



TEAM
AIR POWER

CFTW SERIES



DISCOVER HITEMA® CUSTOMIZED APPLICATIONS

choose your customized configuration



ENR/ENRF SERIES
1,6kW ÷ 440kW

CSE SERIES
30kW ÷ 377kW

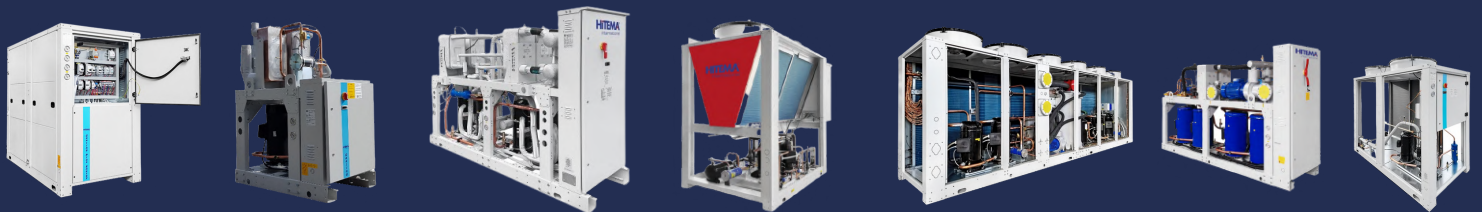
CFT SERIES
7,9kW ÷ 410kW

ENR-IR SERIES
8kW ÷ 200kW

ENRC SERIES
7,4kW ÷ 375kW

HNR SERIES
14kW ÷ 95kW
15kW ÷ 104kW

UNTIL 400KW



ENW SERIES
3,8kW ÷ 424kW

CFTW SERIES
50kW ÷ 371kW

HFTW SERIES
100kW ÷ 400kW
80kW ÷ 370kW

SBS-HP SERIES
61,2kW - 81,4kW -
105,8kW

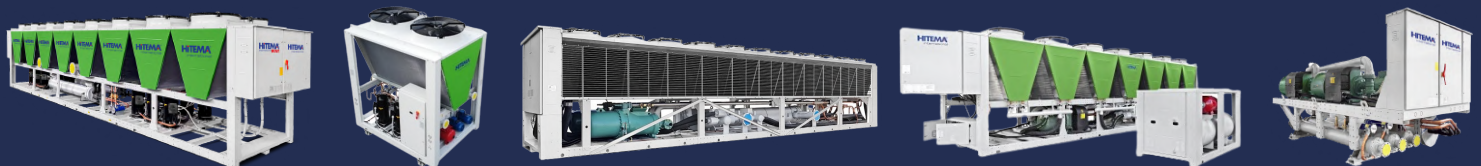
HFT SERIES
16kW ÷ 345kW

CFTC SERIES
50kW ÷ 370kW

MTC SERIES
8kW ÷ 430kW

CUSTOMIZED FOR YOU

with more than 100 OPTIONS available it is easy to customized your Chillers



SBS/SBSF SERIES
SBSF-OPT SERIES
94kW ÷ 1288kW

SBS-MC SERIES
95kW ÷ 180kW

NOVA/NOVAF SERIES
266kW ÷ 2136kW

DTS/DTSF SERIES **NEW!**
ISV-ISVF SERIES
266kW ÷ 2136kW

EWB SERIES
291kW ÷ 2240kW

UNTIL 3000KW



CWB SERIES
291kW ÷ 2240kW

HBS SERIES
211kW - 750kW

TFW SERIES
250kW ÷ 3000kW

TFV/TFVF SERIES
250kW ÷ 1215kW

PRP/HPRP SERIES
130kW ÷ 520kW
55kW ÷ 330kW

HYD SERIES
400L ÷ 5000L

CFTW SERIES

*Water-cooled liquid
Chillers*

*Open cabinet with compact footprint
IP54 protection rating
Suitable for INDOOR installation*



