



CHILLED IRAN

AIR CONDITIONER SYSTEM

GENERAL CATALOG

2020-2021



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ABOUT US

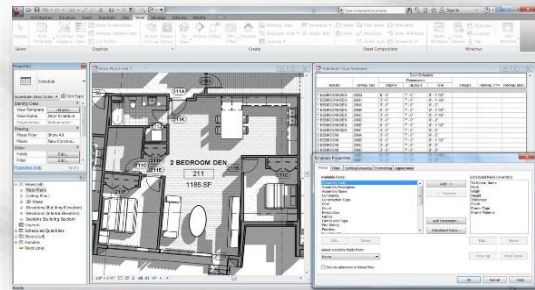
CHILLEDIRAN Industrial Production Group started its activities in 2015 with the cooperation of a group of experienced specialists and graduates in the field of fluid mechanical engineering and veterans of Shiraz facilities in the field of providing optimal technical and engineering services, facility design and implementation of mechanical facilities. This complex is ready to provide the services required by the centers in the field of design, supervision, production and supply of air conditioning and cooling systems, engine room and heating and pool facilities by obtaining official representations from reputable companies. Installation and timely services, Reasonable price and high quality are always the headline of CHILLEDIRAN group.

CHILLEDIRAN has the certificates of integrated management system IMS(ISO 14001:2015 , ISO 45001:2018 , ISO 9001:2015) and Product Export Mark CE.

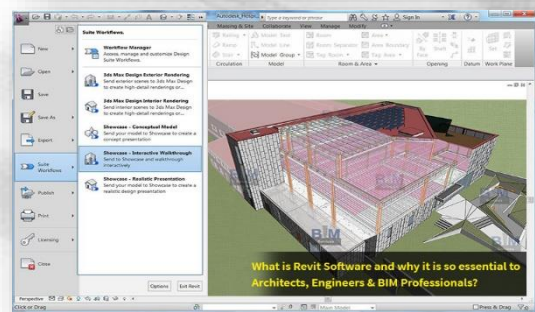


CHILLEDIRAN Industrial Production Group, by gathering experts in the fields of mechanical engineering, electrical engineering and energy architecture, has formed a complete and cohesive installation group and all installation services by this experienced group, using the latest and most up-to-date design software and taking into account all conditions. A unique HVAC building is done. The existence of such a technical and engineering work team has made the quality and comprehensiveness of service delivery our trump card in your hands. Providing consulting, design, supervision and implementation of electrical and mechanical installations and energy control management and providing specialized advice for selecting equipments and how they work and estimating the cost of employer is done by the senior experts of this complex .

Using AutoCAD software, the location of indoor units and the path of the facility along with the executive technical information is determined .

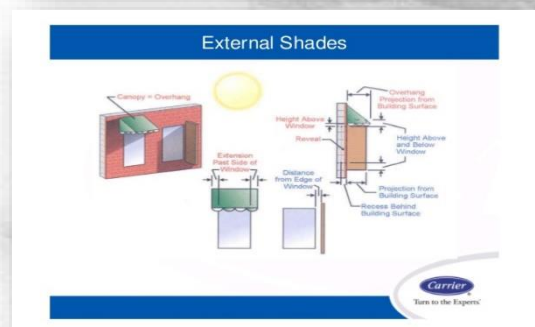


REVIT is professionally designed using building facilities viewing software. With the help of this software, you can continue your work by entering the information of building materials and run in the building and the thickness of the materials and the user site to get an analysis of exactly the necessity of heating and cooling load and building ventilation .



Due to its intelligent structure, this software prevents the interaction of installation systems with each other And offers the most optimal mode of installation of facilities.

With the help of CARRIER software, it is possible to decide on the building calculations of the required facilities. In addition to calculating the refrigeration and heating load required, this software provides the user with information about the calculation of fluid pipes and the selection and calculation of the devices capacity required for the building, which can be relied on by powerful and reliable results. It selected equipment for air conditioning systems .





OUTDOOR UNIT
ECO , PRO & SCREW

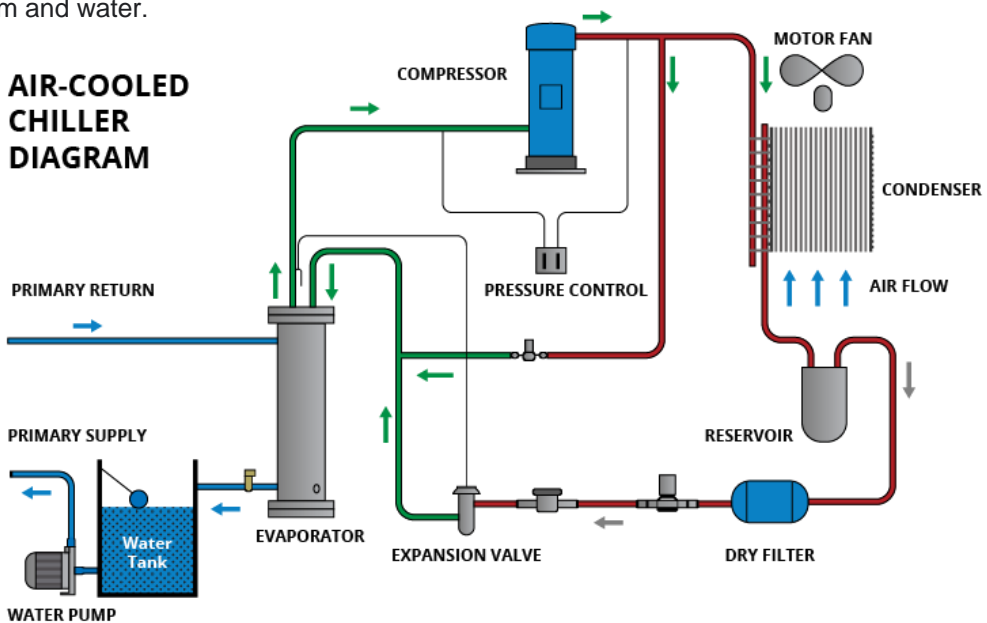
CHILLERS



In a compression chiller, the refrigerant is first compressed by a compressor. This refrigerant is then cooled to a condenser introduced by ambient water or air and liquefied. This liquid enters the coolant (evaporator) through the expansion valve or capillary tube, which is at a lower pressure. This decrease in pressure causes the liquid to evaporate and the coolant, by taking the latent heat of its evaporation from the environment, causes cooling in materials that The cooling part is connected. The evaporating refrigerant is then transferred to the compressor. With the rapid passage of steam in the condenser vacuum, a liquid is formed due to the conversion of steam to water and the volume difference between steam and water.

The main components of the refrigeration cycle :

1. Compressor
2. Condenser
3. Evaporator
4. Refrigeration Cycle Components

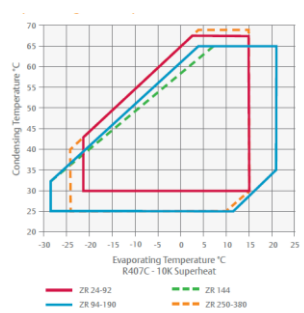


OUTDOOR UNIT KEY FEATURES

COMPRESSOR



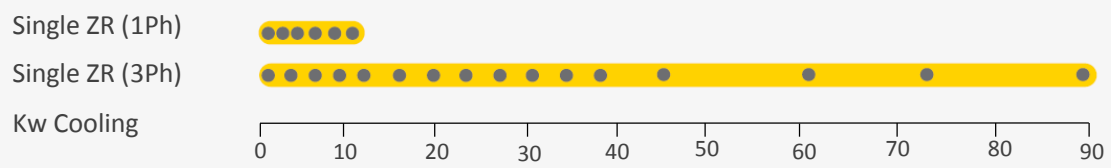
- ✓ Widest application and capacity range
- ✓ Superior reliability and energy-efficiency
- ✓ Technology leader
- ✓ Product development expertise
- ✓ Expert distribution network and support



ZR Copeland Scroll Compressor were developed or comfort and process/precision cooling applications using R407C.

ZR Scroll Compressor line-up R407C are applied in CHILLEDIRAN chillers PLUS Series and ZR Scroll Compressor line-up R22 are applied in CHILLEDIRAN chillers ECO Series .

