ENG

SCM FRIGO

CUBO 2 PLUS

SUSTAINABLE COLD SOLUTIONS

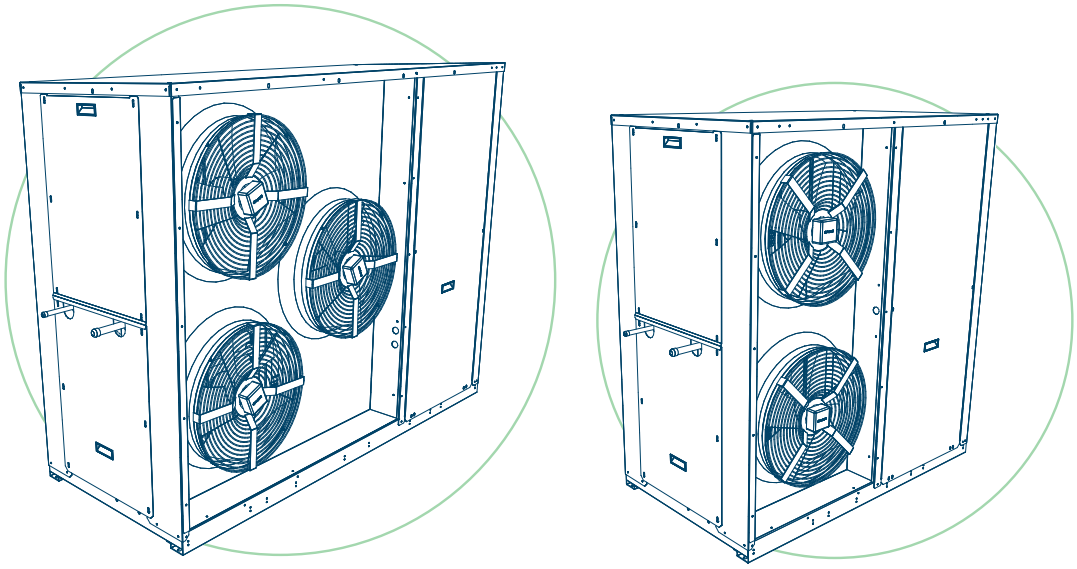
Transcritical CO_2 ndensing units



ECOdesign Compliant

We know the art of achieving
a perfect temperature

BEIJER REF



Condensing unit for transcritical CO_2 applications equipped with BITZER/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 OR SCROLL COMPRESSOR
- GAS COOLER EQUIPPED

Cooling Capacity

Transcritical condensing units DX



Standard Accessories

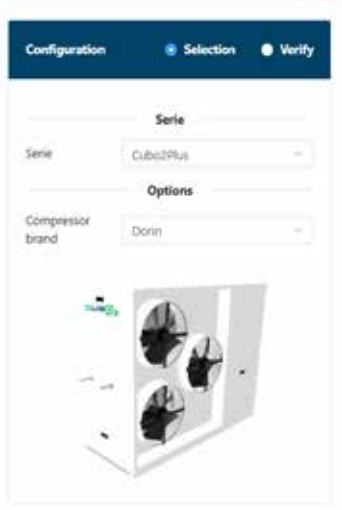
- Semihermetic reciprocating or scroll compressor
- Carel controller
- Inverter modulation for capacity control 60% - 140% or Bitzer CRII for capacity modulation 10% - 100%
- Integrated gas cooler with EC fans
- Design pressure: 130 bar (high pressure side) | 80 bar (liquid line) | 80 bar (suction line)
- Power supply 400V/3+N/50Hz
- Liquid receiver 15 liters (PED III)
- K65 connections

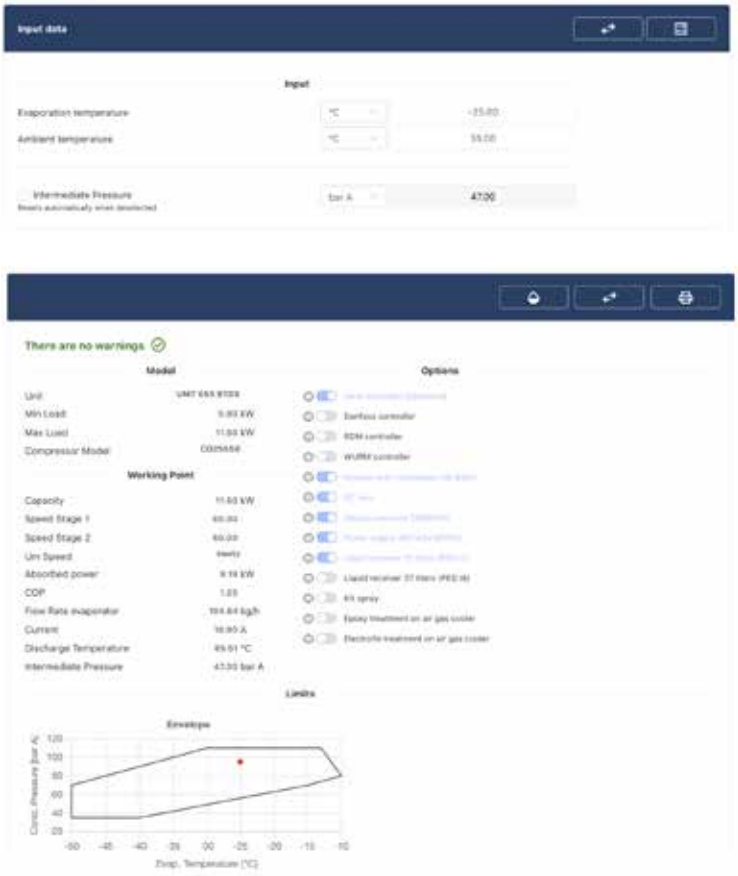
Accessories on Request

- Liquid receiver 37 liters (PED III)
- Adiabatic kit water spray, including controller
- RDM/Danfoss/Wurm controller
- Epoxy or Electrofin gas cooler corrosion coil protection

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$_2$ Plus [a]

LOW TEMPERATURE
Variable Speed Drive

UMT 055 BTDX – Dorin CD2S 550

Ambient temperature [°C]	Evaporation Temperature [°C] -40 Capacity [kW] min	-40 Capacity [kW] max	-40 Pe kW	-40 COP	-35 Capacity [kW] min	-35 Capacity [kW] max	-35 Pe kW	-35 COP	-30 Capacity [kW] min	-30 Capacity [kW] max	-30 Pe kW	-30 COP	-25 Capacity [kW] min	-25 Capacity [kW] max	-25 Pe kW	-25 COP
40	-	-	-	-	-	-	-	-	5,15	**10,30**	8,92	1,15	6,45	**12,90**	6,22	2,08
38	-	-	-	-	4,42	**8,84**	8,14	1,09	5,20	**10,39**	8,63	1,20	6,45	**12,90**	6,22	2,08
32	3,85	**7,70**	7,09	1,09	4,56	**9,12**	7,42	1,23	5,30	**10,60**	7,82	1,35	6,03	**12,06**	8,16	1,48
25	3,94	**7,87**	6,40	1,23	4,60	**9,20**	6,70	1,37	5,40	**10,80**	7,02	1,54	6,21	**12,42**	7,32	1,70
15	4,03	**8,05**	5,56	1,45	4,80	**9,60**	5,71	1,68	5,62	**11,24**	6,00	1,87	6,45	**12,90**	6,22	2,08
5	4,18	**8,35**	4,62	1,81	4,97	**9,94**	4,82	2,06	5,80	**11,59**	4,98	2,33	-	-	-	-

