

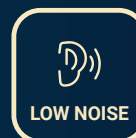
CUBO₂ PLUS 2

SCM
FRIGO

Transcritical CO₂ndensing Units



VARISTEP
CRII



BEIJER REF

We know the art of achieving
a perfect temperature.

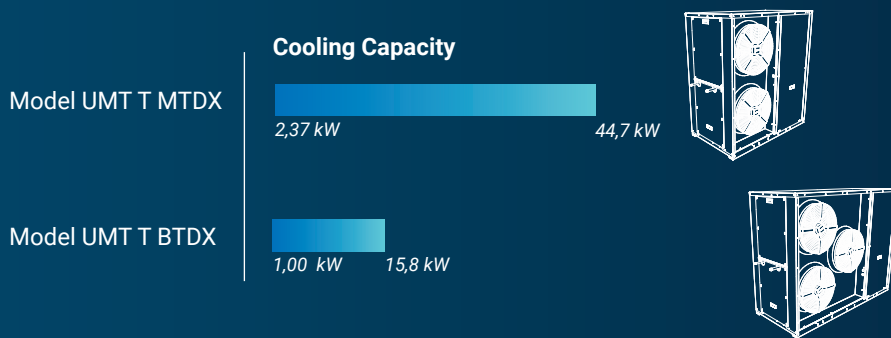
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Rev. 06/2022

CO₂ Systems for medium and low temperature applications

Transcritical condensing units DX



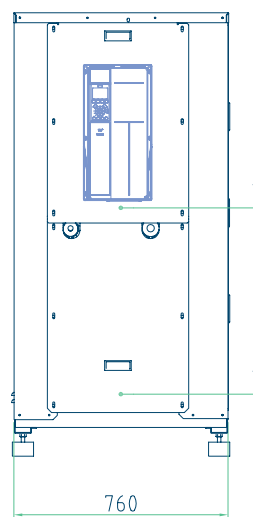
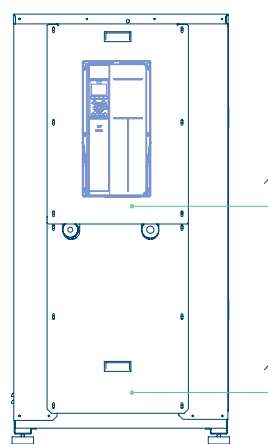
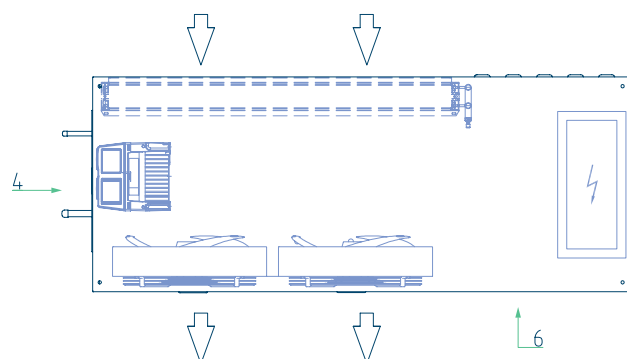
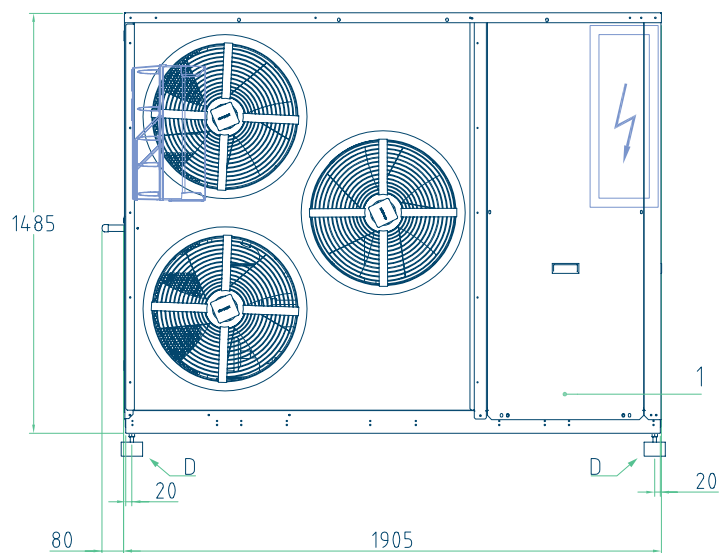
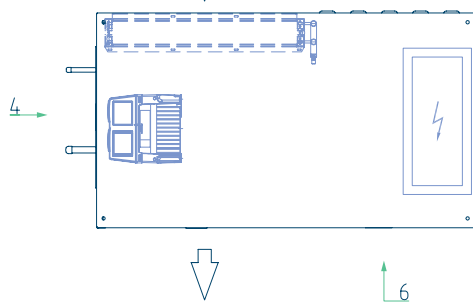
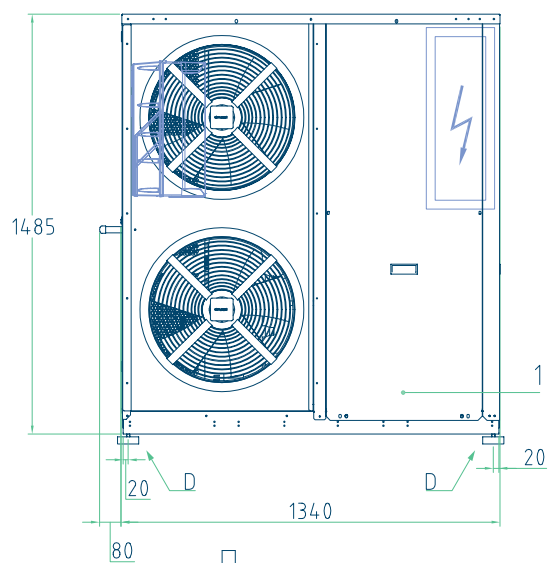
Design is compact and units are easy to install and maintain.
Units are equipped with gas cooler and electrical panel, tested and factory programmed for an easy start-up.

