

6 GENERAL TECHNICAL DATA

Data Book

TX2-W-G04 0251 - 2064_202209_EN R1234ze

[SI System]

TX2-W-G04			0251	0351	0421	0511	0602	0702	0772	0832	0872	0932
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												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)(9)	kW	254,7	354,0	408,4	522,2	611,0	709,2	759,0	813,3	874,7	922,4
Total power input	(1)(9)	kW	49,28	64,91	73,46	109,3	114,0	131,2	139,0	148,5	174,7	179,4
EER	(1)(9)	kW/kW	5,166	5,455	5,556	4,778	5,360	5,405	5,460	5,477	5,007	5,142
ESEER CALCULATED	(1)(9)	kW/kW	9,420	9,320	9,660	9,830	9,750	9,950	9,820	9,930	10,00	10,10
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(3)(9)	kW	254,3	353,5	408,1	521,8	610,5	708,5	758,4	812,7	874,0	921,7
EER	(1)(3)(9)	kW/kW	4,970	5,180	5,400	4,650	5,190	5,170	5,270	5,280	4,820	4,970
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)(9)	l/s	12,18	16,93	19,53	24,97	29,22	33,91	36,30	38,89	41,83	44,11
Pressure drop at the heat exchanger	(1)(9)	kPa	38,4	74,3	27,3	31,0	32,6	57,2	43,5	41,0	57,8	43,6
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(1)(9)	l/s	14,48	19,97	22,97	30,07	34,55	40,05	42,80	45,85	49,98	52,49
Pressure drop at the heat exchanger	(1)(9)	kPa	37,0	37,9	26,5	32,8	34,8	46,8	36,3	41,7	40,1	39,6
CERTIFIED DATA IN EUROVENT												
Cooling capacity	(2)(3)(10)	kW	209,3	299,8	353,0	425,2	511,6	601,6	653,7	708,9	725,4	777,5
Total power input	(2)(3)(10)	kW	36,90	51,90	58,60	70,40	87,20	103,9	110,6	121,0	123,4	130,7
EER	(2)(3)(10)	kW/kW	5,670	5,780	6,020	6,040	5,870	5,790	5,910	5,860	5,880	5,950
HEAT EXCHANGER USER SIDE IN COOLING												
Pressure drop at the heat exchanger	(2)(3)(10)	kPa	26,1	53,4	20,4	20,6	22,9	41,3	32,3	31,2	39,8	31,0
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Pressure drop at the heat exchanger	(2)(3)(10)	kPa	24,1	26,5	19,2	20,2	23,6	32,7	26,2	30,8	26,1	26,8
REFRIGERANT CIRCUIT												
Compressors nr.		N°	1	1	1	1	2	2	2	2	2	2
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		%	36,1	36,1	35,4	48,5	14,9	17,7	16,4	17,8	14,3	15,7
Refrigerant			R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze									
Theoretical refrigerant charge	(12)	kg	140	192	192	177	237	247	466	349	358	334
Oil charge		kg	-	-	-	-	-	-	-	-	-	-
Rc (ASHRAE)	(4)(9)(12)	kg/kW	0,56	0,55	0,48	0,34	0,39	0,35	0,62	0,43	0,41	0,37
NOISE LEVEL												
Total sound Pressure	(5)	dB(A)	75	76	77	78	76	77	77	78	78	78
Total sound power level in cooling	(6)(7)	dB(A)	93	94	95	96	95	96	96	97	97	97
SIZE AND WEIGHT												
A	(8)(11)	mm	2910	2910	2910	2910	2910	2910	3050	3050	3050	3050
B	(8)(11)	mm	1000	1000	1000	1000	1560	1560	1620	1620	1620	1620
H	(8)(11)	mm	1950	1950	1950	1950	2190	2190	2190	2190	2190	2190
Operating weight	(8)(11)	kg	2280	2430	2580	2630	3780	3010	4860	4840	4880	4940

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 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.

3 Values in compliance with EN14511

4 Rated in accordance with AHRI Standard 550/590

5 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.