N. of fans	2 x Ø 500 mm	**MEPS** [c]	1,80
Weight	560 kg	**Annual Energy Consumption**	65817 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 [°C]	Evaporation Temperature [°C] -40 Capacity [kW] min	-40 Capacity [kW] max	-40 Pe kW	-40 COP	-35 Capacity [kW] min	-35 Capacity [kW] max	-35 Pe kW	-35 COP	-30 Capacity [kW] min	-30 Capacity [kW] max	-30 Pe kW	-30 COP	-25 Capacity [kW] min	-25 Capacity [kW] max	-25 Pe kW	-25 COP
40	-	-	-	-	-	-	-	-	6,63	**13,26**	12,14	1,09	7,39	**14,78**	12,59	1,17
38	-	-	-	-	5,80	**11,59**	11,11	1,04	6,68	**13,36**	11,69	1,14	7,55	**15,10**	12,14	1,24
32	5,10	**10,20**	9,65	1,06	5,87	**11,75**	10,03	1,17	6,87	**13,74**	10,50	1,31	7,76	**15,53**	10,87	1,43
25	5,18	**10,37**	8,58	1,21	6,03	**12,06**	8,94	1,35	6,96	**13,92**	9,29	1,50	8,12	**16,24**	9,48	1,71
15	5,38	**10,75**	7,30	1,47	6,31	**12,62**	7,60	1,66	7,21	**14,42**	7,97	1,81	8,31	**16,62**	8,06	2,06
5	5,53	**11,05**	6,04	1,83	6,55	**13,10**	6,26	2,09	7,53	**15,06**	6,47	2,33	-	-	-	

N. of fans	2 x Ø 500 mm	**MEPS** [c]	1,85
Weight	570 kg	**Annual Energy Consumption**	85345 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 [°C]	Evaporation Temperature [°C] -40 Capacity [kW] min	-40 Capacity [kW] max	-40 Pe kW	-40 COP	-35 Capacity [kW] min	-35 Capacity [kW] max	-35 Pe kW	-35 COP	-30 Capacity [kW] min	-30 Capacity [kW] max	-30 Pe kW	-30 COP	-25 Capacity [kW] min	-25 Capacity [kW] max	-25 Pe kW	-25 COP
40	-	-	-	-	-	-	-	-	7,90	**15,80**	14,74	1,07	8,81	**17,62**	15,24	1,16
38	-	-	-	-	7,08	**14,16**	13,58	1,04	8,16	**16,32**	14,28	1,14	9,11	**18,23**	14,76	1,23
32	6,16	**12,32**	11,76	1,05	7,18	**14,36**	12,26	1,17	8,29	**16,58**	12,76	1,30	9,38	**18,76**	13,20	1,42
25	6,26	**12,53**	10,46	1,20	7,38	**14,76**	10,91	1,35	8,51	**17,03**	11,32	1,50	9,62	**19,25**	11,66	1,65
15	11,30	**13,01**	8,89	1,46	7,64	**15,28**	9,23	1,66	8,80	**17,59**	9,52	1,85	10,16	**20,33**	9,80	2,07
5	6,70	**13,40**	7,34	1,83	7,84	**15,68**	7,57	2,07	9,11	**18,23**	7,84	2,33	-	-	-	-

N. of fans	3 x Ø 500 mm	**MEPS** [c]	1,87
Weight	650 kg	**Annual Energy Consumption**	103011 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 [°C]	Evaporation Temperature [°C] -40 Capacity [kW] min	-40 Capacity [kW] max	-40 Pe kW	-40 COP	-35 Capacity [kW] min	-35 Capacity [kW] max	-35 Pe kW	-35 COP	-30 Capacity [kW] min	-30 Capacity [kW] max	-30 Pe kW	-30 COP	-25 Capacity [kW] min	-25 Capacity [kW] max	-25 Pe kW	-25 COP
40	-	-	-	-	-	-	-	-	9,79	**19,57**	16,82	1,16	11,15	**22,31**	17,64	1,26
38	-	-	-	-	8,50	**17,00**	15,36	1,11	9,88	**19,75**	16,28	1,21	11,26	**22,51**	17,06	1,32
32	7,39	**14,78**	13,39	1,10	8,66	**17,33**	14,08	1,23	10,07	**20,14**	14,78	1,36	11,60	**23,21**	15,52	1,50
25	7,55	**15,10**	12,08	1,25	8,84	**17,68**	12,68	1,39	10,37	**20,74**	13,33	1,56	11,81	**23,62**	13,91	1,70
15	7,81	**15,61**	10,44	1,50	9,21	**18,42**	10,94	1,68	10,79	**21,58**	11,45	1,88	12,39	**24,78**	11,88	2,09
5	8,10	**16,20**	8,75	1,85	9,52	**19,04**	9,12	2,09	11,12	**22,24**	9,54	2,33	-	-	-	-

N. of fans	3 x Ø 500 mm	**MEPS** [c]	1,89
Weight	655 kg	**Annual Energy Consumption**	125074 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 [°C]	Evaporation Temperature [°C] -40 Capacity [kW] min	-40 Capacity [kW] max	-40 Pe kW	-40 COP	-35 Capacity [kW] min	-35 Capacity [kW] max	-35 Pe kW	-35 COP	-30 Capacity [kW] min	-30 Capacity [kW] max	-30 Pe kW	-30 COP	-25 Capacity [kW] min	-25 Capacity [kW] max	-25 Pe kW	-25 COP
40	-	-	-	-	-	-	-	-	12,38	**24,77**	21,89	1,13	14,05	**28,10**	22,81	1,23
38	-	-	-	-	10,92	**21,84**	20,24	1,08	12,64	**25,27**	21,18	1,19	14,35	**28,69**	22,06	1,30
32	9,48	**18,96**	17,41	1,09	11,09	**22,18**	18,22	1,22	12,85	**25,69**	19,02	1,35	14,58	**29,16**	19,76	1,48
25	9,74	**19,49**	15,49	1,26	11,40	**22,80**	16,31	1,40	13,04	**26,09**	16,94	1,54	14,97	**29,94**	17,58	1,70
15	10,03	**20,05**	13,42	1,49	11,81	**23,62**	13,97	1,69	13,64	**27,28**	14,46	1,89	15,64	**31,27**	14,89	2,10
5	10,33	**20,65**	11,17	1,85	12,13	**24,25**	11,56	2,10	14,14	**28,27**	11,99	2,36	-	-	-	-

N. of fans	3 x Ø 500 mm	**MEPS** [c]	1,90
Weight	660 kg	**Annual Energy Consumption**	159585 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

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

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

A BEIJER REF Company

Technical data Cubo$_2$ Plus [a]

MEDIUM TEMPERATURE - DORIN

Variable Speed Drive

UMT 036 MTDX Dorin CD 036-2,4H

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	max	Pe kW	COP	-10 Capacity [kW] min	max	Pe kW	COP	-5 Capacity [kW] min	max	Pe kW	COP	0 Capacity [kW] min	max	Pe kW	COP	5 Capacity [kW] min	max	Pe kW	COP
40	1,96	**3,93**	4,39	0,89	2,46	**4,92**	4,60	1,07	3,03	**6,05**	4,77	1,27	3,65	**7,30**	4,90	1,49	4,33	**8,65**	4,99	1,74
38	2,07	**4,14**	4,32	0,96	2,59	**5,17**	4,51	1,15	3,18	**6,35**	4,66	1,36	3,83	**7,65**	4,77	1,60	4,53	**9,05**	4,83	1,88
32	2,44	**4,88**	4,08	1,20	3,03	**6,06**	4,20	1,44	3,69	**7,39**	4,27	1,73	4,43	**8,85**	4,30	2,06	5,22	**10,44**	4,28	2,44
25	2,90	**5,80**	4,04	1,44	3,60	**7,20**	3,98	1,81	4,39	**8,77**	4,21	2,08	5,26	**10,52**	4,23	2,49	6,21	**12,41**	4,19	2,96
15	3,65	**7,29**	3,59	2,03	4,41	**8,81**	3,20	2,75	5,40	**10,80**	3,57	3,03	6,43	**12,86**	3,47	3,70	7,54	**15,08**	3,32	4,54
5	4,46	**8,93**	3,00	2,97	5,41	**10,83**	2,63	4,12	6,48	**12,96**	2,78	4,67	7,66	**15,32**	2,58	5,95	8,93	**17,87**	2,31	7,75