- ☐ **Semi Hermetic reciprocating compressor**
- ☐ **EC fans**
- ☐ **K65 connections**
- ☐ **Liquid Receiver 15 litres**
- ☐ **Design pressure:**
 - 120 bar (high pressure side)
 - 80 bar (liquid line)
 - 80 bar (suction)

OPTION ON REQUEST

- ☐ **Frequency controlled compressor on LT line**
- ☐ **Adiabatic System**
(suggested for ambient temperatures > +38°)
- ☐ **RDM Controller**
- ☐ **Danfoss Controller**
- ☐ **Liquid Receiver 37 litres**

Dimensional data of the units



Preliminary Data

MEDIUM TEMPERATURE

UMT 036 MTDX*

Dorin CD 360H

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP
	min	max		min	max		min	max		min	max		min	max	
40	2,37	3,55	1,03	2,97	4,45	1,21	3,64	5,46	1,42	4,37	6,55	1,65	5,15	7,73	1,91
38	2,54	3,82	1,31	3,18	4,78	1,31	3,90	5,86	1,55	3,97	7,01	1,80	5,51	8,27	2,10
32	2,99	4,49	1,42	3,71	5,57	1,70	4,52	6,78	2,03	5,38	8,08	2,40	6,33	9,49	2,85
20	4,15	6,23	2,31	5,08	7,62	2,81	5,91	8,87	3,32	7,27	10,91	4,25	8,50	12,74	5,31
MEPS	2,57 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	13,8A / 4,8 kW														

UMT 075 MTDX*

Dorin CD 4 75-4.7H

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP
	min	max		min	max		min	max		min	max		min	max	
40	5,11	7,67	1,12	6,29	9,43	1,31	7,54	11,30	1,52	8,78	13,18	1,74	10,39	15,59	2,02
38	5,40	8,10	1,21	6,64	9,96	1,42	7,94	11,92	1,65	9,37	14,05	1,90	10,94	16,40	2,23
32	6,20	9,30	1,54	7,57	11,35	1,84	8,96	13,44	2,15	10,79	16,19	2,51	12,31	18,47	3,04
20	8,28	12,42	2,47	9,87	14,81	2,93	13,66	20,48	3,57	13,66	20,48	4,27	15,82	23,74	5,30
MEPS	2,65		(according to Ecodesign Directive EN 2009/125/EC)												
MRA/Pmax	24.4 A / 8.7 kW														

