CHILLERS

TX-W-G05

1A00 - 6D00 248-4466 kW

High efficiency water cooled chiller

Indoor unit for the production of chilled water featuring centrifugal compressors oil-free, with R513A, electronic regulation valve, shell and tube condenser and shell and tube flooded evaporator.
Base and supporting structure and panels are of galvanized epoxy powder coated steel with increased thickness.
Flexible and reliable unit; it easily adapts itself to different thermal load conditions thanks to the precise thermoregulation together with the use of inverter technology. The compressor is radically innovative: magnetic bearings and digital rotor speed control allow partial load efficiency levels to be reached that were hither to impossible.

Control

W3000TE
For the TX-W family, dedicated control logics, named CX4, have been implemented to take full advantage from the variable speed centrifugal compressor, thus maximizing the unit performance in all working conditions.
The control is available through the innovative user interface KIPlink, which allows one to operate on the unit directly from the smartphone or tablet. Using KIPlink, it is possible to turn the unit on and off, adjust the set-point, plot the main operating variables, monitor in detail the status of the components and reset the alarms. Secure access to data is guaranteed by three password levels (user, service, manufacturer).
The continuous capacity modulation is based on the PID algorithms and related to the leaving water temperature, with adjustment on the neutral areas. Complete alarm management system is available, with the “black-box” and the alarm history display functions. Supervision is achievable through various options, with proprietary devices or with the integration in third party systems by means of the most common communication protocols (ModBus, BACnet-over-IP, Echelon LonWorks, BACnet MS / TP). Connection with remote touchscreen is available.
A programmable timer allows the creation of an operating profile up to 4 days and 10 type bands, with automatic transmission from summer time to winter time.
For systems consisting of multiple units, the management of the resources is possible via optional proprietary devices. Optionally (VPF package), capacity modulation can be integrated with hydraulic flow modulation, thanks to inverter-driven pumps and to specific resources for the hydraulic circuit.

Refrigerant

R513A

Configurations

- Basic function

Features

NO COMPROMISE
Large availability in the combinations of the compressors (up to 6 compressors on the same unit), plus the flexibility in the choice of the heat exchangers can satisfy each specific installation and design requirements: the highest full load efficiency, the best initial investment, an unrivaled seasonal efficiency, an operating range suitable for applications in systems operating at high or low condensation (dry coolers or cooling towers)

VERY HIGH EFFICIENCY
Very high efficiency at full and partial load, to top market levels, thanks to adopted technological solutions: large capacity modulation and expanded exchanger, offering minimum running costs of the unit in real working conditions.

FLEXIBLE COMPOSITION
Choice between horizontal or diagonal arrangement of the heat exchangers, with dimensions that favor the compact overall dimensions in height or plant, water connections to the evaporator and condenser that can be deployed on the right or left, to fit for all applications

ADAPTABILITY
Adaptability at the building’s heating request thanks to the continuous capacity regulation, assured by sophisticated control’s logic.

LOW INRUSH CURRENTS
Reduced breakaway starting currents thanks to the revolutionary centrifugal compressor.

EXTREMELY SILENT OPERATION
Extremely silent operation in line with the best on the market, and highly reduced vibrations

Accessories

- Integral acoustical enclosure (type base or plus)
- VPF (Variable Primary Flow) system
- Set-up for remote connectivity with ModBus/Echelon protocol cards
- Several devices for condensation´s control
- filters kit for conformity to EN 61000-6-3 (residential ambients)

