

TECS-W/L-E Series 280-7032kW (80-2000RT)





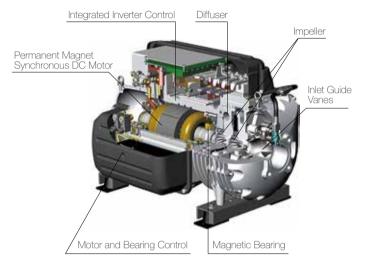




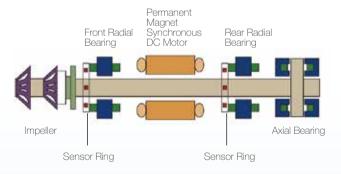


Features and Benefits

Magnetic Levitation Oil-free Centrifugal Compressor



• Inverter driven high-efficiency magnetic levitation oil-free compressor: the compressor is designed with aerodynamic optimized two-stage centrifugal and magnetic levitation technology, high performance pulse width modulator (PWM), automatic regulation of rotation speed, which promise optimal operation and high-efficiency under both full load and part load operation.



- A significant improvement(15%) in the heat exchange can be achieved by magnetic levitation technology without oil lubrication system, contact friction and the thermal resistance caused by oil film. The reliability of unit is remarkably improved in the meanwhile and makes service convenient.
- With build-in inverter, which enables variable motor speed of compressor under part load condition, the units are able to operate effectively and with lower power consumption. Soft start-up function makes the starting current of unit low to 2A, therefore to reduce impulse on power network and decease thermal stress of motor stator.

- Liquid refrigerant spray cooling promises stable operation of motor.
- The rotator and impeller of compressor are suspended in the magnetic field when operation. The sensor ring under the bearing keep sending real-time data to the bearing control system and adjust the position of shaft immediately to maintain its optimal running condition.
- The compressor operates without any oil, allowing its stable and low-noise operation. Furthermore, the whole system of the unit is greatly simplified because of eliminating oil system, which remarkably saves the cost of operation and maintenance.

Super-low Noise and Vibration

High speed of compressor running, while with no mechanical contact of bearing, enables super-low noise and vibration of compressor under both part load and full load.



High-efficiency Flooded Type Evaporator and Condenser

- The threaded tube facilitates the formation of gasification core, which therefore greatly enhances heat exchange efficiency of tube outside surface.
- The tube of condenser with thread benefits the dropwise condensation of refrigerant, which increases tube external efficiency. Moreover, the thread inside the tube of both evaporator and condenser enhances the disturbance and turbulence of water.
- Single circuit design for multiple compressors system improves unit part load efficiency.



Electronic Expansion Valve (EXV)

- The electronic valve is adopted to grant the ideal operation of the evaporator in all conditions.
- The fast processing of the acquired data allows a quick, fluctuation-free regulation, and therefore a highly accurate adjustment to the swings of load and ambient conditions.



Energy Conservation and Environment Protection

- Environment friendly refrigerant of HFC134a is adopted with ODP value 0.
- Optimized refrigerant system for better energy saving, lower
 CO₂ emission and higher operation efficiency.

Stability and Reliability

- In the case of power outage, the motor becomes a generator which feeds power to the various controls and bearing actuators then until the rotor de-levitates onto the touch-down bearings.
- The design, manufacturing and test of the unit are strictly complied with AHRI、EN、UNI、JIS and GB/T18430.1 standards.
- The protection level of enclosure conforms to GB4208-2008(China GB).
- The electric system is designed according to IEC60204-1/ GB5226.1 and the system meets with EMC specification.
- Performance test of the unit shall be strictly conducted before ex-work to ensure operation stability.

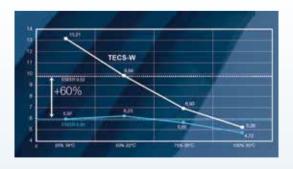
Easy Installation

- Vertically arrangement of compressor, condenser and evaporator enables compact design of the unit and small footbrint.
- Refrigerant charge, commissioning and test have been done before ex-factory.
- Water pipe connection and power supply are the only work need to do on site before operation.

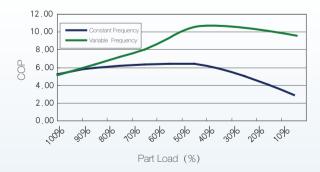
Excellent Part Load Performance

TECS-W/L-E is brought in by Climaveneta with extremely outstanding performance in the chiller industry. With magnetic levitation compressor, variable frequency inverter control and oil free lubrication system, the unit has boosted with 60% of ESEER to compare with traditional chiller and less service cost.

In the transition period, the cooling water temperature decline results in additional energy saving of the unit.



Cooling Water Temperature Linear Decline



Integrated part load value (ESEER)

Increasingly closer attention is being paid towards the power consumption of air-conditioning equipments.

In air-conditioning systems, the chiller only works in full load for a few hours per year. For this reason, "season efficiency" is the truly determining consumption factor.

The valuation indices have been adopted that consider usage in part load conditions as IPLV in the United States and ESEER in Europe.

ESEER up to 9.58, and IPLV up to 10

ESEER (European Seasonal Energy Efficiency Ratio): 0.03×A+0.33×B+0.41×C+0.23×D

Evaporator leaving at 7°C (constant), condenser water (inlet) at 30°C (100% load—A), 26°C (75% load—B), 22°C (50% load—C), 18°C (25% load—D).

IPLV (AHRI)

 $IPLV = 0.01 \times A + 0.42 \times B + 0.45 \times C + 0.12 \times D$

Evaporator leaving at 6.7 $^{\circ}$ C (constant), condenser water (inlet) at 29.4 $^{\circ}$ C (100% load—A), 23.9 $^{\circ}$ C (75% load—B), 18.3 $^{\circ}$ C (50% load—C), 18.3 $^{\circ}$ C (25% load—D).

IPLV (China GB)

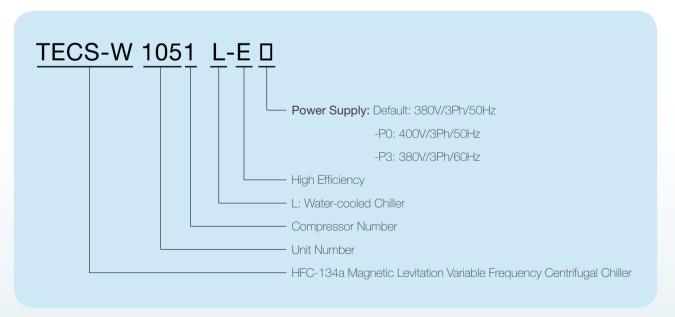
 $IPLV = 0.023 \times A + 0.415 \times B + 0.461 \times C + 0.101 \times D$

Evaporator leaving at 7°C (constant), condenser water (inlet) at 30°C (100% load—A), 26°C (75% load—B), 23°C (50% load—C), 19°C (25% load—D).

According GB19577-2015 Standard: TECS-W/L-E Whole Series Energy First Class



Nomenclature



TECS-W1051L-E

Means the water cooled high efficiency HFC-134a magnetic levitation variable frequency centrifugal chiller; unit number is 105; configured with 1 compressor, power supply 380V/3Ph/50Hz.

Advanced W3000 Touch Control System

The brand-new W3000 touch control system features friendly user interface, excellent control, strong expansion ability and compatibility.

