Air Conditioning PRECISIÓN

CLIMTECH

Hightech Range

HTC - HTD - HTWC - HTWD

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Our high power air conditioners range have been designed to provide air conditioning to Data Processing Centres (DPC), switching stations, telephone plant centrals, hospitals and industrial processes where high dispersion of sensible heat is generated.
These units are divided into different compartments, each one of them containing the ventilation module, the filters system and compressors module energy exchanger and the electric panel. The result is a range of units that provide convenient access for the performance of installation and maintenance tasks.

The different models are available from 29kW to 118kW and fitted with different condensation systems (by air and by glycol-bases water fluid).

Apart from the direct expansion feature, this range's design allows for providing air conditioning by means of cold water.

HTWD series with lower air discharge and HTWC series with higher air discharge are availablefrom 42kW to 170kW.

Bearing in mind energy systems, our units fitted with a glycol-based water fluid condensation system also include a water pre-cooling coil to make the most of low outdoor temperatures.

As a standard option, double cooling system units (by cold water and direct expansion) are also available.

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.

CLIMTECH

Main features:

- Higher/lower air discharge
- Completely separate double refrigeration circuit
- Effective thermal and sound insulation, which provides a low noise emission during operation
- Hermetically sealed scroll compressors
- 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 accessible design facilitates maintenance operations. The cooling module, the humidification module and the electric panel are in a separate compartment next to the air circuit, which allows for performingthe corresponding control and maintenance tasks without stopping the unit
- G4 panel filters to ensure the quality of air when it is discharged to the environment
- 2-way/3-way valve fitted in cold water units.

Accessories and optional items:

- Electronically controlled immersed electrodes humidifier
- Different types of reheating:
  - Resistors
  - Hot water storage tanks
  - Hot gas storage tanks
- False floorings water witch
- Baseplate
- Direct Free Cooling
- Units' operation sequencing
- Optional Inverter technology units' production.

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Condensación por Aire (HTC / HTD A)

TECHNICAL DATA		Higher air discharge HTC / Lower air discharge HTD							
Models		8.2	10.2	13.2	15.2	18.2	22.2	25.2	30.2
Total power(1)	Kw	34,12	41,05	47,80	61,20	69,12	78,44	92,90	118,04
Sensible heat(1)	Kw	31,26	37,19	44,68	55,45	65,10	73,32	84,07	105,29
Air Flow	m3/s	9.000	10.000	14.000	15.400	19.800	20.800	25.200	28.800
Max. available pressure(3)	Pa	130	80	190	140	120	90	140	90
Electric reheating	kw	2 x 3	2 x 4,8	2 x 6	2 x 6	2 x 7,5	2 x 9	2 x 12,75	2 x 12,75
Humidification (max.)	kg/h	9	9	9	9	15	15	15	15
Sound pressure	dB(A)	58	61	58	60	59	61	62	64
Length x Width X Height	mm	1800 x 850 x 1990		2250 x 850 x 1990		2670 x 850 x 2020		3200 x 950 x 1990	
Weight	kg	590	650	735	770	845	890	1.030	1.090

Condensation by glycol-based water fluid (HTC / HTD G)

TECHNICAL DATA		Higher air discharge HTC / Lower air discharge HTD							
Models		8.2	10.2	13.2	15.2	18.2	22.2	25.2	30.2
Total power(2)	kw	32,93	39,61	46,13	59,06	66,70	75,69	89,65	115,85
Sensible heat(2)	kw	30,75	36,21	43,35	53,92	63,37	71,15	81,49	104,04
Glycol-based water flow (4)	l/s	1,44	1,7	12,16	2,6	3,13	3,6	4,3	4,92
PDC plate heat exchanger	KPa	36	38	37	39	32	39	36	42
Air Flow	m3/s	9.000	10.000	14.000	15.400	19.800	20.800	25.200	28.800
Max. available pressure(3)		130	80	190	140	120	90	140	90
Electric reheating	kw	2 x 3	2 x 4,8	2 x 6	2 x 6	2 x 7,5	2 x 9	2 x 12,75	2 x 12,75
Humidification (max.)	kg/h	9	9	9	9	15	15	15	15
Sound pressure	dB(A)	58	61	58	60	59	61	62	64
LengthxWidthx Height	mm	1800 x 850 x 1990		2250 x 850 x 1990		2670 x 850 x 2020		3200 x 950 x 1990	
Weight	kg	590	650	735	770	845	890	1.030	1.090

Condensación por Agua Glicolada + FreeCooling de Agua Fría (HTC / HTD GFC)

TECHNICAL DATA		Higher air discharge HTC / Lower air discharge HTD							
Models		8.2	10.2	13.2	15.2	18.2	22.2	25.2	30.2
Direct expansion									
Total power(2)	kw	29,1	36,8	45,5	52,8	62,8	71,5	86,8	103,7
Sensible heat(2)	kw	27,5	34,9	42,4	48,4	57,8	66	79,6	93,4
Glycol-based water flow (4)	l/s	1,44	1,7	2,16	2,6	3,13	3,6	4,3	4,92
PDC plate heat exchanger	KPa	36	38	37	39	32	39	36	42
Free cooling battery Outdoor temp. = 3°C									
Total powe(5)	Kw	29,64	32,4	44,80	52,20	65,40	67,20	84,90	92,8
Sensible heat(5)	Kw	27,26	29,8	40,60	47,10	60,10	64,02	77,20	84,60
Air Flow	m3/h	9.000	10.000	14.000	15.400	19.800	20.800	25.200	28.800
Max. available pressure(3)	Pa	100	60	130	110	90	60	110	60
Electric reheating	kw	2 x 3	2 x 4.8	2 x 6	2 x 6	2 x 7.5	2 x 9	2 x 12.75	2 x 12.75
Humidification (max.)	kg/h	9	9	9	9	15	15	15	15
Sound pressure	dB	59	61	58	60	62	61	62	64
LengthxWidthx Height	mm	1800 x 850 x 1990		2250 x 850 x 1990		2670 x 850 x 2020		3200 x 950 x 1990	
Weight	Kg	590	650	735	770	845	890	1,030	1,090