ZR Scroll Compressor line-up R407C



OUTDOOR UNIT KEY FEATURES

COMPRESSOR



CH10C01A

Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	1 * ZR34K3E-TFD
Power (kW)	2.42
Cooling Capacity (kW)	7.92
Nominal Current (A)	4.52
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH14C01A

Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	1 * ZR48K3E-TFD
Power (kW)	3.41
Cooling Capacity (kW)	11.5
Nominal Current (A)	6.39
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH18C01A

Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	1 * ZR61KCE-TFD
Power (kW)	4.25
Cooling Capacity (kW)	14.45
Nominal Current (A)	7.34
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH24C01A

Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	1 * ZR72KCE-TFD
Power (kW)	4.88
Cooling Capacity (kW)	16.75
Nominal Current (A)	8.66
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH35C02A

Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR61KCE-TFD
Power (kW)	8.5
Cooling Capacity (kW)	28.9
Nominal Current (A)	14.68
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH52C02A

Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR94KCE-TFD
Power (kW)	13.1
Cooling Capacity (kW)	46.6
Nominal Current (A)	24.68
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH70C02A

Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR125KCE-TFD
Power (kW)	17.08
Cooling Capacity (kW)	61.20
Nominal Current (A)	30.66
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH91C02A

Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR160KCE-TFD
Power (kW)	21.60
Cooling Capacity (kW)	76.20
Nominal Current (A)	39.28
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

Notice: REFRIGERANT IS R407C

OUTDOOR UNIT KEY FEATURES

COMPRESSOR



CH112C02A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR190KCE-TFD
Power (kW)	25.80
Cooling Capacity (kW)	89.20
Nominal Current (A)	51.14
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH186C04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	4 * ZR160KCE-TFD
Power (kW)	43.2
Cooling Capacity (kW)	152.4
Nominal Current (A)	78.56
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH292C04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	USA
Compressor Number and Model	4 * ZR250KCE-TWD
Power (kW)	68.4
Cooling Capacity (kW)	236.8
Nominal Current (A)	115.08
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH442C04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	USA
Compressor Number and Model	4 * ZR380KCE-TWD
Power (kW)	102.4
Cooling Capacity (kW)	364
Nominal Current (A)	176.8
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH147C04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	4 * ZR125KCE-TFD
Power (kW)	33.8
Cooling Capacity (kW)	122.4
Nominal Current (A)	61.32
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH221C04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	4 * ZR190-KCE-TFD
Power (kW)	51.6
Cooling Capacity (kW)	178.4
Nominal Current (A)	102.28
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH361C04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	USA
Compressor Number and Model	4 * ZR310KCE-TWD
Power (kW)	84.8
Cooling Capacity (kW)	294.8
Nominal Current (A)	145.2
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH544C06A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	USA
Compressor Number and Model	6 * ZR310KCE-TWD
Power (kW)	127.2
Cooling Capacity (kW)	442.2
Nominal Current (A)	217.8
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

OUTDOOR UNIT KEY FEATURES

COMPRESSOR



CH10L01A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	1 * ZR34K3E-TFD
Power (kW)	2.55
Cooling Capacity (kW)	8.32
Nominal Current (A)	4.56
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH18L01A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	1 * ZR61KCE-TFD
Power (kW)	4.44
Cooling Capacity (kW)	14.5
Nominal Current (A)	8.29
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH35L02A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR61KCE-TFD
Power (kW)	8.88
Cooling Capacity (kW)	29
Nominal Current (A)	16.58
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH70L02A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR125KCE-TFD
Power (kW)	2 * 8.15
Cooling Capacity (kW)	62.20
Nominal Current (A)	2 * 14.67
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH14L01A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	1 * ZR48K3E-TFD
Power (kW)	3.8
Cooling Capacity (kW)	11.85
Nominal Current (A)	6.51
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH24L01A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	1 * ZR72KCE-TFD
Power (kW)	4.89
Cooling Capacity (kW)	19.9
Nominal Current (A)	8.86
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH52L02A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR94KCE-TFD
Power (kW)	12.26
Cooling Capacity (kW)	46.6
Nominal Current (A)	23.18
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH91L02A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR160KCE-TFD
Power (kW)	2 * 10.30
Cooling Capacity (kW)	76.20
Nominal Current (A)	2 * 18.67
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

Notice: REFRIGRANT IS R22

OUTDOOR UNIT KEY FEATURES

COMPRESSOR



CH112L02A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	2 * ZR190KCE-TFD
Power (kW)	2 * 12.40
Cooling Capacity (kW)	90.60
Nominal Current (A)	2 * 23.96
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH186L04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	4 * ZR160KCE-TFD
Power (kW)	4 * 10.30
Cooling Capacity (kW)	152.4
Nominal Current (A)	4 * 18.67
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH292L04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	USA
Compressor Number and Model	4 * ZR250KCE-TWD
Power (kW)	4 * 16.20
Cooling Capacity (kW)	239.2
Nominal Current (A)	4 * 27.47
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH442L04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	USA
Compressor Number and Model	4 * ZR380KCE-TWD
Power (kW)	4 * 27.20
Cooling Capacity (kW)	367.6
Nominal Current (A)	4 * 46.20
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH147L04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	4 * ZR125KCE-TFD
Power (kW)	4 * 8.15
Cooling Capacity (kW)	124.4
Nominal Current (A)	4 * 14.67
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

CH221L04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	Thailand
Compressor Number and Model	4 * ZR190-KCE-TFD
Power (kW)	4 * 12.40
Cooling Capacity (kW)	181.2
Nominal Current (A)	4 * 23.96
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

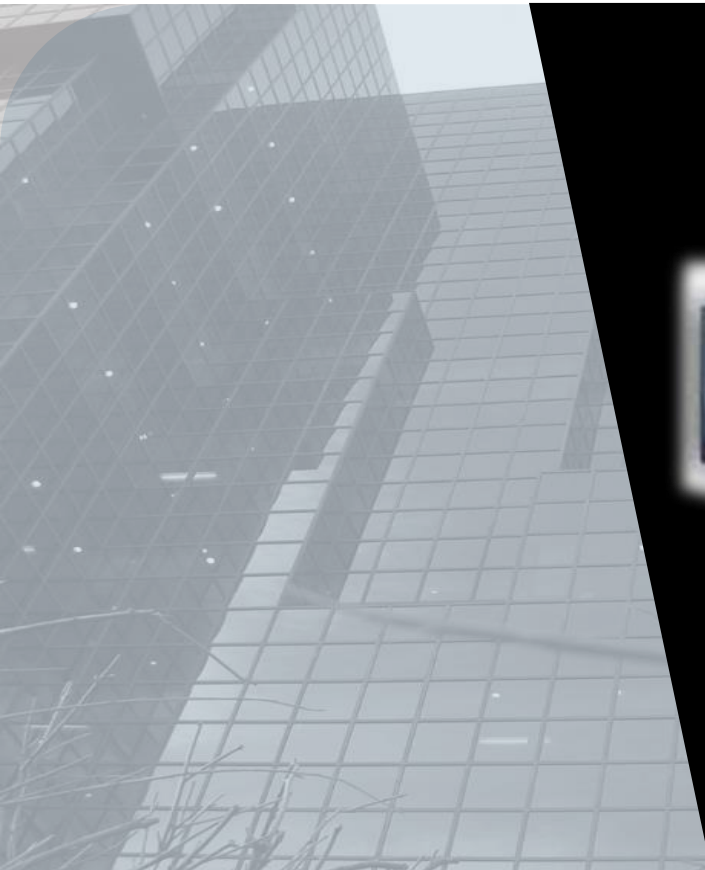
CH361L04A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	USA
Compressor Number and Model	4 * ZR310KCE-TWD
Power (kW)	4 * 22.4
Cooling Capacity (kW)	296.8
Nominal Current (A)	4 * 38.28
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

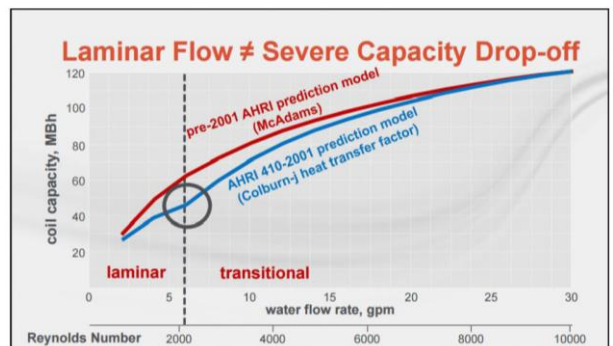
CH544L06A Compressor

Title	Conditions
Design Standard	AHRI 540
Type of Compressors	Copeland Scroll
Manufacturing Country	USA
Compressor Number and Model	6 * ZR310KCE-TWD
Power (kW)	6 * 22.4
Cooling Capacity (kW)	445.2
Nominal Current (A)	6 * 38.28
Protection Class	IP54
Electrical Specifications of The Motor	380/3ph/50Hz

Condenser



The dimensions of the condenser coil used in the machines of CHILLEDIRAN production group are calculated and designed according to the refrigeration power of the machine. - The body of the condensers is made of galvanized sheet with a thickness of 1.5 mm and the type of aluminum fins are selected and installed according to the desired climate. The density of the fins used to perform a maximum heat exchange rate of 12 FPI (number of fins per inch) and a thickness of 0.12 inches is considered. - The copper pipe used in the condenser coil is 3/8 inches in size and 0.35 inches thickness, which can be placed in two, three or four rows according to the refrigeration load. The connection of the coil body is done with the help of galvanized bolts and have sufficient strength against any vibration of the device .