TX-W-G05			1A00	1B00	1B1A	1B2A	1B3A	1C00	1C1A	1C1B	1C3B
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
PERFORMANCE											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)	kW	243,6-353,0	343,6-490,9	582,5-844,2	820,6-1189	1083-1547	396,2-565,9	642,4-917,7	735,4-1051	1425-2036
EER	(1)	kW/kW	6,150	6,290	6,230	6,040	6,200	6,390	6,290	6,290	6,320
ESEER (up to)	(1)	kW/kW									
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	243,7	364,4	581,9	818,9	1143	458,9	642,5	737,1	1708
EER	(1)(2)	kW/kW	5,970	6,050	6,060	5,910	5,970	6,080	6,110	6,120	5,910
ESEER	(1)(2)	kW/kW	8,760	8,460	8,850	8,670	8,590	8,770	8,810	8,770	8,370
Cooling energy class			A	A	A	A	A	A	A	A	A
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(8)	kW	244	364	582	819	1143	459	642	737	1708
SEER	(8)(9)		8,94	8,75	8,92	8,88	8,71	9,01	8,97	8,86	8,39
Performance ηs	(8)(10)	%	350	342	349	347	340	352	351	346	328
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	11,68	17,46	27,89	39,23	54,81	21,99	30,79	35,32	81,94
Pressure drop	(1)	kPa	18,8	21,8	25,7	21,1	34,3	24,1	25,7	25,7	52,2
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION											
Water flow	(1)	l/s	13,55	20,22	32,29	45,60	63,56	25,44	35,61	40,85	95,03
Pressure drop	(1)	kPa	17,5	20,5	20,7	19,4	26,2	23,5	20,4	20,1	33,9
REFRIGERANT CIRCUIT											
Compressors nr.		N°	1	1	2	3	4	1	2	2	4
No. Circuits		N°	1	1	1	1	1	1	1	1	1
Refrigerant charge		kg	215	220	390	495	747	262	436	416	1078
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	75	76	76	78	78	77	77	77	79
Sound power level in cooling	(4)(5)	dB(A)	93	94	95	97	98	95	96	96	99
SIZE AND WEIGHT											
A	(6)(7)	mm	2910	2910	3050	3710	4690	2910	3050	3050	4720
B	(6)(7)	mm	1000	1000	1620	1710	1890	1000	1620	1620	1890
H	(6)(7)	mm	1950	1950	2190	2260	2400	1950	2190	2190	2400
Operating weight	(6)(7)	kg	2690	2800	5200	7590	9320	2880	5280	5410	11010

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
2 Values in compliance with EN14511
3 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, indoors.
6 Unit in standard configuration/execution, without optional accessories.
7 Lay-out with diagonal exchangers in units with 1, 2, 3 and 4 compressors; lay-out with horizontal exchangers in units with 5 and 6 compressors.
8 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
9 Seasonal energy efficiency ratio
10 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP_{100} 631] fluorinated greenhouse gases.
Certified data in EUROVENT

CHILLERS

TX-W-G05

High efficiency water cooled chiller

1A00 - 6D00 248-4466 kW

TX-W-G05			1D00	1D1A	1D1B	1D1C	1D2C	1D3C	1D4C	1D5C	2A00
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
PERFORMANCE											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)	kW	587,8-734,7	736,8-1084	833,4-1226	1043-1303	1241-1880	1964-2455	2441-3051	2918-3648	495,9-708,5
EER	(1)	kW/kW	6,130	6,100	6,210	6,250	6,300	6,300	6,420	6,480	6,120
ESEER (up to)	(1)	kW/kW									
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	658,5	748,2	857,2	1067	1271	2143	2637	3128	522,3
EER	(1)(2)	kW/kW	5,890	5,910	6,020	5,990	6,100	5,940	6,040	6,120	5,900
ESEER	(1)(2)	kW/kW	8,060	8,530	8,700	8,640	8,800	8,400	8,420	8,500	8,800
Cooling energy class			A	A	A	A	A	A	A	A	A
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(8)	kW	658	748	857	1067	1271	-	-	-	522
SEER	(8)(9)		8,27	8,69	8,72	8,61	8,98	-	-	-	8,87
Performance ηs	(8)(10)	%	323	340	341	336	351	-	-	-	347
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	31,59	35,86	41,09	51,19	60,91	102,9	126,6	150,1	25,03
Pressure drop	(1)	kPa	38,8	28,8	30,6	40,8	30,3	60,3	68,6	61,4	24,0
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION											
Water flow	(1)	l/s	36,64	41,65	47,60	59,28	70,44	119,1	146,3	173,2	29,07
Pressure drop	(1)	kPa	38,3	23,6	24,4	32,3	25,1	38,6	44,4	50,5	24,6
REFRIGERANT CIRCUIT											
Compressors nr.		N°	1	2	2	2	3	4	5	6	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1
Refrigerant charge		kg	253	422	400	450	814	1017	1319	1696	273
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	78	78	78	78	79	79	79	80	76
Sound power level in cooling	(4)(5)	dB(A)	96	97	97	97	99	99	100	101	95
SIZE AND WEIGHT											
A	(6)(7)	mm	2910	3050	3050	3050	4690	4720	5700	6610	2910
B	(6)(7)	mm	1000	1620	1620	1620	1660	1890	2350	2400	1560
H	(6)(7)	mm	1950	2190	2190	2190	2260	2400	2400	2450	2190
Operating weight	(6)(7)	kg	2950	5350	5340	5420	8810	11410	15330	20580	4070

