



TEAM
AIR POWER

TVF / TVFF SERIES



DISCOVER HITEMA® CUSTOMIZED APPLICATIONS

choose your customized configuration



ENR/ENRF SERIES
1,6kW ÷ 440kW

CSE SERIES
30kW ÷ 377kW

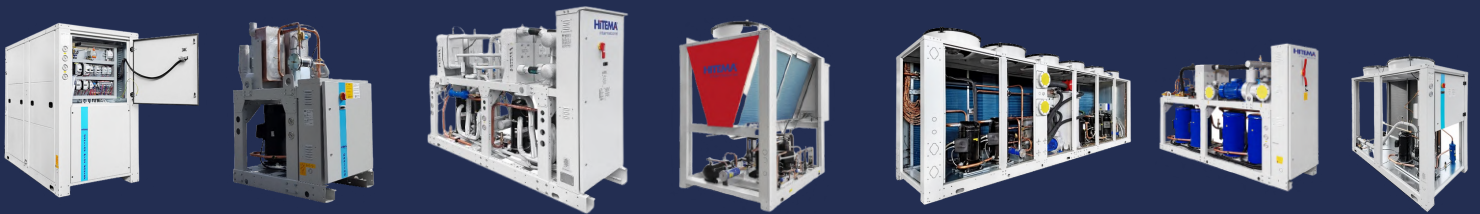
CFT SERIES
7,9kW ÷ 410kW

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

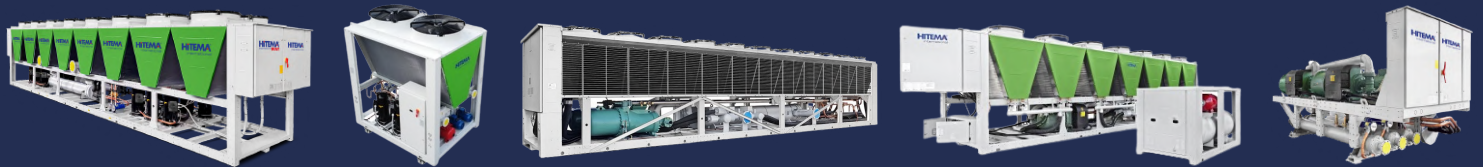
HFT SERIES
16kW ÷ 345kW

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

TURBOCOR

R134A / R513A / R1234ZE

Turbocor compressors

Hybrid falling film/flooded evaporator

Inbuilt water storage tank & single pump P3 as option

TFV - TFVF - TFW series

From 233 kW up to 3104 kW



Technical Data Tables

SERIES: TFV-TFVF-TFW	DATE: 19.05.2022
CODE: GPLSPC20	UPDATE: GPLSPC19
CHECKED BY:	M. Buiba



TFV SERIES

Air-Cooled liquid Chillers, turbocor compressor

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



SERIES: TFV-TFVF	DATE: 04/10/2021
CODE: TTD-TFV-01	UPDATE: -
CHECKED BY:	M. Buiba



Air-cooled liquid chillers TFV series, turbocore compressors, R134A / R513A / R1234ze refrigerant, hybrid falling film/flooded evaporator, brazed plate economizer, condenser coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt single or double pumps P3 as option. Microchannel condenser coils as option.

