General Catalogue

AIR COOLED CHILLER **-** HPS Series

ACHIEVE YOUR VISION

CHILLER
FAN COIL
ICE TERMAL STORAGE SYSTEM
CHU & AHU
BOILER

AFRA
HVAC SYSTEM

Introduction

Compressor

The combination of COPELAND Semi-Hermetic Scroll type
With highly efficient performance
Anti Vibration Joint
Oil heater System (optional)
Dehumidifier filter dryer
Safety valve for protect compressor at high Pressure
Liquid Line Solenoid Valve
Liquid Line Pressure Switch and Pressure Transmitter

Evaporator

Shell and tube type including steel pipe for shell and copper tubes with 3/8 inch internal groove and compressive strength of 300 PSI
Tested in accordance ASME section VIII standard
Special design for low pressure drop and optimized heat transfer
Water Strainer
Anti Freeze System

Condenser

Flat shaped style considering the optimization of the amount of space
With high efficiency and low pressure drop
Fin and Tube series
3/8" copper tube with up to 450 PSI compressive strength
12FPI number of Fin per Inch
Adiabatic Cooling system for Reducing of power input, that is based on the natural thermodynamic properties of water (optional)

Fan

Axial low noise model
Variable frequency drive for saving energy and reducing sound level (optional)
Sound reduction diffuser (optional)
EUROVENT trademark with "IP54" grading

Electrical and safety equipment

SIEMENS PLC
Ability to synchronize with BMS
Compatible with network connection protocols
DANFOSS trademark high pressure and low pressure sensor
Switch cabinet with IP54
Switch cabinet with SIEMENS trademark;
Main switching (optional), Phase control, Contactor, MSPS
UPS buffered controller to prevent damage during operating (optional)
Light and socket in the switch cabinet
Alarm system for faults

PLC Programming

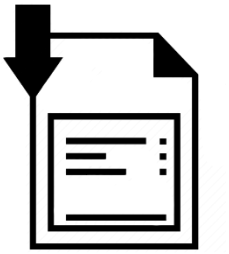
Automatic troubleshooting
Display the performance status of all control parameters
Display operating hours
Display number of start times of compressors separately
Complete observance of the operation schedule of the compressors
Recording of the latest errors that have occurred

Body

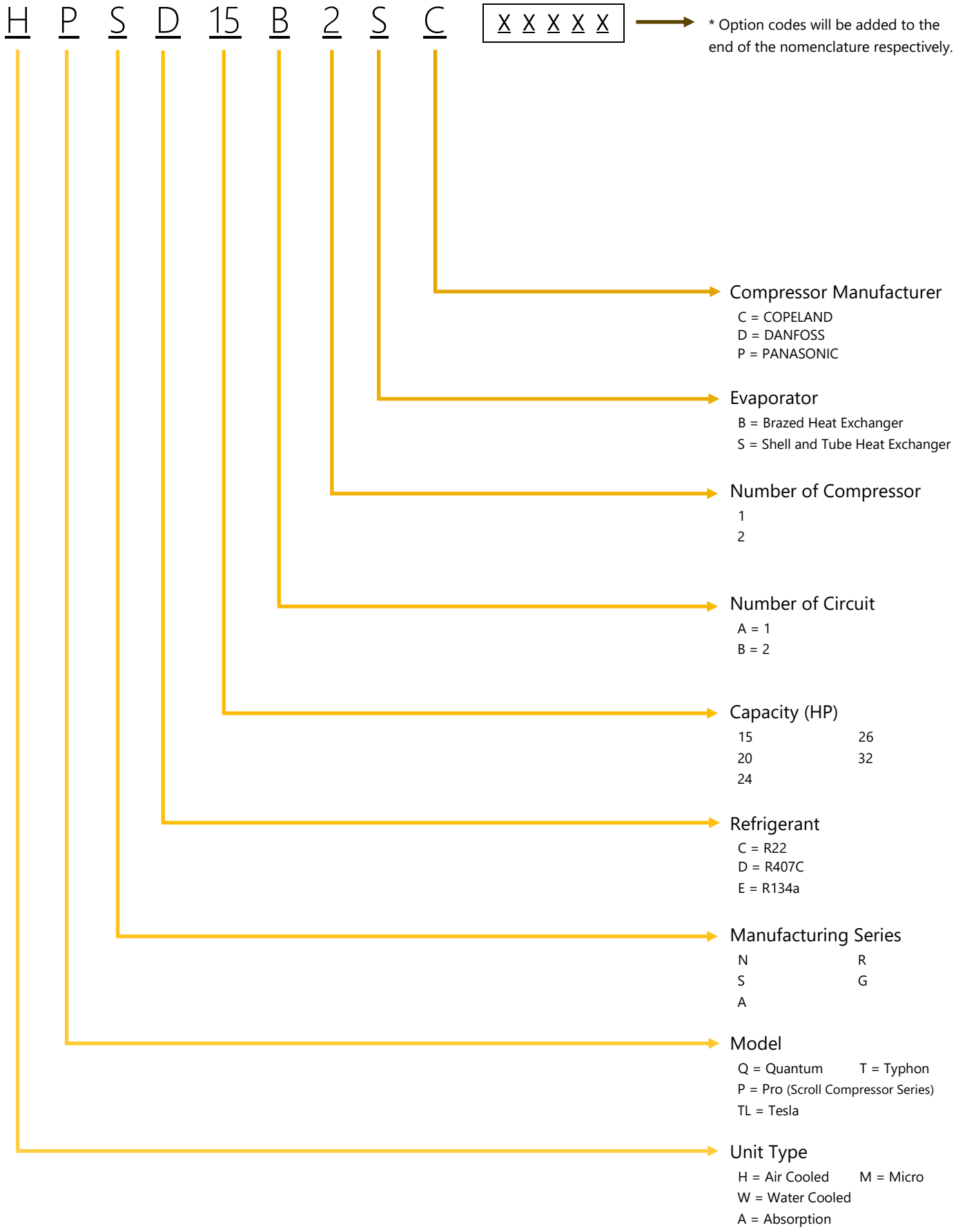
Galvanized steel sheet with electrostatic paint coated
Sound insulation for reducing sound level
Manufactured with NC & CNC machines
Air arteries on the columns of body to allow more air to pass through the condenser