SERIES: CFTW	DATE: 29/09/2021
CODE: TTD-CFTW-00	UPDATE: -
CHECKED BY:	M. Burba



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	075	090	100	130	160	185	200	
NOMINAL COOLING CAPACITY	W 12/7°C EVAPORATOR SIDE W 30/55°C CONDENSER SIDE (1)	kW	57,5	74,4	87,6	97,8	113,4	142,3	184,4	204,1	
		NOMINAL HEATING CAPACITY (4)	kW	71,0	91,5	107,5	120,8	138,3	174,0	226,1	249,6
		TOTAL NOMINAL ABSORBED POWER	kW	13,5	17,1	20,0	22,9	25,0	31,7	41,7	45,5
		EER	kW/kW	4,26	4,35	4,39	4,27	4,54	4,50	4,42	4,49
		COP (4)	kW/kW	5,26	5,35	5,39	5,27	5,54	5,50	5,42	5,49
		SEPR (HT) (9)		7,01	7,03	7,01	7,07	7,06	7,07	7,02	7,03
		NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	9,9	12,8	15,0	16,8	19,4	24,4	31,6	35,0
		NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	12,2	15,7	18,4	20,7	23,7	29,8	38,8	21,4
		MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	66,5	64,0	57,6	55,0	72,0	60,1	63,0	59,9
		MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	47,7	79,2	58,8	77,9	79,5	57,1	59,7	78,3
NOMINAL COOLING CAPACITY	W 12/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	kW	50,8	65,8	77,4	86,5	100,2	125,8	163,0	180,4	
		NOMINAL HEATING CAPACITY (4)	kW	67,3	86,7	101,8	114,5	130,7	164,5	214,0	236,0
		TOTAL NOMINAL ABSORBED POWER	kW	16,5	20,9	24,4	28,0	30,5	38,7	51,0	55,6
		EER	kW/kW	3,08	3,15	3,17	3,09	3,29	3,25	3,20	3,24
		COP (4)	kW/kW	4,08	4,15	4,17	4,09	4,29	4,25	4,20	4,24
		NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	8,7	11,3	13,3	14,9	17,2	21,6	28,0	31,0
		NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	11,5	14,9	17,5	19,6	22,4	28,2	36,7	20,2
		MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	52,3	50,3	45,3	43,2	56,6	47,2	49,5	47,1
		MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	42,9	71,0	52,7	70,0	71,0	51,0	53,5	70,0
		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	4/2/4	
HYDRAULIC SECTION (6)											
EVAPORATORS / CONDENSERS	nr.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	2/2	
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	8÷17	8÷17	8÷17	10÷22	15÷27	15÷32	15÷38	20÷53	20÷53	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	8÷17	8÷17	10÷22	10÷22	14÷27	14÷37	20÷42	14÷25	14÷25	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	DN65	DN65	DN65	DN80	DN80	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	DN65	DN65	DN80	2 x DN65	2 x DN65	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A)	A	40,3	49,0	60,0	65,2	70,4	87,7	118,6	130,4	130,4	
MAXIMUM PEAK CURRENT (L.R.A)	A	159,1	164,5	204,0	270,8	276,0	331,4	369,3	336,0	336,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	131,3	136,5	169,2	222,6	227,8	273,9	307,3	287,8	287,8	
NOISE DATA (7)											
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	47,0	51,0	52,0	56,0	58,0	58,0	60,0	59,0	59,0	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	42,0	46,0	47,0	51,0	53,0	53,0	55,0	54,0	54,0	
DIMENSIONS AND WEIGHT											
LENGTH	mm	1250	1250	1250	1750	1750	1750	1750	1750	3000	
WIDTH	mm	750	750	750	800	800	800	800	800	800	
HEIGHT	mm	1700	1700	1700	1900	1900	1900	1900	1900	2000	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	375	395	420	750	800	860	930	1100	1100	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	390	415	440	790	850	920	1000	1180	1180	

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/03/2021
Revision: 01-2021

Data referred to:

- Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +30/35°C (fluid = Water)
- Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water)
- Pressure drops taken in account: heat exchanger, valves, piping
- Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- Data referred to standard chiller configuration (no one condensing temperature control system), with different condensing temperature control system this data will change
- You can match an hydromodule with this chiller:
- Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- Weight will be confirmed in case of order
- SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

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.
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TECHNICAL DATA

PERFORMANCES		Model	230	280	340	370	430
W 12/7°C EVAPORATOR SIDE W 30/5°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	226,7	284,7	326,8	368,8	419,8
	NOMINAL HEATING CAPACITY (4)	kW	276,6	348,0	401,1	452,3	514,3
	TOTAL NOMINAL ABSORBED POWER	kW	49,9	63,3	74,4	83,4	94,6
	EER	kW/kW	4,54	4,50	4,39	4,42	4,44
	COP (4)	kW/kW	5,54	5,50	5,39	5,42	5,44
	SEPR (HT) (9)		7,05	7,02	7,06	7,06	8,01
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	38,9	48,8	56,0	63,2	72,0
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	23,7	29,8	34,4	38,8	44,1
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	72,0	60,1	62,2	63,0	63,0
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	79,5	58,0	47,8	59,7	62,8
W 12/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	200,4	251,6	288,8	326,0	371,0
	NOMINAL HEATING CAPACITY (4)	kW	261,4	329,0	379,7	428,0	486,6
	TOTAL NOMINAL ABSORBED POWER	kW	61,0	77,4	90,9	102,0	115,6
	EER	kW/kW	3,29	3,25	3,18	3,20	3,21
	COP (4)	kW/kW	4,29	4,25	4,18	4,20	4,21
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	34,5	43,3	49,7	56,1	63,8
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	22,4	28,2	32,6	36,7	41,7
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	56,6	47,2	48,9	49,5	49,5
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	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	
HYDRAULIC SECTION (6)							
EVAPORATORS / CONDENSERS	nr.	2/2	2/2	2/2	2/2	2/2	
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	20÷53	20÷53	35÷85	35÷85	35÷85	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	14÷25	20÷40	20÷42	20÷42	34÷58	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	DN80	DN80	DN100	DN100	DN100	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	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	140,8	175,5	207,8	237,2	266,2	
MAXIMUM PEAK CURRENT (L.R.A)	A	346,4	419,1	458,5	487,9	600,4	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	298,2	361,6	396,5	425,9	518,8	
NOISE DATA (7)							
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	61,0	61,0	63,0	63,0	65,5	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	56,0	56,0	58,0	58,0	60,5	
DIMENSIONS AND WEIGHT							
LENGTH	mm	3000	3000	3500	3500	3500	
WIDTH	mm	800	800	900	900	900	
HEIGHT	mm	2000	2000	2300	2300	2300	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	1120	1150	1320	1490	1660	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	1210	1250	1350	1500	1680	

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Revision: 01-2021

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