Color LCD Display

The touch screen is embedded in the unit for convenient operation and well protection. The automatic control by the computer realizes unattended operation.

TFT LCD touch screen can display data and parameter adjustment in various languages and menus. According to the tradition of Climaveneta, the status and parameters of the compressor are visually displayed individually to make sure the operating status clear at a glance.



W3000 Touch Control System

Unit Control and Operation Management

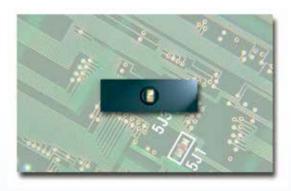
The advanced microcomputer intelligent control system of W3000 contains specially designed control algorithm of Climaveneta. It highlights the energy efficiency and reliability of the unit. The balanced running time of FIFO compressor prolongs the life of machine. The automatic adjustment of the output load makes the machine more energy saving. Combining with the load shedding system of the compressor, 25-100% stepless adjustment can be achieved and settings of the operating parameters can be adjusted, which is adaptable to different environments. The temperature and pressure protection using analog measurement can predict and prevent failure and increase reliability. Various expansion accessories are available, such as remote and group control.

Network Communication and Building Management Control

The chiller supports BMS connection and can provide MODBUS, LONWORKS, BACNET communication protocols with RS485 serial interface.

Fault Protection, Alarm and Analysis Capabilities

The microcomputer intelligent controller contains perfect functions of fault protection, alarm, recording and analysis. It has protection functions of high/low pressure switch, lack of phase, reverse phase, overload, overcurrent, overheat, exhaust temperature, water flow, frost and so on. The controller also achieves fault recording and alarm display. The unique "Black Box" fault recording and analyzing system can record 400 failures and more than 200 field data before each failure. It can diagnose and remove faults rapidly to improve the technical support ability. By connecting to the Climaveneta remote service program, it can find potential failures before they occur and take proper preventive treatments.



Patented Black Box

Technological Choices

Fast Restart

The management of fast restart allows to minimize downtime in case of power failure, through accelerating software selfdiagnose time, water pump start delay, pre-condensing time and compressor start time, meanwhile keeping all the necessary unit safety.

This option requires an external UPS power supply provided by customer.



Chilled Water Variable Flow Control

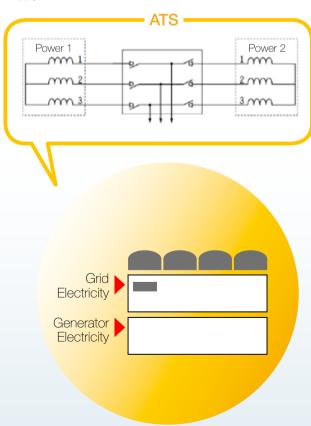


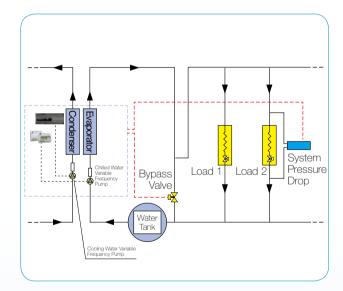
Extended module of variable flow control function enables chilled water variable frequency pump and pipe valve on-off control.

The control of chilled water side variable frequency pump, according to terminal side load, ensures lowest pump consumption.

Double Power Supply

This accessory entails the substitution of two separate power supply with ATS.





ClimaPRO Plant Room Optimization Group Control System (Option)



Microprocessor Control Features

Microprocessor	W3000	Microprocessor	W3000
Remote on/off with external volt-free contact	√	Energy limit function	OPT
Multi-language menu	V	Manual control	√
Phase sequence relay	$\sqrt{}$	ModBus communication protocol	OPT
Cumulative fault alarm	V	BACnet communication protocol	OPT
Alarms code function	$\sqrt{}$	LonWorks communication protocol	OPT
"BLACK BOX" alarm events record	V	Pump control	OPT
Self-test when power on	V	Backup pump control	OPT
Daily/weekly programming control	Par.	Water temp. regulation by external signal (4-20mA)	OPT
Evaporator inlet/outlet water temp. display	$\sqrt{}$	Remote relay control	OPT
Compressor/unit alarms display	V	Local/remote network monitor (FWS)	OPT
General unit alarms display	$\sqrt{}$	Remote secondary temp. control	OPT
Entering water temp. ratio control	V	Set-point regulation from external signal (0-5V)	OPT
Start/stop operating timer	Par.	Compressor run-timer, time balance & FIFO	1
Double set-point timer	Par.	Compressor start scheduling	√
"Pump-Down" when stopped	$\sqrt{}$		