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2,56
Weight	460 kg	**Annual Energy Consumption**	19150 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. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	max	Pe kW	COP	-10 Capacity [kW] min	max	Pe kW	COP	-5 Capacity [kW] min	max	Pe kW	COP	0 Capacity [kW] min	max	Pe kW	COP	5 Capacity [kW] min	max	Pe kW	COP
40	4,10	**8,20**	7,71	1,06	5,01	**10,02**	8,04	1,25	5,99	**11,97**	8,28	1,45	6,98	**13,97**	8,45	1,65	7,96	**15,92**	8,52	1,87
38	4,27	**8,55**	7,53	1,14	5,20	**10,40**	7,81	1,33	6,18	**12,36**	8,02	1,54	7,17	**14,33**	8,15	1,76	8,11	**16,22**	8,18	1,98
32	4,81	**9,61**	6,91	1,39	5,68	**11,36**	7,08	1,60	6,51	**13,02**	7,17	1,82	7,25	**14,49**	7,16	2,02	7,89	**15,77**	7,05	2,24
25	5,88	**11,77**	6,82	1,73	7,14	**14,28**	6,97	2,05	8,49	**16,98**	7,04	2,41	9,85	**19,70**	7,01	2,81	11,13	**22,25**	6,88	3,23
15	7,12	**14,23**	5,86	2,43	8,41	**16,83**	5,85	2,88	9,57	**19,15**	5,74	3,34	10,43	**20,86**	5,53	3,77	11,50	**22,99**	5,22	4,41
5	7,98	**15,96**	4,71	3,39	9,17	**18,33**	4,53	4,05	10,86	**21,73**	4,25	5,11	12,72	**25,44**	3,86	6,58	14,72	**29,43**	3,37	8,74

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2,67
Weight	470 kg	**Annual Energy Consumption**	26174 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. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	max	Pe kW	COP	-10 Capacity [kW] min	max	Pe kW	COP	-5 Capacity [kW] min	max	Pe kW	COP	0 Capacity [kW] min	max	Pe kW	COP	5 Capacity [kW] min	max	Pe kW	COP
40	5,66	**11,32**	10,33	1,10	6,93	**13,86**	10,78	1,29	8,30	**16,60**	11,13	1,49	9,69	**19,38**	11,37	1,70	11,03	**22,05**	11,50	1,92
38	5,91	**11,82**	10,08	1,17	7,21	**14,42**	10,48	1,38	8,58	**17,16**	10,78	1,59	9,94	**19,88**	10,97	1,81	11,21	**22,43**	11,04	2,03
32	6,69	**13,37**	9,24	1,45	7,90	**15,80**	9,48	1,67	9,00	**18,00**	9,61	1,87	9,95	**19,90**	9,63	2,07	10,78	**21,56**	9,52	2,27
25	8,10	**16,21**	9,11	1,78	9,86	**19,72**	9,33	2,11	11,73	**23,47**	9,43	2,49	13,58	**27,16**	9,41	2,89	15,20	**30,40**	9,27	3,28
15	9,85	**19,71**	7,80	2,53	11,71	**23,42**	7,81	3,00	13,28	**26,57**	7,70	3,45	14,36	**28,72**	7,47	3,84	15,75	**31,49**	7,12	4,42
5	11,74	**23,49**	6,27	3,75	12,55	**25,10**	6,08	4,13	14,86	**29,72**	5,79	5,13	17,38	**34,75**	5,38	6,46	20,08	**40,15**	4,88	8,24

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2,75
Weight	645 kg	**Annual Energy Consumption**	35268 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	26,3 A / 13,8 kW

UMT 150 MTDX Dorin CD4 120-9.2H

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	max	Pe kW	COP	-10 Capacity [kW] min	max	Pe kW	COP	-5 Capacity [kW] min	max	Pe kW	COP	0 Capacity [kW] min	max	Pe kW	COP	5 Capacity [kW] min	max	Pe kW	COP
40	8,09	**16,18**	14,79	1,09	9,95	**19,90**	15,46	1,29	12,01	**24,02**	16,00	1,50	14,21	**28,41**	16,40	1,73	16,45	**32,91**	16,66	1,98
38	8,46	**16,91**	14,43	1,17	10,38	**20,76**	15,03	1,38	12,50	**24,99**	15,50	1,61	14,73	**29,46**	15,83	1,86	16,98	**33,95**	16,00	2,12
32	9,72	**19,45**	13,24	1,47	13,61	**27,22**	16,92	1,61	15,10	**30,21**	17,08	1,77	14,13	**28,26**	13,98	2,02	17,77	**35,54**	13,94	2,55
25	11,56	**23,13**	13,06	1,77	14,10	**28,21**	13,40	2,10	16,92	**33,85**	13,60	2,49	19,95	**39,91**	13,65	2,92	23,05	**46,11**	13,56	3,40
15	14,10	**28,20**	11,24	2,51	17,03	**34,05**	11,30	3,01	20,22	**40,45**	11,23	3,60	23,48	**46,96**	11,05	4,25	26,44	**52,87**	10,75	4,92
5	16,75	**33,51**	9,15	3,66	19,94	**39,88**	9,03	4,42	23,05	**46,10**	8,81	5,23	25,73	**51,47**	8,51	6,05	28,31	**56,61**	8,13	6,97

N. of fans	3 x Ø 500 mm	**MEPS** [c]	2,83
Weight	560 kg	**Annual Energy Consumption**	51217 kWh/year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	33,4 A / 18,6 kW

UMT 190 MTDX Dorin CD 2000H

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	max	Pe kW	COP	-10 Capacity [kW] min	max	Pe kW	COP	-5 Capacity [kW] min	max	Pe kW	COP	0 Capacity [kW] min	max	Pe kW	COP	5 Capacity [kW] min	max	Pe kW	COP
40	10,64	**21,29**	18,81	1,13	12,86	**25,72**	19,50	1,32	15,10	**30,21**	20,01	1,51	17,25	**28,75**	16,93	1,70	18,88	**31,47**	17,16	1,83
38	11,05	**22,10**	18,27	1,21	13,25	**26,50**	18,88	1,40	15,42	**30,84**	19,31	1,60	17,44	**29,07**	16,24	1,79	18,86	**31,44**	16,38	1,92
32	12,92	**25,84**	17,29	1,49	15,41	**30,81**	17,76	1,74	17,76	**35,52**	18,03	1,97	19,83	**33,05**	15,08	2,19	21,58	**35,97**	14,95	2,41
25	15,23	**30,45**	16,31	1,87	18,22	**36,45**	16,62	2,19	21,08	**42,16**	16,74	2,52	22,78	**37,97**	13,64	2,78	24,42	**40,71**	13,48	3,02
15	17,95	**35,91**	13,84	2,59	20,14	**40,29**	13,81	2,92	21,79	**43,58**	13,59	3,21	26,32	**43,86**	11,49	3,82	36,12	**60,20**	11,52	5,23
5	19,84	**39,67**	11,05	3,59	23,73	**47,45**	10,71	4,43	28,03	**56,07**	10,20	5,50	30,99	**51,64**	9,63	5,36	35,21	**58,68**	9,68	6,07

N. of fans	3 x Ø 500 mm	**MEPS** [c]	2,85
Weight	655 kg	**Annual Energy Consumption**	66470 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	42,4 A / 24 kW