Liquid Line Equipment

DANFOSS TEV
CASTEL trademark sight glass and filter dryer for dehumidification refrigerant
Liquid receiver with Rotalock valve



Nomenclature


H P S D 15 B 2 S C X X X X X
* Option codes will be added to the end of the nomenclature respectively.
Compressor Manufacturer
C = COPELAND
D = DANFOSS
P = PANASONIC
Evaporator
B = Brazed Heat Exchanger
S = Shell and Tube Heat Exchanger
Number of Compressor
1
2
Number of Circuit
A = 1
B = 2
Capacity (HP)
15
20
24
26
32
Refrigerant
C = R22
D = R407C
E = R134a
Manufacturing Series
N
S
A
R
G
Model
Q = Quantum
T = Typhon
P = Pro (Scroll Compressor Series)
TL = Tesla
Unit Type
H = Air Cooled
W = Water Cooled
A = Absorption
M = Micro

Standard Features

- This table contains a complete explanation of each parts used in units.

Item	Description	Product's Brand
Control Panel	▪ Controlling the unit circuit for the required closed loop. ▪ Providing the preview and the configuration of controlling system parameters to the user. ▪ Equipped with the advanced communication interfaces. ▪ Compatible with grid connection protocols. ▪ Displaying errors.	SIEMENS
Phase Control	Phase sequence and phase loss sensors are designed for the following measures: ▪ Protecting three-phase electric motors. ▪ Controlling the phase sequence, zero control in zero-based series, controlling each single phase with adjacent phase, and controlling each phase and zero to provide standard electricity input. ▪ Detecting the defections leading motor damages such as voltage failure in one or more phases or voltage imbalance between them. ▪ Preventing rotation of the motor the wrong way.	SIEMENS
Terminals	▪ Acting as a connector or separator between electrical panel tray and other components of the device (in terms of electrical performance).	KLEMSAN
Contactor	▪ Connecting and disconnecting the electric current of the circuit.	SIEMENS
MSPS	Motor Safety Protection System to performs an electric motor: ▪ isolation. ▪ motor protection against overload and short circuit. ▪ control of the motor.	SIEMENS
Liquid Line	Includes: ▪ Sight Glass, Filter Dryer, Safety Valve, Bulb Valve.	CASTEL
Sensors	Includes: ▪ Pressure Switch, Pressure Transmitter, Temperature Sensor.	DANFOSS
TEV	Thermal Expansion Valve: ▪ Ensuring accurate control of refrigerant injection into the evaporator.	DANFOSS

- All models are supplied with COPELAND scroll compressor trademark. Contact us for more data about other brands.

Standard Features

Item	Description	Product's Brand
Condenser [1]	▪ Fin and tube with 12FPI number of Fin per Inch including 3/8" copper tube and compressive strength of 450 PSI.	AFRA
Evaporator [1]	▪ Shell and tube type including steel pipe for shell and copper tubes with 3/8-inch internal groove and compressive strength of 300 PSI. ▪ Equipped with water flow switch, water strainer, Anti Freeze System. ▪ Tested in Accordance "ASME Section VIII" Standard. ▪ IT Trademark Insulator.	REFKAR
Liquid Receiver	▪ Eliminating gas refrigerant. ▪ Ensuring that pure liquid refrigerant enters the expansion valve. ▪ Equipped with Rotalock valve for easier operation and maintenance.	AFRA

1. Powered by UNILAB

- All models are supplied with COPELAND scroll compressor trademark. Contact us for more data about other brands.

Options

- This table includes information of equipment that their installation enhances the unit's efficiency.