√ Standard

OPT avaiable on request

Par. available by modifying a value of the configuration paramenters

Technical Parameters

TECS-W/L-E(-P0/P3)		0801	1051	1401	1421	1801	2152	2452	3252	3902	3903	4503	5203
Oneline Onesik	kW	281.0	422.0	493.0	552.1	703.0	880.0	1055.0	1231.0) 1407.0	1583.0	1759.0	1935.0
Cooling Capacity	RT	80	120	140	157	200	250	300	350	400	450	500	550
Power Input	kW	50.8	72.1	87.1	95.1	113.8	152.7	183.5	201.1	224.9	266.3	291.0	311.0
EER		5.53	5.85	5.66	5.81	6.18	5.76	5.75	6.12	6.26	5.94	6.04	6.22
IPLV		8.46	8.43	8.63	8.89	8.38	8.95	8.74	8.87	8.84	8.84	9.06	9.17
Chilled Water Flow	m³/h	48.35	72.58	84.82	94.97	120.92	151.34	181.51	211.72	2 242.06	3 272.34	302.58	332.82
Chilled Water Pressure Drop	kPa	42.80	48.20	40.00	50.00	82.20	55.90	80.50	47.10	45.10	57.30	49.50	47.70
Cooling Water Flow	m³/h	58.90	87.73	106.45	118.76	151.20	183.35	227.34	265.03	3 302.18	339.55	369.00	415.80
Cooling Water Pressure Drop	kPa	42.00	48.10	41.90	52.10	65.80	55.50	83.90	41.50	39.30	49.70	41.00	41.60
Microprocessor							W3000	Touch			,		
Compressor No.	n	1	1	1	1	1	2	2	2	2	3	3	3
Refrigerant Circuit No.	n	1	1	1	1	1	1	1	1	1	1	1	1
Stepless Energy Regulation			20	0%-100%	6			15%	-100%	•		10%-100	%
Operating Weight	kg	1,835	1,930	2,115	2,150	2,385	3,100	3,112	4,625	4,785	5,347	5,760	6,080
Dimension											•		
Length	mm	2,930	2,930	2,930	2,930	2,930	2,990	2,990	4,450	4,450	4,450	4,450	4,450
Width	mm	1,210	1,210	1,210	1,210	1,400	1,480	1,480	1,350	1,350	1,450	1,360	1,360
Height	mm	1,800	1,800	1,800	1,800	1,830	1,980	1,980	2,050	2,050	1,990	2,150	2,150
TECS-W/L-E(-P0/P3)		5853	6304	6904	750	4 810	04 89	005	806	11006	12106	16108	20H10
TECS-W/L-E(-P0/P3)	kW	5853 2110.0	6304	6904						11006 3869.0	12106 4220.0	16108 5626	20H10 7032
TECS-W/L-E(-P0/P3) Cooling Capacity	kW RT	5853 2110.0 600	2286.0	6904 2462.0 700	2638	.0 2814	4.0 316	65.0 3	517.0	3869.0	4220.0	5626	7032
Cooling Capacity	RT	2110.0 600	2286.0 650	2462.0 700	2638 750	.0 2814) 80	4.0 316 0 9	65.0 3: 00 -	517.0	3869.0 1100	4220.0 1200	5626 1600	7032 2000
Cooling Capacity Power Input		2110.0 600 339.8	2286.0 650 371.9	2462.0 700 395.5	2638 750 419.	.0 2814) 80 4 444	4.0 316 0 9 5 50	35.0 3 00 - 3.4 5	517.0 1000 667.6	3869.0 1100 614.1	4220.0 1200 663.0	5626 1600 904.5	7032 2000 1130.5
Cooling Capacity	RT	2110.0 600	2286.0 650 371.9 6.15	2462.0 700	2638 750	.0 2814) 80 4 444) 6.3	4.0 316 0 9 .5 50 3 6.	65.0 3: 00 3: 3.4 5: 29 (517.0	3869.0 1100 614.1 6.30	4220.0 1200	5626 1600 904.5 6.22	7032 2000
Cooling Capacity Power Input EER	RT kW	2110.0 600 339.8 6.21	2286.0 650 371.9	2462.0 700 395.5 6.23 9.08	750 750 419. 6.29 9.00	.0 2814) 80 4 444 9 6.3) 9.0	4.0 316 0 9 5 50 3 6.	65.0 3: 00 - 3.4 5: 29 (517.0 1000 67.6 6.20 9.16	3869.0 1100 614.1 6.30 9.23	4220.0 1200 663.0 6.37 9.19	5626 1600 904.5	7032 2000 1130.5 6.22 9.15
Cooling Capacity Power Input EER IPLV	RT	2110.0 600 339.8 6.21 8.94	2286.0 650 371.9 6.15 9.09	2462.0 700 395.5 6.23	750 750 419. 6.29 9.00 6 453.6	.0 2814 0 80 4 444 9 6.3 0 9.0 60 484.	4.0 316 0 9 .5 50 3 6. 11 9. 20 54	65.0 3: 00 3: 3.4 5: 29 9 19 9:	517.0 1000 67.6 6.20 9.16	3869.0 1100 614.1 6.30	4220.0 1200 663.0 6.37	5626 1600 904.5 6.22 9.28	7032 2000 1130.5 6.22
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop	RT kW m³/h kPa	2110.0 600 339.8 6.21 8.94 362.88	2286.0 650 371.9 6.15 9.09 393.12 48.10	2462.0 700 395.5 6.23 9.08 423.36	2638 750 419. 6.29 9.00 6 453.6	.0 2814 9 80 4 444 9 6.3 0 9.0 60 484. 0 58.7	4.0 316 0 9 5 50 3 6. 11 9. 20 544 70 53	65.0 3: 00 3.4 5: 29 1: 19 5: 4.32 6: .40 6:	517.0 1000 167.6 16.20 19.16 104.80 15.90	3869.0 1100 614.1 6.30 9.23 665.64 70.90	4220.0 1200 663.0 6.37 9.19 725.76 89.70	5626 1600 904.5 6.22 9.28 967.68 54.4	7032 2000 1130.5 6.22 9.15 1209.6 78.7
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow	RT kW m³/h	2110.0 600 339.8 6.21 8.94 362.88 64.70	2286.0 650 371.9 6.15 9.09 393.12	2462.0 700 395.5 6.23 9.08 423.36 55.70	2638 750 419. 6.29 9.00 5 453.6 51.6 4 565.9	.0 2814 0 80 4 444 0 6.3 0 9.0 60 484. 0 58.7 60 603.	4.0 316 0 9 .5 50 3 6. 11 9. 20 544 70 53 36 684	65.0 3: 00 5 3.4 5 29 1 19 5 1.32 6 1.40 6 1.72 7	517.0 1000 167.6 16.20 19.16 104.80 15.90	3869.0 1100 614.1 6.30 9.23 665.64 70.90 837.00	4220.0 1200 663.0 6.37 9.19 725.76	5626 1600 904.5 6.22 9.28 967.68	7032 2000 1130.5 6.22 9.15 1209.6
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop	RT kW m³/h kPa m³/h	2110.0 600 339.8 6.21 8.94 362.88 64.70 453.60	2286.0 650 371.9 6.15 9.09 393.12 48.10 492.12	2462.0 700 395.5 6.23 9.08 423.36 55.70 528.8	2638 750 419. 6.29 9.00 5 453.6 51.6 4 565.9	.0 2814 0 80 4 444 0 6.3 0 9.0 60 484. 0 58.7 60 603.	4.0 316 0 9 .5 50 3 6. 1 9. 20 544 70 53 36 684 90 56	65.0 3: 00 3.4 5 29 9 19 9 1.32 6 1.40 6 1.72 7 1.30 6	517.0 1000 167.6 16.20 19.16 104.80 15.90 16.248	3869.0 1100 614.1 6.30 9.23 665.64 70.90	4220.0 1200 663.0 6.37 9.19 725.76 89.70 911.52	5626 1600 904.5 6.22 9.28 967.68 54.4 1215.7	7032 2000 1130.5 6.22 9.15 1209.6 78.7 1519.56
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop	RT kW m³/h kPa m³/h	2110.0 600 339.8 6.21 8.94 362.88 64.70 453.60	2286.0 650 371.9 6.15 9.09 393.12 48.10 492.12	2462.0 700 395.5 6.23 9.08 423.36 55.70 528.8	2638 750 419. 6.29 9.00 5 453.6 51.6 4 565.9	.0 2814 0 80 4 444 0 6.3 0 9.0 60 484. 0 58.7 60 603.	4.0 316 0 9 .5 50 3 6. 11 9. 20 544 70 53 36 684 90 56 W3000	65.0 3: 00 5 3.4 5 29 1 19 5 1.32 6 1.40 6 1.72 7	517.0 1000 167.6 16.20 19.16 104.80 15.90 16.248	3869.0 1100 614.1 6.30 9.23 665.64 70.90 837.00	4220.0 1200 663.0 6.37 9.19 725.76 89.70 911.52	5626 1600 904.5 6.22 9.28 967.68 54.4 1215.7	7032 2000 1130.5 6.22 9.15 1209.6 78.7 1519.56
