



SUSTAINABLE COLD SOLUTIONS

TRANSCRITICAL CO₂ CONDENSING UNITS

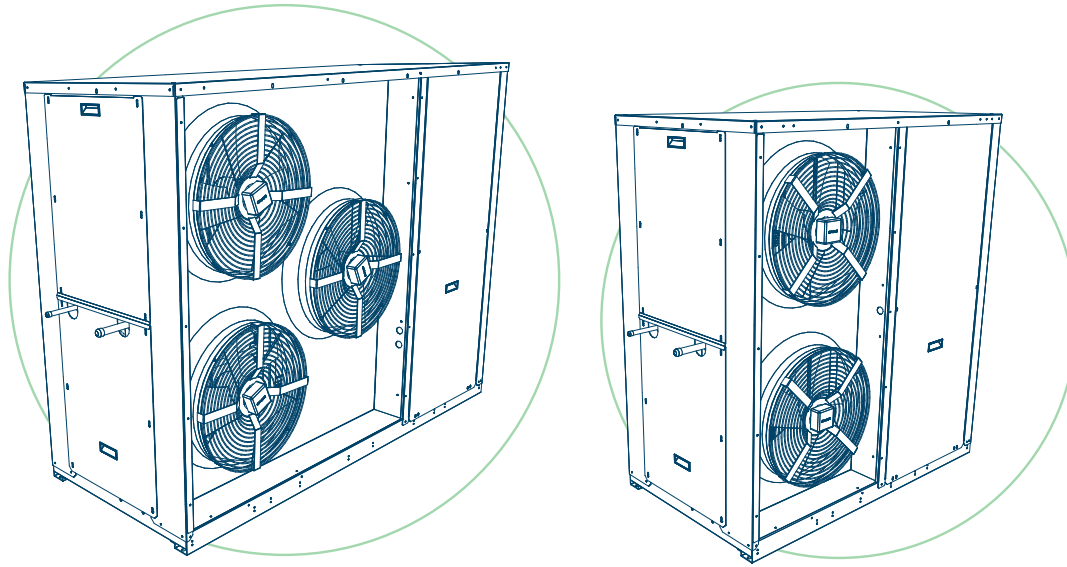


Available with
**VARISTEP
CRII**



We know the art of achieving
a perfect temperature






BEIJER REF



Product Description

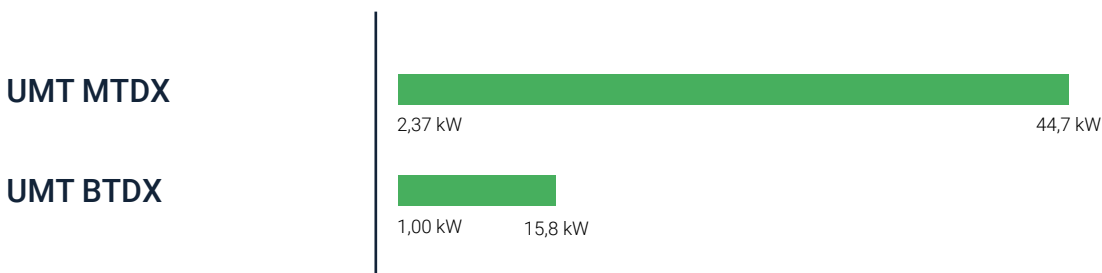
Condensing unit for transcritical CO₂ applications equipped with BITZER/DORIN semi-hermetic piston compressors with frequency inverter or BITZER CR11, integrated air cooled gas cooler and EC fans. It is a high-efficiency solution designed for a small footprint and low noise.

Main Advantages

 <p>COMPACT DESIGN</p>	 <p>EASY START-UP</p>	 <p>EASY TO INSTALL AND MAINTAIN</p>	 <p>TESTED AND FACTORY PROGRAMMED</p>	 <p>EFFICIENCY UP IN ALL CLIMATE THANKS TO EJECTOR</p>
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Cooling Capacity

Transcritical condensing units DX



Standard Accessories

- SEMIHERMETIC 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 (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

Check the **Unit CO₂ Charge** / Receiver Size



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.