Item	Description	Product's Brand
1. Soft Starter	▪ Reducing the mechanical stress and shocks caused by starts and stops to the compressor ▪ Controlling the consuming current of compressors and protecting them from the electrical overload ▪ Having the minimum amount of reactive power ▪ To perform a safe boot, three asynchronous phases are used ▪ Consistently controlling of the compressor voltage source in the operating stage ▪ The compressor is aligned with load behavior to accelerate the mechanical equipment's operation ▪ Increasing the life span	SIEMENS
2. VFD Controller	▪ Controlling the fan speed. ▪ Reducing the fan sound level. ▪ Balancing the refrigerant pressure in the condenser. ▪ Increasing the compressor's life span. ▪ Preventing the frequent start / stops that damage the equipment.	SIEMENS
3. Main Switch	▪ Power Switch (On/Off). ▪ Controlling the input current to the device.	SIEMENS
4. Oil Heater	▪ Preventing the mix of the refrigerant and the compressor oil.	-
5. Oil Separator	▪ Preventing the compressor oil discharge. ▪ Returning the oil to the compressor leading an automatic lubrication for the compressor's parts. ▪ Preventing the mix of the oil and the refrigerant which makes acid in the system. ▪ Protecting from corrosion. ▪ Protecting the compressor from damage.	CASTEL
6. Accumulator	▪ Preventing the liquid refrigerant to enter the compressor. ▪ Reevaporating of collected refrigerant in Accumulator to enhance the compressor's efficiency. ▪ Protecting the compressor from damage.	CASTEL

- Option codes must be added to the end of the nomenclature and it is mandatory in the registration process.

Options

- This table includes information of equipment that their installation enhances the unit's efficiency.

Item	Description	Product's Brand
7. Economizer	▪ Increasing the efficiency by creating a sub-circuit. ▪ Improving the system performance. ▪ Energy saving. ▪ Utilizing brazed plate heat exchanger.	KELVION (Heat Exchanger)
8. Adiabatic Cooling system	▪ 10cm Thickness cellulose pads waterfall system with semi-closed circuit and controlling ambient air temperature system to prevent water loss. ▪ The air temperature reduction can reach as much as 15 °C depending on the ambient air enthalpy conditions.	AFRA
9. Switch Cabinet	A. UPS buffered controller to prevent damage during operating. B. Cooling system specially for switch cabinet.	-
10. Fan	▪ Sound reduction diffuser.	EUROVENT

- Option codes must be added to the end of the nomenclature and it is mandatory in the registration process.

In general, all refrigerant types are characterised by two numbers: Ozone Depletion Potential (ODP) and Global Warming Potential (GWP).

ODP values range from 0 to 1: the closest the ODP value is to 1, the more harmful the refrigerant is for the ozone layer. CFCs are generally characterised by a big ODP value, because they contain chlorine, which is accused of heavily contributing to the Ozone Depletion phenomenon. As a result, CFCs have been phased out of use nowadays.

GWP values range from 0 to several thousands: the bigger the GWP value is, the more harmful the refrigerant is for the global warming effect. In general, HCFCs have also been phased out since 2005, and only the chlorine free (zero ozone depletion) HFCs are allowed for use nowadays.

The table includes refrigerant properties that using in refrigeration circuit.

ASHRAE Number	Type	Molecular Formula	ODP	GWP (100yr)
R-407C	HFC	23±2% CH_2F_2 25±2% C_2HF_5 52±2% $C_2H_2F_4$	0	1774
R-134a	HFC	$C_2H_2F_4$	0	1300
R-22	HCFC	$CHClF_2$	0.055	1760

- Powered by Wikipedia.org

Technical Data

Model No.				HPSD15B2SC	HPSD20B2SC	HPSD24B2SC
1	Cooling capacity		KW	38.4	50.2	57.8
			RT	11	14	16
	Total input power		KW	13.7	19.1	21.2
	Total rated current		A	29.8	35.4	38.4
	EER		-	2.80	2.63	2.73
2	Cooling capacity		KW	35.4	46.7	53.2
			RT	10	13	15
	Total input power		KW	15.4	21.1	23.4
	Total rated current		A	31.8	38.1	41.4
	EER		-	2.30	2.21	2.27
ESEER			-	3.47	3.10	3.28
Evaporator		Type	-	Shell and tube		
		Brand	-	REFKAR		
		Water flow rate	gpm	29.8	39	47.4
			m^3/h	6.8	8.9	10.8
		Water pressure drop	kPa	10	8	12
		Max design pressure	Mpa	0.8		
Condenser		Type	-	Flat shape		
		Brand	-	AFRA GOSTAR		
		Heat exchanger	-	Aluminium fin		
		Number of rows	-	2	3	
		Fins per inch	FPI	12		
Fan		Type	-	Axial fan		
		Brand	-	EUROVENT		
		Number	-	2		
		Speed	rpm	1350	900	
		Diameter	mm	600	800	
		Air flow rate	m^3/h	10000	22000	
		Discharge	Side/Top	Top		
Compressor		Type	-	Semi-Hermetic Scroll		
		Brand	-	COPELAND		
		Model	-	ZR94KCE-TFD	ZR125KCE-TFD	ZR144KCE-TFD
		Combination	Pieces	2		
		Oil type	-	POE RL32-3MAF		
		Oil charge amount	L	2.65	3.25	
		Oil heater	-	● (Optional)		
Refrigerant		Type	-	R407C		
Ambient temp. range			°C	21 ~ 46		21 ~ 42
Command control system		Type	-	SIEMENS PLC		
Sound pressure level			dB(A)	~ 65		
Power supply			Ø , V , Hz	3 , 400 , 50		
Dimension		WxHxD	mm	972x1209x1576	972x1265x2171	
Net weight			kg	~ 800		

1 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 35 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

2 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 40 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

- Evaporating SST : 2 °C
- Water side fouling factor : 0.000043 m^2 . °C / KW
- ESEER calculations is based on European standard.
- Measuring sound pressure level at 3m away and ±3dB tolerance.
- The characteristics of water flow rate and water pressure drop are given based on case "1".