OUTDOOR UNIT KEY FEATURES

Condenser



CH10L01A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow Fan
No. of fan	1
Manufacturer	Damandeh
Air flow rate (l/s)	1138
Fan Speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	0.230
Protection class	IP54
Number of fins per inch (FPI)	12

CH14L01A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	1
Manufacturer	Damandeh
Air flow rate (l/s)	1833
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	0.600
Protection class	IP54
Number of fins per inch (FPI)	12

CH18L01A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	1
Manufacturer	Damandeh
Air flow rate (l/s)	2278
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	0.620
Protection class	IP54
Number of fins per inch (FPI)	12

CH24L01A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	2
Manufacturer	Damandeh
Air flow rate (l/s)	3332
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	2 * 0.600
Protection class	IP54
Number of fins per inch (FPI)	12

OUTDOOR UNIT KEY FEATURES

Condenser



CH35L02A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	1
Manufacturer	Damandeh
Air flow rate (l/s)	4301
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	1.2
Protection class	IP54
Number of fins per inch (FPI)	12

CH52L02A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	2
Manufacturer	Damandeh
Air flow rate (l/s)	4301
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	2 * 0.920
Protection class	IP54
Number of fins per inch (FPI)	12

CH70L02A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	2
Manufacturer	Damandeh
Air flow rate (l/s)	8888
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	2 * 1.2
Protection class	IP54
Number of fins per inch (FPI)	12

CH91L02A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	2
Manufacturer	Damandeh
Air flow rate (l/s)	8888
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	2 * 1.2
Protection class	IP54
Number of fins per inch (FPI)	12

OUTDOOR UNIT KEY FEATURES

Condenser



CH112L02A

Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	4
Manufacturer	Damandeh
Air flow rate (l/s)	14440
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	4 * 0.920
Protection class	IP54
Number of fins per inch (FPI)	12

CH147L04A

Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	4
Manufacturer	Damandeh
Air flow rate (l/s)	17776
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	4 * 1.2
Protection class	IP54
Number of fins per inch (FPI)	12

CH186L04A

Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	4
Manufacturer	Damandeh
Air flow rate (l/s)	17776
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	4 * 1.2
Protection class	IP54
Number of fins per inch (FPI)	12

CH221L04A

Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	6
Manufacturer	Damandeh
Air flow rate (l/s)	26664
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	6 * 1.2
Protection class	IP54
Number of fins per inch (FPI)	12

OUTDOOR UNIT KEY FEATURES

Condenser



CH292L04A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	8
Manufacturer	Damandeh
Air flow rate (l/s)	35490
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	8 * 1.2
Protection class	IP54
Number of fins per inch (FPI)	12

CH361L04A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	12
Manufacturer	Damandeh
Air flow rate (l/s)	43324
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	12 * 0.920
Protection class	IP54
Number of fins per inch (FPI)	12

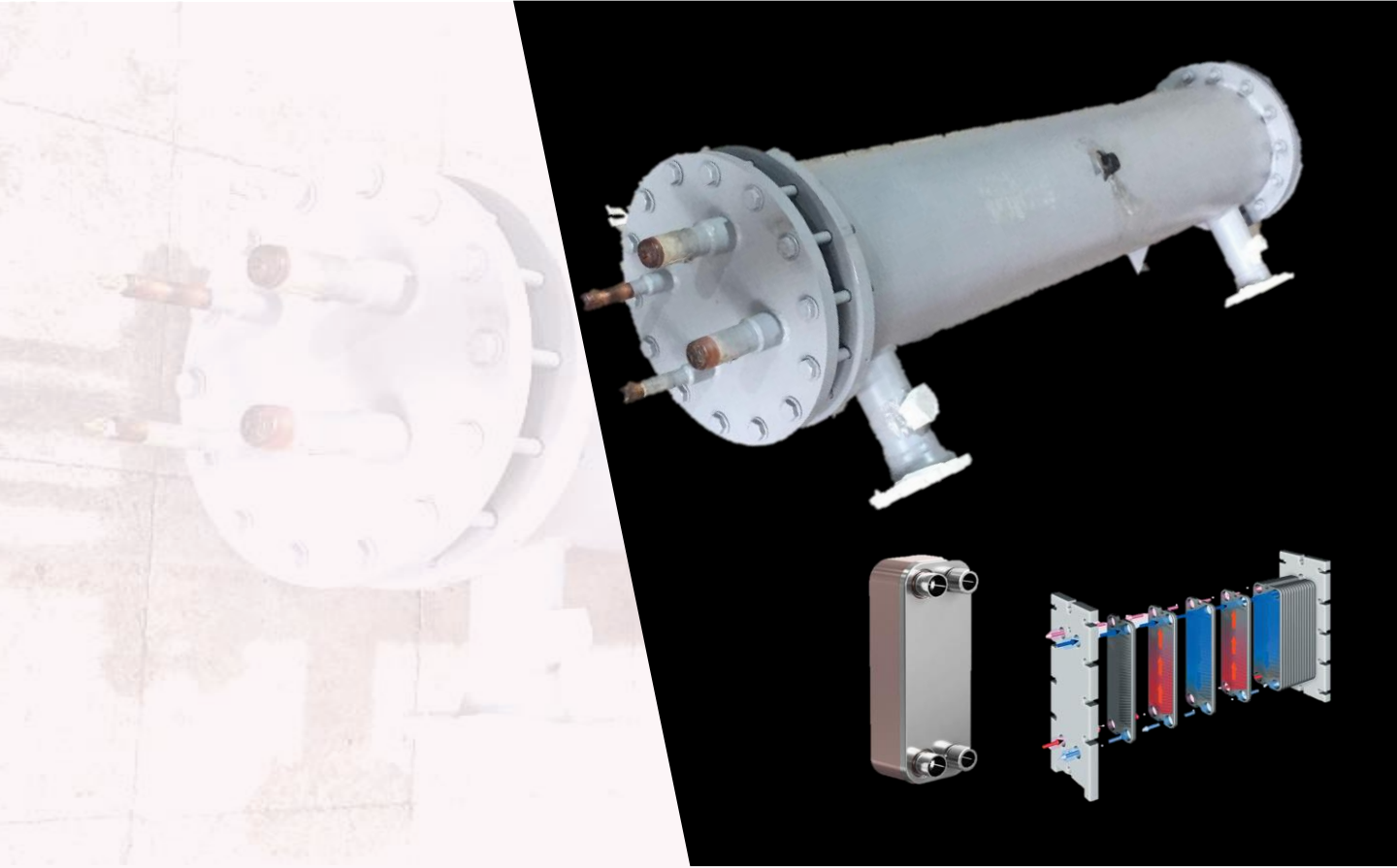
CH442L04A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	12
Manufacturer	Damandeh
Air flow rate (l/s)	53236
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	12 * 1.2
Protection class	IP54
Number of fins per inch (FPI)	12

CH544L06A
Condenser

Title	Conditions
Type of heat exchanger	Finned Tube
Thermal design standard	TEMA VER9.
Type of fan	Axial Flow fan
No. of fan	12
Manufacturer	Damandeh
Air flow rate (l/s)	53236
Fan speed (rpm)	920
Number of pipe rows	4
Pipe material and size	Cu / 3/8 inch
Gender Fin	Aluminum
Fan power (kW)	12 * 1.2
Protection class	IP54
Number of fins per inch (FPI)	12

EVAPORATOR



Evaporator acts as the main component of heat transfer in refrigeration devices. This element of the device is used in two types , plate / shell & tube. In the mini-chillers of CHILLEDIRAN production group, a plate evaporator is used and in air-cooled compression chillers we use shell & tube type .

In order to prevent heat loss and increase the efficiency of the device , all evaporators of the devices of CHILLEDIRAN production group have been insulated with 13 mm thick elastomeric insulation.

All evaporators used in CHILLEDIRAN production group devices have antifreeze installation connections and temperature and pressure monitoring sensors in return pipes .