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

7 Sound power level in cooling, indoors.

8 Unit in standard configuration, without optional accessories.

9 Values related to the maximum compressors' rotating speed.

10 Values refer to the nominal rotational speed of the compressors.

11 Values related to standard layout : diagonal in sizes up to 4 compressors, horizontal in sizes with 5 or 6 compressors

12 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 0251 - 2064_202209_EN R1234ze

[SI System]

TX2-W-G04			1022	1103	1203	1314	1363	1404	1463	1553	1584	1684
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												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)(9)	kW	1041	1099	1208	1319	1383	1421	1450	1557	1587	1642
Total power input	(1)(9)	kW	218,9	205,5	242,2	235,5	290,8	249,6	271,8	302,3	288,8	290,9
EER	(1)(9)	kW/kW	4,756	5,348	4,988	5,601	4,756	5,693	5,335	5,151	5,495	5,645
ESEER CALCULATED	(1)(9)	kW/kW	10,20	9,490	9,660	9,840	9,710	10,10	10,40	10,30	10,10	10,00
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(3)(9)	kW	1041	1099	1207	1319	1382	1420	1450	1556	1586	1641
EER	(1)(3)(9)	kW/kW	4,620	5,190	4,820	5,420	4,620	5,490	5,170	5,000	5,270	5,440
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)(9)	l/s	49,80	52,56	57,78	63,10	66,13	67,96	69,36	74,44	75,89	78,50
Pressure drop at the heat exchanger	(1)(9)	kPa	38,6	38,0	58,4	45,4	38,0	52,7	39,3	38,8	65,7	39,9
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(1)(9)	l/s	60,00	62,18	69,08	74,13	79,69	79,66	82,08	88,57	89,41	92,14
Pressure drop at the heat exchanger	(1)(9)	kPa	38,7	36,1	34,6	35,6	38,7	35,4	39,3	39,6	44,5	47,3
CERTIFIED DATA IN EUROVENT												
Cooling capacity	(2)(3)(10)	kW	850,5	947,9	1016	1108	1146	1197	1202	1264	1319	1415
Total power input	(2)(3)(10)	kW	142,2	164,0	176,7	182,5	196,6	195,3	194,2	203,9	216,9	233,1
EER	(2)(3)(10)	kW/kW	5,980	5,780	5,750	6,070	5,830	6,130	6,190	6,200	6,080	6,070
HEAT EXCHANGER USER SIDE IN COOLING												
Pressure drop at the heat exchanger	(2)(3)(10)	kPa	25,8	28,3	41,3	32,0	26,1	37,4	27,0	25,6	45,4	29,7
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Pressure drop at the heat exchanger	(2)(3)(10)	kPa	24,0	26,1	23,3	24,4	24,8	24,4	25,7	24,7	29,7	34,2
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	3	3	4	3	4	3	3	4	4
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		%	24,0	11,3	10,3	6,8	9,1	8,7	9,9	15,7	7,7	8,6
Refrigerant			R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze R1234ze									
Theoretical refrigerant charge	(12)	kg	310	613	624	730	565	1036	643	617	1036	963
Oil charge		kg	-	-	-	-	-	-	-	-	-	-
Rc (ASHRAE)	(4)(9)(12)	kg/kW	0,30	0,56	0,52	0,56	0,41	0,74	0,45	0,40	0,66	0,59
NOISE LEVEL												
Total sound Pressure	(5)	dB(A)	79	79	79	78	80	78	79	79	79	79
Total sound power level in cooling	(6)(7)	dB(A)	98	98	98	98	99	98	99	99	99	99
SIZE AND WEIGHT												
A	(8)(11)	mm	3050	3710	3710	4690	3710	4690	4690	4690	4720	4720
B	(8)(11)	mm	1620	1710	1710	1660	1710	1890	1660	1660	1890	1890
H	(8)(11)	mm	2190	2260	2260	2260	2260	2400	2260	2260	2400	2400
Operating weight	(8)(11)	kg	4910	7060	7060	8520	7040	9760	7850	7950	9760	9890

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 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.

3 Values in compliance with EN14511

4 Rated in accordance with AHRI Standard 550/590

5 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.

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

7 Sound power level in cooling, indoors.

8 Unit in standard configuration, without optional accessories.

9 Values related to the maximum compressors' rotating speed.

10 Values refer to the nominal rotational speed of the compressors.

11 Values related to standard layout : diagonal in sizes up to 4 compressors, horizontal in sizes with 5 or 6 compressors

12 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 0251 - 2064_202209_EN R1234ze

[SI System]

