TEAM
AIR POWER

TFW SERIES

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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

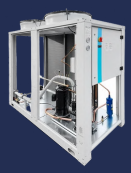
HNR SERIES
14kW ÷ 95kW
15kW ÷ 104kW

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

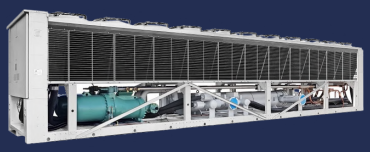
CFTC SERIES
50kW ÷ 370kW

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

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TFW SERIES

Watercooled liquid chillers,
turbocor compressors
IP54 protection rating
Suitable for INDOOR and OUTDOOR installation

SERIES: TFW	DATE: 04/10/2021
CODE: TTD-TFW-01	UPDATE: -
CHECKED BY	M. Burba

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TFW

TABLE 1/3

Watercooled liquid chillers TFW series, turbocor compressors, R134a / R513a refrigerant (R1234ze on request), 1 flooded or hybrid faling film evaporator, shell and tube condensers, electronic expansion valves, 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 compressors starting method:
INVERTER

TECHNICAL DATA

PERFORMANCES		Model	240	300	350	430	500	610	700	870
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (1)	kW	232,8	291,0	339,5	417,1	485,0	591,7	679,0	834,2
NOMINAL HEATING CAPACITY (4)		kW	277,8	353,4	404,6	504,9	579,8	720,2	809,2	1009,9
TOTAL NOMINAL ABSORBED POWER		kW	45,0	62,4	65,1	87,8	94,8	128,5	130,2	175,7
EER		kW/kW	5,17	4,67	5,22	4,75	5,12	4,61	5,22	4,75
COP (4)		kW/kW	6,17	5,67	6,22	5,75	6,12	5,61	6,22	5,75
SEPR (HT) (10)		-	7,03	7,03	8,01	8,02	8,04	8,05	8,02	8,06
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	39,9	49,9	58,2	71,5	83,2	101,5	116,4	143,0
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	47,6	60,6	69,4	86,6	99,4	123,5	138,8	173,2
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)		kPa	34,5	43,4	42,2	46,2	41,8	50,9	55,9	69,2
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)		kPa	11,5	12,5	13,4	15,4	41,2	39,4	39,3	40,3
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (2)	kW	240,0	300,0	350,0	430,0	500,0	610,0	700,0	860,0
NOMINAL HEATING CAPACITY (4)		kW	283,7	360,5	413,2	515,3	592,0	734,7	826,4	1030,6
TOTAL NOMINAL ABSORBED POWER		kW	43,7	60,5	63,2	85,3	92,0	124,7	126,4	170,6
EER		kW/kW	5,49	4,96	5,54	5,04	5,43	4,89	5,54	5,04
COP (4)		kW/kW	6,49	5,96	6,54	6,04	6,43	5,89	6,54	6,04
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	41,2	51,4	60,0	73,7	85,7	104,6	120,0	147,5
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	48,6	61,8	70,9	88,4	101,5	126,0	141,7	176,7
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)		kPa	36,7	46,1	44,8	49,1	44,4	54,1	59,4	73,6
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)		kPa	12,0	13,0	14,0	16,0	43,0	41,0	41,0	42,0
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS		nr.	1/1/1	1/1/1	1/1/1	1/1/1	2/1/1	2/1/1	2/1/1	2/1/1
COMPRESSORS STARTING METHOD		-	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER
HYDRAULIC SECTION (6)										
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)		m3/h	32÷64	36÷73	43÷86	63÷126	73÷140	85÷160	85÷160	97÷195
WATER FLOW RANGE, CONDENSER SIDE (EACH)		m3/h	40÷80	52÷104	59÷119	68÷136	70÷139	75÷150	75÷160	93÷187
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)		DN	100	100	125	125	150	150	150	150
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)		DN	100	125	125	125	125	150	150	150
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)		A	145,0	145,0	231,0	231,0	290,0	290,0	462,0	462,0
MAXIMUM PEAK CURRENT (L.R.A) (9)		A	20,0	20,0	20,0	20,0	165,0	165,0	251,0	251,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)		A	16,0	16,0	16,0	16,0	161,0	161,0	247,0	247,0
NOISE DATA (7)										
SOUND PRESSURE FOR STANDARD CONFIGURATION		dB(A)	62,0	62,0	63,0	63,0	65,0	65,0	66,0	66,0
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)		dB(A)	57,0	57,0	58,0	58,0	60,0	60,0	61,0	61,0
DIMENSIONS AND WEIGHT										
LENGTH		mm	2600	2600	2600	2600	3900	3900	4000	4000
WIDTH		mm	1500	1500	1500	1500	1600	1600	1600	1600
HEIGHT		mm	2000	2000	2000	2000	2000	2000	2000	2000
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)		kg	2250	2850	2900	3000	3650	3700	3800	3900
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)		kg	2380	3000	3070	3200	3890	3990	4120	4300