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CO₂ CHARGE CALCULATION
CUBO PLUS V3.1

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AT THE FOLLOWING LINK YOU CAN CHECK THE UNIT CHARGE/RECEIVER SIZE.
Ask our sales department for the password

T amb [°C]		Evaporation Temperature[°C]																					
		-15			-10			-5			0			5									
		Cooling Capacity [kW]		Pe	Cooling Capacity [kW]		Pe	Cooling Capacity [kW]		Pe	Cooling Capacity [kW]		Pe	Cooling Capacity [kW]		Pe	COP						
min max		kW	min max		kW	min max		kW	min max		kW	min max		kW	min max		kW	COP					
UMT 036 MTDX	Bitzer 2MTE-5K	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 2x500																					
		Weight 460 kg																					
		Sound pressure 43 dB(A)*																					
		MEPS 2,75 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 18927																							
MRA/Pmax 15,9 A / 7,5 kW																							
UMT 075 MTDX	Bitzer 2KTE-7K	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 2x500																					
		Weight 470 kg																					
		Sound pressure 44 dB(A)*																					
		MEPS 2,78 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 26966																							
MRA/Pmax 20,5 A / 10,4 kW																							
UMT 120 MTDX	Bitzer 4MTE-10K	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 2x500																					
		Weight 570 kg																					
		Sound pressure 44 dB(A)*																					
		MEPS 2,68 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 36104																							
MRA/Pmax 26,3 A / 13,8 kW																							
UMT 150 MTDX	Bitzer 4KTE-12K	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 3x500																					
		Weight 645 kg																					
		Sound pressure 45 dB(A)*																					
		MEPS 2,74 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 52347																							
MRA/Pmax 33,4 A / 18,6 kW																							
UMT 190 MTDX	Bitzer 4HTE-20K	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 3x500																					
		Weight 655 kg																					
		Sound pressure 45 dB(A)*																					
		MEPS 2,71 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 62283																							
MRA/Pmax 42,4 A / 24 kW																							

NOTE: Inverter modulation from 30 to 60 Hz except / cooling capacity min @30Hz - @60Hz except** @50Hz
 (*based on free field area weed semi-spherical sound emission in 10m distance; tolerance ± 2 dB(A))

T amb [°C]		Evaporation Temperature[°C]																				
		-15			-10			-5			0			5								
		Cooling Capacity [kW]		Pe	Cooling Capacity [kW]		Pe	Cooling Capacity [kW]		Pe	Cooling Capacity [kW]		Pe	Cooling Capacity [kW]		Pe						
		min	max	COP	min	max	COP	min	max	COP	min	max	COP	min	max	COP						
UMT 036 MTDX	Dorin CD 360H	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 2x500																					
	Weight 460 kg																					
	Sound pressure 43 dB(A)*																					
	MEPS 2,78 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 19150																						
MRA/Pmax 15,9 A / 7,5 kW																						
UMT 075 MTDX	Dorin CD 4 75-4-7 H	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 2x500																					
	Weight 650 kg																					
	Sound pressure 45 dB(A)*																					
	MEPS 2,67 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 26174																						
MRA/Pmax 20,5 A / 10,4 kW																						
UMT 120 MTDX	Dorin CD 4 90-6-4H	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 2x500																					
	Weight 570 kg																					
	Sound pressure 45 dB(A)*																					
	MEPS 2,75 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 35268																						
MRA/Pmax 26,3 A / 13,8 kW																						
UMT 150 MTDX	CD4 120-9-2H	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 2x500																					
	Weight 560 kg																					
	Sound pressure 44 dB(A)*																					
	MEPS 2,83 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 51217																						
MRA/Pmax 33,4 A / 18,6 kW																						
UMT 190 MTDX	Dorin CD 2000H	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 3x500																					
	Weight 655 kg																					
	Sound pressure 45 dB(A)*																					
	MEPS 2,85 (according Ecodesign Directive EN 2009/125/EC)																					
y usage kWh 66470																						
MRA/Pmax 42,4 A / 24 kW																						