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor	m³/h kPa m³/h kPa	2110.0 600 339.8 6.21 8.94 362.88 64.70 453.60 59.80	2286.0 650 371.9 6.15 9.09 393.12 48.10 492.12 60.70	2462.0 700 395.5 6.23 9.08 423.36 55.70 528.84 70.10	2638 750 419. 6.29 9.00 6 453.6 51.6 4 565.9 6 64.2	.0 2814 9 80 4 444 9 6.3 0 9.0 60 484. 0 58.7 603. 72.9	4.0 310 0 9 .5 50 3 6. 11 9. 20 544 70 53 336 684 90 56	65.0 3: 00 3.4 5: 29 19 9: 14.32 6: .40 6: 4.72 7: .30 6:) Touch	517.0 1000 67.6 3.20 9.16 04.80 15.90 15.90 16.2.48 19.80	3869.0 1100 614.1 6.30 9.23 665.64 70.90 837.00 77.10	4220.0 1200 663.0 6.37 9.19 725.76 89.70 911.52 99.90	5626 1600 904.5 6.22 9.28 967.68 54.4 1215.7 55.5	7032 2000 1130.5 6.22 9.15 1209.6 78.7 1519.56 71.3
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No.	m³/h kPa m³/h kPa	2110.0 600 339.8 6.21 8.94 362.88 64.70 453.60 59.80	2286.0 650 371.9 6.15 9.09 393.12 48.10 492.12 60.70	2462.6 700 395.5 6.23 9.08 423.36 55.70 528.84 70.10	2638 750 6 419. 6.29 9.00 6 453.6 51.6 4 565.9	.0 2814 .0 80 .4 444 .0 6.3 .0 9.0 .60 484. .0 58. .0 72. .0 72. .0 44	4.0 310 0 9 .5 50 3 6. 11 9. 20 544 70 53 336 684 90 56	65.0 3.3 3.0 3.3 3.4 5.2 5.2 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3	517.0 1000 67.6 3.20 9.16 04.80 5.90 62.48 9.80	3869.0 1100 614.1 6.30 9.23 665.64 70.90 837.00 77.10	4220.0 1200 663.0 6.37 9.19 725.76 89.70 911.52 99.90	5626 1600 904.5 6.22 9.28 967.68 54.4 1215.7 55.5	7032 2000 1130.5 6.22 9.15 1209.6 78.7 1519.56 71.3
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No.	m³/h kPa m³/h kPa n	2110.0 600 339.8 6.21 8.94 362.88 64.70 453.60 59.80 3 1	2286.0 650 371.9 6.15 9.09 393.12 48.10 492.12 60.70	2462.6 700 395.5 6.23 9.08 423.36 55.70 528.84 70.10	2638 750 419. 6.29 9.00 51.66 453.6 51.64 565.9 64.2 4 2 8%-10	.0 2814 .0 80 .4 444 .0 6.3 .0 9.0 .60 484. .0 58. .0 22 603. .0 72. .0 44 .0 2	4.0 310 0 9 .5 50 3 6. 11 9. 20 544 70 53 36 684 90 56	65.0 33 000	517.0 1000 67.6 5.20 9.16 04.80 55.90 62.48 9.80 6 2	3869.0 1100 614.1 6.30 9.23 665.64 70.90 837.00 77.10	4220.0 1200 663.0 6.37 9.19 725.76 89.70 911.52 99.90	5626 1600 904.5 6.22 9.28 967.68 54.4 1215.7 55.5	7032 2000 1130.5 6.22 9.15 1209.6 78.7 1519.56 71.3
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No. Stepless Energy Regulation	m³/h kPa m³/h kPa	2110.0 600 339.8 6.21 8.94 362.88 64.70 453.60 59.80 3 1	2286.0 650 371.9 6.15 9.09 393.12 48.10 492.12 60.70 4	2462.6 700 395.5 6.23 9.08 423.36 55.70 528.84 70.10	2638 750 419. 6.29 9.00 51.66 453.6 51.64 565.9 64.2 4 2 8%-10	.0 2814 .0 80 .4 444 .0 6.3 .0 9.0 .60 484. .0 58. .0 22 603. .0 72. .0 44 .0 2	4.0 310 0 9 .5 50 3 6. 11 9. 20 544 70 53 36 684 90 56	65.0 33 000	517.0 1000 67.6 5.20 9.16 04.80 55.90 62.48 9.80 6 2	3869.0 1100 614.1 6.30 9.23 665.64 70.90 837.00 77.10 6 2	4220.0 1200 663.0 6.37 9.19 725.76 89.70 911.52 99.90 6 2 5%-1	5626 1600 904.5 6.22 9.28 967.68 54.4 1215.7 55.5 8 2	7032 2000 1130.5 6.22 9.15 1209.6 78.7 1519.56 71.3
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No. Stepless Energy Regulation Operating Weight	m³/h kPa m³/h kPa n	2110.0 600 339.8 6.21 8.94 362.88 64.70 453.60 59.80 3 1	2286.0 650 371.9 6.15 9.09 393.12 48.10 492.12 60.70 4	2462.6 700 395.5 6.23 9.08 423.36 55.70 528.84 70.10	2638 750 419. 6.29 9.00 6 453.6 51.6 64.2 4 2 8%-10 9,31	.0 2814 .0 80 .4 444 .0 6.3 .0 9.0 .0 484. .0 58. .0 72. .0 42. .0 40 .0 72. .0 40 .0 9.36	4.0 310 9 .5 50 3 6.11 9.20 544 70 53 36 684 90 566 W3000	65.0 3: 00 - 3.4 5: 29 (1) 19 5: 4.32 6: .40 6: .40 6: .30 6: .30 6: .30 6: .30 6: .30 6: .30 6: .30 6: .30 6: .30 6: .30 6: .30 6: .30 7: .30 6: .30 7: .30	517.0 1000 67.6 5.20 9.16 04.80 55.90 62.48 9.80 6 2	3869.0 1100 614.1 6.30 9.23 665.64 70.90 837.00 77.10 6 2	4220.0 1200 663.0 6.37 9.19 725.76 89.70 911.52 99.90 6 2 5%-1	5626 1600 904.5 6.22 9.28 967.68 54.4 1215.7 55.5 8 2	7032 2000 1130.5 6.22 9.15 1209.6 78.7 1519.56 71.3
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No. Stepless Energy Regulation Operating Weight Dimension	m³/h kPa m³/h kPa n n	2110.0 600 339.8 6.21 8.94 362.88 64.70 453.60 59.80 3 1 10%-100% 6,690	2286.0 650 371.9 6.15 9.09 393.12 48.10 492.12 60.70 4 2 8,770	2462.0 700 395.5 6.23 9.08 423.30 55.70 528.8 70.10 4 2	2638 750 419. 6.29 9.00 6.6 453.6 51.6 51.6 64.2 4 2 8%-10 9,31	.0 2814 9 80 4 444 9 6.3 0 9.0 58.1 0 58.1 4 2 0% 0 9,36	4.0 316 9 .5 50 3 6.1 1 9. 20 544 70 53 36 684 90 56 W3000	65.0 3: 000 - 3.4 5: 29 (29 6) 4.32 6) .40 6: .40 6: 0 Touch 5 2 6% 570 1	517.0 1000 67.6 5.20 9.16 9.480 5.90 62 9.80 6 2 9.100% 1,800	3869.0 1100 614.1 6.30 9.23 665.64 70.90 837.00 77.10 6 2 12,520	4220.0 1200 663.0 6.37 9.19 725.76 89.70 911.52 99.90 6 2 5%-1 13,680	5626 1600 904.5 6.22 9.28 967.68 54.4 1215.7 55.5 8 2	7032 2000 1130.5 6.22 9.15 1209.6 78.7 1519.56 71.3 10 2
Cooling Capacity Power Input EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No. Stepless Energy Regulation Operating Weight Dimension Length	m³/h kPa m³/h kPa n n	2110.0 600 339.8 6.21 8.94 362.88 64.70 453.60 59.80 3 1 10%-100% 6,690	2286.0 650 371.9 6.15 9.09 393.12 48.10 492.12 60.70 4 2	2462.0 700 395.5 6.23 9.08 423.30 55.70 528.8 70.10	0 2638 750 419. 6.29 9.00 6 453.6 51.6 64.2 4 2 8%-10 9,31	.0 2814 9 80 4 444 9 6.3 0 9.0 58.1 0 58.1 0 72.9 4 2 0% 0 9,36 0 5,00 0 2,20	4.0 310 9 .5 50 3 6. 11 9. 20 544 70 53 36 684 90 56 W3000	65.0 3.00 3.4 5.00 3.4 5.00 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	517.0 1000 67.6 5.20 9.16 04.80 5.90 62.48 9.80 6 2 9.100% 1,800	3869.0 1100 614.1 6.30 9.23 665.64 70.90 837.00 77.10 6 2	4220.0 1200 663.0 6.37 9.19 725.76 89.70 911.52 99.90 6 2 5%-1 13,680	5626 1600 904.5 6.22 9.28 967.68 54.4 1215.7 55.5 8 2 00% 16980	7032 2000 1130.5 6.22 9.15 1209.6 78.7 1519.56 71.3 10 2 21940

