.53	6.36
100	6.33	**63.26**	15.17	4.17	7.54	**75.44**	15.84	4.76	8.8	**88.02**	16.33	5.39	10.04	**100.35**	16.62	6.04	11.19	**111.92**	16.75	6.68
90	7.46	**74.65**	14.41	5.18	7.81	**78.07**	14.17	5.51	9.82	**98.24**	14.93	6.58	11.45	**114.52**	15.33	7.47	13.14	**131.4**	15.64	8.4
77	8.84	**88.36**	13.6	6.5	10.5	**105.02**	13.91	7.55	12.16	**121.56**	14.05	8.65	13.6	**136.03**	14.02	9.7	14.77	**147.7**	13.85	10.66
59	9.71	**97.13**	11.25	8.63	11.38	**113.84**	11.46	9.94	13.25	**132.45**	11.59	11.43	15.28	**152.78**	11.67	13.09	17.46	**174.59**	11.68	14.95
41	11.5	**115**	9.65	11.92	13.46	**134.58**	9.71	13.86	15.63	**156.3**	9.74	16.04	17.99	**179.87**	9.76	18.44	20.5	**204.99**	9.74	21.04

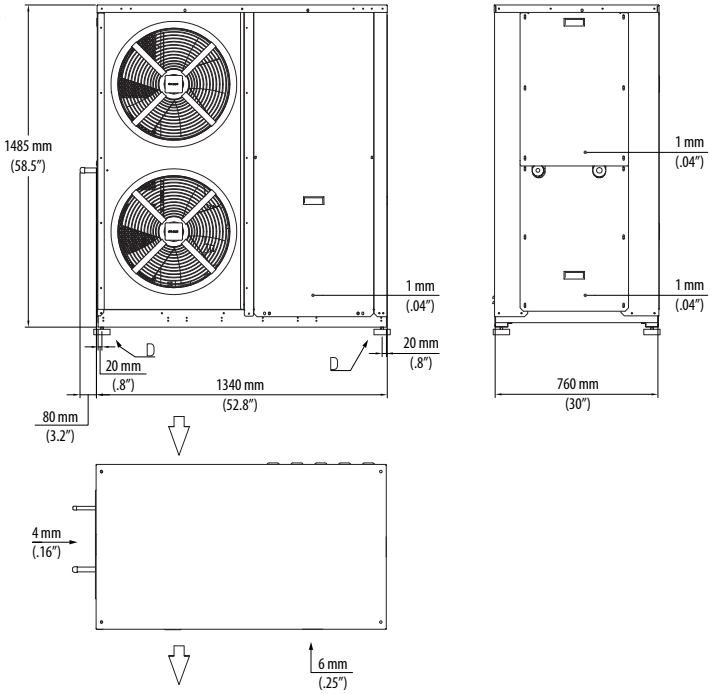
N. of fans	3 x Ø 500 mm	**MEPS** [c]	2.71
Weight	1,444 lbs	**Annual Energy Consumption**	51,896 kWh/year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	42.4 A / 24 kW