NOTE: Inverter modulation from 30 to 60 Hz except / cooling capacity min @30Hz - @60Hz except** @50Hz
 (*based on free field area weed semi-spherical sound emission in 10m distance; tolerance ± 2 dB(A))

T amb [°C]		Evaporation Temperature[°C]																			
		-15				-10				-5				0				5			
		Cooling Capacity [kW]		Pe	COP	Cooling Capacity [kW]		Pe	COP	Cooling Capacity [kW]		Pe	COP	Cooling Capacity [kW]		Pe	COP	Cooling Capacity [kW]		Pe	COP
min	max			min	max			min	max			min	max			min	max				
UMT 075 VS MTDX Bitzer 4PTE-7K	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 2x500																				
	Weight 470 kg																				
	Sound pressure 44 dB(A)*																				
	MEPS 3,14 (according Ecodesign Directive EN 2009/125/EC)																				
y usage kWh 20096																					
MRA/Pmax 20,5 A / 10,4 kW																					
UMT 120 VS MTDX Bitzer 4MTE-10K	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 2x500																				
	Weight 570 kg																				
	Sound pressure 44 dB(A)*																				
	MEPS 2,68 (according Ecodesign Directive EN 2009/125/EC)																				
y usage kWh 30081																					
MRA/Pmax 26,3 A / 13,8 kW																					
UMT 150 VS MTDX Bitzer 4KTE-12K	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 2x500																				
	Weight 645 kg																				
	Sound pressure 45 dB(A)*																				
	MEPS 2,80 (according Ecodesign Directive EN 2009/125/EC)																				
y usage kWh 42608																					
MRA/Pmax 33,4 A / 18,6 kW																					
UMT 190 MTDX Bitzer 4HTE-20K	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 3x500																				
	Weight 655 kg																				
	Sound pressure 45 dB(A)*																				
	MEPS 2,71 (according Ecodesign Directive EN 2009/125/EC)																				
y usage kWh 51896																					
MRA/Pmax 42,4 A / 24 kW																					

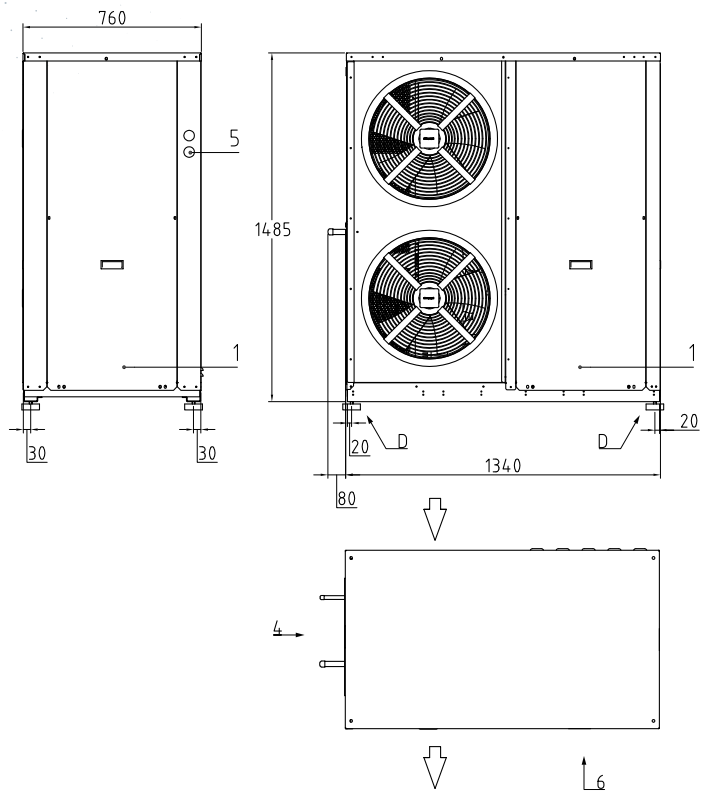
NOTE: Inverter modulation from 30 to 60 Hz except / cooling capacity min @30Hz - @60Hz except** @50Hz
 Varistep modulation from 10 to 100 % of the capacity @ 50 Hz
 (*based on free field area weed semi-spherical sound emission in 10m distance; tolerance ± 2 dB(A))