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
2 Values in compliance with EN14511
3 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, indoors.
6 Unit in standard configuration/execution, without optional accessories.
7 Lay-out with diagonal exchangers in units with 1, 2, 3 and 4 compressors; lay-out with horizontal exchangers in units with 5 and 6 compressors.
8 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
9 Seasonal energy efficiency ratio
10 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP_{100} 631] fluorinated greenhouse gases.

Certified data in EUROVENT

TX-W-G05			2B00	2B1A	2B2A	2B3A	2C00	2C1A	2C1B	2D00	2D1B
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
PERFORMANCE											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)	kW	676,3-980,2	930,1-1329	1176-1680	1434-2049	791,5-1131	1042-1489	1135-1621	971,1-1471	1416-1966
EER	(1)	kW/kW	6,210	6,050	6,210	6,320	6,400	6,360	6,360	6,040	6,240
ESEER (up to)	(1)	kW/kW									
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	680,3	978,2	1240	1674	916,7	1123	1221	984,1	1448
EER	(1)(2)	kW/kW	6,040	5,850	5,960	5,890	6,060	6,100	6,110	5,850	6,010
ESEER	(1)(2)	kW/kW	8,700	8,530	8,470	8,300	8,910	8,600	8,640	8,780	8,410
Cooling energy class			A	A	A	A	A	A	A	A	A
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(8)	kW	680	978	1240	1674	917	1123	1221	984	1448
SEER	(8)(9)		8,82	8,73	8,55	8,25	8,90	8,77	8,77	8,86	8,52
Performance ηs	(8)(10)	%	345	341	334	322	348	343	343	346	333
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	32,60	46,87	59,51	80,37	43,95	53,83	58,54	47,17	69,44
Pressure drop	(1)	kPa	26,0	23,1	40,4	61,1	33,8	35,3	34,6	30,0	41,2
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION											
Water flow	(1)	l/s	37,77	54,55	68,99	93,18	50,86	62,22	67,66	54,87	80,40
Pressure drop	(1)	kPa	20,5	21,6	26,5	38,3	26,5	27,6	26,7	25,0	32,7
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	3	4	5	2	3	3	2	3
No. Circuits		N°	1	1	1	1	1	1	1	1	1
Refrigerant charge		kg	433	640	1015	1303	411	751	795	429	814
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	77	78	78	78	78	78	78	79	79
Sound power level in cooling	(4)(5)	dB(A)	96	97	98	99	97	98	98	98	99
SIZE AND WEIGHT											
A	(6)(7)	mm	3050	3710	4720	5700	3050	4690	4690	3050	4690
B	(6)(7)	mm	1620	1710	1890	2350	1620	1660	1660	1620	1660
H	(6)(7)	mm	2190	2260	2400	2400	2190	2260	2260	2190	2260
Operating weight	(6)(7)	kg	5340	7750	10610	13850	5330	8470	8700	5310	8810

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
2 Values in compliance with EN14511
3 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, indoors.
6 Unit in standard configuration/execution, without optional accessories.
7 Lay-out with diagonal exchangers in units with 1, 2, 3 and 4 compressors; lay-out with horizontal exchangers in units with 5 and 6 compressors.
8 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
9 Seasonal energy efficiency ratio
10 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP_{100} 631] fluorinated greenhouse gases.
Certified data in EUROVENT