NOTES

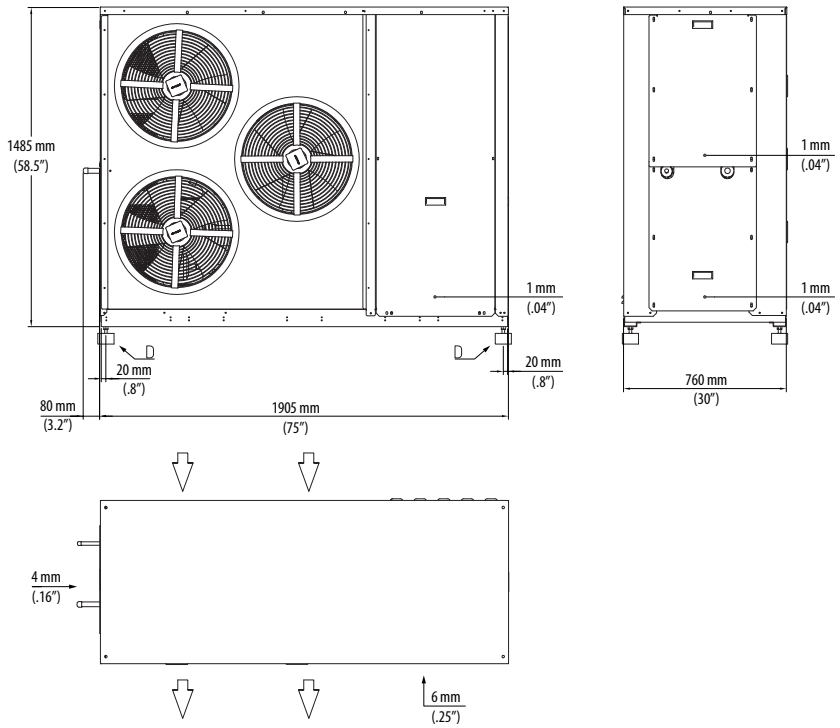
[a] Varistep modulation from 10 to 100 % of the capacity @ 60 Hz
[b] Based on free field area with semi-spherical sound emission in 10m (~33ft) distance; tolerance ± 2 dB(A)
[c] Minimum Energy Performance Standards, calculated according to Ecodesign Directive EN 2009/125/EC

Dimensional Data

2 fans

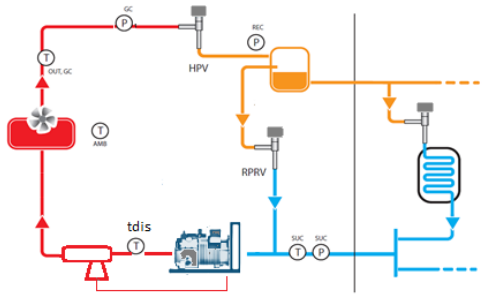


3 fans



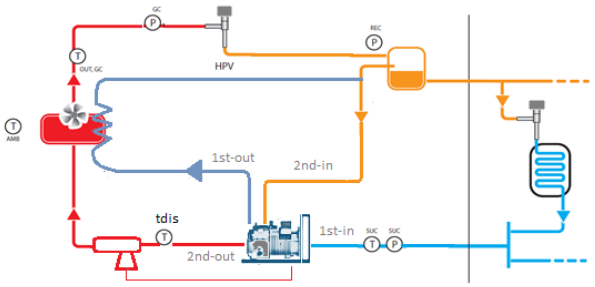
Unit Configuration

MODEL UMT MTDX



- One semi-hermetic Compressor
- Oil management with: oil separator, oil reservoir, TraxOil, Level Control
- Receiver Pressure: Fixed set point, adjustable by parameter (Factory Setting = 40 bar/580psi). Receiver pressure is managed by the flash valve.

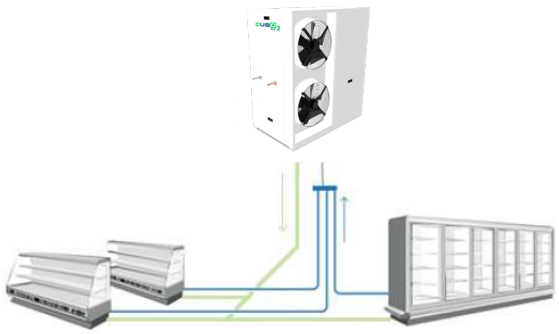
MODEL UMT BTDX



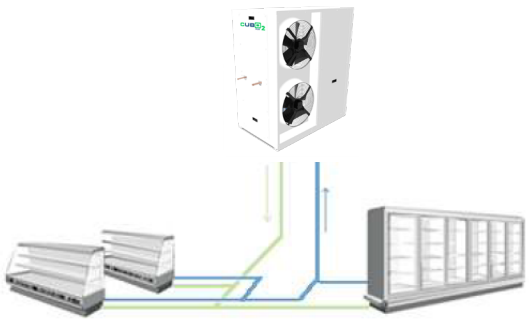
- One semi-hermetic compressor 2-Stage
- Air cooled intercooler integrated in the gas cooler coil
- Oil management with: oil separator, oil reservoir, TraxOil, Level Control
- Receiver Pressure: variable pressure according to the operating conditions and to the model compressor (Open Flash Tank System)

Installation Design

Multi-Split



Branch



Pipe Connections (Multi-Split or Branch)

The connection between the Condensing Unit and more remote evaporators can be the same as used for Multi-Split or branch systems.