OUTDOOR UNIT KEY FEATURES

EVAPORATOR



CH10L01A
Evaporator

Description	Conditions
Type of heat exchanger	Plate
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	15
Connection size (inch)	1
Water Flow rate (l/s)	0.3
Turbulator type	Formed Plate
Insulation	Armafle

CH14L01A
Evaporator

Description	Conditions
Type of heat exchanger	Plate
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	15
Connection size (inch)	1
Water Flow rate (l/s)	0.5
Turbulator type	Formed Plate
Insulation	Armafle

CH18L01A
Evaporator

Description	Conditions
Type of heat exchanger	Plate
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	15
Connection size (inch)	1
Water Flow rate (l/s)	0.6
Turbulator type	Formed Plate
Insulation	Armafle

CH24L01A
Evaporator

Description	Conditions
Type of heat exchanger	Plate
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	15
Connection size (inch)	1
Water Flow rate (l/s)	0.8
Turbulator type	Formed Plate
Insulation	Armafle

CH35L02A
Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	17
Connection size (inch)	1 1/4
Water Flow rate (l/s)	1.2
Turbulator type	Twisted Tape
Insulation	Armafle

CH52L02A
Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	23
Connection size (inch)	1 1/4
Water Flow rate (l/s)	2
Turbulator type	Twisted Tape
Insulation	Armafle

OUTDOOR UNIT KEY FEATURES

EVAPORATOR



CH70L02A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	25
Connection size (inch)	2
Water Flow rate (l/s)	2.7
Turbulator type	Twisted Tape
Insulation	Armafle

CH91L02A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	27
Connection size (inch)	2
Water Flow rate (l/s)	3.3
Turbulator type	Twisted Tape
Insulation	Armafle

CH112L02A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	28
Connection size (inch)	3
Water Flow rate (l/s)	4
Turbulator type	Twisted Tape
Insulation	Armafle

CH147L04A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	32
Connection size (inch)	3
Water Flow rate (l/s)	5.4
Turbulator type	Twisted Tape
Insulation	Armafle

CH186L04A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	34
Connection size (inch)	3
Water Flow rate (l/s)	6.6
Turbulator type	Twisted Tape
Insulation	Armafle

CH221L04A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	34
Connection size (inch)	4
Water Flow rate (l/s)	7.8
Turbulator type	Twisted Tape
Insulation	Armafle

OUTDOOR UNIT KEY FEATURES

EVAPORATOR



CH292L04A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	43
Connection size (inch)	4
Water Flow rate (l/s)	10.3
Turbulator type	Twisted Tape
Insulation	Armafle

CH361L04A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	43
Connection size (inch)	6
Water Flow rate (l/s)	13
Turbulator type	Twisted Tape
Insulation	Armafle

CH442L04A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	43
Connection size (inch)	6
Water Flow rate (l/s)	16
Turbulator type	Twisted Tape
Insulation	Armafle

CH544L06A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	44
Connection size (inch)	6
Water Flow rate (l/s)	20
Turbulator type	Twisted Tape
Insulation	Armafle

CH186L04A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	34
Connection size (inch)	6
Water Flow rate (l/s)	6.6
Turbulator type	Twisted Tape
Insulation	Armafle

CH221L04A

Evaporator

Description	Conditions
Type of heat exchanger	Shell&Tube
Thermal design standard	TEMA VER9.
Construction standard	ASME SEC VIII
Evaporator shell material	Carbon Steel/Copper
F.F Factor	0.1
Pressure drop (kPa)	34
Connection size (inch)	6
Water Flow rate (l/s)	7.8
Turbulator type	Twisted Tape
Insulation	Armafle

OUTDOOR UNIT KEY FEATURES










REFRIGERATION CYCLE COMPONENTS



All the parts that used in the refrigeration cycle of CHILLEDIRAN production group devices are Danfoss and Castel.

Expansion valve is Danfoss, which is in both thermostatic and electronic types and is prepared and executed in accordance with the economic agreement of the contract.

All devices of CHILLEDIRAN production group in order to provide high quality refrigerant and ensure the health of the device have drier filters and Danfoss core and felt filters .

Thermostatic Expansion Valve	Danfoss	
Electronic Expansion Valve	Danfoss	
Solenoid Valve	Castel	
Ball valve	Castel	
Filter Drier	Danfoss	
Shell Filter	Castel	
Core Drier	Danfoss	
Felt Filter	Danfoss	
Sight Glass	Castel	

OUTDOOR UNIT KEY FEATURES

PRO & ECO SERIES



CHILLEDIRAN has two production lines for chillers. **PRO** and **ECO** Series.

In Pro series, we have used the best and most up-to-date equipment in the world, and these devices have been designed in accordance with the latest international standards of use. In the Eco series, we have used more economical parts by observing the required standards.

PRO SERIES - ZR Scroll compressor line-up R407C

Chiller model		CH10C01A	CH14C01A	CH18C01A	CH24C01A	CH35C02A	CH52C02A	CH70C02A	CH91C02A	CH112C02A	CH147C04A	CH186C04A	CH221C04A	CH292C04A	CH361C04A	CH442C04A	CH544C06A		
Cooling capacity (AHRIS40) (kW)	kW	7.83	11.40	14.30	18.75	28.60	46.00	60.40	75.00	88.00	120.80	150.00	176.00	234.00	290.40	359.20	435.60		
Total power input (AHRIS40) (kW)	kW	2.84	4.27	5.19	6.43	10.34	15.92	20.54	27.40	31.28	41.08	51.20	62.40	82.80	101.44	124.00	150.00		
EER (AHRIS40)		10.37	10.74	10.81	10.81	10.81	11.32	11.46	11.18	10.98	11.49	11.18	10.98	11.05	11.08	11.32	11.08		
SEER (*)		11.71	12.28	12.40	12.44	12.40	13.24	13.53	13.00	12.64	13.53	13.00	12.67	12.78	12.83	13.24	12.83		
Refrigeration circuits	Nr	1						2						4					
No. of compressor	Nr	1						2						4					
type of compressor		scroll																	
standard air flow	l/s	1138	1833	2278	3332	4301	7220	8888	8888	14440	17776	17776	26664	35490	43324	53236	53236		
Water flow-rate (User Side)	l/s	0.3	0.5	0.6	0.8	1.2	2	2.7	3.3	4	5.4	6.6	7.8	10.3	13	16	20		
standard power supply	V	400/3/50																	
Sound pressure level	dB(A)	66	66	66	66	78	72	78	78	72	78	78	78	78	72	78	78		

* Data refers to standard conditions

The Product is compliant with the ErP (Energy Related Products) European Directive.

It includes the Commission delegated Regulation AHRIS40 (evaporate tmp.7 deg. c. & 54 deg. c. based on the ambient temperature 43 deg. c. in 4900 ft elevation of the sea level).

The sound pressure data are calculated at the required distance and referring to standard conditions.

Refrigerant R407C.

ECO SERIES - ZR Scroll compressor line-up R22

Chiller model		CH10L01A	CH14L01A	CH18L01A	CH24L01A	CH35L02A	CH52L02A	CH70L02A	CH91L02A	CH112L02A	CH147L04A	CH186L04A	CH221L04A	CH292L04A	CH361L04A	CH442L04A	CH544L06A		
Cooling capacity (AHRIS40)	kW	8.32	11.85	14.50	19.90	29.00	46.60	62.20	76.20	90.60	124.40	152.40	181.20	239.20	296.80	367.60	445.20		
Total power input (AHRIS40)	kW	2.81	4.40	5.10	6.51	10.16	15.5	20.62	27.00	31.18	41.24	50.40	62.20	81.40	100.64	123.20	148.80		
EER (AHRIS40)		11.12	10.81	11.15	11.66	11.15	11.8	11.76	11.53	11.36	11.76	11.53	11.36	11.49	11.42	11.66	11.42		
SEER (*)		12.90	12.40	12.95	13.82	12.95	14.07	14.00	13.60	13.30	14.00	13.60	13.30	13.53	13.41	13.82	13.41		
Refrigeration circuits	Nr	1						2						4					
No. of compressor	Nr	1						2						4					
type of compressor		scroll																	
standard air flow	l/s	1138	1833	2278	3332	4301	7220	8888	8888	14440	17776	17776	26664	35490	43324	53236	53236		
Water flow-rate (User Side)	l/s	0.3	0.5	0.6	0.8	1.2	2	2.7	3.3	4	5.4	6.6	7.8	10.3	13	16	20		
standard power supply	V	400/3/50																	
Sound pressure level	dB(A)	62	62	62	62	78	72	78	78	72	78	78	78	78	72	78	78		

* Data refers to standard conditions

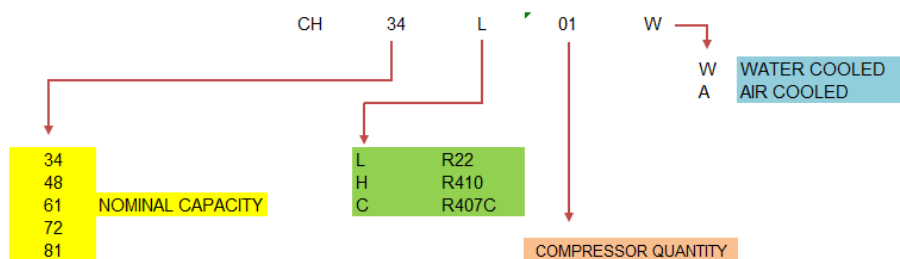
The Product is compliant with the ErP (Energy Related Products) European Directive.