Double cooling system: Condensation by air + cold water (HTC / HTDDFA)

TECHNICAL DATA		HTC Impulsión Superior / HTD Impulsión Inferior							
Models		8.2	10.2	13.2	15.2	18.2	22.2	25.2	30.2
Direct expansion									
Total power[1]	kw	34,12	41,05	47,80	61,20	69,12	78,44	92,90	118,04
Sensible heat[1]	kw	31,26	37,19	44,68	55,45	65,10	73,32	84,07	105,29
Free cooling battery – 7/12ºC									
Total power[5]	Kw	29,64	32,4	44,80	52,20	65,40	67,20	84,90	92,8
Sensible heat[5]	Kw	27,26	29,8	40,60	47,10	60,10	64,02	77,20	84,60
Air Flow	m³/h	9.000	10.000	14.000	15.400	19.800	20.800	25.200	28.800
Max. available pressure[3]	Pa	100	60	130	110	90	60	110	60
Electric reheating	kw	2 x 3	2 x 4,8	2 x 6	2 x 6	2 x 7,5	2 x 9	2 x 12,75	2 x 12,75
Humidification (max.)	kg/h	9	9	9	9	15	15	15	15
Sound pressure	dB(A)	59	61	58	60	62	61	62	64
LengthxWidthx Height	mm	1800 x 850 x 1990		2250 x 850 x 1990		2670 x 850 x 2020		3200 x 950 x 1990	
Weight	Kg	590	650	735	770	845	890	1,030	1,090

Double cooling system: Condensation by glycol-based water fluid + cold water (HTC / HTDDFG)

TECHNICAL DATA		Higher air discharge HTC / Lower air discharge HTD							
Models		8.2	10.2	13.2	15.2	18.2	22.2	25.2	30.2
Direct expansion									
Total power[2]	kw	32,93	39,61	46,13	59,06	66,70	75,69	89,65	115,85
Sensible heat[2]	kw	30,75	36,21	43,35	53,92	63,37	71,15	81,49	104,04
Glycol-based water flow (4)	l/s	1,44	1,7	12,16	2,6	3,13	3,6	4,3	4,92
PDC plate heat exchanger	KPa	36	38	37	39	32	39	36	42
Cold water battery – 7/12ºC									
Total power[5]	Kw	29,64	32,4	44,80	52,20	65,40	67,20	84,90	92,8
Sensible heat[5]	Kw	27,26	29,8	40,60	47,10	60,10	64,02	77,20	84,60
Air Flow	m3/s	9.000	10.000	14.000	15.400	19.800	20.800	25.200	28.800
Max. available pressure[3]	Pa	100	60	130	110	90	60	110	60
Electric reheating	kw	2 x 3	2 x 4,8	2 x 6	2 x 6	2 x 7,5	2 x 9	2 x 12,75	2 x 12,75
Humidification (max.)	kg/h	9	9	9	9	15	15	15	15
Sound pressure	dB(A)	58	61	58	60	59	61	62	64
LengthxWidthx Height	mm	1800 x 850 x 1990		2250 x 850 x 1990		2670 x 850 x 2020		3200 x 950 x 1990	
Weight	kg	590	650	735	770	845	890	1.030	1.090

Cold water (HTWC / HTWD)

TECHNICAL DATA		Higher air discharge HTWC / Lower air discharge HTWD									
Models		100	120	140	160	200	230	250	280	300	320
Total power[5]	kw	42	56,4	65	73,25	89	102,5	116,4	127,20	145,20	170
Sensible heat[5]	kw	35,4	46,6	53,2	62,6	68,6	84,4	96,80	107,20	124	137,40
Water flow rate	l/s	2,01	2,69	3,1	3,5	3,87	4,9	5,27	6,54	7,19	7,66
Air Flow	m3/h	10.000	12.000	14.000	16.000	20.000	23.000	25.200	28.800	30.400	32.400
Max. available pressure[3]	Pa	120	190	130	100	190	160	190	90	200	120
Electric reheating	kw	2 x 3	2 x 4,5	2 x 6	2 x 6	2 x 7,5	2 x 9	2 x 12,75	2 x 12,75	2 x 12,75	2 x 12,75
Humidification (max.)	kg/h	9	9	9	9	15	15	15	15	15	15
Sound pressure	dB(A)	59	62	59	61	62	64	62	64	65	66
Length x Width X Height	mm	1800 x 850 x 1990		2100 x 850 x 1990		2520 x 850 x 1990		3200 x 940 x 1990			
Weight	kg	500	560	650	675	795	845	1.020	1.140	1195	1.280

Remarks: Under the following standard conditions:

(1) 35ºC B.S. outdoor temperature capacities and 24ºC/50% (H.R.) evaporator air supply
(2) 35ºC B.S. outdoor temperature capacities, 24ºC/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) 7/12ºC cold water inlet/outlet temperature capacities and 24ºC/45% (H.R.) evaporator air supply

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