The preference is the one that is able to guarantee the highest gas velocity in the suction line (for a good oil return) with a low pressure drop.

For Multi-Split layout, the system requires a dedicated suction line for each evaporator that will be collected by a manifold installed close to the condensing unit.

Please refer to the example reported in the pictures.

- Liquid line must be properly sized to supply the farther evaporators (liquid velocity <3.2 ft/s is suggested).
- Suction line must be properly sized to have a good oil return with a low pressure drop (gas velocity min 16.4 ft/s).

Pressure/Temperature saturation table for CO_2/R744

Temp	CO_2 (R-744) Pressure		Temp
°F	psi(g)	bar(g)	°C
-39	134.2	9.3	-39.4
-38	137.2	9.5	-38.9
-37	140.3	9.7	-38.3
-36	143.5	9.9	-37.8
-35	146.7	10.1	-37.2
-34	149.9	10.3	-36.7
-33	153.2	10.6	-36.1
-32	156.5	10.8	-35.6
-31	159.9	11.0	-35.0
-30	163.3	11.3	-34.4
-29	166.8	11.5	-33.9
-28	170.3	11.7	-33.3
-27	173.9	12.0	-32.8
-26	177.5	12.2	-32.2
-25	181.2	12.5	-31.7
-24	185.0	12.8	-31.1
-23	188.7	13.0	-30.6
-22	192.6	13.3	-30.0
-21	196.5	13.5	-29.4
-20	200.4	13.8	-28.9
-19	204.4	14.1	-28.3
-18	208.5	14.4	-27.8
-17	212.6	14.7	-27.2
-16	216.7	14.9	-26.7
-15	221.0	15.2	-26.1
-14	225.2	15.5	-25.6
-13	229.6	15.8	-25.0
-12	234.0	16.1	-24.4
-11	238.4	16.4	-23.9
-10	242.9	16.7	-23.3
-9	247.5	17.1	-22.8
-8	252.1	17.4	-22.2
-7	256.8	17.7	-21.7
-6	261.5	18.0	-21.1
-5	266.3	18.4	-20.6
-4	271.2	18.7	-20.0
-3	276.1	19.0	-19.4
-2	281.1	19.4	-18.9
-1	286.1	19.7	-18.3
0	291.2	20.1	-17.8
1	296.4	20.4	-17.2
2	301.7	20.8	-16.7
3	307.0	21.2	-16.1
4	312.3	21.5	-15.6
5	317.8	21.9	-15.0
6	323.2	22.3	-14.4
7	328.8	22.7	-13.9
8	334.4	23.1	-13.3
9	340.1	23.5	-12.8
10	345.9	23.8	-12.2
11	351.7	24.3	-11.7
12	357.6	24.7	-11.1
13	363.6	25.1	-10.6
14	369.7	25.5	-10.0
15	375.8	25.9	-9.4
16	382.0	26.3	-8.9
17	388.2	26.8	-8.3
18	394.5	27.2	-7.8
19	400.9	27.6	-7.2
20	407.4	28.1	-6.7
21	414.0	28.5	-6.1
22	420.6	29.0	-5.6
23	427.3	29.5	-5.0
24	434.0	29.9	-4.4
25	440.9	30.4	-3.9
26	447.8	30.9	-3.3
27	454.8	31.4	-2.8
28	461.9	31.8	-2.2
29	469.0	32.3	-1.7
30	476.3	32.8	-1.1
31	483.6	33.3	-0.6
32	491.0	33.9	0.0
33	498.5	34.4	0.6
34	506.0	34.9	1.1
35	513.6	35.4	1.7
36	521.4	35.9	2.2
37	529.2	36.5	2.8
38	537.1	37.0	3.3
39	545.0	37.6	3.9
40	553.1	38.1	4.4
41	561.2	38.7	5.0
42	569.5	39.3	5.6
43	577.8	39.8	6.1
44	586.2	40.4	6.7
45	594.7	41.0	7.2
46	603.2	41.6	7.8