		Evaporation Temperature[°C]												
		-40			-35			-30			-25			
		Cooling Capacity [kW]		COP	Cooling Capacity [kW]		COP	Cooling Capacity [kW]		COP	Cooling Capacity [kW]		COP	
min	max	min	max		min	max		min	max					
T amb [°C]														
UMT 030 BTDX	Dorin CD2S 300	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
	N. of fans 2x500													
	Weight 460 kg													
	Sound pressure 48 dB(A)*													
	MEPS 0,96 (according Ecodesign Directive EN 2009/125/EC)													
	MRA/Pmax 10,4 A / 4,2 kW													
	UMT 035 BTDX	Dorin CD2S 350	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
N. of fans 2x500														
Weight 465 kg														
Sound pressure 48 dB(A)*														
MEPS 1,01 (according Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax 11,7 A / 4,7 kW														
UMT 036 BTDX		Dorin CD2S 360	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
	N. of fans 2x500													
	Weight 470 kg													
	Sound pressure 48 dB(A)*													
	MEPS 1,01 (according Ecodesign Directive EN 2009/125/EC)													
	MRA/Pmax 11,7 A / 4,7 kW													
	UMT 120 BTDX	Dorin CD2S 1200	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
N. of fans 3x500														
Weight 560 kg														
Sound pressure 50 dB(A)*														
MEPS (according Ecodesign Directive EN 2009/125/EC)														
MRA/Pmax 32,4 A / 13,2 kW														

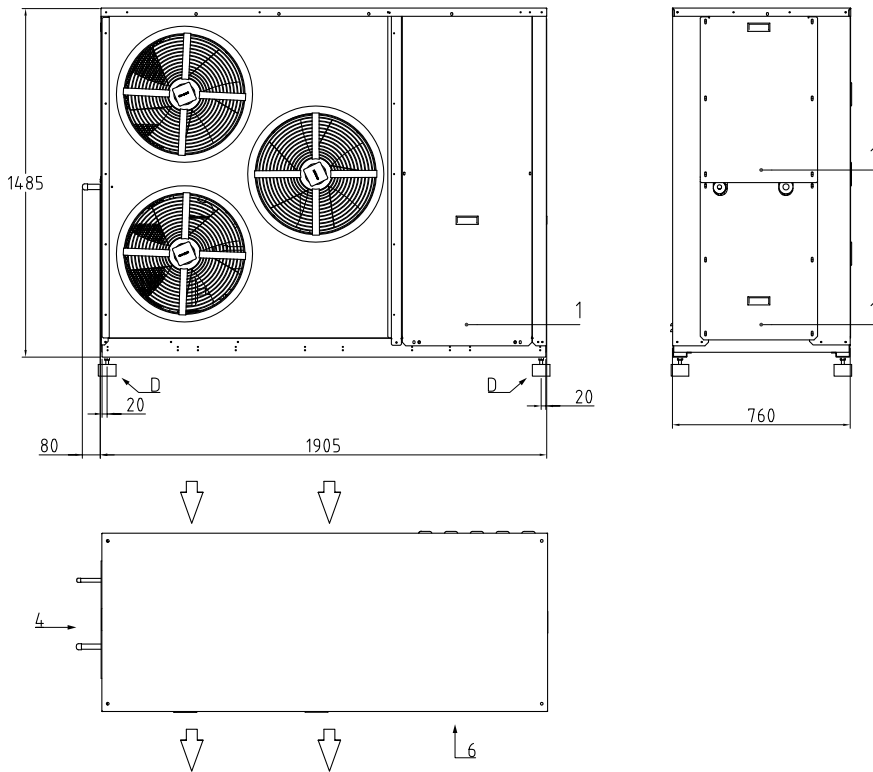
NOTE: Inverter modulation from 40 to 60 Hz / cooling capacity min @ 40 Hz - max @ 60 Hz
 (*based on free field area weed semi-spherical sound emission in 10m distance; tolerance ± 2 dB(A))

