

PRECISION Air Conditioning

CLIMTECH



Modultech Range

MTC - MTD - MTWC - MTWD

Hightech Range

MTC - MTD - MTWC - MTWD

The Modultech precision air conditioning range is specially designed for applications where minimum ground occupation and mobility are a priority.

This range covers a wide spectrum of models available from 5kW to 58kW, with different condensation systems (air and glycol-based water fluid).

Apart from generating cool air mechanically, this range's design allows for providing air conditioning by means of cold water. MTWD series with discharge on false flooring and MTWC series with discharge on ducts are available from 10kW to 63kW.

These units are designed for a wide range of applications, including Telecom stations, computer control rooms, server environments, museums, laboratories and any other application where close control is required.

The CLIMTECH range of products has been awarded the ISO 9001 Quality System certification by AENOR. Our products result from applying the activities and commitments included in the quality processes plans.

Main features:

- Air discharge on false flooring or ducts
- Internal elements arrangement ready for front access
- Metallic closing panel at the fans compartment and effective thermal and sound insulation, which provides a low noise emission during operation.
- High COP scroll compressors
- EC technology centrifugal fan R410-A refrigerant
- State-of-the-art microprocessor control especially designed for integrating all the necessary functions and fitted with several communication options.
- The equipment's design allows for performing control and maintenance tasks during operation.
- G4 panel filters to ensure the quality of air when it is discharged to the environment 2-way/3-way proportional valve in cold water units

Optional Accessories:

- Electronically controlled immersed electrodes humidifier Different types of reheating:
 - Resistors
 - Hot water storage tanks
 - Hot gas storage tanks
- False floorings water witch
- Baseplate
- Special control for laboratories and Metrology labs
- Direct Free Cooling
- Optional inverter technology unitsproduction
- Units' operation sequencing.



Condensation by air (MTC / MTD A)

TECHNICAL DATA		ONE REFRIGERATION CIRCUIT										
Models		151	201	301	401	501	701	801	1001	1201	1351	1501
Total power ⁽¹⁾	kw	7,73	10,38	12,69	15,2	17,95	22,57	26,97	35,16	39,12	48,06	58,8
Sensible heat ⁽¹⁾	kw	7,18	9,44	11,5	14,44	16,69	20,59	26,08	32,56	35,91	43,23	50,6
Air Flow	m ³ /h	2.000	2.500	2.800	4.800	5.400	6.000	8.800	9.400	9.800	10.800	11.800
Max. available pressure ⁽³⁾	Pa	350	240	140	260	180	80	165	100	550	155	110
Electric reheating	kw	3	3	4,5	2 x 3	2 x 3	2 x 6	2 x 6	2 x 7,5	2 x 9	2 x 9	2 x 9
Humidification (max.)	kg/h	3,2	3,2	3,2	5	5	5	9	9	9	9	9
Sound pressure	dB(A)	54	54	54	56	66	57	59	59	60	59	60
Length x Width x Height	mm	745 x 500 x 1870			1100 x 635 x 1900			1600 x 780 x 1990			1750 x 780 x 1990	
Weight	kg	148	160	175	230	245	300	430	450	480	545	570

Condensation by glycol-based water fluid (MTC / MTD G)

TECHNICAL DATA		ONE REFRIGERATION CIRCUIT											
Models		151	201	301	401	501	701	801	1001	1201	1351	1501	
Total power ⁽²⁾	kw	7,51	10,11	12,29	14,77	17,45	21,93	26,21	34,17	37,85	47,08	57,63	
Sensible heat ⁽²⁾	kw	6,99	9,2	11,16	14,09	16,26	20	25,34	31,71	34,82	42,56	49,56	
Glycol-based water flow ⁽⁴⁾	l/s	0,32	0,43	0,54	0,62	0,73	0,94	1,06	1,38	1,54	1,83	2,39	
Air Flow	m ³ /h	2.000	2.500	2.800	4.800	5.400	6.000	8.800	9.400	9.800	10.800	11.800	
Max. available pressure ⁽³⁾	Pa	350	240	140	260	180	80	165	100	550	155	110	
Electric reheating	kw	3	3	4,5	2 x 3	2 x 3	2 x 6	2 x 6	2 x 7,5	2 x 9	2 x 9	2 x 9	
Humidification (max.)	kg/h	3,2	3,2	3,2	5	5	5	9	9	9	9	9	
Sound pressure	dB(A)	54	54	54	56	56	57	58	59	60	59	60	
Length x Width X Height	mm	54	54	54	56	66	57	59	59	60	59	60	
Weight	kg	1800 x 850 x 1990			2250 x 850 x 1990			2670 x 850 x 2020			3200 x 950 x 1990		
Peso	kg	160	175	190	240	260	315	445	465	495	560	590	

Cold water (MTWC / MTWD)

TECHNICAL DATA		ONE REFRIGERATION CIRCUIT										
Models		151	201	301	401	501	701	801	1001	1201	1351	1501
Total power ⁽¹⁾	kw	10,03	13,5	17,2	19,4	24,9	30,2	34,6	43,2	47,9	53,6	63,9
Sensible heat ⁽⁵⁾	kw	8,53	11,1	13,9	16,7	20,9	24,8	30	36,5	41,4	46,3	53,9
Water flow rate	l/s	0,49	0,65	0,83	0,93	1,19	1,44	1,65	2,06	2,29	2,56	3,06
Air Flow	m ³ /h	2.400	2.900	3.400	5.000	5.600	6.200	9.000	9.800	11.600	13.000	14.000
Max. available pressure ⁽³⁾	Pa	320	215	105	350	255	135	390	290	155	370	290
Electric reheating	kw	3	3	4,5	2 x 3	2 x 3	2 x 6	2 x 6	2 x 7,5	2 x 9	2 x 9	2 x 9
Humidification (max.)	kg/h	3,2	3,2	3,2	5	5	5	9	9	9	15	15
Sound pressure	dB(A)	53,6	54,2	54,8	54,4	54,9	56	56,3	56,9	57,5	57,6	58,2
Length x Width X Height	mm	745 x 560 x 1870			1100 x 635 x 1900			1600 x 780 x 1990			1750 x 780 x 1990	
Weight	kg	148	160	175	230	245	300	430	450	480	530	545

Remarks: Under the following standard conditions:

- (1) 35°C B.S. outdoor temperature capacities and 24°C/50% (H.R.) evaporator air supply
- (2) 35°C B.S. outdoor temperature capacities, 24°C/50% (H.R.) evaporator air supply and 15% glycol-based water fluid
- (3) Available pressure with G4 panel filters
- (4) 10 mWc static pressure glycol-based water fluid available in the outdoor exchanger
- (5) 7/12°C cold water inlet/outlet temperature capacities and 24°C/45% (H.R.) evaporator air supply





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