UMT 120 MTDX

Dorin CD4 90-6.4H

T amb [°C]		Evaporation Temperature [°C]														
		-15			-10			-5			0			5		
		Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP
		min	max		min	max		min	max		min	max		min	max	
40		5,10	10,20	1,09	6,28	12,55	1,28	7,57	15,13	1,48	8,96	17,92	1,72	10,49	20,99	1,98
38		5,45	10,90	1,18	6,70	13,39	1,39	7,98	15,96	1,61	9,45	18,90	1,87	11,05	22,10	2,16
32		6,22	12,44	1,50	7,60	15,20	1,79	9,11	18,22	2,09	10,75	21,50	2,48	12,56	25,12	2,90
20		8,25	16,50	2,36	9,97	19,94	2,86	11,73	23,46	3,39	13,79	27,58	4,15	15,78	31,56	4,98
MEPS		2,71 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax		27.4 A / 13.2 kW														

UMT 150 MTDX

Dorin CD4 120-9.2H

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP
	min	max		min	max		min	max		min	max		min	max	
40	7,41	14,82	1,07	9,11	18,23	1,26	11,31	22,62	1,47	12,68	25,37	1,64	14,81	29,62	1,89
38	7,91	15,82	1,17	9,72	19,44	1,37	11,73	23,46	1,61	13,37	26,74	1,78	15,60	31,20	2,06
32	9,22	18,43	1,49	11,26	22,52	1,76	13,54	27,07	2,08	15,55	31,09	2,34	18,10	36,20	2,75
20	12,43	24,85	2,48	14,99	29,99	3,01	17,42	34,84	3,49	13,79	27,58	4,15	23,11	46,21	4,97
MEPS	3,67 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	37,2 A / 14,9 kW														

UMT 190 MTDX

Dorin CD 2000H

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]**		COP	Cooling Cap. [W]**		COP
	min	max		min	max		min	max		min	max		min	max	
40	9,29	18,59	1,05	11,43	22,86	1,25	13,80	27,60	1,47	16,08	26,80	1,67	18,53	30,88	1,90
38	9,92	19,84	1,15	12,19	24,37	1,36	14,70	29,40	1,60	17,14	28,56	1,83	19,51	32,52	2,08
32	11,31	22,62	1,47	13,97	27,94	1,76	16,77	33,54	2,09	19,40	32,34	2,38	22,02	36,70	2,64
20	15,17	30,35	2,37	18,08	36,17	2,82	21,24	42,48	3,34	21,61	36,01	3,10	25,06	41,77	3,75
MEPS	2,69 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	41,2 A / 20,9 kW														

Inverter modulation from 30 to 60 Hz except * from 40 to 60 Hz / cooling capacity min @30 Hz - max @ 60 Hz except ** @ 50 Hz

N° of fans / Dimensions & Weight / Noise

PEDII

CD360H 2x500
mm1340x760x1485
Weight 460 Kg
**Noise 43 dB(A)

CD4 120-9.2H 2x500
mm1340x760x1485
Weight 560 Kg
**Noise 44 dB(A)

CD4 90-6.4H 2x500
mm1340x760x1485
Weight 570 Kg
**Noise 45 dB(A)

CD4 75-4.7H 3x500
mm1895x760x1485
Weight 650 Kg
**Noise 45 dB(A)

CD2000H 3x500
mm1895x760x1485
Weight 655 Kg
**Noise 45 dB(A)

Preliminary Data

MEDIUM TEMPERATURE

UMT 036 MTDX

Bitzer 2MTE-5K

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP
	min	max		min	max		min	max		min	max		min	max	
40	2,55	5,10	1,09	3,14	6,29	1,28	3,79	7,58	1,49	4,52	9,04	1,69	5,38	10,75	1,99
38	2,67	5,34	1,18	3,30	6,60	1,39	3,98	7,96	1,61	4,79	9,58	1,89	5,64	11,28	2,19
32	3,11	6,22	1,54	3,87	7,74	1,81	4,64	9,29	2,13	5,52	11,04	2,48	6,55	13,09	2,99
20	4,34	8,68	2,51	5,30	10,60	3,05	6,20	12,41	3,55	7,24	14,48	4,16	8,58	17,16	5,24
MEPS	2,65 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	15,9 A / 7,5 kW														

