

6 GENERAL TECHNICAL DATA

Data Book

TX2-W-G04/H 0251 - 2064_202209_EN R1234ze

[SI System]

TX2-W-G04/H			0251	0351	0511	0602	0702	0872	1022	1203	1314	1363
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE												
PERFORMANCE MAX												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)(4)	kW	254,7	354,0	522,2	611,0	709,2	874,7	1041	1208	1319	1383
Total power input	(1)(4)	kW	49,28	64,91	109,3	114,0	131,2	174,7	218,9	242,2	235,5	290,8
EER	(1)(4)	kW/kW	5,166	5,455	4,778	5,360	5,405	5,007	4,756	4,988	5,601	4,756
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(2)(4)	kW	297,9	406,7	643,6	731,1	828,8	1034	1269	1398	1576	1650
Total power input	(2)(4)	kW	59,28	84,30	137,4	144,7	169,7	220,6	272,4	299,6	309,8	357,0
COP	(2)(4)	kW/kW	5,024	4,824	4,684	5,053	4,884	4,687	4,659	4,666	5,087	4,622
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)(4)	l/s	12,18	16,93	24,97	29,22	33,91	41,83	49,80	57,78	63,10	66,13
Pressure drop at the heat exchanger	(1)(4)	kPa	38,4	74,3	31,0	32,6	57,2	57,8	38,6	58,4	45,4	38,0
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(2)(4)	l/s	14,38	19,63	31,07	35,29	40,01	49,89	61,23	67,51	76,07	79,67
Pressure drop at the heat exchanger	(2)(4)	kPa	36,4	36,7	35,0	36,3	46,7	40,0	40,3	33,1	37,5	38,7
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(1)(4)	l/s	14,48	19,97	30,07	34,55	40,05	49,98	60,00	69,08	74,13	79,69
Pressure drop at the heat exchanger	(1)(4)	kPa	37,0	37,9	32,8	34,8	46,8	40,1	38,7	34,6	35,6	38,7
HEAT EXCHANGER SOURCE SIDE IN HEATING												
Water flow	(2)(4)	l/s	17,61	17,61	40,28	45,83	40,28	50,00	72,22	61,95	85,28	87,78
Pressure drop at the heat exchanger	(2)(4)	kPa	80,4	80,4	80,7	80,3	80,7	82,6	81,1	67,1	82,9	66,9
NOISE LEVEL												
Total sound Pressure	(7)(4)	dB(A)	75	76	78	76	77	78	79	79	78	80
Total sound power level in cooling	(1)(4)(8)	dB(A)	93	94	96	95	96	97	98	98	98	99
Sound power level in heating	(2)(4)(8)	dB(A)	93	94	96	95	96	97	98	98	98	99
SELEZIONE NOMINALE - DATI CERTIFICATI EUROVENT												
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(3)(5)	kW	209,3	299,8	425,2	511,6	601,6	725,4	850,5	1016	1108	1146