CHILLERS

TX-W-G05

High efficiency water cooled chiller

1A00 - 6D00 248-4466 kW

TX-W-G05			2D1C	2D2B	2D2C	2D3C	2D4C	3A00	3B00	3B1A	3B2A
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
PERFORMANCE											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)	kW	1636-2045	1968-2460	2092-2614	2568-3210	3054-3817	724,3-1050	1009-1462	1273-1819	1522-2174
EER	(1)	kW/kW	6,300	6,270	6,320	6,400	6,510	5,970	6,070	6,220	6,250
ESEER (up to)	(1)	kW/kW									
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	1848	2185	2332	2823	3320	723,3	1078	1344	1790
EER	(1)(2)	kW/kW	5,920	5,890	5,950	6,010	6,130	5,830	5,850	5,970	5,830
ESEER	(1)(2)	kW/kW	8,250	8,170	8,320	8,300	8,480	8,650	8,610	8,430	8,190
Cooling energy class			A	A	A	A	A	A	A	A	A
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(8)	kW	1848	-	-	-	-	723	1078	1344	1790
SEER	(8)(9)		8,22	-	-	-	-	8,83	8,74	8,57	8,16
Performance ηs	(8)(10)	%	321	-	-	-	-	345	342	335	318
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	88,69	104,9	112,0	135,6	159,4	34,65	51,64	64,46	85,92
Pressure drop	(1)	kPa	61,2	65,6	65,0	73,8	65,9	21,0	23,2	39,8	60,3
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION											
Water flow	(1)	l/s	102,7	121,6	129,6	156,7	183,7	40,35	60,10	74,72	99,77
Pressure drop	(1)	kPa	47,9	44,1	41,4	47,7	52,5	19,2	22,0	26,1	38,7
REFRIGERANT CIRCUIT											
Compressors nr.		N°	3	4	4	5	6	3	3	4	5
No. Circuits		N°	1	1	1	1	1	1	1	1	1
Refrigerant charge		kg	812	1013	1094	1299	1667	501	598	985	1269
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	79	79	80	79	80	77	78	78	78
Sound power level in cooling	(4)(5)	dB(A)	99	99	100	100	101	96	97	98	99
SIZE AND WEIGHT											
A	(6)(7)	mm	4690	4720	4720	5700	6610	3710	3710	4720	5700
B	(6)(7)	mm	1660	1890	1890	2350	2400	1710	1710	1890	2350
H	(6)(7)	mm	2260	2400	2400	2400	2450	2260	2260	2400	2400
Operating weight	(6)(7)	kg	8880	11250	11450	15420	20750	7440	7370	10740	14050

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
2 Values in compliance with EN14511
3 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, indoors.
6 Unit in standard configuration/execution, without optional accessories.
7 Lay-out with diagonal exchangers in units with 1, 2, 3 and 4 compressors; lay-out with horizontal exchangers in units with 5 and 6 compressors.
8 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
9 Seasonal energy efficiency ratio
10 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP_{100} 631] fluorinated greenhouse gases.