^{1.} Cooling condition: outlet temperature of chilled water 7°C, chilled water flow per cooling capacity 0.172 m³/(h⋅kW); outlet temperature of cooling water 30°C , cooling water flow per cooling capacity 0.215 m 3 /(h·kW) .; 2. IPLV is measured according to GB/T 18430.1;

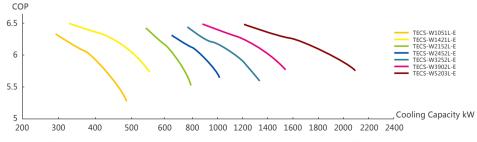
^{3.} Standard water side pressure of evaporator and condenser is 1.0MPa. 1.6MPa or 2.0MPa is optional.

Technical Parameters

		0801	1051	1401	1421	1801	2152	2452	2 325	2 3902	3903	4503	5203
Cooling Capacity	kW	275.2	368.1	503.7	507.5	631.4	751.5	873.				1616.0	1797.0
Occining Capacity	RT	78	105	143	144	180	214	248				459	511
Power Input	kW	50.2	61	92.5	85.9	103.3	126.1	145.	9 189.	6 227.5	5 226.5	263	287.2
EER		5.48	6.03	5.45	5.91	6.11	5.96	5.98	6.1	6.12	6.1	6.14	6.26
IPLV		9.82	9.56	9.97	10.2	9.81	10.3	10.0	10.2	2 10.2	10.3	10.3	10.4
Chilled Water Flow	m³/h	42.70	57.10	78.12	78.70	97.92	116.57	135.4	13 179.6	60 215.9	6 214.34	250.63	278.75
Chilled Water Pressure Drop	kPa	33.3	29.8	33.9	34.4	40.7	33.1	44.7	33.9	35.9	35.4	33.9	33.4
Cooling Water Flow	m³/h	54.00	71.24	98.93	98.53	122.00	145.73	169.2	20 223.8	31 269.0	3 267.12	312.05	346.21
Cooling Water Pressure Drop	kPa	35.3	31.6	36.1	35.8	42.7	35	46.4	1 29.6	31.1	30.7	29.2	28.8
Microprocessor							W300	0 Touch	า				
Compressor No.	n	1	1	1	1	1	2	2	2	2	3	3	3
Refrigerant Circuit No.	n	1	1	1	1	1	1	1	1	1	1	1	1
Stepless Energy Regulation			20)%-100%)			159	%-100%			10%-100	%
Operating Weight	kg	1,835	1,930	2,115	2,150	2,385	3,100	3,11	2 4,62	5 4,785	5 5,347	5,760	6,080
Dimension													
Length	mm	2,930	2,930	2,930	2,930	2,930	2,990	2,99	0 4,45	0 4,450	4,450	4,450	4,450
Width	mm	1,210	1,210	1,210	1,210	1,400	1,480	1,48	0 1,35	0 1,350	1,450	1,360	1,360
Height	mm	1,800	1,800	1,800	1,800	1,830	1,980	1,98	0 2,05	0 2,050	1,990	2,150	2,150
TEOO M/IL E/ DO/DO\\		5050	0004	0004	750		4	205	0000	11000	10100	10100	001140
TECS-W/L-E(-P0/P3)		5853	6304	6904	7504			905	9806	11006	12106	16108	20H10
Cooling Capacity	kW	1926.0	2120.0	2273.0					3473.0	3884.0	4300.0	5626	7032
	RT	548	603	646	687			01	987	1104	1222	1600	2000
Power Input	kW	311.6	341	362.9	383.4			7.7	572.2	634.2	697.6	895.3	1118.3
EER	KVV	6.18	6.22	6.26	6.3	6.3	3 6	.12	6.07	6.12	6.16	6.28	6.29
EER IPLV		6.18 10.2	6.22 10.5	6.26 10.5	6.3 10.6	6.0 10.	3 6 7 1	.12 0.5	6.07 10.5	6.12 10.5	6.16 10.6	6.28 10.9	6.29 10.9
EER IPLV Chilled Water Flow	m³/h	6.18 10.2 298.76	6.22 10.5 328.86	6.26 10.5 352.58	6.3 10.6 374.7	6.0 6 10. 6 399.	3 6 7 1 60 49	.12 0.5 1.40	6.07 10.5 538.56	6.12 10.5 602.28	6.16 10.6 666.72	6.28 10.9 870.84	6.29 10.9 1088.64
EER IPLV Chilled Water Flow Chilled Water Pressure Drop	m³/h kPa	6.18 10.2 298.76 43.7	6.22 10.5 328.86 33.5	6.26 10.5 352.58 38.5	6.3 10.6 374.7 35.1	6.3 10.76 399.	3 6 7 1 60 49 9 4	.12 0.5 1.40 3.5	6.07 10.5 538.56 52.2	6.12 10.5 602.28 58.1	6.16 10.6 666.72 75.6	6.28 10.9 870.84 53.9	6.29 10.9 1088.64 59.2
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow	m³/h kPa m³/h	6.18 10.2 298.76 43.7 371.52	6.22 10.5 328.86 33.5 408.96	6.26 10.5 352.58 38.5 437.76	6.3 10.6 374.7 35.1 465.1	6.3 10.7 6 399. 39. 2 495.	3 6 7 1 60 49 9 4 72 61	.12 0.5 1.40 3.5 2.36	6.07 10.5 538.56 52.2 671.76	6.12 10.5 602.28 58.1 750.24	6.16 10.6 666.72 75.6 829.80	6.28 10.9 870.84 53.9 1085.4	6.29 10.9 1088.64 59.2 1356.4
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop	m³/h kPa	6.18 10.2 298.76 43.7	6.22 10.5 328.86 33.5	6.26 10.5 352.58 38.5	6.3 10.6 374.7 35.1	6.3 10.7 6 399. 39. 2 495.	3 6 7 1 60 49 9 4 72 61	.12 0.5 1.40 3.5	6.07 10.5 538.56 52.2	6.12 10.5 602.28 58.1	6.16 10.6 666.72 75.6	6.28 10.9 870.84 53.9	6.29 10.9 1088.64 59.2
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow	m³/h kPa m³/h	6.18 10.2 298.76 43.7 371.52 40.1	6.22 10.5 328.86 33.5 408.96	6.26 10.5 352.58 38.5 437.76	6.3 10.6 374.7 35.1 465.1	6.3 10.7 6 399. 39. 2 495.	3 6 7 1 60 49 9 4 72 61 2	.12 0.5 1.40 3.5 2.36	6.07 10.5 538.56 52.2 671.76 54.2	6.12 10.5 602.28 58.1 750.24	6.16 10.6 666.72 75.6 829.80 82.7	6.28 10.9 870.84 53.9 1085.4 51.8	6.29 10.9 1088.64 59.2 1356.4 49.7
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No.	m³/h kPa m³/h	6.18 10.2 298.76 43.7 371.52 40.1	6.22 10.5 328.86 33.5 408.96 41.8	6.26 10.5 352.58 38.5 437.76 47.9	6.3 10.6 374.7 35.1 465.1 43.3	6.3 6 10. 76 399. 39. 2 495. 3 49.	3 6 7 1 60 49 9 4 72 61 2	.12 0.5 1.40 3.5 2.36 45	6.07 10.5 538.56 52.2 671.76 54.2	6.12 10.5 602.28 58.1 750.24 61.9	6.16 10.6 666.72 75.6 829.80 82.7	6.28 10.9 870.84 53.9 1085.4 51.8	6.29 10.9 1088.64 59.2 1356.4 49.7