Model No.				HPSD26B2SC	HPSD32B2SC
1	Cooling capacity		KW	61.9	73.2
			RT	18	21
	Total input power		KW	23.6	27.6
	Total rated current		A	43.8	55.5
	EER		-	2.62	2.65
2	Cooling capacity		KW	57	67.6
			RT	16	19
	Total input power		KW	26.2	30.6
	Total rated current		A	47.1	59.1
	EER		-	2.17	2.21
ESEER			-	3.29	3.34
Evaporator		Type	-	Shell and tube	
		Brand	-	REFKAR	
		Water flow rate	gpm	47	58
			m^3/h	10.7	13.2
		Water pressure drop	kPa	12.2	16.8
		Max design pressure	Mpa	0.8	
Condenser		Type	-	Flat shape	
		Brand	-	AFRA GOSTAR	
		Heat exchanger	-	Aluminium fin	
		Number of rows	-	3	
		Fins per inch	FPI	12	
Fan		Type	-	Axial fan	
		Brand	-	EUROVENT	
		Number	-	2	
		Speed	rpm	900	
		Diameter	mm	800	
		Air flow rate	m^3/h	22000	
		Discharge	Side/Top	Top	
Compressor		Type	-	Semi-Hermetic Scroll	
		Brand	-	COPELAND	
		Model	-	ZR160KCE-TFD	ZR190KCE-TFD
		Combination	Pieces	2	
		Oil type	-	POE RL32-3MAF	
		Oil charge amount	L	3.37	3.38
		Oil heater	-	● (Optional)	
Refrigerant		Type	-	R407C	
Ambient temp. range			°C	21 ~ 46	
Command control system		Type	-	SIEMENS PLC	
Sound pressure level			dB(A)	~ 70	~ 72
Power supply			Ø , V , Hz	3 , 400 , 50	
Dimension		WxHxD	mm	972x1265x2171	
Net weight			kg	~ 800	

1 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 35 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

2 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 40 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

- Evaporating SST : 2 °C
- Water side fouling factor : 0.000043 m^2 . °C / KW
- ESEER calculations is based on European standard.
- Measuring sound pressure level at 3m away and ±3dB tolerance.
- The characteristics of water flow rate and water pressure drop are given based on case "1".

Model No.				HPSC15B2SC	HPSC20B2SC	HPSC24B2SC
1	Cooling capacity		KW	39.2	52.8	60.2
			RT	11	15	17
	Total input power		KW	13.4	19.2	21.2
	Total rated current		A	29	35	38.2
	EER		-	2.93	2.75	2.84
2	Cooling capacity		KW	36.6	49.8	56.2
			RT	10	14	16
	Total input power		KW	14.8	21.2	23.4
	Total rated current		A	31	37.6	41.2
	EER		-	2.47	2.35	2.34
ESEER			-	3.65	3.21	3.51
Evaporator		Type	-	Shell and tube		
		Brand	-	REFKAR		
		Water flow rate	gpm	30	41.1	46.9
			m^3/h	6.8	9.3	10.7
		Water pressure drop	kPa	12.5	10	13.5
		Max design pressure	Mpa	0.8		
Condenser		Type	-	Flat shape		
		Brand	-	AFRA GOSTAR		
		Heat exchanger	-	Aluminium fin		
		Number of rows	-	2	3	
		Fins per inch	FPI	12		
Fan		Type	-	Axial fan		
		Brand	-	EUROVENT		
		Number	-	2		
		Speed	rpm	1350	900	
		Diameter	mm	600	800	
		Air flow rate	m^3/h	10000	22000	
		Discharge	Side/Top	Top		
Compressor		Type	-	Semi-Hermetic Scroll		
		Brand	-	COPELAND		
		Model	-	ZR94KCE-TFD	ZR125KCE-TFD	ZR144KCE-TFD
		Combination	Pieces	2		
		Oil type	-	POE RL32-3MAF		
		Oil charge amount	L	2.65	3.25	
		Oil heater	-	● (Optional)		
Refrigerant		Type	-	R22		
Ambient temp. range			°C	21 ~ 46		
Command control system		Type	-	SIEMENS PLC		
Sound pressure level			dB(A)	~ 65		
Power supply			Ø , V , Hz	3 , 400 , 50		
Dimension		WxHxD	mm	972x1209x1576	972x1265x2171	
Net weight			kg	~ 800		

1 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 35 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

2 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 40 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

- Evaporating SST : 2 °C
- Water side fouling factor : 0.000043 m^2 . °C / KW
- ESEER calculations is based on European standard.
- Measuring sound pressure level at 3m away and ±3dB tolerance.
- The characteristics of water flow rate and water pressure drop are given based on case "1".