It includes the Commission delegated Regulation AHRIS40 (evaporate tmp.7 deg. c. & 54 deg. c. based on the ambient temperature 43 deg. c. in 4900 ft elevation of the sea level).

The sound pressure data are calculated at the required distance and referring to standard conditions.

Refrigerant R22.

CHILLEDIRAN' S CHILLERS NOMINATION



OUTDOOR UNIT KEY FEATURES

PRO SERIES



CH10C01A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	3.12	4.00	5.03	6.25	7.67	9.32	10.05	11.20	12.25
35.0	2.90	3.75	4.76	5.94	7.33	8.93	9.64	10.75	11.80
40.0	2.68	3.50	4.47	5.62	6.96	8.51	9.19	10.30	11.30
45.0		3.23	4.17	5.27	6.56	8.06	8.72	9.78	10.75
50.0			3.85	4.91	6.15	7.59	8.22	9.25	10.15
55.0				4.53	5.71	7.09	7.70	8.69	9.57
60.0					5.25	6.57	7.16	8.10	8.95
65.0					4.78	6.03	6.59	7.49	8.30

CH14C01A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	4.66	5.92	7.40	9.14	11.20	13.55	14.60	16.25	17.75
35.0	4.37	5.58	7.01	8.70	10.65	12.95	13.95	15.60	17.05
40.0	4.06	5.24	6.62	8.24	10.15	12.35	13.30	14.85	16.30
45.0		4.88	6.21	7.77	9.58	11.70	12.65	14.15	15.50
50.0			5.79	7.28	9.01	11.05	11.95	13.40	14.70
55.0				6.77	8.43	10.35	11.20	12.60	13.85
60.0					7.82	9.66	10.45	11.80	13.00
65.0					7.21	8.94	9.72	10.95	12.10

CH18C01A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	6.02	7.46	9.15	11.20	13.65	16.60	17.95	20.20	22.20
35.0	5.82	7.35	9.04	11.00	13.35	16.10	17.35	19.40	21.30
40.0	5.36	7.00	8.73	10.65	12.90	15.45	16.60	18.50	20.20
45.0		6.43	8.24	10.15	12.30	14.75	15.85	17.60	19.15
50.0			7.58	9.54	11.65	13.95	15.00	16.60	18.10
55.0				8.80	10.90	13.15	14.10	15.65	17.00
60.0					10.10	12.30	13.20	14.65	15.95
65.0					9.25	11.45	12.30	13.70	14.90

CH24C01A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	7.34	9.61	12.15	15.05	18.45	22.40	24.10	26.90	29.40
35.0	6.81	9.06	11.55	14.40	17.70	21.50	23.20	25.90	28.40
40.0	6.24	8.45	10.90	13.65	16.85	20.50	22.10	24.80	27.20
45.0		7.79	10.15	12.80	15.90	19.40	21.00	23.50	25.80
50.0			9.38	11.95	14.85	18.25	19.75	22.20	24.40
55.0				11.00	13.75	17.00	18.40	20.70	22.80
60.0					12.65	15.65	17.00	19.20	21.20
65.0					11.50	14.30	15.55	17.65	19.50

Notice: Cooling Capacity (kW) ,Temperature (°C)

OUTDOOR UNIT KEY FEATURES

PRO SERIES



CH35C02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	12.04	14.92	18.30	22.40	27.30	33.20	35.90	40.40	44.40
35.0	11.64	14.70	18.08	22.00	26.70	32.20	34.70	38.80	42.60
40.0	10.72	14.00	17.46	21.30	25.80	30.90	33.20	37.00	40.40
45.0		12.86	16.48	20.30	24.60	29.50	31.70	35.20	38.30
50.0			15.16	19.08	23.30	27.90	30.00	33.20	36.20
55.0				17.60	21.80	26.30	28.20	31.30	34.00
60.0					20.20	24.60	26.40	29.30	31.90
65.0					18.50	22.90	24.60	27.40	29.80

CH52C02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	20.60	25.60	31.40	38.30	46.40	55.80	59.80	66.60	
30.0	19.46	24.60	30.40	37.20	45.00	54.00	58.20	64.60	70.60
35.0	17.88	23.10	29.00	35.70	43.40	52.20	56.20	62.40	68.00
40.0	15.84	21.30	27.30	34.00	41.60	50.20	53.80	60.00	65.40
45.0		19.02	25.10	31.80	39.30	47.60	51.40	57.20	62.40
50.0			22.50	29.30	36.70	45.00	48.40	54.20	59.20
55.0				26.20	33.60	41.80	45.20	50.80	55.80
60.0					30.20	38.20	41.60	47.00	51.80
65.0						34.20	37.60	43.00	47.60

CH70C02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	26.80	33.50	41.40	50.60	61.40	73.80	79.40	88.20	
30.0	25.40	32.00	39.80	48.80	59.40	71.60	76.80	85.40	93.20
35.0	23.80	30.30	37.90	46.80	57.00	68.80	74.00	82.40	89.80
40.0	21.90	28.30	35.70	44.40	54.20	65.80	70.80	79.00	86.20
45.0		26.10	33.30	41.60	51.40	62.40	67.40	75.20	82.20
50.0			30.70	38.80	48.00	58.80	63.60	71.00	77.80
55.0				35.60	44.60	54.80	59.40	66.60	73.20
60.0					40.80	50.60	55.00	62.00	68.20
65.0						46.20	50.20	57.00	63.00

CH91C02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	31.70	41.00	51.80	64.80	79.80	97.20	104.80	117.20	
30.0	29.20	38.20	48.80	61.40	76.00	92.80	100.40	112.40	123.20
35.0	26.50	35.30	45.60	57.60	71.80	88.20	95.60	107.20	117.80
40.0	23.70	32.20	42.20	53.80	67.60	83.40	90.40	101.80	111.80
45.0		29.00	38.60	49.80	63.00	78.40	85.00	96.00	105.80
50.0			34.80	45.60	58.20	73.00	79.40	90.00	99.40
55.0				41.20	53.40	67.40	73.60	83.60	92.80
60.0					48.20	61.60	67.60	77.20	85.80
65.0						55.60	61.40	70.40	78.80

OUTDOOR UNIT KEY FEATURES

PRO SERIES



CH112C02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	37.80	47.80	59.60	73.20	89.00	107.40	115.40	128.40	
30.0	35.70	45.80	57.40	70.80	86.40	104.40	112.20	125.00	136.20
35.0	33.10	43.20	54.60	67.80	83.20	100.60	108.40	120.60	131.80
40.0	30.00	40.00	51.40	64.40	79.20	96.20	103.80	115.80	126.40
45.0		36.50	47.60	60.20	74.80	91.40	98.60	110.20	120.60
50.0			43.40	55.80	69.80	85.80	92.80	104.00	114.00
55.0				50.80	64.20	79.60	86.40	97.20	106.80
60.0					58.40	73.00	79.60	89.80	99.00
65.0						66.00	72.20	82.00	90.80

CH147C04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	53.60	67.00	82.80	101.20	122.80	147.60	158.80	176.40	
30.0	50.80	64.00	79.60	97.60	118.80	143.20	153.60	170.80	186.40
35.0	47.60	60.60	75.80	93.60	114.00	137.60	148.00	164.80	179.60
40.0	43.80	56.60	71.40	88.80	108.40	131.60	141.60	158.00	172.40
45.0		52.20	66.60	83.20	102.80	124.80	134.80	150.40	164.40
50.0			61.40	77.60	96.00	117.60	127.20	142.00	155.60
55.0				71.20	89.20	109.60	118.80	133.20	146.40
60.0					81.60	101.20	110.00	124.00	136.40
65.0						92.40	100.40	114.00	126.00

CH186C04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	63.40	82.00	103.60	129.60	159.60	194.40	209.60	234.40	
30.0	58.40	76.40	97.60	122.80	152.00	185.60	200.80	224.80	246.40
35.0	53.00	70.60	91.20	115.20	143.60	176.40	191.20	214.40	235.60
40.0	47.40	64.40	84.40	107.60	135.20	166.80	180.80	203.60	223.60
45.0		58.00	77.20	99.60	126.00	156.80	170.00	192.00	211.60
50.0			69.60	91.20	116.40	146.00	158.80	180.00	198.80
55.0				82.40	106.80	134.80	147.20	167.20	185.60
60.0					96.40	123.20	135.20	154.40	171.60
65.0						111.20	122.80	140.80	157.60