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/12/2021
Revision: 00-2021

Data referred to:

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(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
(9) Data referred to standard compressors starting method, with different starting method this data will change
(10) 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

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TABLE 2/3

Watercooled liquid chillers TFW series, turbocor compressors, R134a / R513a refrigerant (R1234ze on request), 1 flooded or hybrid faling film evaporator, shell and tube condensers, electronic expansion valves, open cabinet and compact design to fit in narrow spaces.
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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 compressors starting method:
INVERTER

TECHNICAL DATA

PERFORMANCES		Model	930	1050	1290	1460	1730	1960	2150	2450
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (1)	kW	902,1	1018,5	1251,3	1416,2	1668,4	1901,2	2085,5	2374,6
NOMINAL HEATING CAPACITY (4)		kW	1104,3	1213,7	1514,8	1690,6	2019,8	2279,6	2524,7	2857,3
TOTAL NOMINAL ABSORBED POWER		kW	202,2	195,2	263,5	274,4	351,4	378,4	439,2	482,7
EER		kW/kW	4,46	5,22	4,75	5,16	4,75	5,02	4,75	4,92
COP (4)		kW/kW	5,46	6,22	5,75	6,16	5,75	6,02	5,75	5,92
SEPR (HT) (10)		-	7,06	7,02	7,01	8,05	8,00	8,04	8,06	8,06
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	154,7	174,7	214,6	242,9	286,1	326,0	357,6	407,2
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	189,4	208,1	259,8	289,9	346,4	390,9	432,9	490,0
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)		kPa	537,1	471,2	616,6	474,9	375,4	463,5	382,9	518,1
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)		kPa	36,5	37,4	35,5	37,4	43,2	41,3	44,2	40,3
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (2)	kW	930,0	1050,0	1290,0	1460,0	1720,0	1960,0	2150,0	2448,0
NOMINAL HEATING CAPACITY (4)		kW	1126,3	1239,5	1545,8	1726,4	2061,1	2327,4	2576,4	2916,7
TOTAL NOMINAL ABSORBED POWER		kW	196,3	189,5	255,8	266,4	341,1	367,4	426,4	468,7
EER		kW/kW	4,74	5,54	5,04	5,48	5,04	5,33	5,04	5,22
COP (4)		kW/kW	5,74	6,54	6,04	6,48	6,04	6,33	6,04	6,22
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	159,5	180,1	221,2	250,4	294,9	336,1	368,7	419,8
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	193,1	212,6	265,1	296,0	353,4	399,1	441,8	500,2
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)		kPa	570,9	500,8	655,3	504,7	398,9	492,7	407,0	550,7
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)		kPa	38,0	39,0	37,0	39,0	45,0	43,0	46,0	42,0
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS		nr.	3/1/1	3/1/1	3/1/1	4/1/1	4/1/1	5/1/1	5/1/1	6/1/1
COMPRESSORS STARTING METHOD		-	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER
HYDRAULIC SECTION (6)										
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)		m3/h	32÷59	39÷78	45÷91	52÷103	58÷116	71÷142	81÷162	96÷192
WATER FLOW RANGE, CONDENSER SIDE (EACH)		m3/h	102÷204	130÷225	140÷323	165÷380	195÷395	201÷442	212÷488	252÷580
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)		DN	150	150	200	200	250	250	250	300
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)		DN	150	200	200	200	250	250	250	300
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)		A	435,0	693,0	693,0	924,0	924,0	1155,0	1155,0	1386,0
MAXIMUM PEAK CURRENT (L.R.A) (9)		A	310,0	482,0	482,0	713,0	713,0	944,0	944,0	1175,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)		A	306,0	478,0	478,0	709,0	709,0	940,0	940,0	1171,0
NOISE DATA (7)										
SOUND PRESSURE FOR STANDARD CONFIGURATION		dB(A)	66,8	67,8	67,8	69,0	69,0	70,0	70,0	70,8
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)		dB(A)	61,8	62,8	62,8	64,0	64,0	65,0	65,0	65,8
DIMENSIONS AND WEIGHT										
LENGTH		mm	4200	4200	4200	5000	5000	5000	5000	6000
WIDTH		mm	1800	1800	1800	2210	2210	2210	2210	2210
HEIGHT		mm	2100	2100	2100	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)		kg	4250	4650	5250	6300	7180	7950	8380	8530
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)		kg	4720	5200	5850	7120	8180	9050	9570	10000