Model No.				HPSC26B2SC	HPSC32B2SC
1	Cooling capacity		KW	64.8	76.6
			RT	18	22
	Total input power		KW	23.4	27.6
	Total rated current		A	43	53.6
	EER		-	2.77	2.78
2	Cooling capacity		KW	60	71.2
			RT	17	20
	Total input power		KW	25.6	30.4
	Total rated current		A	46.4	57.4
	EER		-	2.34	2.34
ESEER			-	3.30	3.37
Evaporator		Type	-	Shell and tube	
		Brand	-	REFKAR	
		Water flow rate	gpm	51.7	60.6
			m^3/h	11.7	13.8
		Water pressure drop	kPa	14	19.1
		Max design pressure	Mpa	0.8	
Condenser		Type	-	Flat shape	
		Brand	-	AFRA GOSTAR	
		Heat exchanger	-	Aluminium fin	
		Number of rows	-	3	
		Fins per inch	FPI	12	
Fan		Type	-	Axial fan	
		Brand	-	EUROVENT	
		Number	-	4	
		Speed	rpm	900	
		Diameter	mm	800	
		Air flow rate	m^3/h	22000	
		Discharge	Side/Top	Top	
Compressor		Type	-	Semi-Hermetic Scroll	
		Brand	-	COPELAND	
		Model	-	ZR160KCE-TFD	ZR190KCE-TFD
		Combination	Pieces	2	
		Oil type	-	POE RL32-3MAF	
		Oil charge amount	L	3.37	3.38
		Oil heater	-	● (Optional)	
Refrigerant		Type	-	R22	
Ambient temp. range			°C	21 ~ 46	
Command control system		Type	-	SIEMENS PLC	
Sound pressure level			dB(A)	~ 70	~ 72
Power supply			Ø , V , Hz	3 , 400 , 50	
Dimension		WxHxD	mm	972x1265x2171	
Net weight			kg	~ 800	

1 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 35 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

2 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 40 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

- Evaporating SST : 2 °C
- Water side fouling factor : 0.000043 m^2 . °C / KW
- ESEER calculations is based on European standard.
- Measuring sound pressure level at 3m away and ±3dB tolerance.
- The characteristics of water flow rate and water pressure drop are given based on case "1".

Model No.				HPSE15B2SC	HPSE20B2SC	HPSE24B2SC
1	Cooling capacity		KW	24.8	34	39.8
			RT	7	10	11
	Total input power		KW	9.6	13.9	15.6
	Total rated current		A	25.2	29	29.6
	EER		-	2.58	2.45	2.55
2	Cooling capacity		KW	22.8	31.8	36.8
			RT	6	9	10
	Total input power		KW	10.6	15	17
	Total rated current		A	26.4	30.2	31.8
	EER		-	2.14	2.12	2.16
ESEER			-	3.12	2.81	3.01
Evaporator		Type	-	Shell and tube		
		Brand	-	REFKAR		
		Water flow rate	gpm	17.7	26.5	30
			m^3/h	4	6	6.8
		Water pressure drop	kPa	9	9.5	12
		Max design pressure	Mpa	0.8		
Condenser		Type	-	Flat shape		
		Brand	-	AFRA GOSTAR		
		Heat exchanger	-	Aluminium fin		
		Number of rows	-	2	3	
		Fins per inch	FPI	12		
Fan		Type	-	Axial fan		
		Brand	-	EUROVENT		
		Number	-	2		
		Speed	rpm	1350	900	
		Diameter	mm	600	800	
		Air flow rate	m^3/h	10000	22000	
		Discharge	Side/Top	Top		
Compressor		Type	-	Semi-Hermetic Scroll		
		Brand	-	COPELAND		
		Model	-	ZR94KCE-TFD	ZR125KCE-TFD	ZR144KCE-TFD
		Combination	Pieces	2		
		Oil type	-	POE RL32-3MAF		
		Oil charge amount	L	2.65	3.25	
		Oil heater	-	● (Optional)		
Refrigerant		Type	-	R134a		
Ambient temp. range			°C	21 ~ 46		
Command control system		Type	-	SIEMENS PLC		
Sound pressure level			dB(A)	~ 65		
Power supply			Ø , V , Hz	3 , 400 , 50		
Dimension		WxHxD	mm	972x1209x1576	972x1265x2171	
Net weight			kg	~ 800		

1 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 35 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

2 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 40 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

- Evaporating SST : 2 °C
- Water side fouling factor : 0.000043 m^2 . °C / KW
- ESEER calculations is based on European standard.
- Measuring sound pressure level at 3m away and ±3dB tolerance.
- The characteristics of water flow rate and water pressure drop are given based on case "1".