EER	(1)(3)(5)	kW/kW	5,670	5,780	6,040	5,870	5,790	5,880	5,980	5,750	6,070	5,830
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(2)(3)(5)	kW	263,6	366,2	546,0	642,2	743,4	907,5	1091	1245	1394	1448
COP	(2)(3)(5)	kW/kW	5,040	4,930	5,300	5,140	4,980	5,120	5,240	5,010	5,210	5,090
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)(5)	l/s	10,03	14,36	20,35	24,48	28,79	34,72	40,70	48,61	53,01	54,82
Pressure drop at the heat exchanger	(1)(3)(5)	kPa	26,1	53,4	20,6	22,9	41,3	39,8	25,8	41,3	32,0	26,1
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(2)(5)	l/s	12,71	17,66	26,34	30,98	35,86	43,78	52,62	60,07	67,26	69,88
Pressure drop at the heat exchanger	(2)(3)(5)	kPa	28,5	29,7	25,2	28,0	37,5	30,8	29,8	26,2	29,3	29,7
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(1)(5)	l/s	11,70	16,69	23,58	28,47	33,50	40,32	47,21	56,67	61,36	63,83
Pressure drop at the heat exchanger	(1)(3)(5)	kPa	24,1	26,5	20,2	23,6	32,7	26,1	24,0	23,3	24,4	24,8
HEAT EXCHANGER SOURCE SIDE IN HEATING												
Water flow	(2)(5)	l/s	17,28	17,61	36,11	42,21	40,28	50,00	72,03	61,94	85,28	87,78
Pressure drop at the heat exchanger	(2)(3)(5)	kPa	77,4	80,4	64,9	68,1	80,7	82,6	80,7	67,1	82,9	66,9
NOISE LEVEL												
Total sound Pressure	(7)(5)	dB(A)	75	76	78	76	77	78	79	79	78	80
Total sound power level in cooling	(1)(5)(8)	dB(A)	93	94	96	95	96	97	98	98	98	99
Sound power level in heating	(2)(5)(8)	dB(A)	93	94	96	95	96	97	98	98	98	99
REFRIGERANT CIRCUIT												
Compressors nr.		N°	1	1	1	2	2	2	2	3	4	3
Number of capacity steps		N°	0	0	0	0	0	0	0	0	0	0
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS									
Min. capacity step		%	-	-	-	-	-	-	-	-	-	-
Refrigerant			R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze									
Theoretical refrigerant charge	(10)	kg	140	180	177	237	247	358	310	624	730	565
Oil charge		kg	-	-	-	-	-	-	-	-	-	-
Rc (ASHRAE)	(6)(10)	kg/kW	0,56	0,52	0,34	0,39	0,35	0,41	0,30	0,52	0,56	0,41
SIZE AND WEIGHT												
A	(9)	mm	2910	2910	2910	2910	2910	3050	3050	3710	4690	3710
B	(9)	mm	1000	1000	1000	1560	1560	1620	1620	1710	1660	1710
H	(9)	mm	1950	1950	1950	2190	2190	2190	2190	2260	2260	2260
Operating weight	(9)	kq	2280	2430	2630	3780	3010	4880	4910	7060	8520	7040