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor	m³/h kPa m³/h kPa	6.18 10.2 298.76 43.7 371.52 40.1	6.22 10.5 328.86 33.5 408.96 41.8	6.26 10.5 352.58 38.5 437.76 47.9	6.3 10.6 374.7 35.1 465.1 43.3	6.3 10.3 399. 39. 2 495. 3 49.	3 6 7 1 60 49 9 4 72 61 2	.12 0.5 1.40 3.5 2.36	6.07 10.5 538.56 52.2 671.76 54.2	6.12 10.5 602.28 58.1 750.24 61.9	6.16 10.6 666.72 75.6 829.80 82.7	6.28 10.9 870.84 53.9 1085.4 51.8	6.29 10.9 1088.64 59.2 1356.4 49.7
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No. Stepless Energy Regulation	m³/h kPa m³/h kPa n n	6.18 10.2 298.76 43.7 371.52 40.1 3 1	6.22 10.5 328.86 33.5 408.96 41.8	6.26 10.5 352.58 38.5 437.76 47.9	6.3 10.6 374.7 35.1 465.1 43.3 4 2 8%-10	6.3 10. 399. 39. 2 495. 3 49. 4 2	3 66 7 1 60 49 9 4 72 61 2	.12 0.5 1.40 3.5 2.36 45 5 2	6.07 10.5 538.56 52.2 671.76 54.2 6 2 5%-100%	6.12 10.5 602.28 58.1 750.24 61.9 6	6.16 10.6 666.72 75.6 829.80 82.7 6 2 5%-1	6.28 10.9 870.84 53.9 1085.4 51.8 8 2	6.29 10.9 1088.64 59.2 1356.4 49.7
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No.	m³/h kPa m³/h kPa	6.18 10.2 298.76 43.7 371.52 40.1 3 1	6.22 10.5 328.86 33.5 408.96 41.8	6.26 10.5 352.58 38.5 437.76 47.9	6.3 10.6 374.7 35.1 465.1 43.3	6.3 10. 399. 39. 2 495. 3 49. 4 2	3 66 7 1 60 49 9 4 72 61 2	.12 0.5 1.40 3.5 2.36 45 5 2	6.07 10.5 538.56 52.2 671.76 54.2 6 2	6.12 10.5 602.28 58.1 750.24 61.9	6.16 10.6 666.72 75.6 829.80 82.7 6	6.28 10.9 870.84 53.9 1085.4 51.8	6.29 10.9 1088.64 59.2 1356.4 49.7
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No. Stepless Energy Regulation	m³/h kPa m³/h kPa n n	6.18 10.2 298.76 43.7 371.52 40.1 3 1	6.22 10.5 328.86 33.5 408.96 41.8	6.26 10.5 352.58 38.5 437.76 47.9	6.3 10.6 374.7 35.1 465.1 43.3 4 2 8%-10	6.3 10. 399. 39. 2 495. 3 49. 4 2	3 66 7 1 60 49 9 4 72 61 2	.12 0.5 1.40 3.5 2.36 45 5 2	6.07 10.5 538.56 52.2 671.76 54.2 6 2 5%-100%	6.12 10.5 602.28 58.1 750.24 61.9 6	6.16 10.6 666.72 75.6 829.80 82.7 6 2 5%-1	6.28 10.9 870.84 53.9 1085.4 51.8 8 2	6.29 10.9 1088.64 59.2 1356.4 49.7
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No. Stepless Energy Regulation Operating Weight	m³/h kPa m³/h kPa n n	6.18 10.2 298.76 43.7 371.52 40.1 3 1	6.22 10.5 328.86 33.5 408.96 41.8	6.26 10.5 352.58 38.5 437.76 47.9	6.3 10.6 374.7 35.1 465.1 43.3 4 2 8%-10	6.3 6.3 76 399. 39. 2 495. 4 2 0% 0 9,36	3 6 7 1 60 49 9 4 72 61 2	.12 0.5 1.40 3.5 2.36 45 5 2	6.07 10.5 538.56 52.2 671.76 54.2 6 2 5%-100%	6.12 10.5 602.28 58.1 750.24 61.9 6	6.16 10.6 666.72 75.6 829.80 82.7 6 2 5%-1	6.28 10.9 870.84 53.9 1085.4 51.8 8 2	6.29 10.9 1088.64 59.2 1356.4 49.7 10 2 21940
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No. Stepless Energy Regulation Operating Weight Dimension	m³/h kPa m³/h kPa n n	6.18 10.2 298.76 43.7 371.52 40.1 3 1 10%-100% 6,690	6.22 10.5 328.86 33.5 408.96 41.8 4 2	6.26 10.5 352.58 38.5 437.76 47.9 4 2	6.3 10.6 374.7 35.1 465.1 43.3 4 2 8%-10 9,310	6.3 6.10. 76 399. 39. 2 495. 3 49. 4 2 0% 0 9,36	3 6 7 1 60 49 9 4 72 61 2 65 11	.12 0.5 1.40 3.5 2.36 45 5 2	6.07 10.5 538.56 52.2 671.76 54.2 6 2 6%-100% 11,800	6.12 10.5 602.28 58.1 750.24 61.9 6 2	6.16 10.6 666.72 75.6 829.80 82.7 6 2 5%-1 13,680	6.28 10.9 870.84 53.9 1085.4 51.8 8 2 00% 16980	6.29 10.9 1088.64 59.2 1356.4 49.7 10 2
EER IPLV Chilled Water Flow Chilled Water Pressure Drop Cooling Water Flow Cooling Water Pressure Drop Microprocessor Compressor No. Refrigerant Circuit No. Stepless Energy Regulation Operating Weight Dimension Length	m³/h kPa m³/h kPa n n kg	6.18 10.2 298.76 43.7 371.52 40.1 3 1 10%-100% 6,690 5,310	6.22 10.5 328.86 33.5 408.96 41.8 4 2 8,770	6.26 10.5 352.58 38.5 437.76 47.9 4 2 8,850	6.3 10.6 374.7 35.1 465.1 43.3 4 2 8%-10 9,310	6.3 6.10. 76 399. 39. 2 495. 3 49. 4 2 0% 0 9,36	3 6 7 1 60 49 9 4 72 61 2 65 11	.12 0.5 1.40 3.5 2.36 45 5 2 (5,570	6.07 10.5 538.56 52.2 671.76 54.2 6 2 5%-100% 11,800	6.12 10.5 602.28 58.1 750.24 61.9 6 2 12,520	6.16 10.6 666.72 75.6 829.80 82.7 6 2 5%-1 13,680	6.28 10.9 870.84 53.9 1085.4 51.8 8 2 00% 16980	6.29 10.9 1088.64 59.2 1356.4 49.7 10 2 21940

Remarks:

- 1. Standard Cooling Condition: Chilled water (in/out)=12.2/6.7°C; Condenser water (in/out)=29.4/34.6°C;
- 2. IPLV is measured according to AHRI Standard 550/590;
- 3. Standard water side pressure of evaporator and condenser is 1.0MPa. 1.6MPa or 2.0MPa is optional.