UMT 075 MTDX

Bitzer 2KTE-7K

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP
	min	max		min	max		min	max		min	max		min	max	
40	3,74	7,48	1,09	4,58	9,16	1,28	5,54	11,09	1,47	6,62	13,25	1,73	7,88	15,76	1,99
38	3,97	7,94	1,17	4,79	9,58	1,39	5,99	11,99	1,59	6,92	13,85	1,89	8,68	17,36	2,16
32	4,60	9,19	1,53	5,56	11,11	1,81	6,76	13,52	2,13	8,01	16,02	2,51	6,55	13,09	3,01
20	6,28	12,56	2,51	7,70	15,41	3,05	9,02	18,05	3,55	7,24	14,48	4,23	12,46	24,91	5,24
MEPS	2,65 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	20,5 A / 10,4 kW														

UMT 120 MTDX

Bitzer 4MTE-10K

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP
	min	max		min	max		min	max		min	max		min	max	
40	4,91	9,82	1,06	6,16	12,32	1,23	7,38	14,76	1,43	8,93	17,86	1,65	10,42	20,84	1,95
38	5,17	10,34	1,14	6,53	13,07	1,33	7,78	15,56	1,56	9,67	19,34	1,80	11,00	22,01	2,15
32	6,14	12,28	1,46	7,58	15,17	1,75	9,04	18,07	2,10	10,87	21,73	2,48	12,70	25,40	2,99
20	8,38	16,76	2,35	10,24	20,48	2,89	12,21	24,42	3,52	14,32	28,64	4,20	16,69	33,37	5,23
MEPS	2,71 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	26,3 A / 13,8 kW														

UMT 150 MTDX

Bitzer 4KTE-12K

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP
	min	max		min	max		min	max		min	max		min	max	
40	7,80	15,60	1,15	9,36	18,72	1,33	11,46	22,92	1,52	13,44	26,88	1,77	15,93	31,86	2,03
38	8,34	16,68	1,25	9,90	19,80	1,45	12,30	24,60	1,65	14,07	28,14	1,94	17,43	34,86	2,20
32	9,37	18,73	1,62	11,50	22,99	1,80	13,68	27,36	2,20	16,05	32,10	2,61	19,02	38,04	3,04
20	12,66	25,32	2,53	15,00	30,00	3,07	18,06	36,12	3,66	21,27	42,54	4,42	24,37	48,74	5,22
MEPS	2,67 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	33,4 A / 18,6 kW														

UMT 190 MTDX

Bitzer 4HTE-20K

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]		COP	Cooling Cap. [W]**		COP	Cooling Cap. [W]**		COP
	min	max		min	max		min	max		min	max		min	max	
40	9,71	19,43	1,12	11,68	23,36	1,30	14,23	28,46	1,50	16,72	27,86	1,72	19,17	31,95	2,01
38	10,35	20,70	1,21	12,30	24,60	1,41	15,34	30,67	1,62	17,44	29,06	1,89	21,25	35,42	2,23
32	11,92	23,84	1,58	14,20	28,39	1,85	16,94	33,89	2,17	19,96	33,26	2,54	23,76	39,60	2,97
20	15,67	31,34	2,46	18,68	37,37	2,91	22,06	44,12	3,84	22,95	38,25	3,42	26,84	44,74	4,22
MEPS	2,69 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	42,4 A / 24 kW														

Inverter modulation from 30 to 60 Hz except / cooling capacity min @30 Hz - max @ 60 Hz except ** @ 50 Hz

N° of fans / Dimensions & Weight / Noise

PEDII

2x500 <i>2MTE-5K</i> mm1340x760x1485 Weight 460 Kg **Noise 43 dB(A)		2x500 <i>2KTE-7K</i> mm1340x760x1485 Weight 470 Kg **Noise 44 dB(A)		2x500 <i>4MTE-10K</i> mm1340x760x1485 Weight 570 Kg **Noise 44 dB(A)		3x500 <i>4KTE-12K</i> mm1895x760x1485 Weight 645 Kg **Noise 45 dB(A)	
3x500 <i>4HTE-20K</i> mm1895x760x1485 Weight 655 Kg **Noise 45 dB(A)							