NOTES

[a] Inverter modulation from 30 to 60 Hz

[b] Based on free field area with semi-spherical sound emission in 10m 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**

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	-15 Capacity [kW] max	-15 Pe kW	-15 COP	-10 Capacity [kW] min	-10 Capacity [kW] max	-10 Pe kW	-10 COP	-5 Capacity [kW] min	-5 Capacity [kW] max	-5 Pe kW	-5 COP	0 Capacity [kW] min	0 Capacity [kW] max	0 Pe kW	0 COP	5 Capacity [kW] min	5 Capacity [kW] max	5 Pe kW	5 COP
40	2,85	**5,70**	5,23	1,09	3,48	**6,95**	5,93	1,17	4,19	**8,38**	6,13	1,37	4,98	**9,97**	6,29	1,58	5,91	**11,82**	6,39	1,85
38	2,98	**5,97**	5,09	1,17	3,65	**7,29**	5,77	1,26	4,40	**8,81**	5,96	1,48	5,24	**10,48**	6,09	1,72	6,20	**12,40**	6,15	2,02
32	3,46	**6,92**	4,64	1,49	4,24	**8,48**	5,26	1,61	5,11	**10,23**	5,37	1,91	6,03	**12,05**	5,40	2,23	6,94	**13,87**	5,36	2,59
25	4,09	**8,18**	4,58	1,79	5,04	**10,08**	5,19	1,94	6,15	**12,31**	5,28	2,33	7,45	**14,90**	5,30	2,81	8,87	**17,75**	5,24	3,39
15	4,97	**9,94**	3,57	2,78	6,05	**12,11**	4,03	3,00	7,19	**14,38**	4,02	3,58	8,45	**16,90**	3,96	4,27	9,80	**19,60**	3,81	5,14
5	5,93	**11,86**	2,97	3,99	7,21	**14,42**	3,34	4,32	8,55	**17,11**	3,24	5,28	10,09	**20,17**	3,10	6,51	11,69	**23,37**	2,86	8,17

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2,75
Weight	460 kg	**Annual Energy Consumption**	18927 kWh/year
Sound pressure [b]	43 dB(A)	**MRA/Pmax**	15,9 A / 7,5 kW

UMT 075 MTDX — **Bitzer 2KTE-7K**

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	-15 Capacity [kW] max	-15 Pe kW	-15 COP	-10 Capacity [kW] min	-10 Capacity [kW] max	-10 Pe kW	-10 COP	-5 Capacity [kW] min	-5 Capacity [kW] max	-5 Pe kW	-5 COP	0 Capacity [kW] min	0 Capacity [kW] max	0 Pe kW	0 COP	5 Capacity [kW] min	5 Capacity [kW] max	5 Pe kW	5 COP
40	4,11	**8,22**	7,88	1,04	5,05	**10,09**	8,24	1,23	6,13	**12,26**	8,54	1,44	7,35	**14,69**	8,77	1,68	8,65	**17,30**	8,91	1,94
38	4,31	**8,62**	7,68	1,12	5,29	**10,58**	8,01	1,32	6,42	**12,83**	8,28	1,55	7,67	**15,33**	8,48	1,81	8,99	**17,97**	8,57	2,10
32	5,00	**10,00**	7,04	1,42	6,09	**12,19**	7,27	1,68	7,25	**14,49**	7,42	1,95	8,36	**16,73**	7,49	2,23	9,37	**18,73**	7,43	2,52
25	5,96	**11,92**	6,94	1,72	7,33	**14,65**	7,16	2,05	8,89	**17,78**	7,29	2,44	10,64	**21,28**	7,33	2,90	12,50	**25,00**	7,25	3,45
15	7,11	**14,21**	5,58	2,55	8,48	**16,96**	5,67	2,99	9,99	**19,98**	5,70	3,51	11,64	**23,28**	5,64	4,12	13,43	**26,86**	5,50	4,88
5	8,51	**17,02**	4,74	3,59	10,09	**20,18**	4,73	4,27	11,83	**23,66**	4,64	5,10	13,73	**27,47**	4,48	6,13	15,80	**31,60**	4,24	7,46

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2,78
Weight	470 kg	**Annual Energy Consumption**	26966 kWh/year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	20,5 A / 10,4 kW

UMT 120 MTDX — **Bitzer 4MTE-10K**

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	-15 Capacity [kW] max	-15 Pe kW	-15 COP	-10 Capacity [kW] min	-10 Capacity [kW] max	-10 Pe kW	-10 COP	-5 Capacity [kW] min	-5 Capacity [kW] max	-5 Pe kW	-5 COP	0 Capacity [kW] min	0 Capacity [kW] max	0 Pe kW	0 COP	5 Capacity [kW] min	5 Capacity [kW] max	5 Pe kW	5 COP
40	5,39	**10,79**	10,33	1,04	6,70	**13,40**	11,02	1,22	8,13	**16,26**	11,50	1,41	9,64	**19,29**	11,78	1,64	11,18	**22,37**	11,87	1,88
38	5,70	**11,39**	10,20	1,12	7,04	**14,08**	10,78	1,31	8,48	**16,95**	11,16	1,52	9,97	**19,94**	11,34	1,76	11,43	**22,87**	11,34	2,02
32	6,61	**13,22**	9,53	1,39	7,88	**15,76**	9,81	1,61	9,05	**18,09**	9,92	1,82	10,10	**20,19**	9,84	2,05	11,06	**22,13**	9,63	2,30
25	8,02	**16,04**	9,41	1,70	9,86	**19,71**	9,65	2,04	11,86	**23,72**	9,72	2,44	13,89	**27,79**	9,62	2,89	15,72	**31,45**	9,36	3,36
15	9,26	**18,52**	7,65	2,42	11,02	**22,04**	7,73	2,85	12,95	**25,90**	7,73	3,35	15,05	**30,10**	7,64	3,94	17,33	**34,65**	7,47	4,64
5	11,07	**22,14**	6,44	3,44	13,00	**26,00**	6,28	4,14	15,37	**30,74**	6,37	4,82	17,82	**35,64**	6,24	5,71	20,47	**40,95**	6,05	6,77

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2,68
Weight	570 kg	**Annual Energy Consumption**	36104 kWh/year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	26,3 A / 13,8 kW

UMT 150 MTDX — **Bitzer 4KTE-12K**

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	-15 Capacity [kW] max	-15 Pe kW	-15 COP	-10 Capacity [kW] min	-10 Capacity [kW] max	-10 Pe kW	-10 COP	-5 Capacity [kW] min	-5 Capacity [kW] max	-5 Pe kW	-5 COP	0 Capacity [kW] min	0 Capacity [kW] max	0 Pe kW	0 COP	5 Capacity [kW] min	5 Capacity [kW] max	5 Pe kW	5 COP
40	8,18	**16,35**	15,20	1,08	10,13	**20,27**	15,80	1,28	12,24	**24,48**	16,32	1,50	14,44	**28,88**	16,72	1,73	16,64	**33,29**	16,96	1,96
38	8,61	**17,22**	14,78	1,17	10,62	**21,23**	15,33	1,39	12,73	**25,47**	15,79	1,61	14,89	**29,78**	16,11	1,85	16,99	**33,98**	16,26	2,09
32	9,80	**19,59**	13,45	1,46	11,66	**23,31**	13,82	1,69	13,35	**26,69**	14,06	1,90	14,86	**29,72**	14,11	2,11	16,25	**32,51**	13,95	2,33
25	11,96	**23,92**	13,25	1,80	14,73	**29,47**	13,60	2,17	17,70	**35,41**	13,79	2,57	20,66	**41,33**	13,80	2,99	23,29	**46,58**	13,58	3,43
15	13,83	**27,66**	10,80	2,56	16,41	**32,82**	11,01	2,98	19,26	**38,51**	11,10	3,47	22,38	**44,76**	11,06	4,05	25,79	**51,58**	10,85	4,76
5	16,93	**33,87**	9,19	3,69	19,80	**39,61**	9,22	4,30	23,00	**45,99**	9,13	5,04	26,55	**53,09**	8,90	5,97	30,44	**60,87**	8,53	7,14

