

Watercooled liquid chillers **CFTW series**, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate evaporator/s, brazed plate condenser/s, thermostatic expansion valve, open cabinet and compact design to fit in narrow spaces.
Electrical feed 400V/3ph/50Hz (60Hz version as option), IP54 protection rating, chillers suitable for indoor / outdoor installation.

Types of available condensing temperature control system:
No one condensing temperature control system (standard)
PCC2 = 2 ways valve/s on water side, regulated by condensing pressure
PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of available expansion elements:
VTS = Thermostatic expansion valve
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES

	Model	061	070	075	090	100	130	160	185	
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	57,5	66,5	74,4	87,6	97,8	113,4	142,3	184,4
	NOMINAL HEATING CAPACITY (4)	kW	71,0	81,8	91,5	107,5	120,8	138,3	174,0	226,1
	TOTAL NOMINAL ABSORBED POWER	kW	13,5	15,3	17,1	20,0	22,9	25,0	31,7	41,7
	EER	kW/kW	4,26	4,36	4,35	4,39	4,27	4,54	4,50	4,42
	COP (4)	kW/kW	5,26	5,36	5,35	5,39	5,27	5,54	5,50	5,42
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	9,9	11,4	12,8	15,0	16,8	19,4	24,4	31,6
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	12,2	14,0	15,7	18,4	20,7	23,7	29,8	38,8
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	66,5	53,3	64,0	57,6	55,0	72,0	60,1	63,0
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	47,7	63,6	79,2	58,8	77,9	79,5	57,1	59,7
	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	50,8	58,8	65,8	77,4	86,5	100,2	125,8
NOMINAL HEATING CAPACITY (4)		kW	67,3	77,5	86,7	101,8	114,5	130,7	164,5	214,0
TOTAL NOMINAL ABSORBED POWER		kW	16,5	18,7	20,9	24,4	28,0	30,5	38,7	51,0
EER		kW/kW	3,08	3,15	3,15	3,17	3,09	3,29	3,25	3,20
COP (4)		kW/kW	4,08	4,15	4,15	4,17	4,09	4,29	4,25	4,20
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m ³ /h	8,7	10,1	11,3	13,3	14,9	17,2	21,6	28,0
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m ³ /h	11,5	13,3	14,9	17,5	19,6	22,4	28,2	36,7
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)		kPa	52,3	41,9	50,3	45,3	43,2	56,6	47,2	49,5
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)		kPa	42,9	57,0	71,0	52,7	70,0	71,0	51,0	53,5

FRIGORIFIC SECTION

COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2
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HYDRAULIC SECTION (6)

EVAPORATORS / CONDENSERS	nr.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m ³ /h	8÷17	8÷17	8÷17	8÷17	10÷22	15÷27	15÷32	15÷38
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	8÷17	8÷17	8÷17	10÷22	10÷22	14÷27	14÷37	20÷42
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	2"	DN65	DN65	DN65
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	2"	DN65	DN65	DN80

TOTAL ELECTRIC DATA

MAXIMUM ABSORBED CURRENT (F.L.A)	A	38,4	43,7	49,0	60,0	65,2	70,4	87,7	118,6
MAXIMUM PEAK CURRENT (L.R.A)	A	137,2	159,2	164,5	204,0	270,8	276,0	331,4	369,3
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	113,6	131,2	136,5	169,2	222,6	227,8	273,9	307,3

NOISE DATA (7)

SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	49,0	50,1	51,0	52,0	56,0	58,0	58,0	60,0
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	44,0	45,1	46,0	47,0	51,0	53,0	53,0	55,0

DIMENSIONS AND WEIGHT

LENGTH	mm	1250	1250	1250	1250	1750	1750	1750	1750
WIDTH	mm	750	750	750	750	800	800	800	800
HEIGHT	mm	1700	1700	1700	1700	1900	1900	1900	1900
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	375	385	395	420	750	800	860	930
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	390	405	415	440	790	850	920	1000

The manufacturer reserves the right to modify specifications without notice.

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Data referred to:

- (1) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +30/35°C (fluid = Water)
- (2) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water)
- (3) Pressure drops taken in account: heat exchanger, valves, piping
- (4) Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- (5) Data referred to standard chiller configuration (no one condensing temperature control system), with different condensing temperature control system this data will change
- (6) You can match a hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Weight will be confirmed in case of order

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TECHNICAL DATA

PERFORMANCES

	Model	200	230	280	340	370	430	
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	204,1	226,7	284,7	326,8	368,8	419,8
	NOMINAL HEATING CAPACITY (4)	kW	249,6	276,6	348,0	401,1	452,3	514,3
	TOTAL NOMINAL ABSORBED POWER	kW	45,5	49,9	63,3	74,4	83,4	94,6
	EER	kW/kW	4,49	4,54	4,50	4,39	4,42	4,44
	COP (4)	kW/kW	5,49	5,54	5,50	5,39	5,42	5,44
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	35,0	38,9	48,8	56,0	63,2	72,0
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	21,4	23,7	29,8	34,4	38,8	44,1
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	59,9	72,0	60,1	62,2	63,0	63,0
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	78,3	79,5	58,0	47,8	59,7	62,8
	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	180,4	200,4	251,6	288,8	326,0
NOMINAL HEATING CAPACITY (4)		kW	236,0	261,4	329,0	379,7	428,0	486,6
TOTAL NOMINAL ABSORBED POWER		kW	55,6	61,0	77,4	90,9	102,0	115,6
EER		kW/kW	3,24	3,29	3,25	3,18	3,20	3,21
COP (4)		kW/kW	4,24	4,29	4,25	4,18	4,20	4,21
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m ³ /h	31,0	34,5	43,3	49,7	56,1	63,8
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m ³ /h	20,2	22,4	28,2	32,6	36,7	41,7
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)		kPa	47,1	56,6	47,2	48,9	49,5	49,5
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)		kPa	70,0	71,0	51,8	42,8	53,5	56,2
FRIGORIFIC SECTION								
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	
HYDRAULIC SECTION (6)								
EVAPORATORS / CONDENSERS	nr.	2/2	2/2	2/2	2/2	2/2	2/2	
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m ³ /h	20÷53	20÷53	20÷53	35÷85	35÷85	35÷85	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	14÷25	14÷25	20÷40	20÷42	20÷42	34÷58	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	DN80	DN80	DN80	DN100	DN100	DN100	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	2 x DN65	2 x DN65	2 X DN80	2 X DN80	2 X DN80	2 X DN100	
TOTAL ELECTRIC DATA								
MAXIMUM ABSORBED CURRENT (F.L.A)	A	130,4	140,8	175,5	207,8	237,2	266,2	
MAXIMUM PEAK CURRENT (L.R.A)	A	336,0	346,4	419,1	458,5	487,9	600,4	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	287,8	298,2	361,6	396,5	425,9	518,8	
NOISE DATA (7)								
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	59,0	61,0	61,0	63,0	63,0	65,5	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	54,0	56,0	56,0	58,0	58,0	60,5	
DIMENSIONS AND WEIGHT								
LENGTH	mm	3000	3000	3000	3500	3500	3500	
WIDTH	mm	800	800	800	900	900	900	
HEIGHT	mm	2000	2000	2000	2300	2300	2300	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	1100	1120	1150	1320	1490	1660	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	1180	1210	1250	1350	1500	1680	

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