CH221C04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	75.60	95.60	119.20	146.40	178.00	214.80	230.80	256.80	
30.0	71.40	91.60	114.80	141.60	172.80	208.80	224.40	250.00	272.40
35.0	66.20	86.40	109.20	135.60	166.40	201.20	216.80	241.20	263.60
40.0	60.00	80.00	102.80	128.80	158.40	192.40	207.60	231.60	252.80
45.0		73.00	95.20	120.40	149.60	182.80	197.20	220.40	241.20
50.0			86.80	111.60	139.60	171.60	185.60	208.00	228.00
55.0				101.60	128.40	159.20	172.80	194.40	213.60
60.0					116.80	146.00	159.20	179.60	198.00
65.0						132.00	144.40	164.00	181.60

OUTDOOR UNIT KEY FEATURES

PRO SERIES



CH292C04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	106.00	132.40	164.00	200.40	243.20	292.40	314.00	348.80	
30.0	100.00	125.60	156.00	191.60	233.20	280.80	301.60	335.60	365.60
35.0	93.60	118.80	148.00	182.40	222.40	268.40	288.80	321.60	350.80
40.0	87.20	111.20	139.20	172.40	210.80	255.60	275.20	306.80	335.20
45.0		103.20	130.40	162.00	199.20	242.00	260.80	291.20	318.80
50.0			120.80	151.20	186.40	227.60	246.00	275.20	301.60
55.0				139.60	173.60	212.80	230.40	258.40	283.60
60.0					159.60	197.20	214.00	241.20	265.20
65.0						181.20	197.20	222.80	246.40

CH361C04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	131.60	166.40	208.00	256.80	313.60	379.60	408.00	456.00	
30.0	122.40	156.40	196.40	243.20	297.60	361.20	389.20	434.00	474.00
35.0	113.60	146.00	184.40	229.20	281.60	342.40	369.20	412.00	452.00
40.0	104.00	135.20	172.00	214.80	264.80	323.20	348.80	390.40	428.00
45.0		124.40	159.60	200.40	248.00	303.60	328.00	367.60	404.00
50.0			146.80	185.60	230.80	283.60	307.20	344.80	378.80
55.0				170.40	213.20	263.20	285.60	321.60	353.60
60.0					195.60	242.80	264.00	298.00	328.40
65.0						222.00	242.00	274.00	302.80

CH442C04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	154.00	196.40	245.60	304.00	373.60	456.00	494.00	554.00	
30.0	143.60	186.00	234.00	290.00	356.40	434.00	470.00	528.00	580.00
35.0	132.40	174.40	221.60	276.00	339.60	414.00	448.00	502.00	552.00
40.0	119.20	161.60	208.40	261.20	322.00	393.20	426.00	478.00	524.00
45.0		146.80	193.20	244.80	303.60	372.00	402.00	452.00	496.00
50.0			175.60	226.40	283.60	349.20	378.40	426.00	468.00
55.0				206.00	261.60	325.20	352.80	398.00	438.00
60.0					237.20	298.40	325.60	368.80	408.00
65.0						269.20	295.60	337.20	374.40

CH544C06A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	197.40	249.60	312.00	385.20	470.40	569.40	612.00	684.00	
30.0	183.60	234.60	294.60	364.80	446.40	541.80	583.80	651.00	711.00
35.0	170.40	219.00	276.60	343.80	422.40	513.60	553.80	618.00	678.00
40.0	156.00	202.80	258.00	322.20	397.20	484.80	523.20	585.60	642.00
45.0		186.60	239.40	300.60	372.00	455.40	492.00	551.40	606.00
50.0			220.20	278.40	346.20	425.40	460.80	517.20	568.20
55.0				255.60	319.80	394.80	428.40	482.40	530.40
60.0					293.40	364.20	396.00	447.00	492.60
65.0						333.00	363.00	411.00	454.20

OUTDOOR UNIT KEY FEATURES

ECO SERIES



CH10L01A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	3.69	4.62	5.69	6.93	8.35	9.95	10.65	11.75	12.70
30.0	3.58	4.48	5.54	6.75	8.14	9.71	10.40	11.45	12.40
35.0	3.39	4.27	5.29	6.46	7.79	9.31	9.96	11.00	11.90
40.0	3.20	4.05	5.03	6.16	7.44	8.90	9.54	10.55	11.45
45.0		3.81	4.76	5.85	7.09	8.50	9.11	10.10	10.95
50.0			4.47	5.52	6.72	8.07	8.66	9.60	10.45
55.0			4.16	5.17	6.32	7.63	8.20	9.11	9.91
60.0				4.79	5.90	7.17	7.72	8.59	9.37
65.0					5.45	6.67	7.20	8.05	8.80

CH14L01A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	5.16	6.52	8.04	9.77	11.75	14.00	14.95	16.55	17.95
30.0	5.02	6.36	7.87	9.57	11.50	13.75	14.70	16.25	17.65
35.0	4.75	6.07	7.54	9.21	11.10	13.25	14.20	15.70	17.05
40.0	4.46	5.74	7.17	8.79	10.65	12.75	13.65	15.10	16.45
45.0		5.40	6.78	8.34	10.10	12.15	13.05	14.45	17.75
50.0			6.37	7.87	9.58	11.55	12.40	13.75	15.00
55.0			5.95	7.38	9.01	10.90	11.70	13.00	14.20
60.0				6.88	8.43	10.20	11.00	12.25	13.35
65.0					7.84	9.52	10.25	11.45	12.55

CH18L01A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	6.04	7.72	9.71	12.00	14.50	17.25	18.40	20.20	21.70
30.0	5.89	7.52	9.48	11.70	14.20	16.95	18.10	19.85	21.40
35.0	5.57	7.14	9.03	11.20	13.65	16.35	17.45	19.20	20.70
40.0	5.20	6.69	8.51	10.65	13.00	15.65	16.75	18.45	19.95
45.0		6.23	7.96	10.00	12.30	14.85	15.95	17.65	19.10
50.0			7.42	9.37	11.60	14.05	15.10	16.75	18.15
55.0			6.93	8.77	10.90	13.25	14.30	15.90	17.25
60.0				8.24	10.25	12.50	13.50	15.05	16.35
65.0					9.71	11.85	12.80	14.25	15.55

CH24L01A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	8.73	11.00	13.60	16.50	19.65	23.10	24.50	26.60	28.50
30.0	8.47	10.70	13.25	16.15	19.30	22.70	24.20	26.30	28.20
35.0	8.03	10.15	12.65	15.50	18.65	22.10	23.50	25.70	27.60
40.0	7.62	9.60	12.00	14.75	17.90	21.30	22.70	25.00	26.90
45.0		9.06	11.30	14.00	17.00	20.40	21.80	24.00	26.00
50.0			10.60	13.15	16.10	19.35	20.80	23.00	24.90
55.0			9.93	12.30	15.10	18.25	19.65	21.80	23.70
60.0				11.40	14.00	17.05	18.40	20.50	22.30
65.0					12.90	15.80	17.05	19.10	20.90

OUTDOOR UNIT KEY FEATURES

ECO SERIES



CH35L02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	12.08	15.44	19.42	24.00	29.00	34.50	36.80	40.40	43.40
30.0	11.78	15.04	18.96	23.40	28.40	33.90	36.20	39.70	42.80
35.0	11.14	14.28	18.06	22.40	27.30	32.70	34.90	38.40	41.40
40.0	10.40	13.38	17.02	21.30	26.00	31.30	33.50	36.90	39.90
45.0		12.46	15.92	20.00	24.60	29.70	31.90	35.30	38.20
50.0			14.84	18.74	23.20	28.10	30.20	33.50	36.30
55.0			13.86	17.54	21.80	26.50	28.60	31.80	34.50
60.0				16.48	20.50	25.00	27.00	30.10	32.70
65.0					19.42	23.70	25.60	28.50	31.10

CH52L02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	20.70	26.20	32.40	39.50	47.40	56.40	60.40	66.80	
30.0	19.28	24.80	30.90	37.80	45.60	54.40	58.20	64.40	69.80
35.0	17.84	23.30	29.30	36.10	43.60	52.40	56.00	62.00	67.40
40.0	16.32	21.70	27.70	34.30	41.80	50.20	53.80	59.60	64.80
45.0		19.98	25.80	32.40	39.60	47.80	51.40	57.00	62.00
50.0			23.80	30.20	37.40	45.40	48.80	54.20	59.20
55.0				27.80	34.80	42.60	46.00	51.20	56.00
60.0					31.90	39.50	42.80	48.00	52.60
65.0						36.10	39.30	44.40	48.80