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger water (in/out) 30,00°C/35,00°C.

2 User side exchanger hot water temperature (in/out) 40,00°C/45,00°C; Source side exchanger water temperature(in/out) 10,00°C/6,71°C (or the maximum calculated temperature coming from the maximum flow rate allowed)

3 Values in compliance with EN14511

4 Unit performance with inverter compressor at maximum speeds.

5 Unit performance with inverter compressor at nominal speed.

6 Rated in accordance with AHRI Standard 550/590

7 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

8 Sound power on the basis of measurements taken in compliance with ISO 9614.

9 Unit in standard configuration, without optional accessories.

10 Nominal value, please refer always to the printed value on the unit data plate.

- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

Data Book

TX2-W-G04/H 0251 - 2064_202209_EN R1234ze

[SI System]

TX2-W-G04/H		1404 1553 1584 1914 2064					
Power supply		V/ph/Hz 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50					
PERFORMANCE							
PERFORMANCE MAX							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)(4)	kW	1421	1557	1587	1924	2069
Total power input	(1)(4)	kW	249,6	302,3	288,8	364,6	408,3
EER	(1)(4)	kW/kW	5,693	5,151	5,495	5,277	5,067
HEATING ONLY (GROSS VALUE)							
Total heating capacity	(2)(4)	kW	1691	1905	1869	2342	2510
Total power input	(2)(4)	kW	334,5	391,4	383,2	474,7	523,2
COP	(2)(4)	kW/kW	5,055	4,867	4,877	4,934	4,797
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN COOLING							
Water flow	(1)(4)	l/s	67,96	74,44	75,89	92,02	98,96
Pressure drop at the heat exchanger	(1)(4)	kPa	52,7	38,8	65,7	39,5	45,7
HEAT EXCHANGER USER SIDE IN HEATING							
Water flow	(2)(4)	l/s	81,62	91,96	90,22	113,0	121,2
Pressure drop at the heat exchanger	(2)(4)	kPa	37,1	42,7	45,4	46,4	39,9
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION							
Water flow	(1)(4)	l/s	79,66	88,57	89,41	109,1	118,0
Pressure drop at the heat exchanger	(1)(4)	kPa	35,4	39,6	44,5	43,2	37,9
HEAT EXCHANGER SOURCE SIDE IN HEATING							
Water flow	(2)(4)	l/s	85,28	108,3	85,28	134,2	134,2
Pressure drop at the heat exchanger	(2)(4)	kPa	82,9	82,1	82,9	84,0	84,0
NOISE LEVEL							
Total sound Pressure	(7)(4)	dB(A)	78	79	79	80	80
Total sound power level in cooling	(1)(4)(8)	dB(A)	98	99	99	100	100
Sound power level in heating	(2)(4)(8)	dB(A)	98	99	99	100	100
SELEZIONE NOMINALE - DATI CERTIFICATI EUROVENT							
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(3)(5)	kW	1197	1264	1319	1571	1681
EER	(1)(3)(5)	kW/kW	6,130	6,200	6,080	6,190	6,160
HEATING ONLY (EN14511 VALUE)							
Total heating capacity	(2)(3)(5)	kW	1494	1623	1639	2009	2146
COP	(2)(3)(5)	kW/kW	5,210	5,410	5,200	5,380	5,370
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN COOLING							
Water flow	(1)(5)	l/s	57,29	60,49	63,11	75,18	80,42
Pressure drop at the heat exchanger	(1)(3)(5)	kPa	37,4	25,6	45,4	26,4	30,2
HEAT EXCHANGER USER SIDE IN HEATING							
Water flow	(2)(5)	l/s	72,08	78,33	79,09	96,95	103,6
Pressure drop at the heat exchanger	(2)(3)(5)	kPa	29,0	31,0	34,9	34,1	29,2
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION							
Water flow	(1)(5)	l/s	66,22	69,85	72,96	86,83	92,94
Pressure drop at the heat exchanger	(1)(3)(5)	kPa	24,4	24,7	29,7	27,4	23,5
HEAT EXCHANGER SOURCE SIDE IN HEATING							
Water flow	(2)(5)	l/s	85,28	107,9	85,28	133,4	134,2
Pressure drop at the heat exchanger	(2)(3)(5)	kPa	82,9	81,5	82,9	83,1	84,0
NOISE LEVEL							
Total sound Pressure	(7)(5)	dB(A)	78	79	79	80	80
Total sound power level in cooling	(1)(5)(8)	dB(A)	98	99	99	100	100
Sound power level in heating	(2)(5)(8)	dB(A)	98	99	99	100	100
REFRIGERANT CIRCUIT							
Compressors nr.		N°	4	3	4	4	4
Number of capacity steps		N°	0	0	0	0	0
No. Circuits		N°	1	1	1	1	1
Regulation		STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS					
Min. capacity step		%	-	-	-	-	-
Refrigerant		R1234ze R1234ze R1234ze R1234ze R1234ze					
Theoretical refrigerant charge	(10)	kg	1036	617	1036	890	876
Oil charge		kg	-	-	-	-	-
Rc (ASHRAE)	(6)(10)	kg/kW	0,74	0,40	0,66	0,47	0,43
SIZE AND WEIGHT							
A	(9)	mm	4690	4690	4720	4720	4720
B	(9)	mm	1890	1660	1890	1890	1890
H	(9)	mm	2400	2260	2400	2400	2400
Operating weight	(9)	kg	9760	7950	9760	10130	10340

Notes:

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8 Sound power on the basis of measurements taken in compliance with ISO 9614.

9 Unit in standard configuration, without optional accessories.

10 Nominal value, please refer always to the printed value on the unit data plate.

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