Typical Low Temp Suction

Typcial Medium Temp Suction

Temp	CO_2 (R-744) Pressure		Temp
°F	psi(g)	bar(g)	°C
47	611.9	42.2	8.3
48	620.7	42.8	8.9
49	629.5	43.4	9.4
50	638.5	44.0	10.0
51	647.5	44.6	10.6
52	656.7	45.3	11.1
53	665.9	46.0	11.7
54	675.2	46.6	12.2
55	684.6	47.2	12.8
56	694.2	47.9	13.3
57	703.8	48.5	13.9
58	713.5	49.2	14.4
59	723.3	49.9	15.0
60	733.3	50.6	15.6
61	743.3	51.2	16.1
62	753.4	51.9	16.7
63	763.6	52.7	17.2
64	774.0	53.4	17.8
65	784.4	54.1	18.3
66	795.0	54.8	18.9
67	805.7	55.5	19.4
68	816.4	56.3	20.0
69	827.3	57.0	20.6
70	838.3	57.8	21.1
71	849.4	58.6	21.7
72	860.7	59.3	22.2
73	872.0	60.1	22.8
74	883.5	60.9	23.3
75	895.1	61.7	23.9
76	906.9	62.5	24.4
77	918.7	63.3	25.0
78	930.7	64.2	25.6
79	942.8	65.0	26.1
80	955.1	65.9	26.7
81	967.5	66.7	27.2
82	980.0	67.6	27.8
83	992.7	68.4	28.3
84	1005.6	69.3	28.9
85	1018.6	70.2	29.4
86	1031.8	71.1	30.0
87	1045.1	72.1	30.6
87.8	1055.5	72.8	31.0

Transcritical Gas Cooler Pressure & Temperature Correlations

Approximate gas cooler pressures a system may experince at various dropleg temps listed below.

Dropleg	Gas Cooler CO_2		Dropleg
Temp °F	psi(g)	bar(g)	Temp °C
81	1037	71.5	27.2
82	1055	72.8	27.8
83	1073	74.0	28.3
84	1091	75.2	28.9
85	1109	76.2	29.4
86	1127	77.7	30.0
87	1145	79.0	30.6
88	1163	80.2	31.1
89	1180	81.4	31.7
90	1198	82.6	32.2
91	1216	83.9	32.8
92	1234	85.1	33.3
93	1252	86.3	33.9
94	1270	87.6	34.4
95	1288	88.8	35.0
96	1306	90.1	35.6
97	1323	91.2	36.1
98	1341	92.5	36.7
99	1359	93.7	37.2
100	1377	95.0	37.8
101	1395	96.2	38.3
102	1413	97.4	38.9
103	1431	98.7	39.4
104	1449	99.9	40.0
104+	1450	100.0	40.0+

SCM Frigo External sales, Branches & Partners

SCM Ref OEM

Discover our global network:
www.beijerref.com/operations/our-companies-and-branches

Stay connected.

Follow our LinkedIn page to discover more stories from our team and insights into what makes SCM Frigo a leader in innovation and sustainability.

Connect with Us on Linkedin

1-855-789-COLD (2653) SCMUS@scmfrigo.com
+39 049 970 5000 info@scmfrigo.com www.scmfrigo.com

SCM FRIGO

A BEIJER REF Company

SCM FRIGO S.p.A. - Viale Andrea Palladio, 31 35020 Sant'Angelo di Piove di Sacco

Member of CISQ Federation
RINA IQNET
CERTIFIED MANAGEMENT SYSTEM
ISO 9001 - ISO 14001