CH70L02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	28.70	35.70	43.80	53.20	63.60	75.20	80.20	88.00	
30.0	27.30	33.90	41.80	50.80	60.80	72.20	77.00	84.40	91.00
35.0	26.00	32.30	39.80	48.40	58.20	69.20	73.80	81.20	87.60
40.0	24.80	30.80	38.00	46.20	55.80	66.40	70.80	78.00	84.20
45.0		29.20	36.10	44.00	53.20	63.40	67.80	74.80	80.80
50.0			34.10	41.80	50.60	60.40	64.60	71.40	77.40
55.0				39.20	47.60	57.20	61.40	67.80	73.60
60.0					44.40	53.60	57.60	64.00	69.40
65.0						49.60	53.40	59.60	65.00

CH91L02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	35.70	44.60	54.40	65.40	78.00	92.60	98.80	109.00	
30.0	33.10	42.20	52.20	63.20	75.40	89.20	95.40	105.00	113.80
35.0	29.70	39.30	49.40	60.40	72.40	86.00	91.80	101.20	109.40
40.0	25.60	35.80	46.20	57.40	69.40	82.40	88.20	97.20	105.20
45.0		31.40	42.40	53.60	65.60	78.60	84.20	93.00	100.60
50.0			37.60	49.40	61.40	74.40	80.00	88.40	96.00
55.0				44.20	56.60	69.60	75.00	83.40	90.80
60.0					51.00	64.20	69.60	78.00	85.20
65.0						57.80	63.20	71.60	78.80

OUTDOOR UNIT KEY FEATURES

ECO SERIES



CH112L02A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	42.00	52.60	64.60	78.00	93.20	110.60	118.20	130.20	
30.0	38.80	49.60	61.60	74.80	89.60	106.40	113.80	125.60	136.20
35.0	35.50	46.40	58.20	71.40	86.00	102.40	109.60	121.00	131.20
40.0	31.80	42.80	54.60	67.60	82.00	98.00	105.00	116.20	126.20
45.0		38.70	50.60	63.40	77.60	93.40	100.20	111.20	120.80
50.0			46.00	58.80	72.80	88.40	95.00	105.60	115.00
55.0				53.40	67.40	82.60	89.20	99.60	108.80
60.0					61.20	76.20	82.60	92.80	101.80
65.0						68.80	75.20	85.20	94.00

CH147L04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	57.40	71.40	87.60	106.40	127.20	150.40	160.40	176.00	
30.0	54.60	67.80	83.60	101.60	121.60	144.40	154.00	168.80	182.00
35.0	52.00	64.60	79.60	96.80	116.40	138.40	147.60	162.40	175.20
40.0	49.60	61.60	76.00	92.40	111.60	132.80	141.60	156.00	168.40
45.0		58.40	60.20	88.00	106.40	126.80	135.60	149.60	161.60
50.0			68.20	83.60	101.20	120.80	129.20	142.80	154.80
55.0				78.40	95.20	114.40	122.80	135.60	147.20
60.0					88.80	107.20	115.20	128.00	138.80
65.0						99.20	106.80	119.20	130.00

CH186L04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	71.40	89.20	108.80	130.80	156.00	185.20	197.60	218.00	
30.0	66.20	84.40	104.40	126.40	150.80	178.40	190.80	210.00	227.60
35.0	59.40	78.60	98.80	120.80	144.80	172.00	183.60	202.40	218.80
40.0	51.20	71.60	92.40	114.80	138.80	164.80	176.40	194.40	210.40
45.0		62.80	84.80	107.20	131.20	157.20	168.40	186.00	201.20
50.0			75.20	98.80	122.80	148.80	160.00	176.80	192.00
55.0				88.40	113.20	139.20	150.00	166.80	181.60
60.0					102.00	128.40	139.20	156.00	170.40
65.0						115.60	126.40	143.20	157.60

CH221L04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	84.00	105.20	129.20	156.00	182.40	221.20	236.40	260.40	
30.0	77.60	99.20	123.20	149.60	179.20	212.80	227.60	251.20	272.40
35.0	71.00	92.80	116.40	142.80	172.00	204.80	219.20	242.00	262.40
40.0	63.60	85.60	109.20	135.20	164.00	196.00	210.00	232.40	252.40
45.0		77.40	101.20	126.80	155.20	186.80	200.40	222.40	241.60
50.0			92.00	117.60	145.60	176.80	190.00	211.20	230.00
55.0				106.80	134.80	165.20	178.40	199.20	217.60
60.0					122.40	152.40	165.20	185.60	203.60
65.0						137.60	150.40	170.40	188.00

OUTDOOR UNIT KEY FEATURES

ECO SERIES



CH292L04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	111.60	138.00	167.60	202.00	242.00	289.20	310.00	344.40	
30.0	105.20	131.20	160.40	193.60	231.60	276.00	296.00	328.00	357.20
35.0	98.40	124.80	153.20	185.60	222.00	264.40	283.20	313.60	341.60
40.0	90.40	117.20	146.00	177.20	212.80	253.60	271.60	300.40	326.80
45.0		108.40	137.60	168.80	203.60	242.80	260.00	288.00	312.80
50.0			127.60	159.20	193.20	231.60	248.40	275.20	299.20
55.0				147.60	182.00	219.60	236.00	262.00	285.20
60.0					168.40	206.00	222.00	247.20	270.00
65.0					152.40	190.00	206.00	231.20	253.20

CH361L04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	134.80	167.20	204.40	247.60	296.80	353.20	377.60	416.00	
30.0	128.00	159.60	196.40	238.80	287.20	342.40	366.40	406.00	440.00
35.0	120.40	151.60	187.60	228.80	276.40	330.40	354.40	392.00	426.00
40.0	112.40	142.80	177.60	218.00	264.40	317.60	340.40	377.60	410.00
45.0		133.60	167.20	206.40	251.60	303.20	325.60	361.60	393.60
50.0			156.40	194.00	237.60	287.60	309.60	344.80	376.00
55.0				181.20	223.20	271.20	292.40	326.40	356.80
60.0					207.60	254.00	274.40	307.20	336.40
65.0					191.60	236.00	255.60	287.20	315.20

CH442L04A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	173.20	212.40	256.40	306.40	364.00	430.00	458.00	506.00	
30.0	164.80	204.00	247.60	297.20	353.20	418.00	446.00	490.00	530.00
35.0	154.40	194.40	238.00	286.80	341.60	404.00	430.00	474.00	512.00
40.0	142.40	182.80	226.80	274.80	328.80	389.20	416.00	458.00	494.00
45.0		169.60	213.60	261.60	314.40	373.60	399.20	440.00	476.00
50.0			199.20	246.80	299.20	356.80	381.60	420.00	456.00
55.0				230.40	282.00	338.80	362.80	400.00	436.00
60.0					263.60	319.20	342.80	380.00	412.00
65.0					242.80	297.60	321.20	357.60	389.60

CH544L06A									
Tc/Te	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	202.20	250.80	306.60	371.40	445.20	529.80	566.40	624.00	
30.0	192.00	239.40	294.60	358.20	430.80	513.60	549.60	609.00	660.00
35.0	180.60	227.40	281.40	343.20	414.60	495.60	531.60	588.00	639.00
40.0	168.60	214.20	266.40	327.00	396.60	476.40	510.60	566.40	615.00
45.0		200.40	250.80	309.60	377.40	454.80	488.40	542.40	590.40
50.0			234.60	291.00	356.40	431.40	464.40	517.20	564.00
55.0				271.80	334.80	406.80	438.60	489.60	535.20
60.0					311.40	381.00	411.60	460.80	504.60
65.0					287.40	354.00	383.40	430.80	472.80

OUTDOOR UNIT KEY FEATURES

Screw SERIES



CHS491L02A					
Tc/Te	-2.0	1.0	4.0	7.0	10.0
45.0	283.60	317.24	353.60	392.74	434.92
50.0	261.96	294.22	329.12	366.84	407.53
55.0	238.30	268.90	302.14	338.26	377.34

CHS561L02A					
Tc/Te	-2.0	1.0	4.0	7.0	10.0
45.0	328.74	367.52	409.36	454.44	502.96
50.0	302.66	339.68	379.70	422.94	469.56
55.0	274.39	309.34	347.32	388.52	433.14

CHS632L02A					
Tc/Te	-2.0	1.0	4.0	7.0	10.0
45.0	399.12	444.60	493.54	546.16	602.72
50.0	370.84	414.50	461.56	512.26	566.84
55.0	339.70	381.28	426.28	474.92	527.43

CHS702L02A					
Tc/Te	-2.0	1.0	4.0	7.0	10.0
45.0	437.42	488.88	544.58	604.75	669.67
50.0	408.14	457.12	510.18	567.60	629.61
55.0	377.58	423.92	474.26	528.82	587.85

CHS983L02A					
Tc/Te	-2.0	1.0	4.0	7.0	10.0
45.0	644.84	716.92	794.22	877.18	966.16
50.0	598.04	668.76	744.90	826.82	914.96
55.0	543.16	611.96	686.54	767.22	854.38



INDOOR UNIT
PLUS & ECO

INDOOR UNIT KEY FEATURES

PLUS SERIES



- Production of overhead fan coils in CFM capacities from 200 to 1400.