N. of fans	3 x Ø 500 mm	**MEPS** [c]	2,74
Weight	645 kg	**Annual Energy Consumption**	52347 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	33,4 A / 18,6 kW

UMT 190 MTDX — **Bitzer 4HTE-20K**

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	-15 Capacity [kW] max	-15 Pe kW	-15 COP	-10 Capacity [kW] min	-10 Capacity [kW] max	-10 Pe kW	-10 COP	-5 Capacity [kW] min	-5 Capacity [kW] max	-5 Pe kW	-5 COP	0 Capacity [kW] min	0 Capacity [kW] max	0 Pe kW	0 COP	5 Capacity [kW] min	5 Capacity [kW] max	5 Pe kW	5 COP
40	10,63	**21,27**	18,66	1,14	12,80	**25,60**	19,60	1,31	15,11	**27,67**	18,61	1,49	17,40	**29,00**	17,31	1,67	19,60	**32,67**	17,53	1,86
38	11,12	**22,25**	18,20	1,22	13,26	**26,53**	19,01	1,40	15,49	**28,38**	17,96	1,58	17,65	**29,41**	16,62	1,77	19,68	**32,80**	16,75	1,96
32	13,13	**26,25**	17,29	1,52	13,73	**27,46**	17,01	1,61	17,29	**31,67**	16,42	1,93	20,14	**33,56**	15,33	2,19	23,11	**38,51**	15,64	2,46
25	15,54	**31,08**	16,32	1,90	18,47	**36,93**	16,70	2,21	21,40	**39,19**	15,46	2,54	23,92	**39,87**	14,02	2,84	25,97	**43,29**	13,85	3,13
15	17,08	**34,16**	13,50	2,53	20,02	**40,04**	13,75	2,91	23,31	**42,70**	12,75	3,35	26,87	**44,78**	11,67	3,84	30,70	**51,17**	11,68	4,38
5	20,22	**40,44**	11,58	3,49	23,66	**47,33**	11,65	4,06	27,51	**50,39**	10,72	4,70	31,63	**52,72**	9,76	5,40	36,05	**60,08**	9,74	6,17

N. of fans	3 x Ø 500 mm	**MEPS** [c]	2,71
Weight	655 kg	**Annual Energy Consumption**	62283 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	42,4 A / 24 kW

NOTES

[a] Inverter modulation from 30 to 60 Hz

[b] Based on free field area with semi-spherical sound emission in 10m 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

Stepless capacity regulation

UMT 075 VS MTDX — **Bitzer 4PTE-7K**

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	-15 Capacity [kW] max	-15 Pe kW	-15 COP	-10 Capacity [kW] min	-10 Capacity [kW] max	-10 Pe kW	-10 COP	-5 Capacity [kW] min	-5 Capacity [kW] max	-5 Pe kW	-5 COP	0 Capacity [kW] min	0 Capacity [kW] max	0 Pe kW	0 COP	5 Capacity [kW] min	5 Capacity [kW] max	5 Pe kW	5 COP
40	0,69	**6,85**	6,26	1,10	0,84	**8,42**	6,55	1,29	1,02	**10,25**	6,81	1,51	1,23	**12,35**	7,00	1,76	1,47	**14,71**	7,13	2,06
38	0,72	**7,18**	6,09	1,18	0,88	**8,84**	6,36	1,39	1,08	**10,75**	6,59	1,63	1,29	**12,94**	6,76	1,92	1,54	**15,39**	6,85	2,25
32	0,84	**8,36**	5,55	1,51	1,03	**10,28**	5,74	1,79	1,24	**12,45**	5,88	2,12	1,48	**14,82**	5,94	2,50	1,72	**17,19**	5,91	2,91
25	0,99	**9,93**	5,47	1,82	1,22	**12,21**	5,65	2,16	1,48	**14,84**	5,77	2,57	1,78	**17,84**	5,81	3,07	2,12	**21,22**	5,75	3,69
15	1,22	**12,23**	4,23	2,89	1,46	**14,64**	4,28	3,42	1,73	**17,30**	4,28	4,05	2,02	**20,24**	4,21	4,81	2,34	**23,45**	4,07	5,76
5	1,46	**14,64**	3,51	4,18	1,74	**17,41**	3,47	5,02	2,05	**20,48**	3,37	6,07	2,39	**23,88**	3,21	7,44	2,76	**27,59**	2,98	9,26

N. of fans	2 x Ø 500 mm	**MEPS** [c]	3,14
Weight	470 kg	**Annual Energy Consumption**	20096 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. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	-15 Capacity [kW] max	-15 Pe kW	-15 COP	-10 Capacity [kW] min	-10 Capacity [kW] max	-10 Pe kW	-10 COP	-5 Capacity [kW] min	-5 Capacity [kW] max	-5 Pe kW	-5 COP	0 Capacity [kW] min	0 Capacity [kW] max	0 Pe kW	0 COP	5 Capacity [kW] min	5 Capacity [kW] max	5 Pe kW	5 COP
40	0,90	**8,99**	8,61	1,04	1,12	**11,17**	9,18	1,22	1,35	**13,55**	9,59	1,41	1,61	**16,07**	9,82	1,64	1,86	**18,64**	9,89	1,88
38	0,95	**9,50**	8,50	1,12	1,17	**11,73**	8,98	1,31	1,41	**14,13**	9,30	1,52	1,66	**16,61**	9,45	1,76	1,91	**19,06**	9,45	2,02
32	1,10	**11,02**	7,94	1,39	1,31	**13,13**	8,18	1,61	1,51	**15,08**	8,26	1,82	1,68	**16,83**	8,20	2,05	1,84	**18,44**	8,02	2,30
25	1,34	**13,37**	7,84	1,70	1,64	**16,43**	8,04	2,04	1,98	**19,77**	8,10	2,44	2,32	**23,16**	8,01	2,89	2,62	**26,21**	7,80	3,36
15	1,54	**15,43**	6,37	2,42	1,84	**18,37**	6,44	2,85	2,16	**21,58**	6,44	3,35	2,51	**25,09**	6,37	3,94	2,89	**28,88**	6,23	4,64
5	1,85	**18,45**	5,37	3,44	2,17	**21,66**	5,23	4,14	2,56	**25,61**	5,31	4,82	2,97	**29,70**	5,20	5,71	3,41	**34,12**	5,04	6,77