Certified data in EUROVENT

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

VPF VARIABLE PRIMARY FLOW

VSPEED VARIABLE SPEED DRIVE

R513A

COOLING

ENERGY CLASS

FLOODED

CENTRIFUGAL

TX-W-G05			3B3A	3C00	3C1A	3C1B	3C2B	3D00	3D1A	3D1C	3D2C
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
PERFORMANCE											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)	kW	1772-2531	1196-1709	1442-2059	1531-2187	1894-2705	1771-2213	2051-2563	2233-2792	2711-3388
EER	(1)	kW/kW	6,320	6,430	6,360	6,390	6,470	6,240	6,220	6,350	6,440
ESEER (up to)	(1)	kW/kW									
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	2070	1301	1738	1854	2277	2043	2326	2536	3027
EER	(1)(2)	kW/kW	5,920	6,170	5,940	5,970	6,030	5,870	5,840	5,960	6,010
ESEER	(1)(2)	kW/kW	8,330	8,820	8,420	8,480	8,410	8,160	7,990	8,240	8,210
Cooling energy class			A	A	A	A	A	A	A	A	A
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(8)	kW	-	1301	1738	1854	-	-	-	-	-
SEER	(8)(9)		-	8,92	8,47	8,50	-	-	-	-	-
Performance ηs	(8)(10)	%	-	349	331	332	-	-	-	-	-
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	99,31	62,37	83,42	88,96	109,3	98,15	111,8	121,8	145,4
Pressure drop	(1)	kPa	55,0	35,3	51,4	51,3	58,8	67,4	74,5	71,1	79,5
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION											
Water flow	(1)	l/s	115,1	71,99	96,69	103,0	126,3	113,7	129,6	140,9	167,9
Pressure drop	(1)	kPa	42,9	28,2	33,9	33,0	41,4	55,3	47,9	46,3	54,8
REFRIGERANT CIRCUIT											
Compressors nr.		N°	6	3	4	4	5	3	4	4	5
No. Circuits		N°	1	1	1	1	1	1	1	1	1
Refrigerant charge		kg	1677	795	1078	1013	1252	850	1059	1072	1400
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	79	78	79	79	79	79	80	80	80
Sound power level in cooling	(4)(5)	dB(A)	100	98	99	99	100	99	100	100	101
SIZE AND WEIGHT											
A	(6)(7)	mm	6610	4690	4720	4720	5700	4690	4720	4720	5700
B	(6)(7)	mm	2400	1660	1890	1890	2350	1660	1890	1890	2350
H	(6)(7)	mm	2450	2260	2400	2400	2400	2260	2400	2400	2400
Operating weight	(6)(7)	kg	18670	8700	11010	11210	14910	9010	11250	11580	15500

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
2 Values in compliance with EN14511
3 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, indoors.
6 Unit in standard configuration/execution, without optional accessories.
7 Lay-out with diagonal exchangers in units with 1, 2, 3 and 4 compressors; lay-out with horizontal exchangers in units with 5 and 6 compressors.
8 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
9 Seasonal energy efficiency ratio
10 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP_{100} 631] fluorinated greenhouse gases.

Certified data in EUROVENT

CHILLERS

TX-W-G05

High efficiency water cooled chiller

1A00 - 6D00 248-4466 kW

TX-W-G05			3D3C	4B00	4B1A	4B2A	4C00	4C1B	4D00	4D1C	4D2C
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
PERFORMANCE											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)	kW	3192-3990	1366-1952	1620-2314	1875-2679	1344-2277	1947-2781	2369-2961	2857-3571	3337-4171
EER	(1)	kW/kW	6,570	6,260	6,310	6,410	6,400	6,530	6,280	6,450	6,550
ESEER (up to)	(1)	kW/kW									
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	3518	1443	1918	2200	1488	2349	2733	3233	3724
EER	(1)(2)	kW/kW	6,170	6,020	5,880	6,000	6,190	6,080	5,890	6,020	6,130
ESEER	(1)(2)	kW/kW	8,480	8,510	8,240	8,370	8,860	8,460	8,070	8,160	8,350
Cooling energy class			A	A	A	A	A	A	A	A	A
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(8)	kW	-	1443	1918	-	1488	-	-	-	-
SEER	(8)(9)		-	8,60	8,23	-	9,12	-	-	-	-
Performance ηs	(8)(10)	%	-	336	321	-	357	-	-	-	-
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	168,9	69,20	92,05	105,6	71,29	112,7	131,3	155,4	178,9
Pressure drop	(1)	kPa	70,2	39,1	59,3	56,3	30,3	60,9	80,4	87,6	74,6
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION											
Water flow	(1)	l/s	194,5	80,15	106,8	122,1	82,33	130,2	152,0	179,3	206,0
Pressure drop	(1)	kPa	53,9	25,8	38,4	44,5	20,2	41,7	53,9	54,2	60,5
REFRIGERANT CIRCUIT											
Compressors nr.		N°	6	4	5	6	4	5	4	5	6
No. Circuits		N°	1	1	1	1	1	1	1	1	1
Refrigerant charge		kg	1626	1078	1233	1638	1050	1239	1072	1380	1767
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	80	78	78	79	79	79	80	80	80
Sound power level in cooling	(4)(5)	dB(A)	101	98	99	100	99	100	100	101	101
SIZE AND WEIGHT											
A	(6)(7)	mm	6610	4720	5700	6610	4720	5700	4720	5700	6610
B	(6)(7)	mm	2400	1890	2350	2400	1890	2350	1890	2350	2400
H	(6)(7)	mm	2450	2400	2400	2450	2400	2400	2400	2400	2450
Operating weight	(6)(7)	kg	21010	10920	14300	18880	11250	15000	11580	15730	21180