Model No.				HPSE26B2SC	HPSE32B2SC
1	Cooling capacity		KW	42.2	50.6
			RT	12	14
	Total input power		KW	16.9	20.2
	Total rated current		A	36.2	48.6
	EER		-	2.50	2.50
2	Cooling capacity		KW	39.2	47
			RT	11	13
	Total input power		KW	18.4	22
	Total rated current		A	38	50.2
	EER		-	2.13	2.14
ESEER			-	2.93	2.93
Evaporator		Type	-	Shell and tube	
		Brand	-	REFKAR	
		Water flow rate	gpm	32.2	40.3
			m^3/h	7.3	9.2
		Water pressure drop	kPa	14	18
		Max design pressure	Mpa	0.8	
Condenser		Type	-	Flat shape	
		Brand	-	AFRA GOSTAR	
		Heat exchanger	-	Aluminium fin	
		Number of rows	-	3	
		Fins per inch	FPI	12	
Fan		Type	-	Axial fan	
		Brand	-	EUROVENT	
		Number	-	2	
		Speed	rpm	900	
		Diameter	mm	800	
		Air flow rate	m^3/h	22000	
		Discharge	Side/Top	Top	
Compressor		Type	-	Semi-Hermetic Scroll	
		Brand	-	COPELAND	
		Model	-	ZR160KCE-TFD	ZR190KCE-TFD
		Combination	Pieces	2	
		Oil type	-	POE RL32-3MAF	
		Oil charge amount	L	3.37	3.38
		Oil heater	-	● (Optional)	
Refrigerant		Type	-	R134a	
Ambient temp. range			°C	21 ~ 46	
Command control system		Type	-	SIEMENS PLC	
Sound pressure level			dB(A)	~ 70	~ 72
Power supply			Ø , V , Hz	3 , 400 , 50	
Dimension		WxHxD	mm	972x1265x2171	
Net weight			kg	~ 800	

1 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 35 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

2 : Chilled water inlet / outlet : 12 °C / 7 °C
Outdoor ambient temp. : 40 °C DB
Sea level : 4000 ft
Fan input power included
Pump input power not included

- Evaporating SST : 2 °C
- Water side fouling factor : 0.000043 m^2 . °C / KW
- ESEER calculations is based on European standard.
- Measuring sound pressure level at 3m away and ±3dB tolerance.
- The characteristics of water flow rate and water pressure drop are given based on case "1".

Performance Data

Model No.	Ambient Temp. (°C)	Cooling Capacity (KW)	Power Input (KW)	Rated Current (A)	COP
HPSD15B2SC	30	41.2	12.3	28.2	3.35
	35	38.4	13.7	29.8	2.80
	37	37.2	14.4	30.6	2.58
	40	35.4	15.4	31.8	2.30
	42	34.0	16.1	32.6	2.11
	46	31.2	17.6	34.6	1.77
HPSD20B2SC	30	53.5	17.3	33.2	3.09
	35	50.2	19.1	35.4	2.63
	37	48.9	19.9	36.4	2.46
	40	46.7	21.1	38.1	2.21
	42	45.2	22.0	39.3	2.06
	46	42.1	23.9	41.9	1.76
HPSD24B2SC	30	61.8	19.2	35.8	3.22
	35	57.8	21.2	38.4	2.73
	37	56.0	22.2	39.4	2.52
	40	53.2	23.4	41.4	2.27
	42	51.4	24.6	42.8	2.09
	46	-	-	-	-
HPSD26B2SC	30	66.9	21.4	41.1	3.13
	35	61.9	23.6	43.8	2.62
	37	65.6	24.6	45.1	2.67
	40	57.0	26.2	47.1	2.17
	42	55.0	27.3	48.6	2.01
	46	50.7	29.7	51.9	1.71
HPSD32B2SC	30	78.3	25.0	52.6	3.13
	35	73.2	27.6	55.5	2.65
	37	71.1	28.8	56.9	2.47
	40	67.6	30.6	59.1	2.21
	42	65.4	31.9	60.6	2.05
	46	60.5	34.7	64.1	1.74

- Chilled water inlet / outlet : 12 °C / 7 °C

Model No.	Ambient Temp. (°C)	Cooling Capacity (KW)	Power Input (KW)	Rated Current (A)	COP
HPSC15B2SC	30	41.8	12.2	27.1	3.43
	35	39.2	13.4	29.0	2.93
	37	38.2	14.0	29.8	2.73
	40	36.6	14.8	31.0	2.47
	42	35.6	15.4	32.0	2.31
	46	33.0	16.8	34.2	1.96
HPSC20B2SC	30	55.6	17.6	32.8	3.16
	35	52.8	19.2	35.0	2.75
	37	51.6	20.0	36.0	2.58
	40	49.8	21.2	37.6	2.35
	42	48.6	22.0	38.6	2.21
	46	45.8	23.8	41.2	1.92
HPSC24B2SC	30	63.8	19.4	35.4	3.29
	35	60.2	21.2	38.2	2.84
	37	58.6	22.0	39.4	2.66
	40	56.2	23.4	41.2	2.40
	42	54.6	24.2	42.6	2.26
	46	51.2	26.2	45.6	1.95
HPSC26B2SC	30	69.0	21.4	40.0	3.22
	35	64.8	23.4	43.0	2.77
	37	62.8	24.3	44.4	2.58
	40	60.0	25.6	46.4	2.34
	42	57.8	26.8	48.0	2.16
	46	53.2	29.0	51.4	1.83
HPSC32B2SC	30	81.6	25.2	50.4	3.24
	35	76.6	27.6	53.6	2.78
	37	74.6	28.8	55.0	2.59
	40	71.2	30.4	57.4	2.34
	42	68.6	31.6	58.9	2.17
	46	63.4	34.2	62.4	1.85