UMT 075 VS MTDX

Bitzer 4PTE-7K

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP
	min	max		min	max		min	max		min	max		min	max	
40	0,47	4,68	0,96	0,64	6,38	1,18	0,78	7,83	1,39	0,95	9,45	1,64	1,13	11,27	1,95
38	0,53	5,27	1,07	0,67	6,72	1,28	0,82	8,23	1,52	0,99	9,92	1,80	1,18	11,81	2,15
32	0,64	6,38	1,41	0,79	7,90	1,69	0,96	9,60	2,02	1,15	11,51	2,44	1,36	13,64	2,96
20	0,86	8,64	2,20	1,15	11,48	2,92	1,29	12,85	3,30	1,54	15,38	4,08	1,82	18,24	5,13
MEPS	2,65 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	20,5 A / 10,4 kW														

UMT 120 VS MTDX

Bitzer 4MTE-10K

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP
	min	max		min	max		min	max		min	max		min	max	
40	0,85	8,49	1,07	1,06	10,62	1,24	1,29	12,90	1,44	1,55	15,45	1,70	1,83	18,29	2,03
38	0,90	9,02	1,14	1,12	11,15	1,33	1,35	13,52	1,57	1,62	16,18	1,86	1,92	19,17	2,24
32	1,05	10,52	1,44	1,29	12,92	1,72	1,56	15,62	2,07	1,87	18,68	2,53	2,21	22,10	3,12
20	1,40	13,96	2,22	1,71	17,13	2,73	2,08	20,80	3,39	2,50	25,00	4,26	2,98	29,80	5,46
MEPS	2,71 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	26,3 A / 13,8 kW														

UMT 150 VS MTDX

Bitzer 4KTE-12K

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP
	min	max		min	max		min	max		min	max		min	max	
40	1,27	12,70	1,09	1,59	15,86	1,30	1,94	19,40	1,54	2,34	23,40	1,82	2,78	27,80	2,15
38	1,35	13,47	1,18	1,68	16,78	1,42	2,05	20,50	1,68	2,46	24,60	1,98	2,92	29,20	2,36
32	1,57	15,73	1,52	1,95	19,47	1,83	2,37	23,70	2,20	2,83	28,30	2,65	3,36	33,60	3,22
20	2,08	20,80	2,35	2,55	25,50	2,87	3,10	31,00	3,52	3,73	37,30	4,38	4,44	44,40	5,58
MEPS	2,67	(according to Ecodesign Directive EN 2009/125/EC)													
MRA/Pmax	33,4 A / 18,6 kW														

UMT 190 VS MTDX

Bitzer 4HTE-20K

T amb [°C]	Evaporation Temperature [°C]														
	-15			-10			-5			0			5		
	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]		COP	Cooling Cap. [kW]**		COP	Cooling Cap. [kW]**		COP
	min	max		min	max		min	max		min	max		min	max	
40	1,70	16,98	1,15	2,06	20,60	1,33	2,49	24,90	1,56	2,86	28,60	1,69	3,38	33,80	1,98
38	1,78	17,79	1,24	2,16	21,60	1,44	2,61	26,10	1,70	2,98	29,80	1,83	3,52	35,20	2,16
32	2,06	20,60	1,59	2,49	24,90	1,88	2,98	29,80	2,24	3,39	33,90	2,43	4,01	40,10	2,91
20	2,70	27,00	2,46	3,26	32,60	2,97	3,92	39,20	3,63	4,69	46,90	4,49	5,57	55,70	5,63
MEPS	2,69	(according to Ecodesign Directive EN 2009/125/EC)													
MRA/Pmax	42.4 A / 24 kW														

VARISTEP capacity control for high full and part load efficiency

Compressor capacity modulation with stepless capacity control from 10 to 100% @ 50 Hz

N° of fans / Dimensions & Weight / Noise

PEDII

2x500
2KTE-7K
mm1340x760x1485
Weight 470 Kg
**Noise 44 dB(A)

2x500
4MTE-10K
mm1340x760x1485
Weight 570 Kg
**Noise 44 dB(A)

3x500
4KTE-12K
mm1895x760x1485
Weight 645 Kg
**Noise 45 dB(A)