Type of available evaporators:
HYB = hybrid falling film / flooded

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

TECHNICAL DATA

PERFORMANCES		Model	620	700	780	850	920	1004	1110	1215
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	620,0	700,0	780,0	850,0	920,0	1004,0	1110,0	1215,0
TOTAL NOMINAL ABSORBED POWER		kW	171,1	195,7	224,3	234,4	260,1	273,3	321,7	338,8
EER		kW/kW	3,62	3,58	3,48	3,63	3,54	3,67	3,45	3,59
SEPR (HT) (3)		-	5,57	5,56	5,51	5,57	5,55	5,52	5,52	5,51
NOMINAL WATER FLOW		m ³ /h	106,5	120,3	134,0	146,0	158,1	172,5	190,7	208,7
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	55	64	68	65	68	66	76	89
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.		2/2/20÷102%	2/2/20÷102%	2/2/17÷106%	2/2/16÷100%	2/2/16÷100%	3/3/22÷112%	3/3/22÷100%	3/3/22÷100%
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER		YES	NO	NO	YES	YES	NO	NO	YES	
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h		94,0÷188,0	102,0÷203,0	108,0÷210,0	117,0÷210,0	124,0÷227,0	125,0÷250,0	141,0÷270,0	141,0÷270,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	16,22	23,51	23,51	23,51	31,88	31,88	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	26,60	39,00	39,00	39,00	53,50	53,50	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,09	39,09	39,09	39,09	39,09	47,31**	47,31**	47,31**
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,60	65,60	65,60	65,60	65,60	77,60	77,60	77,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)	DN	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200	
FAN SECTION (AXIAL)										
FANS	nr.		10	12	14	14	16	18	18	18
MAXIMUM FANS ABSORBED POWER	EC	kW	18,40	22,08	25,76	25,76	29,44	33,12	33,12	33,12
MAXIMUM FANS ABSORBED CURRENT		A	38,30	45,96	53,62	53,62	61,28	68,94	68,94	68,94
TOTAL AIR FLOW		m ³ /h	206000	247200	288400	288400	329600	370800	370800	370800
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A		308,3	466,0	473,6	473,6	481,3	698,9	698,9	698,9
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)		67,1	68,1	68,3	68,3	68,6	69,8	69,8	69,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)	dB(A)		64,8	65,6	66,1	66,1	66,5	67,4	67,4	67,4
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)	dB(A)		63,0	63,9	64,3	64,3	64,6	65,7	65,7	65,7
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)	dB(A)		61,8	62,6	63,1	63,1	63,5	64,4	64,4	64,4
DIMENSIONS AND WEIGHT										
LENGTH	mm		8500	9800	9800	11100	11100	12400	12400	12400
WIDTH	mm		2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm		2450	2450	2450	2450	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg		5900	6550	6730	7450	7700	9100	9600	9600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg		6200	6900	7100	7900	8200	9650	10200	10200

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) 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
- (4) Pressure drops taken in account: evaporator, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (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) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160

** pump P5 includes the soft start (SF) option

TFVF SERIES

*Freecooling liquid chillers, turbocor compressors
EC axial fans
IP54 protection rating
Suitable for OUTDOOR installation*



SERIES: TFV-TFVF	DATE: 04/10/2021
CODE: TTD-TFVF-01	UPDATE: -
CHECKED BY:	M. Buiba



Air-cooled liquid chillers TFVF series, turbocore compressors, R134A / R513A / R1234ze refrigerant, hybrid falling film/flooded evaporator, brazed plate economizer, condenser and freecooling coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt single or double pumps P3 as option. Microchannel condenser coils as option.

Type of available evaporators:
HYB = hybrid falling film / flooded

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

TECHNICAL DATA

PERFORMANCES		Model	250	280	310	350	390	440	500	560
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	250,0	280,0	310,0	350,0	390,0	440,0	500,0	560,0
TOTAL NOMINAL ABSORBED POWER		kW	70,7	83,8	86,6	99,7	111,7	124,8	141,1	167,1
EER		kW/kW	3,53	3,34	3,58	3,51	3,49	3,53	3,54	3,35
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	2,45	1,75	2,85	2,15	2,85	2,10	2,45	1,75
NOMINAL WATER FLOW		m ³ /h	43,0	48,1	53,3	60,1	67,0	75,6	85,9	96,2
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	47	58	58	53	53	61	49	48
FREE COOLING MODE PRESSURE DROPS (5)		kPa	120	143	136	144	129	139	129	142
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	1/1/27÷108%	1/1/25÷100%	1/1/20÷101%	1/1/20÷100%	1/1/16÷102%	1/1/16÷100%	2/2/26÷102%	2/2/25÷100%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER										
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	plate
HYDRAULIC SECTION										
WATER FLOW RANGE (7)	m ³ /h	32,0÷72,0	33,0÷82,0	49,0÷90,0	49,0÷108,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	10,20	10,20	10,20	16,22	16,22	16,22	16,22	24,85
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	17,40	17,40	17,40	26,60	26,60	26,60	26,60	42,20
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19,94	19,94	19,94	19,94	31,88	31,88	31,88	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32,70	32,70	32,70	32,70	53,50	53,50	53,50	65,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)	DN	DN100	DN100	DN125	DN125	DN125	DN125	DN150	DN150	DN150
FAN SECTION (AXIAL)										
FANS	nr.	6	6	8	8	10	10	12	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	11,04	11,04	14,72	14,72	18,40	18,40	22,08	22,08
MAXIMUM FANS ABSORBED CURRENT		A	22,98	22,98	30,64	30,64	38,30	38,30	45,96	45,96
TOTAL AIR FLOW	m ³ /h	123600	123600	164800	164800	206000	206000	247200	247200	247200
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	158,0	158,0	165,6	240,6	248,3	248,3	326,0	316,0	316,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	64,4	64,4	65,0	65,6	66,0	66,0	67,5	67,5	67,5
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	62,3	62,3	63,2	63,5	64,2	64,2	65,3	65,3	65,3
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	60,4	60,4	61,1	61,6	62,1	62,1	63,4	63,4	63,4
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	59,3	59,3	60,2	60,5	61,2	61,2	62,3	62,3	62,3
DIMENSIONS AND WEIGHT										
LENGTH	mm	4600	4600	5900	5900	7200	7200	8500	8500	8500
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	3168	3208	4044	4160	4858	4923	5200	5250	5250
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	3476	3523	4448	4577	5369	5445	5912	5983	5983