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2,68
Weight	570 kg	**Annual Energy Consumption**	30081 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. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	-15 Capacity [kW] max	-15 Pe kW	-15 COP	-10 Capacity [kW] min	-10 Capacity [kW] max	-10 Pe kW	-10 COP	-5 Capacity [kW] min	-5 Capacity [kW] max	-5 Pe kW	-5 COP	0 Capacity [kW] min	0 Capacity [kW] max	0 Pe kW	0 COP	5 Capacity [kW] min	5 Capacity [kW] max	5 Pe kW	5 COP
40	1,36	**13,63**	12,67	1,08	1,69	**16,89**	13,17	1,28	2,04	**20,40**	13,60	1,50	2,89	**28,88**	13,94	2,07	3,33	**33,29**	14,14	2,35
38	1,43	**14,35**	12,31	1,17	1,77	**17,69**	12,77	1,39	2,12	**21,22**	13,16	1,61	2,98	**29,78**	13,43	2,22	3,40	**33,98**	13,55	2,51
32	1,63	**16,33**	11,21	1,46	1,94	**19,43**	11,52	1,69	2,22	**22,25**	11,72	1,90	2,97	**29,72**	11,76	2,53	3,25	**32,51**	11,63	2,80
25	1,99	**19,93**	11,05	1,80	2,46	**24,56**	11,33	2,17	2,95	**29,51**	11,49	2,57	4,13	**41,33**	11,50	3,59	4,66	**46,58**	11,32	4,11
15	2,31	**23,05**	9,00	2,56	2,74	**27,35**	9,18	2,98	3,21	**32,09**	9,25	3,47	4,48	**44,76**	9,21	4,86	5,16	**51,58**	9,04	5,71
5	2,82	**28,22**	7,66	3,69	3,30	**33,01**	7,68	4,30	3,83	**38,33**	7,61	5,04	5,31	**53,09**	7,41	7,16	6,09	**60,87**	7,11	8,56

N. of fans	3 x Ø 500 mm	**MEPS** [c]	2,80
Weight	645 kg	**Annual Energy Consumption**	42608 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	33,4 A / 18,6 kW

UMT 190 VS MTDX — **Bitzer 4HTE-20K**

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	-15 Capacity [kW] max	-15 Pe kW	-15 COP	-10 Capacity [kW] min	-10 Capacity [kW] max	-10 Pe kW	-10 COP	-5 Capacity [kW] min	-5 Capacity [kW] max	-5 Pe kW	-5 COP	0 Capacity [kW] min	0 Capacity [kW] max	0 Pe kW	0 COP	5 Capacity [kW] min	5 Capacity [kW] max	5 Pe kW	5 COP
40	1,77	**17,72**	15,55	1,14	2,13	**21,33**	16,33	1,31	2,52	**25,16**	16,92	1,49	2,90	**29,00**	17,31	1,67	3,27	**32,67**	17,53	1,86
38	1,85	**18,54**	15,17	1,22	2,21	**22,11**	15,84	1,40	2,58	**25,80**	16,33	1,58	2,94	**29,41**	16,62	1,77	3,28	**32,80**	16,75	1,96
32	2,19	**21,88**	14,41	1,52	2,29	**22,88**	14,17	1,61	2,88	**28,79**	14,93	1,93	3,36	**33,56**	15,33	2,19	3,85	**38,51**	15,64	2,46
25	2,59	**25,90**	13,60	1,90	3,08	**30,78**	13,91	2,21	3,56	**35,63**	14,05	2,54	3,99	**39,87**	14,02	2,84	4,33	**43,29**	13,85	3,13
15	2,85	**28,47**	11,25	2,53	3,34	**33,36**	11,46	2,91	3,88	**38,82**	11,59	3,35	4,48	**44,78**	11,67	3,84	5,12	**51,17**	11,68	4,38
5	3,37	**33,70**	9,65	3,49	3,94	**39,44**	9,71	4,06	4,58	**45,81**	9,74	4,70	5,27	**52,72**	9,76	5,40	6,01	**60,08**	9,74	6,17

N. of fans	3 x Ø 500 mm	**MEPS** [c]	2,71
Weight	655 kg	**Annual Energy Consumption**	51896 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	42,4 A / 24 kW

NOTES

[a] Varistep modulation from 10 to 100 % of the capacity @ 50 Hz

[b] Based on free field area with semi-spherical sound emission in 10m 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 - COPELAND

Stepless capacity regulation

UMTS 075 MTDX — Copeland ZTW16AG-4X9

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	max	Pe kW	COP	-10 Capacity [kW] min	max	Pe kW	COP	-5 Capacity [kW] min	max	Pe kW	COP	0 Capacity [kW] min	max	Pe kW	COP	5 Capacity [kW] min	max	Pe kW	COP
40	3,80	**10,75**	10,85	0,99	4,15	**11,51**	10,70	1,08	4,33	**11,98**	10,25	1,17	4,55	**12,68**	9,69	1,31	4,86	**13,56**	8,95	1,52
38	3,70	**11,58**	11,00	1,05	4,22	**13,04**	11,00	1,19	4,47	**13,75**	10,55	1,30	4,69	**14,47**	9,92	1,46	5,00	**15,45**	9,13	1,69
32	3,14	**12,62**	9,62	1,31	3,61	**14,45**	9,55	1,51	4,07	**16,30**	9,23	1,77	4,39	**17,43**	8,55	2,04	4,72	**18,82**	7,72	2,44
25	2,85	**13,73**	8,10	1,70	3,29	**15,69**	7,93	1,98	3,72	**17,80**	7,54	2,36	4,19	**19,98**	6,95	2,87	4,67	**22,03**	6,14	3,59
15	2,31	**14,76**	6,87	2,15	2,66	**16,94**	6,61	2,56	3,04	**19,31**	6,16	3,13	3,43	**21,82**	5,52	3,95	3,85	**24,54**	4,71	5,21
5	2,38	**15,99**	5,40	2,96	2,75	**18,41**	5,04	3,65	3,13	**21,01**	4,50	4,67	3,84	**25,09**	3,92	6,40	3,79	**25,47**	4,06	6,27

N. of fans	2 x Ø 500 mm	**MEPS** [c]	2,97 (according to Ecodesign Directive EN 2009/125/EC)
Weight	470 kg	**Annual Energy Consumption**	29000 kWh/Year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	20,5 A / 10,4 kW

UMTS 120 MTDX — Copeland ZTW21AG-4X9

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	max	Pe kW	COP	-10 Capacity [kW] min	max	Pe kW	COP	-5 Capacity [kW] min	max	Pe kW	COP	0 Capacity [kW] min	max	Pe kW	COP	5 Capacity [kW] min	max	Pe kW	COP
40	5,18	**14,56**	13,65	1,07	5,75	**15,46**	13,35	1,16	6,01	**15,98**	12,90	1,24	6,25	**16,85**	12,25	1,38	7,50	**18,17**	11,55	1,57
38	5,04	**15,69**	13,85	1,13	5,79	**17,42**	13,65	1,28	6,19	**18,29**	13,20	1,39	6,45	**19,08**	12,50	1,53	6,80	**20,27**	11,70	1,73
32	4,26	**17,10**	12,05	1,42	4,89	**19,53**	11,90	1,64	5,54	**21,68**	11,55	1,88	6,00	**23,07**	10,85	2,13	6,40	**24,50**	9,99	2,45
25	3,86	**18,60**	10,15	1,83	4,43	**21,24**	9,93	2,14	5,03	**24,01**	9,51	2,52	5,66	**26,82**	8,91	3,01	6,31	**28,99**	8,06	3,60
15	3,09	**20,08**	8,61	2,33	3,59	**22,99**	8,32	2,76	4,08	**26,14**	7,86	3,33	4,61	**29,41**	7,22	4,07	8,74	**32,91**	6,42	5,13
5	3,21	**21,88**	6,76	3,24	3,69	**25,07**	6,38	3,93	6,45	**28,51**	5,84	4,88	7,02	**33,30**	5,23	6,37	6,08	**35,95**	5,77	6,23

N. of fans	2 x Ø 500 mm	**MEPS** [c]	3,23 (according to Ecodesign Directive EN 2009/125/EC)
Weight	570 kg	**Annual Energy Consumption**	37000 kWh/Year
Sound pressure [b]	44 dB(A)	**MRA/Pmax**	26,3 A / 13,8 kW