Dimensional Data

MTDX - 2 fans

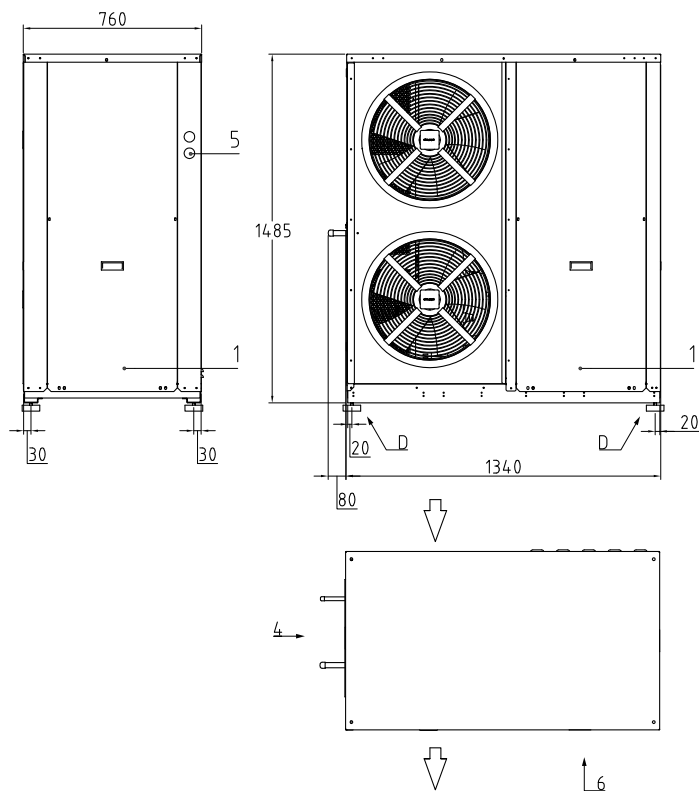


MTDX - 3 fans



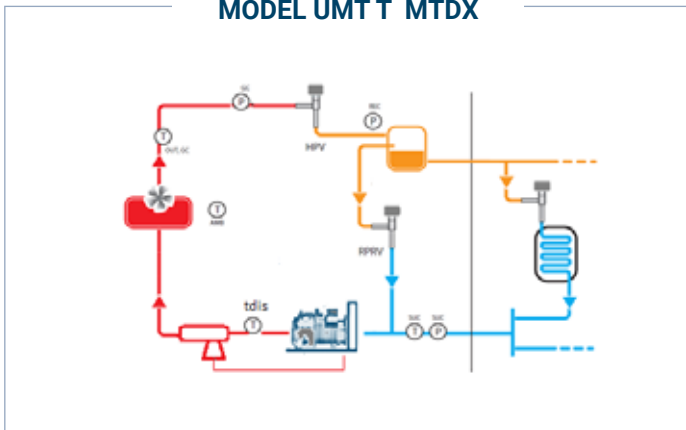
Dimensional Data

BTDX - 2 fans



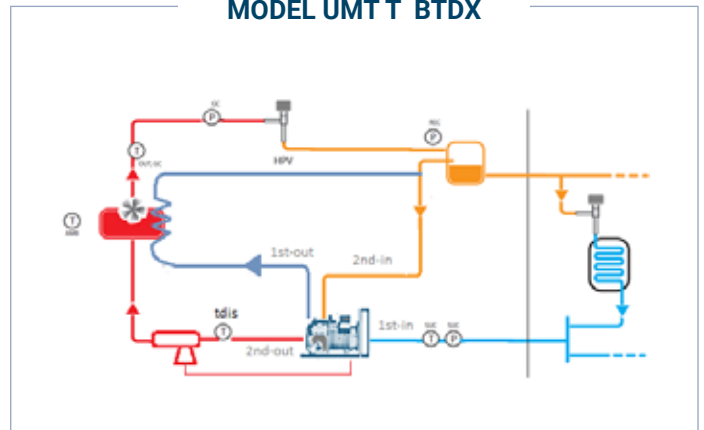
Unit Configuration

MODEL UMT T MTDX



Management of one BLDC compressor
Communication with cabinets (MPXPRO or ULTRACELLA)

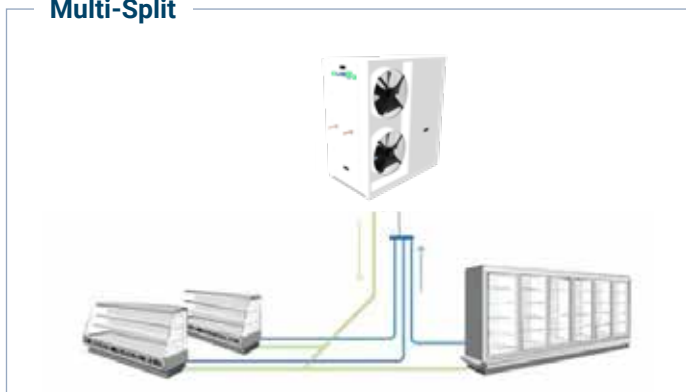
MODEL UMT T BTDX



Management of two BLDC compressor (LT and parallel compressors)
Communication with cabinets (MPXPRO or ULTRACELLA)
Floating receiver pressure (-10°C / 0°C)