3x500
4HTE-20K
mm1895x760x1485
Weight 655 Kg
**Noise 45 dB(A)

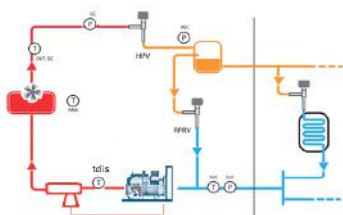
		Preliminary Data						LOW TEMPERATURE							
		Evaporation Temperature [°C]													
		-40			-35			-30			-25				
UMT 030 BTDX	Dorin CD2S 300	T amb [°C]	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	
			min	max		min	max		min	max		min	max		
		40	-	-	-	-	-	-	-	1,38	2,11	0,97	1,58	2,38	1,05
		38	-	-	-	1,22	1,84	0,94	1,42	2,14	1,02	1,64	2,46	1,11	
		32	1,08	1,62	0,94	1,26	1,90	1,04	1,53	2,29	1,12	1,73	2,59	1,31	
		20	1,17	1,75	1,25	1,37	2,05	1,39	1,66	2,48	1,60	1,90	2,86	1,77	
		MEPS	0,96 (according to Ecodesign Directive EN 2009/125/EC)												
		MRA/Pmax	10,4 A / 4,2 kW												
		UMT035 BTDX	Dorin CD2S 350	Evaporation Temperature [°C]											
				-40			-35			-30			-25		
T amb [°C]	Cooling Capacity [W]			COP	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP		
	min			max		min	max		min	max		min	max		
40	-			-	-	-	-	-	1,62	2,42	0,99	1,88	2,82	1,08	
38	-			-	-	1,46	2,18	0,97	1,67	2,51	1,05	1,94	2,92	1,15	
32	1,30			1,96	1,03	1,54	2,30	1,14	1,78	2,68	1,12	2,06	3,10	1,36	
20	1,44			2,16	1,35	1,69	2,53	1,49	1,98	2,98	1,66	2,31	3,47	1,84	
MEPS	1,01 (according to Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax	11,7 A / 4,7 kW														
UMT 036 BTDX	Dorin CD2S 360	Evaporation Temperature [°C]													
		-40			-35			-30			-25				
		T amb [°C]	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	
			min	max		min	max		min	max		min	max		
		40	-	-	-	-	-	-	2,09	3,13	0,99	2,44	3,66	1,09	
		38	-	-	-	1,86	2,80	0,97	2,16	3,24	1,05	2,50	3,76	1,14	
		32	1,67	2,51	1,03	1,97	2,95	1,13	2,29	3,43	1,23	2,68	4,02	1,36	
		20	1,86	2,78	1,34	2,19	3,29	1,50	2,55	3,83	1,64	2,97	4,45	1,81	
		MEPS	1,60 (according to Ecodesign Directive EN 2009/125/EC)												
		MRA/Pmax	11,9 A / 5 kW												
UMT 120 BTDX	Dorin CD2S 1200	Evaporation Temperature [°C]													
		-40			-35			-30			-25				
		T amb [°C]	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	Cooling Capacity [W]		COP	
			min	max		min	max		min	max		min	max		
		40	-	-	-	-	-	-	8,05	12,07	1,01	9,24	13,86	1,09	
		38	-	-	-	7,07	10,61	0,98	8,28	12,42	1,07	9,51	14,27	1,15	
		32	6,16	9,24	1,01	7,35	11,03	1,13	8,58	12,86	1,23	9,96	14,94	1,34	
		20	6,56	9,84	1,29	7,78	11,68	1,45	9,14	13,72	1,59	10,57	15,85	1,73	
		MEPS	1,70 (according to Ecodesign Directive EN 2009/125/EC)												
		MRA/Pmax	32,4 A / 13,2 kW												

inverter modulation from 40 to 60 Hz / cooling capacity min @ 40Hz - max @ 60 Hz

N°of fans / Dimensions & Weight / Noise								
PEDII	2x500		2x500		2x500		2x500	
	CD2S300	mm1340x760x1485	CD2S350	mm1340x760x1485	CD2S360	mm1340x760x1485	CD2S1200	mm1340x760x1485
		Weight 460 Kg		Weight 465 Kg		Weight 470 Kg		Weight 560 Kg
		**Noise 48 dB(A)		**Noise 48 dB(A)		**Noise 48 dB(A)		**Noise 50 dB(A)