UMTS 150 MTDX — Copeland ZTW28AG-4X9

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	max	Pe kW	COP	-10 Capacity [kW] min	max	Pe kW	COP	-5 Capacity [kW] min	max	Pe kW	COP	0 Capacity [kW] min	max	Pe kW	COP	5 Capacity [kW] min	max	Pe kW	COP
40	7,25	**19,70**	17,25	1,14	8,12	**20,77**	16,90	1,23	8,46	**21,55**	16,35	1,32	8,73	**22,50**	15,65	1,44	10,62	**25,23**	15,05	1,68
38	6,93	**21,48**	17,55	1,22	7,96	**23,45**	17,20	1,36	8,67	**24,37**	16,65	1,46	9,01	**25,40**	15,95	1,59	11,56	**27,70**	15,25	1,82
32	5,81	**23,38**	15,30	1,53	6,71	**26,64**	15,05	1,77	7,58	**29,01**	14,55	1,99	8,34	**30,59**	13,85	2,21	11,65	**32,39**	13,00	2,49
25	5,25	**25,46**	12,85	1,98	6,07	**29,01**	12,55	2,31	6,87	**32,56**	12,10	2,69	7,69	**35,90**	11,45	3,14	12,29	**38,24**	10,60	3,61
15	4,22	**27,63**	10,90	2,53	4,47	**31,59**	10,60	2,98	5,56	**35,64**	10,10	3,53	14,66	**39,87**	9,46	4,21	12,33	**45,76**	8,76	5,22
5	4,37	**30,20**	8,55	3,53	9,72	**34,59**	8,15	4,24	10,65	**41,84**	7,77	5,38	11,48	**44,39**	7,22	6,15	11,32	**46,93**	7,93	5,92

N. of fans	3 x Ø 500 mm	**MEPS** [c]	3,5 (according to Ecodesign Directive EN 2009/125/EC)
Weight	645 kg	**Annual Energy Consumption**	43000 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	33,4 A / 18,6 kW

UMT 190 VS MTDX — Copeland ZTW36AG-4X9

Ambient temp. [°C]	Evaporation Temperature [°C] -15 Capacity [kW] min	max	Pe kW	COP	-10 Capacity [kW] min	max	Pe kW	COP	-5 Capacity [kW] min	max	Pe kW	COP	0 Capacity [kW] min	max	Pe kW	COP	5 Capacity [kW] min	max	Pe kW	COP
40	9,46	**25,53**	22,60	1,13	10,47	**26,92**	22,20	1,21	10,91	**28,41**	21,50	1,32	11,46	**29,50**	20,60	1,43	13,97	**33,21**	19,80	1,68
38	8,89	**27,47**	23,00	1,19	10,23	**30,02**	22,60	1,33	11,14	**31,84**	21,90	1,45	11,65	**33,21**	21,00	1,58	15,19	**36,33**	20,10	1,81
32	7,47	**29,94**	20,10	1,49	8,57	**34,17**	19,80	1,73	9,69	**37,19**	19,15	1,94	10,67	**39,18**	18,20	2,15	14,98	**42,07**	17,10	2,46
25	6,74	**32,58**	16,90	1,93	7,76	**37,07**	16,50	2,25	8,78	**41,90**	15,90	2,64	9,79	**45,79**	15,05	3,04	15,79	**48,53**	13,90	3,49
15	5,40	**35,30**	14,35	2,46	6,24	**40,27**	13,90	2,90	7,10	**45,44**	13,25	3,43	19,03	**50,60**	12,40	4,08	15,89	**57,97**	11,50	5,04
5	5,60	**38,65**	11,25	3,44	12,54	**44,18**	10,70	4,13	13,75	**53,26**	10,20	5,22	14,84	**56,53**	9,48	5,96	14,55	**59,35**	10,40	5,71

N. of fans	3 x Ø 500 mm	**MEPS** [c]	3,59 (according to Ecodesign Directive EN 2009/125/EC)
Weight	655 kg	**Annual Energy Consumption**	54000 kWh/year
Sound pressure [b]	45 dB(A)	**MRA/Pmax**	42,4 A / 24 kW

NOTES

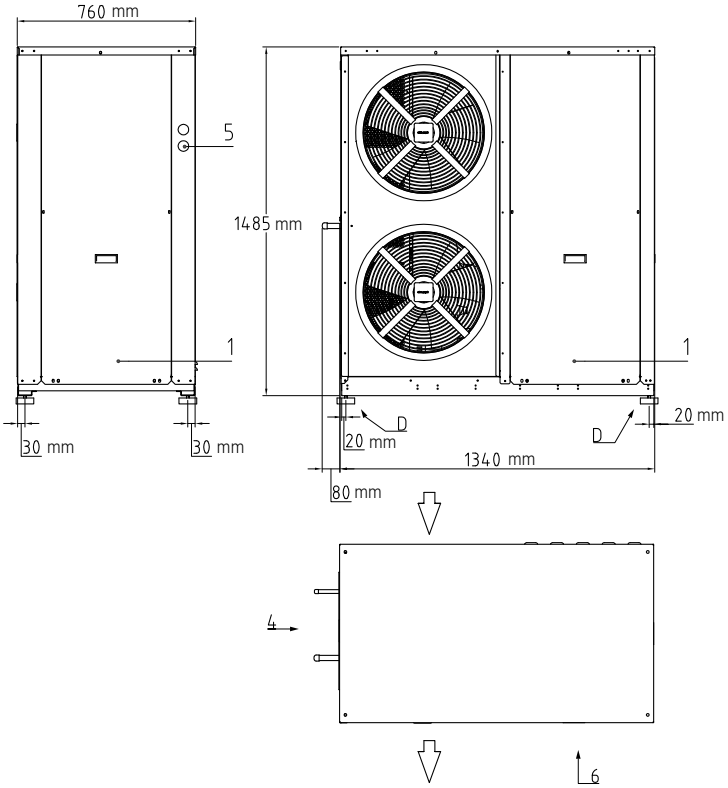
[a] Inverter modulation from 20 to 90 Hz

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

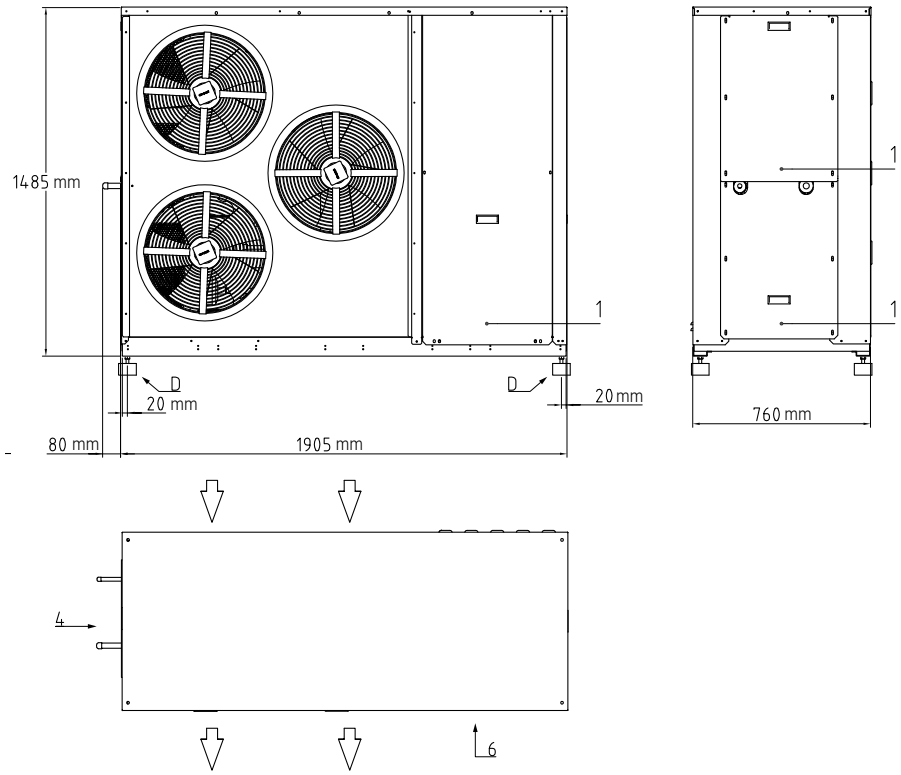
[c] Minimum Energy Performance Standards, calculated according to Ecodesign Directive EN 2009/125/EC