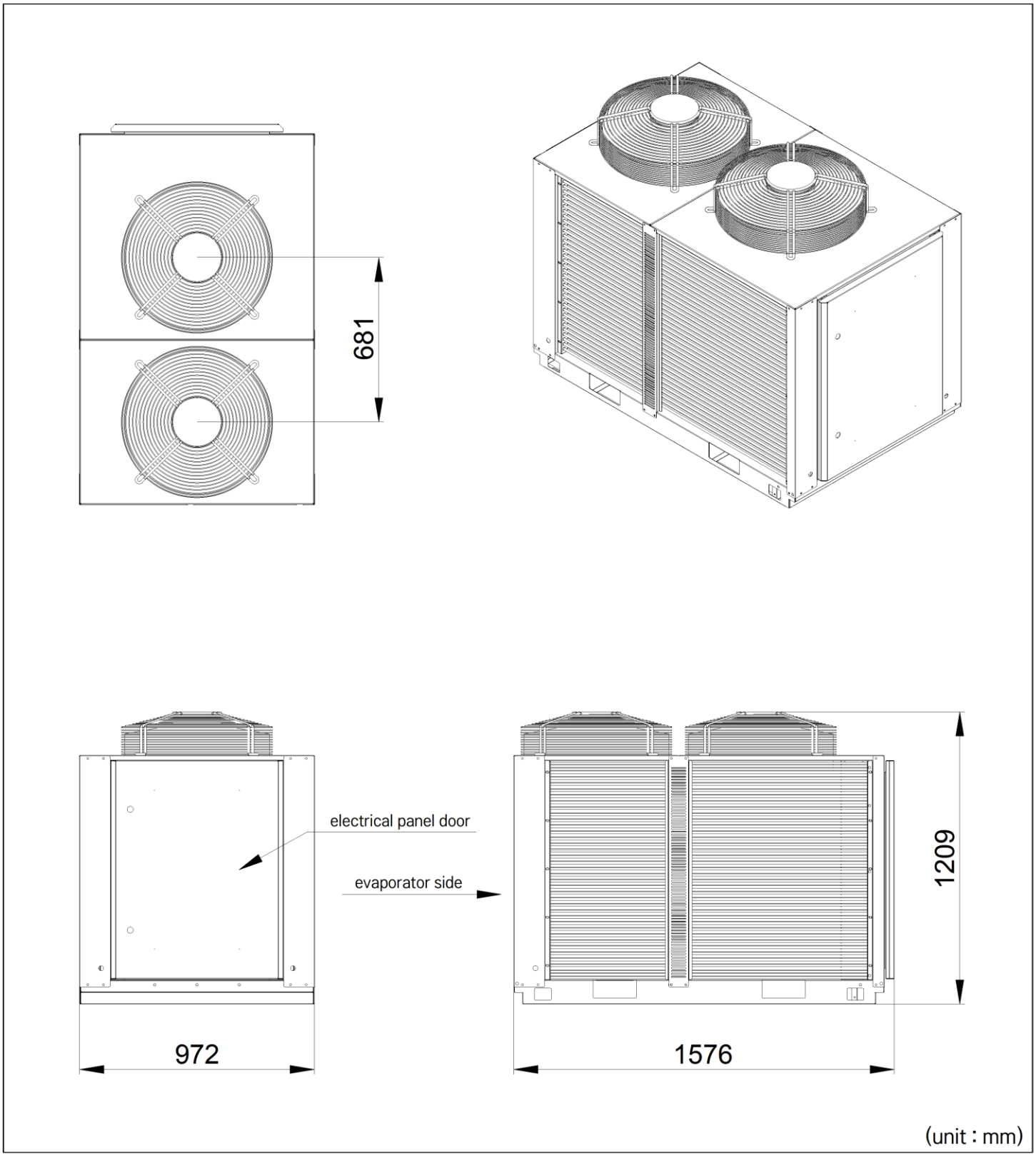
- Chilled water inlet / outlet : 12 °C / 7 °C

