General Catalogue

AIR COOLED CHILLER - HTS Series

ACHIEVE YOUR VISION

CHILLER
FAN COIL
ICE TERMAL STORAGE SYSTEM
CHU & AHU
BOILER

AFRA
HVAC SYSTEM

Introduction

Compressor

Combination of BITZER compact screw Type
With highly efficient performance
Anti Vibration Joint
Oil heater System
Dehumidifier filter dryer with replaceable cartridge
Safety valve for protect compressor at high Pressure
Liquid Line Solenoid Valve
Liquid Line Pressure Switch and Pressure Transmitter
Soft start to prevent current spikes (optional)

Refrigerant

R134a
The most efficient and useful

R407C
We do not offer because of the limitations on operating in different ambient temperatures compared to R134a refrigerant type

R22
Harmful to environment and it is outdated. So, we do not offer

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

Liquid Line Equipment

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

Condenser

Our new U shaped style that bring more heat exchange surface compared conventional flat heat exchanger
Fin and Tube series
Thanks to this technology, the dimensions of the device have been reduced
With high efficiency and low pressure drop
3/8" copper tube with up to 450 PSI compressive strength
12FPI number of Fin per Inch

Fan

Axial low noise model
Variable frequency drive for saving energy and reducing sound level
Sound Reduction diffuser (optional)
EUROVENT trademark with "IP54" grading for difference models by the default

Electrical and Safety Equipment

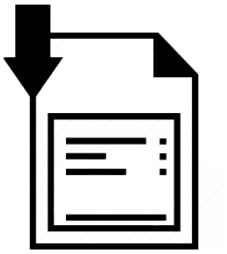
DANFOSS PLC
Ability to synchronize with BMS
Compatible with network connection protocols
DANFOSS trademark high pressure and low pressure sensor
Switch cabinet with IP54
Switch cabinet with SIEMENS trademark;
Main switching, phase control, Contactor, MSPS
Multi-device module capability
UPS buffered controller 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