TX2-W-G04			1784	1914	1984	2064
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
COOLING ONLY (GROSS VALUE)						
Cooling capacity	(1)(9)	kW	1755	1924	1969	2069
Total power input	(1)(9)	kW	317,2	364,6	371,2	408,3
EER	(1)(9)	kW/kW	5,533	5,277	5,304	5,067
ESEER CALCULATED	(1)(9)	kW/kW	10,10	10,20	10,30	10,20
COOLING ONLY (EN14511 VALUE)						
Cooling capacity	(1)(3)(9)	kW	1755	1923	1968	2069
EER	(1)(3)(9)	kW/kW	5,360	5,110	5,150	4,920
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN COOLING						
Water flow	(1)(9)	l/s	83,94	92,02	94,17	98,96
Pressure drop at the heat exchanger	(1)(9)	kPa	42,0	39,5	41,4	45,7
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION						
Water flow	(1)(9)	l/s	98,80	109,1	111,5	118,0
Pressure drop at the heat exchanger	(1)(9)	kPa	39,2	43,2	37,1	37,9
CERTIFIED DATA IN EUROVENT						
Cooling capacity	(2)(3)(10)	kW	1489	1571	1624	1681
Total power input	(2)(3)(10)	kW	242,5	253,8	261,5	272,9
EER	(2)(3)(10)	kW/kW	6,140	6,190	6,210	6,160
HEAT EXCHANGER USER SIDE IN COOLING						
Pressure drop at the heat exchanger	(2)(3)(10)	kPa	30,2	26,4	28,2	30,2
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION						
Pressure drop at the heat exchanger	(2)(3)(10)	kPa	27,2	27,4	24,0	23,5
REFRIGERANT CIRCUIT						
Compressors nr.		N°	4	4	4	4
No. Circuits		N°	1	1	1	1
Regulation			STEPLESS STEPLESS STEPLESS STEPLESS			
Min. capacity step		%	8,2	6,4	7,3	11,7
Refrigerant			R1234ze R1234ze R1234ze R1234ze			
Theoretical refrigerant charge	(12)	kg	940	890	881	876
Oil charge		kg	-	-	-	-
Rc (ASHRAE)	(4)(9)(12)	kg/kW	0,54	0,47	0,45	0,43
NOISE LEVEL						
Total sound Pressure	(5)	dB(A)	79	80	80	80
Total sound power level in cooling	(6)(7)	dB(A)	99	100	100	100
SIZE AND WEIGHT						
A	(8)(11)	mm	4720	4720	4720	4720
B	(8)(11)	mm	1890	1890	1890	1890
H	(8)(11)	mm	2400	2400	2400	2400
Operating weight	(8)(11)	kg	10000	10130	10220	10340

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 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.

3 Values in compliance with EN14511

4 Rated in accordance with AHRI Standard 550/590

5 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.

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7 Sound power level in cooling, indoors.

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9 Values related to the maximum compressors' rotating speed.

10 Values refer to the nominal rotational speed of the compressors.

11 Values related to standard layout : diagonal in sizes up to 4 compressors, horizontal in sizes with 5 or 6 compressors

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

- Not available

Data certified in EUROVENT

7 TECHNICAL DATA SEASONAL EFFICIENCY IN COOLING (EN14825 VALUE)

Data Book
TX2-W-G04 0251 - 2064_202209_EN R1234ze

[SI System]

ENERGY EFFICIENCY

SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)

Ambient refrigeration

TX2-W-G04			0251	0351	0421	0511	0602	0702	0772	0832	0872	0932
Prated,c	(1)	kW	209,3	299,8	353,0	425,2	511,6	601,6	653,7	708,9	725,4	777,5
SEER	(1) (2)	-	8,99	9,15	9,50	9,77	9,36	9,25	9,38	9,55	9,53	9,83
Performance η_s	(1) (3)	%	357,0	363,0	377,0	388,0	371,0	367,0	372,0	379,0	378,0	390,0
TX2-W-G04			1022	1103	1203	1314	1363	1404	1463	1553	1584	1684
Prated,c	(1)	kW	850,5	947,9	1016,0	1108,0	1146,0	1197,0	1202,0	1264,0	1319,0	1415,0
SEER	(1) (2)	-	10,02	9,22	9,33	9,50	9,31	9,65	10,08	10,16	9,54	9,77
Performance η_s	(1) (3)	%	398,0	366,0	370,0	377,0	369,0	383,0	400,0	403,0	379,0	388,0
TX2-W-G04			1784	1914	1984	2064						
Prated,c	(1)	kW	1489,0	1571,0	1624,0	1681,0						
SEER	(1) (2)	-	9,75	9,83	10,15	10,13						
Performance η_s	(1) (3)	%	387,0	390,0	403,0	402,0						

Notes:

(1) Parameter calculated according to [REGULATION (EU) N. 2016/2281]

(2) Seasonal energy efficiency ratio

(3) Seasonal space cooling energy efficiency

The units highlighted in this publication contain R1234ze [GWP₁₀₀ 1] fluorinated greenhouse gases.

Data certified in EUROVENT