Model No.	Ambient Temp. (°C)	Cooling Capacity (KW)	Power Input (KW)	Rated Current (A)	COP
HPSE15B2SC	30	26.6	8.8	24.4	3.02
	35	24.8	9.6	25.2	2.58
	37	24.0	10.0	25.8	2.40
	40	22.8	10.6	26.4	2.14
	42	21.8	11.1	26.8	1.97
	46	20.0	12.0	27.8	1.67
HPSE20B2SC	30	36.0	12.8	28.0	2.81
	35	34.0	13.9	29.0	2.45
	37	33.2	14.4	29.4	2.31
	40	31.8	15.0	30.2	2.12
	42	30.8	15.5	30.8	1.98
	46	28.8	16.6	32.0	1.73
HPSE24B2SC	30	42.6	14.2	27.8	3.00
	35	39.8	15.6	29.6	2.55
	37	38.6	16.2	30.5	2.38
	40	36.8	17.0	31.8	2.16
	42	35.6	17.6	32.8	2.02
	46	33.0	19.0	34.9	1.74
HPSE26B2SC	30	45.2	15.6	34.8	2.90
	35	42.2	16.9	36.2	2.50
	37	41.0	17.4	37.0	2.36
	40	39.2	18.4	38.0	2.13
	42	37.8	19.2	38.6	1.97
	46	35.0	20.6	40.2	1.70
HPSE32B2SC	30	54.0	18.6	47.2	2.90
	35	50.6	20.2	48.6	2.50
	37	49.2	20.9	49.2	2.35
	40	47.0	22.0	50.2	2.14
	42	45.6	22.8	50.8	2.00
	46	42.6	24.8	52.4	1.72

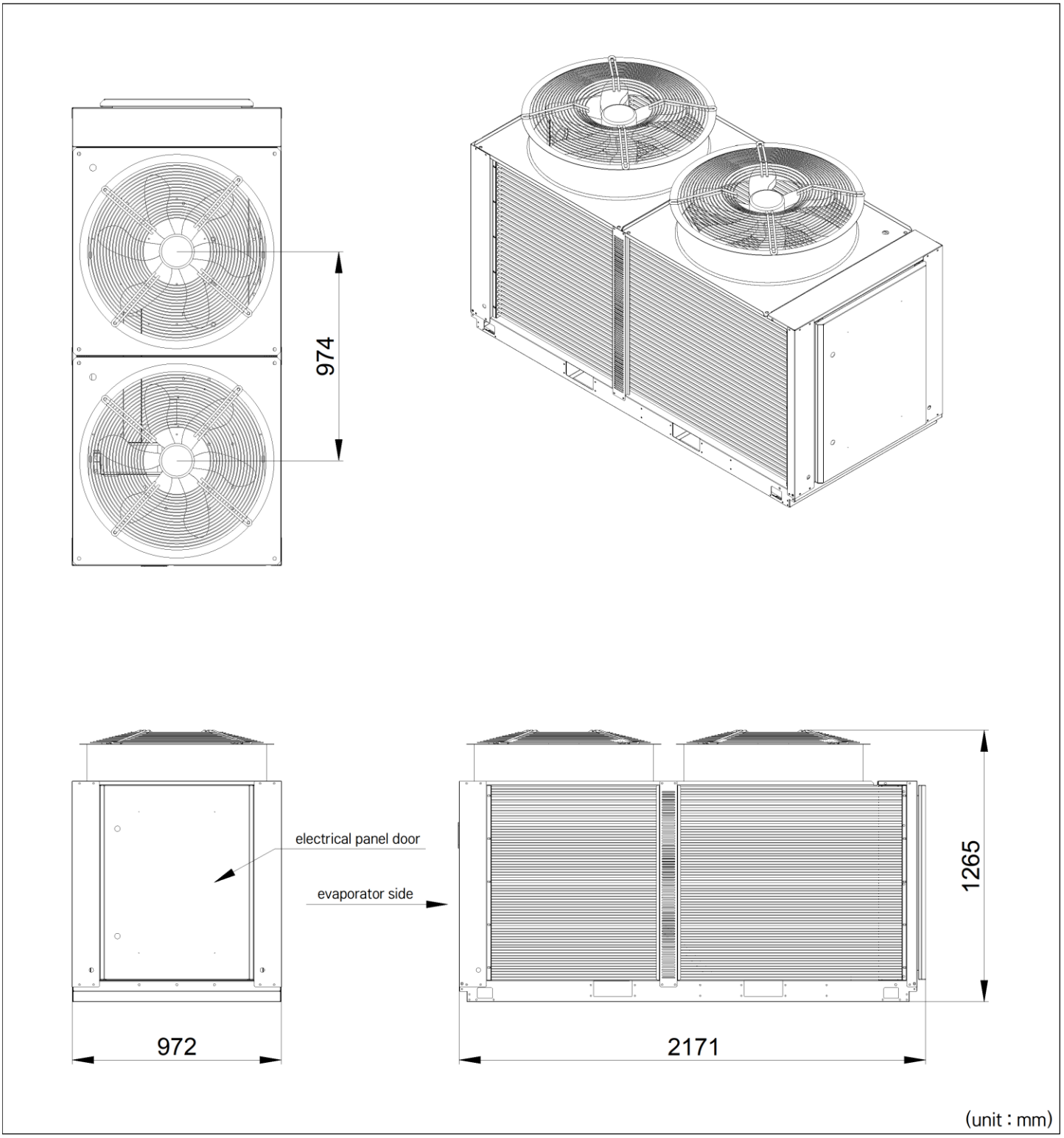
- Chilled water inlet / outlet : 12 °C / 7 °C

Dimensions

HPSD15B2SC


681
electrical panel door
evaporator side
1209
972
1576
(unit : mm)

HPSD20B2SC - HPSD24B2SC - HPSD26B2SC - HPSD32B2SC



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