Installation Design

Multi-Split

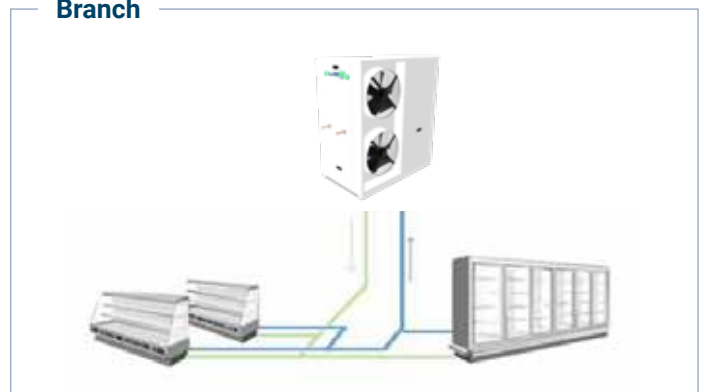


Pipe Connections (Multi-Split or Branch)

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).

CO₂ INDUSTRIAL NATURAL REFRIGERATION CHOICE



Non-flammable

which means the electrical panel can be in same room as the plant, saving on plant saving on plantroom and installation costs.

Non-toxic

has no charge limitation/concerns and can be used across a wide platform.

CO₂ packs will have multiple compressors

providing built-in resilience in case a compressor fails.