Dimensional Data

2 fans

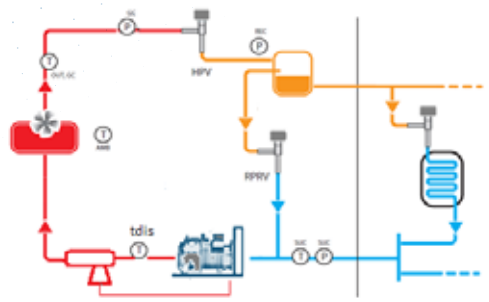


3 fans



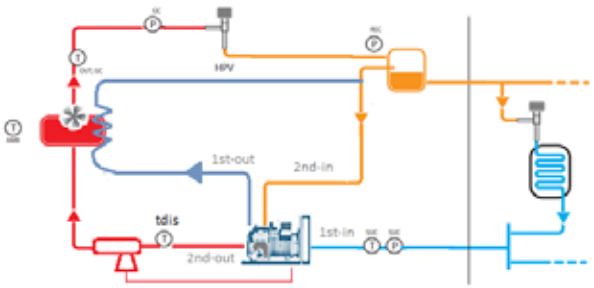
Unit Configuration

MODEL UMT MTDX



- One semihermetic screw or scroll compressor
- Oil management with: oil separator, oil reservoir, traxoil
- Receiver Pressure: Fixed SetPoint, adjustable by parameter (Factory Setting = 40 bar). Receiver pressure is managed by the flash valve.

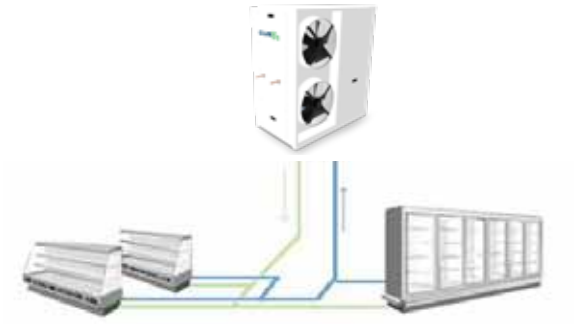
MODEL UMT BTDX



- One semihermetic compressor double stage
- Air cooled intercooler integrated in the gas cooler coil
- Oil management with: oil separator, oil reservoir, traxoil
- Receiver Pressure: variable pressure according to the operating conditions and to the model compressor (Open Flash Tank System)

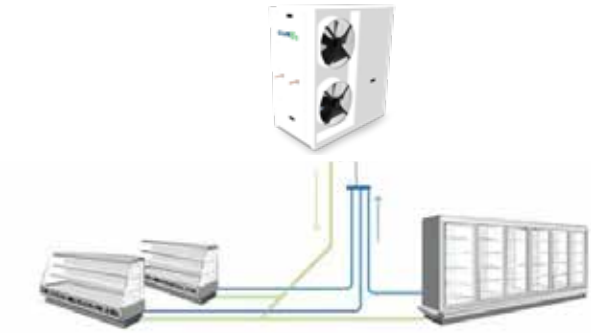
Installation Design

Multi-SPLIT



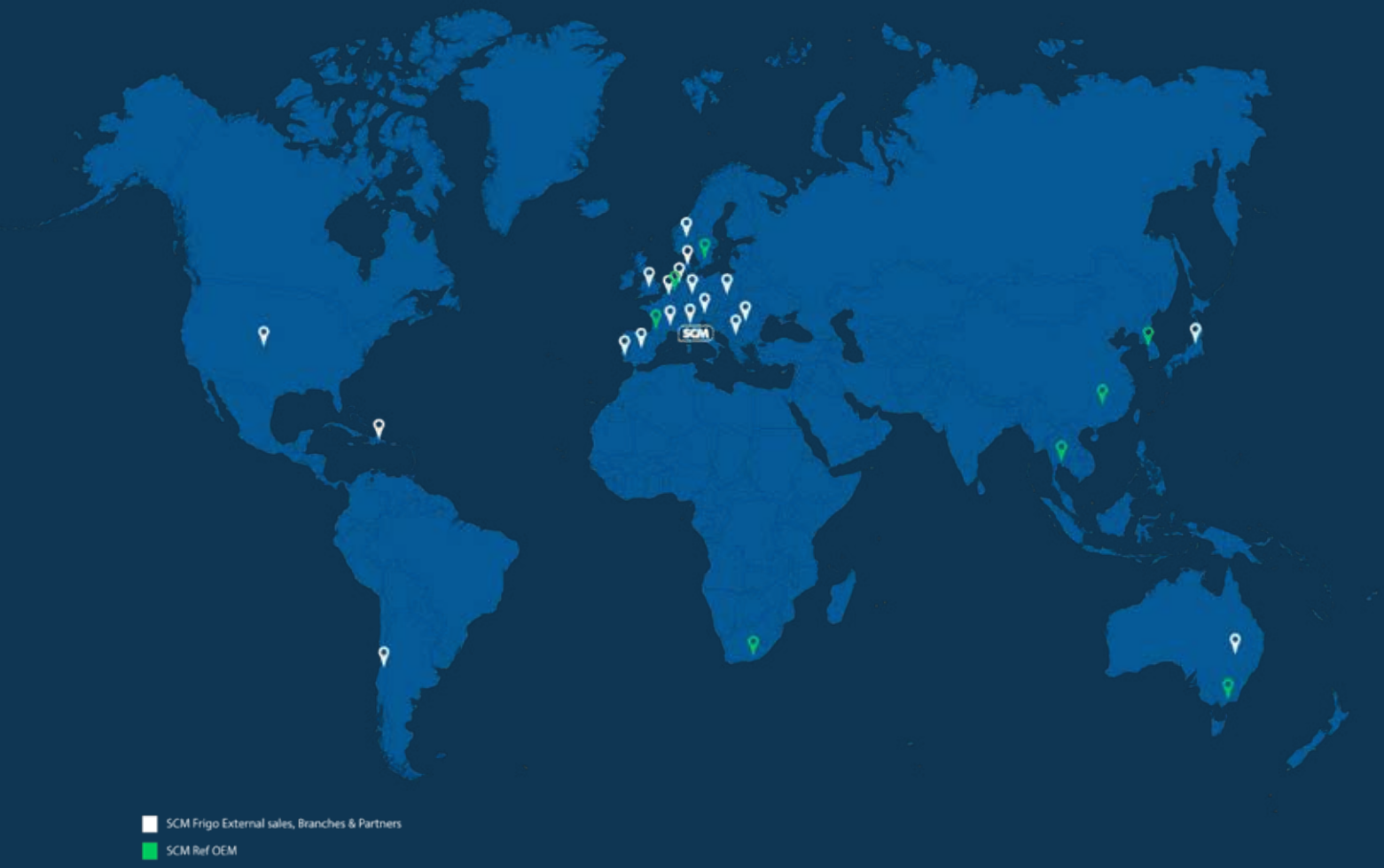
Pipe Connections (Multi-Split or Branch)
The connection between the Condensing Unit and more remote evaporators can be the same one used for Multi-Split or branch system.
The preferred one is the one is able to guarantee the highest gas velocity in the suction line (for a good oil return) with a low pressure drop.

Branch



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 < 1 m/s is suggested).
- Suction line must be properly sized to have a good oil return with a low pressure drop (gas velocity min 5m/s).



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