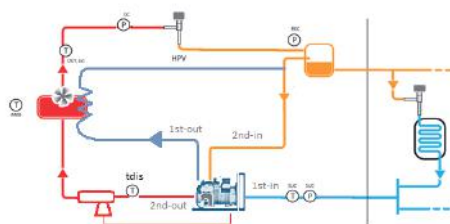
Unit Configuration

Model UMT T MTDX



- One Semihermetic Compressor
- Oil management with: oil separator, oil reservoir, traxoil

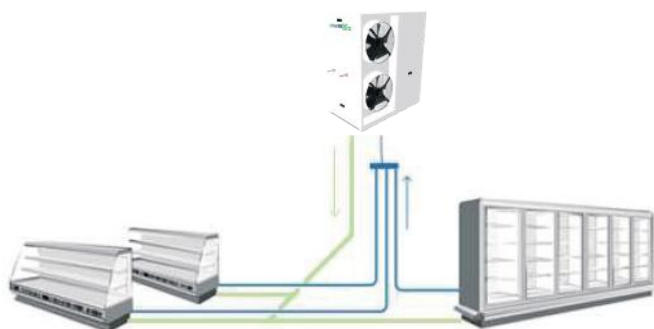
Model UMT T BTDX



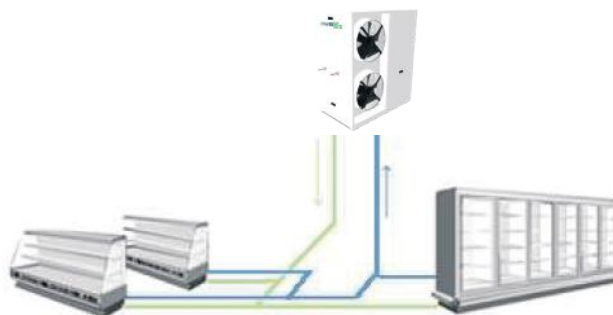
- One semihermetic compressor double stage
- Air cooled intercooler integrated in the gas cooler coil
- Oil management with: oil separator, oil reservoir, traxoil

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 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.

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).

Check the unit charge/receiver size

CUBO, PLUS Refrigerant Charge Calculator V.1.1			
UNIT MODEL	UNIT GAS METHOD	RT is essential to calculate proper charge	
LIQUID REFRIGERANT MODEL	SL		
SL is SL and ONLY for surface coils			
CHARGE		kg	
DISCHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Discharge		0.00	
RECHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Recharge		0.00	
LIQUID CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Liquid		0.00	
DISCHARGE CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Discharge Charge		0.00	
DISCHARGE CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Discharge Charge		0.00	
DISCHARGE CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Discharge Charge		0.00	
DISCHARGE CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Discharge Charge		0.00	
DISCHARGE CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Discharge Charge		0.00	
DISCHARGE CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Discharge Charge		0.00	
DISCHARGE CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Discharge Charge		0.00	
DISCHARGE CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	
Unit 5 (1st 1/2 ton 120V for 600)		0.00	
Sub Total Discharge Charge		0.00	
DISCHARGE CHARGE			
Unit 1 (1st 1/2 ton 120V for 600)		0.00	
Unit 2 (1st 1/2 ton 120V for 600)		0.00	
Unit 3 (1st 1/2 ton 120V for 600)		0.00	
Unit 4 (1st 1/2 ton 120V for 600)		0.00	

In our website at the following link:

www.scmfrigo.com/en/products/co2-condensing-unit/



Cooling Capacity:
MT from 4,6 kW up to 34 kW - BT
from 1,1 kW up to 12,5 kW

Design is compact and units are easy to install and maintain.
Units are equipped with gas cooler and electrical panel, tested and factory programmed for an easy start-up.

[DOWNLOAD BROCHURE](#)

[Click here to download](#) 

CO2 CHARGE CALCULA
CURB PLUS V1.1

F.A.Q. Section

Visit **FAQ section** on the SCM Frigo website:

scmfrigo.com/en/faq/