Non-flammable

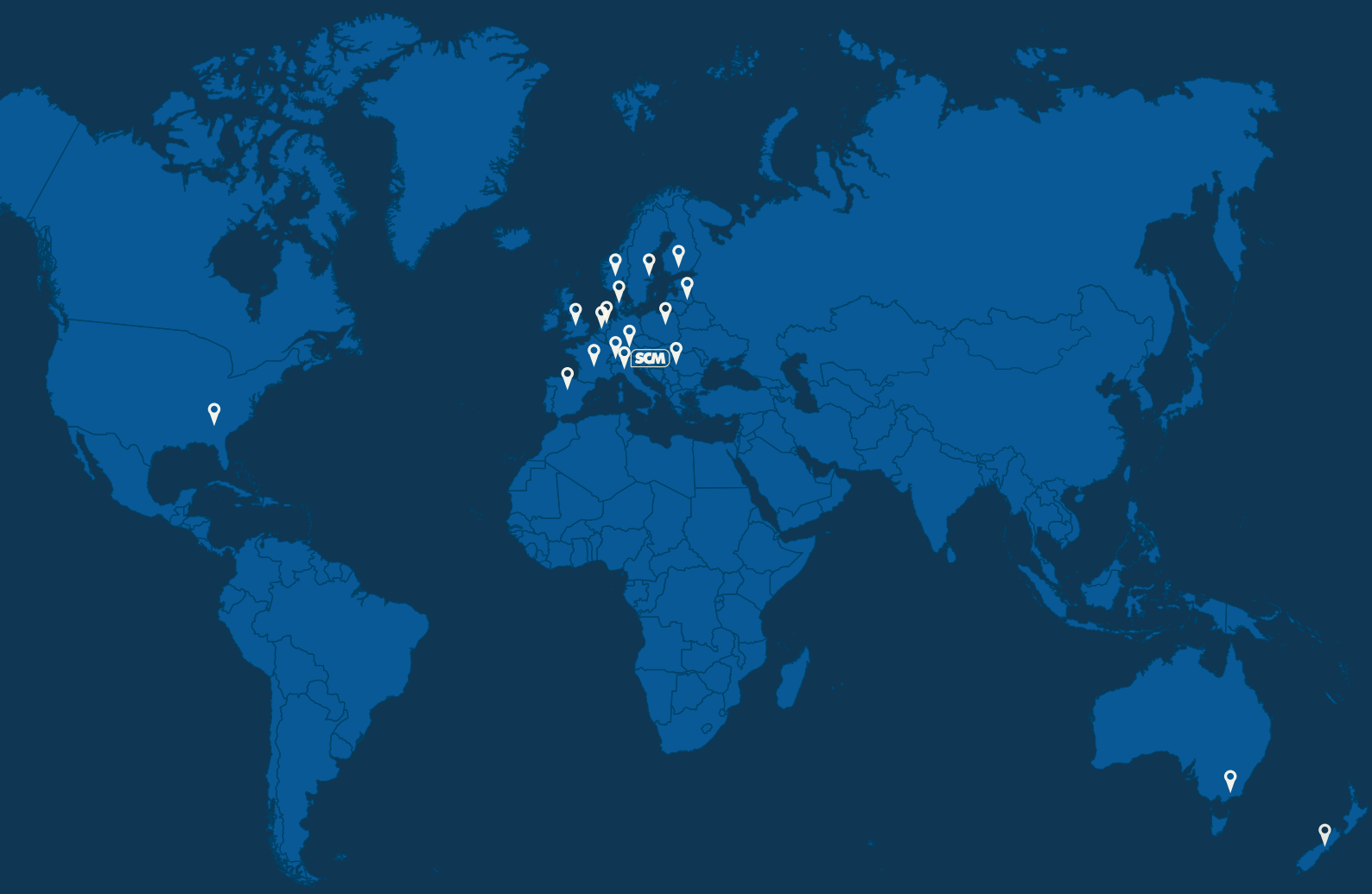
which means there is no requirement for ATEX fans and other explosion-proof equipment.

Does not require regular compressor overhauls

saving on maintenance costs.

Is now standard refrigerant in commercial installations

making it easily transferable to industrial settings. There is a larger pool of companies and engineers available to provide installation and service



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