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) 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
- (4) Pressure drops taken in account: evaporator, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (no pump) and EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160

** pump P5 includes the soft start (SF) option

Air-cooled liquid chillers TFVF series, turbocore compressors, R134A / R513A / R1234ze refrigerant, hybrid falling film/flooded evaporator, brazed plate economizer, condenser and freecooling coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt single or double pumps P3 as option. Microchannel condenser coils as option.

Type of available evaporators:
HYB = hybrid falling film / flooded

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

TECHNICAL DATA

PERFORMANCES		Model	620	700	780	850	920
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	620,0	700,0	780,0	850,0	920,0
TOTAL NOMINAL ABSORBED POWER		kW	178,5	203,0	227,9	241,7	273,1
EER		kW/kW	3,47	3,45	3,42	3,52	3,37
SEPR (HT) (3)		-	5,57	5,56	5,51	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	2,10	2,15	1,45	1,65	1,10
NOMINAL WATER FLOW		m3/h	106,5	120,3	134,0	146,0	158,1
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	55	64	68	65	68
FREE COOLING MODE PRESSURE DROPS (5)	kPa	139	153	172	155	168	
FRIGORIFIC SECTION							
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	2/2/20±102%	2/2/20±102%	2/2/17±106%	2/2/16±100%	2/2/16±100%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	
ECONOMIZER		YES	NO	NO	YES	YES	
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	
HYDRAULIC SECTION							
WATER FLOW RANGE (7)	m3/h	94,0÷188,0	102,0÷203,0	108,0÷210,0	117,0÷210,0	124,0÷227,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	24,85	24,85	31,88	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	42,20	42,20	53,50	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,09	39,09	57,65*	57,65*	57,65*
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,60	65,60	93,50	93,50	93,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)	DN	DN150	DN150	DN200	DN200	DN200	
FAN SECTION (AXIAL)							
FANS	nr.	14	16	16	18	18	
MAXIMUM FANS ABSORBED POWER	EC	kW	25,76	29,44	29,44	33,12	33,12
MAXIMUM FANS ABSORBED CURRENT		A	53,62	61,28	61,28	68,94	68,94
TOTAL AIR FLOW	m3/h	288400	329600	329600	370800	370800	
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	323,6	481,3	481,3	488,9	488,9	
NOISE DATA							
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	67,8	68,6	68,6	68,8	68,8	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	65,8	66,5	66,5	66,9	66,9	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	63,8	64,6	64,6	64,9	64,9	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	62,8	63,5	63,5	63,9	63,9	
DIMENSIONS AND WEIGHT							
LENGTH	mm	9800	11100	11100	12790	12790	
WIDTH	mm	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	5900	6550	6730	7450	7700	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	7010	7632	7661	8493	8862	

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) 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
- (4) Pressure drops taken in account: evaporator, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (no pump) and EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160

** pump P5 includes the soft start (SF) option

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