- Using high quality centrifugal fans made of galvanized stainless steel and resistant to deformation against temperature changes.

- Three-row copper coil with aluminum blue fins.

- Tube with external dimensions of 3/8 inches and 12 fins per inch length.

- A flat and large tray that installation under the device.

- The tray is produced in an integrated manner without welding. This tray isolated with elastomeric insulation.

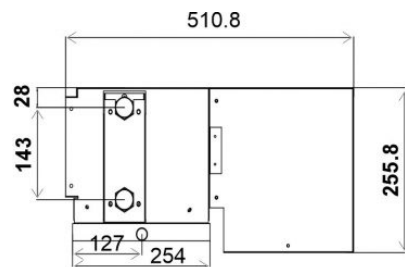
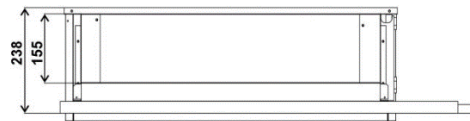
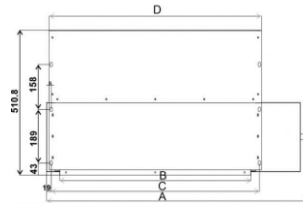
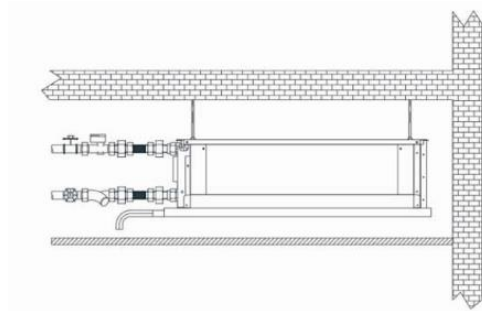
- Designed at 30 Pa static pressure for an optimal wind and throwing.

- Intermixture air box for filtration inlet air.

- Has a three-layer aluminum air filter (HEPA) and washable.

- Design of sliding filter and ejected from the device in 45 degree angle.

- Possibility of ordering to suck air from the back or bottom of the device.



Model	A	B	C	E
PLUS 200	739	452	520	538
PLUS 300	879	592	660	678
PLUS 400	979	692	760	778
PLUS 500	1059	772	840	858
PLUS 600	1159	872	940	958
PLUS 800	1489	1202	1270	1288
PLUS 1000	1589	1302	1370	1388
PLUS 1200	1789	1502	1570	1588
PLUS 1400	1939	1652	1720	1738

INDOOR UNIT KEY FEATURES

PLUS SERIES



		200	300	400	500	600	800	1000	1200	1400
flow rate M3/hrair	High	340	510	680	850	1020	1360	1700	2040	2380
	Medium	270	380	510	640	780	1030	1290	1540	1975
	Low	190	280	340	450	560	740	890	1040	1255
Cooling Capacity w	High	2210	3200	4250	5000	6200	8100	9500	11250	13000
	Medium	1990	2782	3652	4197	5206	9882	8625	9613	11700
	Low	1635	2304	3017	3298	4252	5749	6665	7403	7560
Heating Capacity w	High	3900	5200	6665	7870	10200	13570	16025	19800	22100
	Type	Centrifuge								
Fan	Quantity	1	1	2.1	2	2	3	3	4	4
	Brand	Electrogen								
Electro Motor	Power supply	220V- 50 HZ								
	Quantity	1	1	1	1	1	2	2	2	2
(high period) Consumption rat W	Pa 12	30	45	55	75	90	128	150	189	228
	Pa 30	42	55	65	82	105	148	171	212	253
	Pa 50	47	62	75	91	115	165	203	250	290
Coil	Fin Type	Aluminium Blue Fin 130 Micron								
	Tube size IN	3/4								
	water flow rate (M3/HR)	0.38	0.55	0.73	0.86	1.07	1.39	1.69	1.9	2.23
	pressure drop (kPa)	25	26	30	30	40	35	40	40	50
Weight Kg	Length	725	805	925	1005	1205	1485	1605	1785	1785
	Width	470	470	470	470	470	470	470	490	490
Volume (high volume) db	Height	230	230	230	230	230	230	230	250	305
	Pa 12	36.5	38	40.5	42	45	46	47.5	49	51
	Pa 30	39	41	43	44	46	47	49	51	52
Drain tube size IN	Pa 50	42	43	45	47	49	50	52	53	53
		3/4								
Thickness / material of the body sheet		Galvanized / 1 mm								

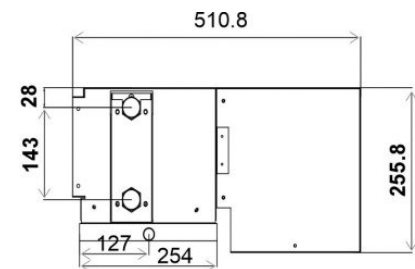
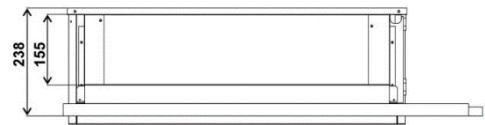
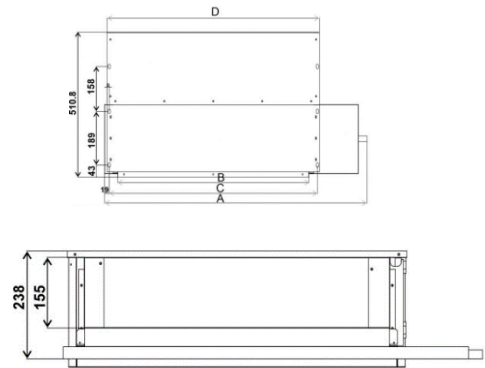
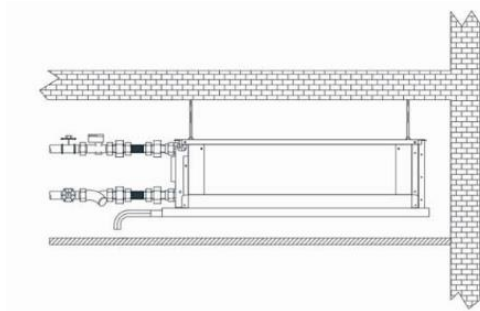
TECHNICAL INFORMATION

INDOOR UNIT KEY FEATURES

ECO SERIES



- Production of overhead fan coils in CFM capacities from 200 to 1400.
- Using high quality centrifugal fans made of plastic.
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- Possibility of ordering to suck air from the back or bottom of the device.



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INDOOR UNIT KEY FEATURES

ECO SERIES

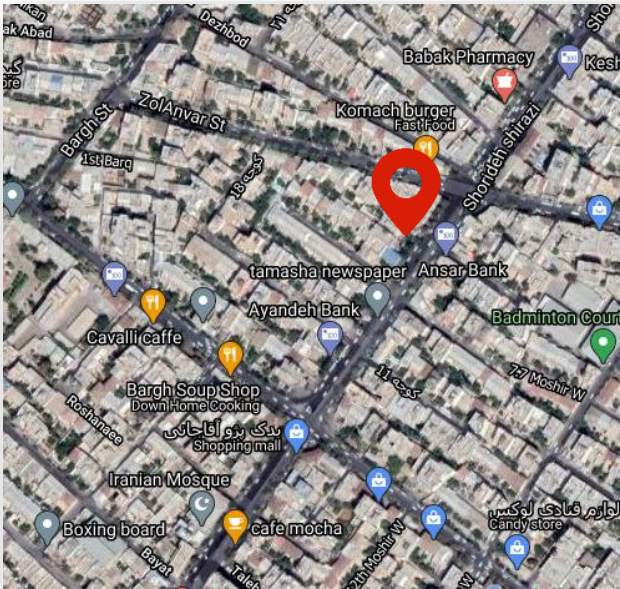



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	pressure drop (kPa)	25	26	30	30	40	35	40	40	50
Weight Kg		15	18.8	20.2	23.3	23.3	26.7	33.1	35.6	38
Dimension mm	Length	725	805	925	1005	1205	1485	1605	1785	1785
	Width	470	470	470	470	470	470	470	490	490
	Height	230	230	230	230	230	230	230	250	305
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	Pa 50	42	43	45	47	49	50	52	53	53
Drain tube size IN		3/4								
Thickness / material of the body sheet		Galvanized / 1 mm								


TECHNICAL INFORMATION


CHILLED IRAN


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