Each project has different application and demand: some require best full load efficiency, while others lowest initial investment, or an unrivaled part load performance. CLIMAVENETA provides optimized and tailored solution based on different cooling capacity and efficiency demand.

Electric Parameters

	TECS-W/L-E(-P3)		0801	1051	1401	1421	1801	2152	2452	3252
		n		1	1	1	1	1	2	2	2
	Compressor (Single)	F.L.I	kW	80	105	105	105	124	105	105	105/124
Max Value		F.L.A	А	145	170	170	170	206	170	170	170/206
	Unit	F.L.I	kW	80	105	105	105	124	210	210	229
	Uffil	F.L.A	А	145	170	170	170	206	340	340	376
Reco	ommended Cal	ole	mm²	50	70	70	70	95	185	185	120*2

	TECS-W/L-E(-P3)		3902	3903	4503	5203	5853	6304	6904	7504
		n		2	3	3	3	3	4	4	4
	Compressor (Single)	F.L.I	kW	124	105	105*2/124	105/124*2	124	105*3/124	105*2/124*2	105/124*3
Max Value		F.L.A	А	206	170	170*2/206	170/206*2	206	170*3/206	170*2/206*2	170/206*3
	Unit	F.L.I	kW	248	315	334	353	372	439	458	477
	Offit	F.L.A	А	412	510	546	582	618	716	752	788
Reco	ommended Cal	ole	mm²	120*2	150*2	150*2	185*2	185*2	240*2	240*2	240*2

	TECS-W/L-E(-P3)		8104	8905*	9806*	11006*	12106*	16108*	20H10*
		n		4	5	6	6	6	8	10
	Compressor (Single)	F.L.I ł	άW	124	105*2/124*3	105*4/124*2	105*2/124*4	124	125	125
Max Value		F.L.A	Α	206	170*2/206*3	170*4/206*2	170*2/206*4	206	206	206
	Unit	F.L.I I	άW	496	582	668	706	744	1000	1250
	Offit	F.L.A	Α	824	958	1092	1164	1236	1648	2060
Rec	ommended Ca	ıble m	m² 3	300*2/185*3	185*2	185*2	185*2	185*2	300*2	400*2

Note:

1. F.L.I Full load power input at max admissible condition

F.L.A Full load current ampere at max admissible condition

Supply power 380V-3Ph-50Hz(60Hz) Range of voltage fluctuation: 10% Range of voltage unbalance: 3%

The rated power and current are based on the rated working condition. The maximum data is the theoretical limit value. When making wiring and power distribution, the data in the table are as reference. The energy limit function shall be selected as option while the power supply is insufficient.

4. The cables size in use shall not be less than the value in the table.

^{2.} set power cables for the unit with "*" mark. The wiring cables shall be single-pole and exposed laying type. 3. The cables in the table are chosen under the working temperature of 90°C and environment temperature of 30°C.

Electric Parameters

	TECS-W/L-E	-P0		0801	1051	1401	14	421	180	1	2152	2452	3252	
		n		1	1	1		1	1		2	2	2	Ī
	Compressor (Single)	F.L.I	kW	80	105	105	1	05	124	ļ	105	105	105/124	
Max Value	, ,	F.L.A	А	145	170	170	1	70	196	3	170	170	170/206	
	Unit	F.L.I	kW	80	105	105	1	05	124	ļ	210	210	229	
	Uniit	F.L.A	А	145	170	170	1	70	196	}	340	340	366	
Reco	ommended Cal	ole	mm²	50	70	70	-	70	95		185	185	120*2	
	TECS-W/L-E	-P0		3902	3903	4503	52	203	585	3	6304	6904	7504	
		n		2	3	3		3	3		4	4	4	
	Compressor (Single)	F.L.I	kW	124	105	105*2/124	105/	′124*2	124	ļ	105*3/12	24 105*2/124*2	2 105/124*3	
Max Value	, ,	F.L.A	А	196	170	170*2/196	170/	′196*2	196	3	170*3/19	96 170*2/196*2	2 170/196*3	
	Unit	F.L.I	kW	248	315	334	3	53	372) -	439	458	477	
	Offit	F.L.A	А	392	510	536	5	62	588	}	706	732	758	
Reco	mmended Cal	ole	mm²	120*2	150*2	150*2	18	35*2	185*	2	240*2	240*2	240*2	
	TECS-W/L-E	-P0		8104	8905*	980	6*	110	006*	12	2106*	16108*	20H10*	
		n		4	5	6		(6		6	8	10	
	Compressor (Single)	F.L.I	kW	124	105*2/12	4*3 105*4/1	24*2	105*2	/124*4		124	125	125	
Max Value		F.L.A	А	196	170*2/196	6*3 170*4/1	96*2	170*2	/196*4		196	196	196	
		F.L.I	kW	496	582	668	3	70	06		744	1000	1250	

1. F.L.I Full load power input at max admissible condition

F.L.A Full load current ampere at max admissible condition

Supply power 400V-3Ph-50Hz

Range of voltage fluctuation: 10%

Unit

Recommended Cable

Range of voltage unbalance: 3%

The rated power and current are based on the rated working condition. The maximum data is the theoretical limit value. When making wiring and power distribution, the data in the table are as reference. The energy limit function shall be selected as option while the power

1072

185*2

1124

185*2

1176

185*2

1568

300*2

1960

400*2

2. 2 set power cables for the unit with "*" mark. The wiring cables shall be single-pole and exposed laying type.

784

300*2/185*3

3. The cables in the table are chosen under the working temperature of 90°C and environment temperature of 30°C.

928

185*2

4. The cables size in use shall not be less than the value in the table.

Electric Specification

TECS-W/L-E Standard Configuration: Line Reactor

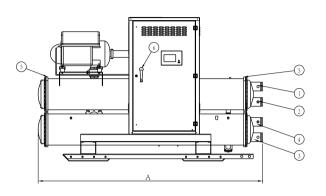
In order to reduce current harmonic distortion made by inverter and improve the imbalance of three phase power supply, line reactor is applied in the electric system. It can limit the voltage jump of power grid and the current shock when operation. By smoothing the pulse peak and voltage leakage caused when rectifier commutation, the disorder from grid can be prevented and in the meanwhile to cut down the impact of harmonic current on grid.

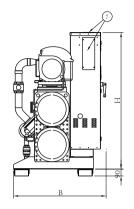
TECS-W/L-E Optional Configuration: Harmonic Filter

Harmonic filter is able to improve power transmission and usage efficiency, further reduce the electrical system of local parallel resonance or series resonance and noise, to assure the safety of electrical protection and automatic device.