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Last update: 22/12/2021
Revision: 00-2021

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TABLE 3/3

Watercooled liquid chillers TFW series, turbocor compressors, R134a / R513a refrigerant (R1234ze on request), 1 flooded or hybrid faling film evaporator, shell and tube condensers, electronic expansion valves, open cabinet and compact design to fit in narrow spaces.
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PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of compressors starting method:
INVERTER

TECHNICAL DATA

PERFORMANCES		Model	2600	2950	3200
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	kW	2473,5	2858,6	3104,0
NOMINAL HEATING CAPACITY (4)		kW	2989,9	3451,4	3728,1
TOTAL NOMINAL ABSORBED POWER		kW	516,4	592,8	624,1
EER		kW/kW	4,79	4,82	4,97
COP (4)		kW/kW	5,79	5,82	5,97
SEPR (HT) (10)		-	8,01	8,04	8,02
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	424,2	490,2	532,3
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	512,7	591,9	639,3
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)		kPa	439,5	457,3	489,5
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)		kPa	44,2	44,2	45,1
NOMINAL COOLING CAPACITY	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	kW	2550,0	2947,0	3200,0
NOMINAL HEATING CAPACITY (4)		kW	3051,4	3522,5	3805,9
TOTAL NOMINAL ABSORBED POWER		kW	501,4	575,5	605,9
EER		kW/kW	5,09	5,12	5,28
COP (4)		kW/kW	6,09	6,12	6,28
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	437,3	505,4	548,7
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	523,3	604,1	652,6
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)		kPa	467,1	486,0	520,2
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)		kPa	46,0	46,0	47,0
FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS		nr.	6/1/1	7/1/1	8/1/1
COMPRESSORS STARTING METHOD		-	INVERTER	INVERTER	INVERTER
HYDRAULIC SECTION (6)					
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)		m3/h	120÷224	129÷258	147÷294
WATER FLOW RANGE, CONDENSER SIDE (EACH)		m3/h	265÷600	305÷671	329÷800
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)		DN	300	300	300
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)		DN	300	300	300
TOTAL ELECTRIC DATA					
MAXIMUM ABSORBED CURRENT (F.L.A)		A	1386,0	1617,0	1848,0
MAXIMUM PEAK CURRENT (L.R.A) (9)		A	1175,0	1406,0	1637,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)		A	1171,0	1402,0	1633,0
NOISE DATA (7)					
SOUND PRESSURE FOR STANDARD CONFIGURATION		dB(A)	70,8	71,5	72,0
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)		dB(A)	65,8	66,5	67,0
DIMENSIONS AND WEIGHT					
LENGTH		mm	6200	7400	7400
WIDTH		mm	2210	2210	2210
HEIGHT		mm	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)		kg	9000	9600	10300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)		kg	10500	11400	11600

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