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
2 Values in compliance with EN14511
3 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, indoors.
6 Unit in standard configuration/execution, without optional accessories.
7 Lay-out with diagonal exchangers in units with 1, 2, 3 and 4 compressors; lay-out with horizontal exchangers in units with 5 and 6 compressors.
8 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
9 Seasonal energy efficiency ratio
10 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP_{100} 631] fluorinated greenhouse gases.

Certified data in EUROVENT

TX-W-G05			5B00	5B1A	5C00	5C1B	5D00	5D1C	6B00	6C00	6D00
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
PERFORMANCE											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)	kW	1718-2454	1966-2809	1999-2856	2357-3367	2991-3739	3458-4322	2055-2935	2420-3458	3592-4490
EER	(1)	kW/kW	6,340	6,430	6,540	6,580	6,450	6,540	6,430	6,580	6,520
ESEER (up to)	(1)	kW/kW									
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	2046	2319	2421	2835	3426	3901	2434	2919	4092
EER	(1)(2)	kW/kW	5,900	6,020	6,080	6,150	6,020	6,130	6,020	6,150	6,110
ESEER	(1)(2)	kW/kW	8,270	8,380	8,530	8,540	8,130	8,330	8,360	8,600	8,270
Cooling energy class			A	A	A	A	A	A	A	A	A
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(8)	kW	-	-	-	-	-	-	-	-	-
SEER	(8)(9)		-	-	-	-	-	-	-	-	-
Performance ηs	(8)(10)	%	-	-	-	-	-	-	-	-	-
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	98,21	111,3	116,2	136,0	164,7	187,4	116,8	140,1	196,6
Pressure drop	(1)	kPa	60,0	56,2	61,2	57,6	91,4	77,4	56,6	58,5	80,2
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION											
Water flow	(1)	l/s	113,9	128,7	134,2	156,9	190,0	215,8	135,1	161,5	226,4
Pressure drop	(1)	kPa	38,6	45,1	39,7	44,7	60,8	60,4	44,9	43,9	66,5
REFRIGERANT CIRCUIT											
Compressors nr.		N°	5	6	5	6	5	6	6	6	6
No. Circuits		N°	1	1	1	1	1	1	1	1	1
Refrigerant charge		kg	1317	1594	1343	1583	1355	1739	1722	1555	1699
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	78	79	79	80	80	81	79	80	81
Sound power level in cooling	(4)(5)	dB(A)	99	100	100	101	101	102	100	101	102
SIZE AND WEIGHT											
A	(6)(7)	mm	5700	6610	5700	6610	5700	6610	6610	6610	6610
B	(6)(7)	mm	2350	2400	2350	2400	2350	2400	2400	2400	2400
H	(6)(7)	mm	2400	2450	2400	2450	2400	2450	2450	2450	2450
Operating weight	(6)(7)	kg	14550	19150	15180	20240	15890	21350	19400	20410	21560

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
2 Values in compliance with EN14511
3 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, indoors.
6 Unit in standard configuration/execution, without optional accessories.
7 Lay-out with diagonal exchangers in units with 1, 2, 3 and 4 compressors; lay-out with horizontal exchangers in units with 5 and 6 compressors.
8 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
9 Seasonal energy efficiency ratio
10 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP_{100} 631] fluorinated greenhouse gases.
Certified data in EUROVENT

Dimensional drawing