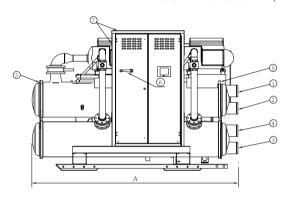
Dimension Drawing

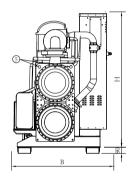
TECS-W0801-1801L-E (-P0/P3)



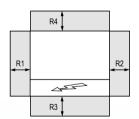


TECS-W2152-3902L-E (-P0/P3)





①Evaporator Inlet ③Condenser Inlet ⑤Lifting Points ⑦Power Inlet ②Evaporator Outlet ④Condenser Outlet ⑥Main Isolator Please consult with Climaveneta office for detail drawing.

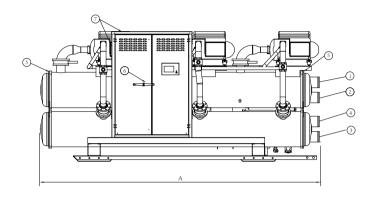


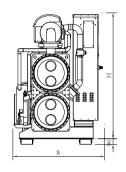
Minimum Clearance

TECS-W/L-E	А	А В Н		Lifting Weight Pipe Size			Minimum Clearance				
(-P0/P3)	mm	mm	mm	kg	1)/2	3/4	R1(mm)	R2(mm)	R3(mm)	R4(mm)	
0801	2930	1210	1800	1735	3"	3"	2500	1000	900	500	
1051	2930	1210	1800	1755	3"	3"	2500	1000	900	500	
1401	2930	1210	1800	1985	4"	4"	2500	1000	900	500	
1421	2930	1210	1800	2005	4"	4"	2500	1000	900	500	
1801	2930	1400	1830	2150	5"	5"	2500	1000	900	500	
2152	2990	1480	1980	2783	6"	6"	2500	1000	900	900	
2452	2990	1480	1960	2860	6"	6"	2500	1000	900	900	
3252	4450	1350	2050	3995	6"	6"	4000	1000	900	900	
3902	4450	1350	2050	4050	6"	6"	4000	1000	900	900	

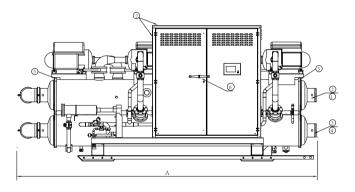
Dimension Drawing

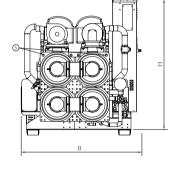
TECS-W3903 -5853L-E (-P0/P3)



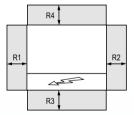


TECS-W6004-8104L-E (-P0/P3)





①Evaporator Inlet ③Condenser Inlet ⑤Lifting Points ⑦Power Inlet ②Evaporator Outlet ④Condenser Outlet ⑥Main Isolator Please consult with Climaveneta office for detail drawing.

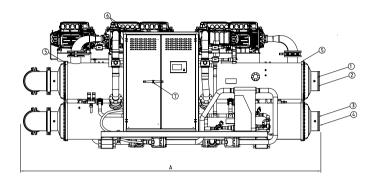


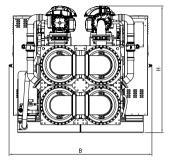
Minimum Clearance

TECS-W/L-E	А	В	Н	Lifting Weight Pipe Size			Minimum Clearance				
(-P0/P3)	mm	mm	mm	kg	1)/2	3/4	R1(mm)	R2(mm)	R3(mm)	R4(mm)	
3903	4440	1450	1990	4350	6"	6"	4000	1000	900	900	
4503	4450	1360	2150	4845	8"	8"	4000	1000	900	900	
5203	4450	1360	2150	4880	8"	8"	4000	1000	900	900	
5853	5310	1360	2150	5390	8"	8"	4000	1000	900	900	
6004	4900	1970	2125	7870	8"	8"	4000	1000	900	900	
6304	5000	2200	2150	7315	10"	10"	4000	1000	900	900	
6904	5000	2200	2150	7370	10"	10"	4000	1000	900	900	
7504	5000	2200	2150	7615	10"	10"	4000	1000	900	900	
8104	5000	2200	2150	7670	10"	10"	4000	1000	900	900	

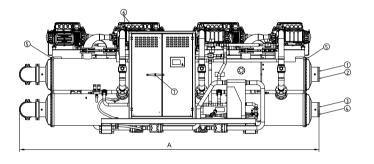
Dimension Drawing

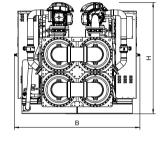
TECS-W8905L-E (-P0/P3)



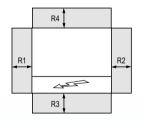


TECS-W9806-12106L-E (-P0/P3)





①Evaporator Inlet ③Condenser Inlet ⑤Lifting Points ⑦Power Inlet ②Evaporator Outlet ④Condenser Outlet ⑥Main Isolator Please consult with Climaveneta office for detail drawing.

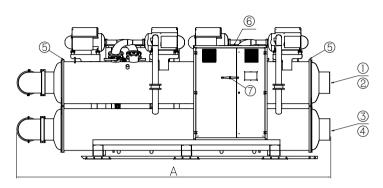


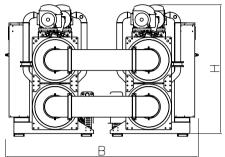
Minimum Clearance

TECS-W/L-E	А	В	Н	Lifting Weight	Pipe	Size		Minimu	m Clearance	
(-P0/P3)	mm	mm	mm	kg	1)/2	3/4	R1(mm)	R2(mm)	R3(mm)	R4(mm)
8905	5060	2425	2140	9760	12"	12"	4000	1000	900	900
9806	5060	2425	2140	9990	12"	12"	4000	1000	900	900
11006	5060	2425	2140	10080	12"	12"	4000	1000	900	900
12106	5860	2425	2140	11080	12"	12"	4850	1000	900	900

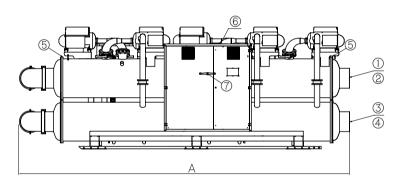
Dimension Drawing

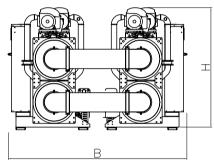
TECS-W16108L-E(-P0/P3)



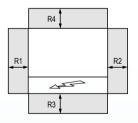


TECS-W20H10L-E(-P0/P3)





①Evaporator Inlet ③Condenser Inlet ⑤Lifting Points ⑦Power Inlet ②Evaporator Outlet ④Condenser Outlet ⑥Main Isolator Please consult with Climaveneta office for detail drawing.



Minimum Clearance

TECS-W/L-E	А	В	Н	Lifting Weight	Pipe	Size	Minimum Clearance			
(-P0/P3)	mm	mm	mm	kg	1)/2	3/4	R1(mm)	R2(mm)	R3(mm)	R4(mm)
16108	5280	3850	2460	16980	14"	14"	5000	1000	1000	1000
20H10	6140	3850	2460	21940	14"	14"	6000	1000	1000	1000



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