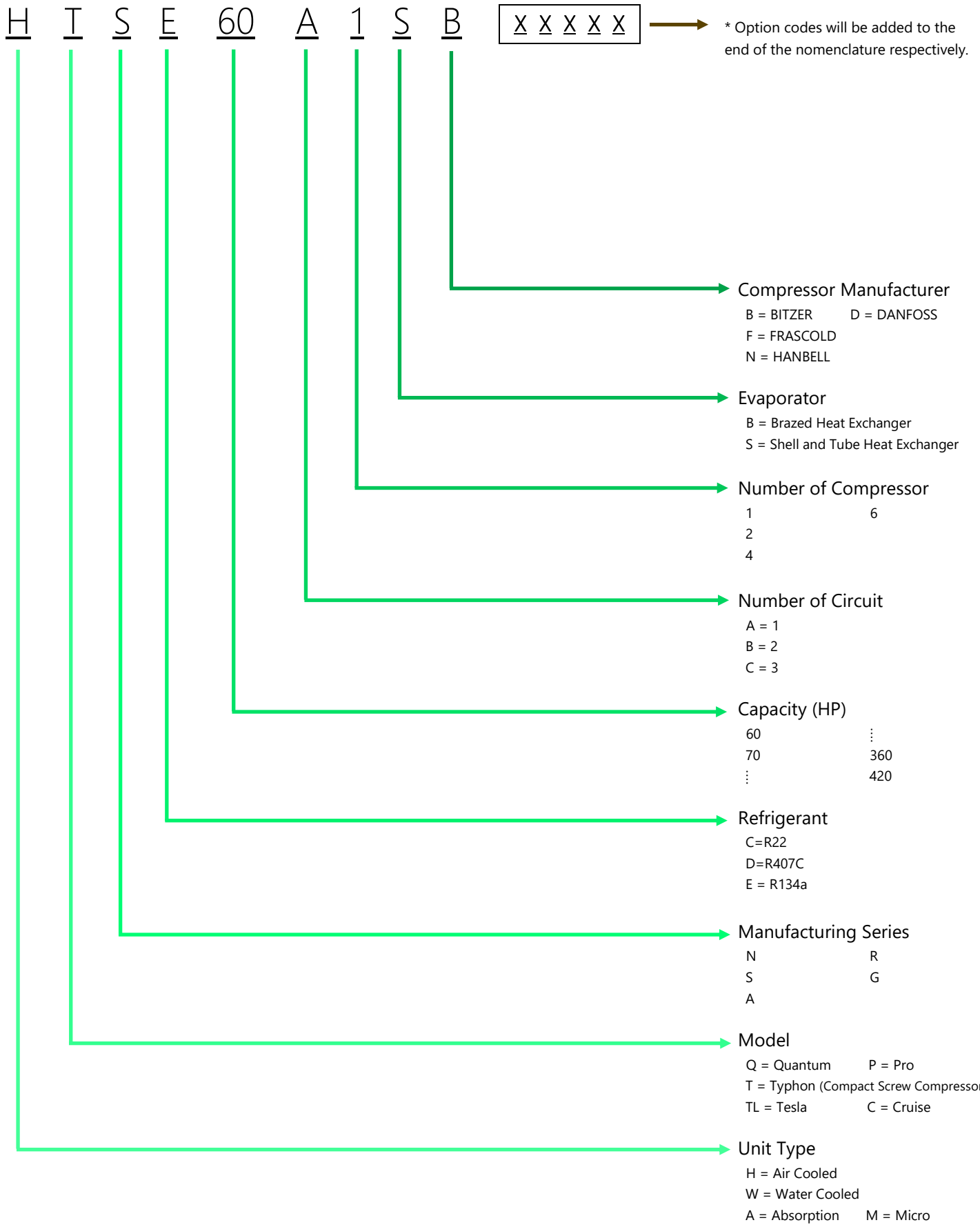
Body

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 U section of condenser



Nomenclature

HTS Series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* Option codes will be added to the end of the nomenclature respectively.
Compressor Manufacturer
B = BITZER D = DANFOSS
F = FRASCOLD
N = HANBELL
Evaporator
B = Brazed Heat Exchanger
S = Shell and Tube Heat Exchanger
Number of Compressor
1 6
2
4
Number of Circuit
A = 1
B = 2
C = 3
Capacity (HP)
60 ⋮
70 360
⋮ 420
Refrigerant
C=R22
D=R407C
E = R134a
Manufacturing Series
N R
S G
A
Model
Q = Quantum P = Pro
T = Typhon (Compact Screw Compressor Series)
TL = Tesla C = Cruise
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
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
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.	DANFOSS
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 Start 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, Solenoid Valve, Bulb Valve.	CASTEL

- All models are supplied with BITZER screw compressor trademark. Contact us for more data about other brands.
- Compressors are equipped with Oil Pressure Safety Control and Oil Heater by the default.

Standard Features

Item	Description	Product's Brand
Sensors	Includes: ▪ Pressure Switch, Pressure Transmitter, Temperature Sensor.	DANFOSS
EEV	Electronic Expansion Valve: ▪ Ensuring accurate control of refrigerant injection into the evaporator.	DANFOSS
Main Switch	▪ Power Switch (On/Off). ▪ Controlling the input current to the device.	SIEMENS
Condenser [1]	▪ Fin and tube "U" shaped series 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 BITZER screw compressor trademark. Contact us for more data about other brands.
- Compressors are equipped with Oil Pressure Safety Control and Oil Heater by the default.

Options

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

Item	Description	Product's Brand
1. Soft Starter [1]	▪ 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. 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
3. 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
4. Economizer	▪ Increasing the efficiency by creating a sub-circuit. ▪ Improving the system performance. ▪ Energy saving. ▪ Utilizing brazed plate heat exchanger.	KELVION (Heat Exchanger)
5. Switch Cabinet	A. UPS buffered controller to prevent damage during operating. B. Cooling system specially for switch cabinet.	-
6. Fan	A. ROSENBERG trademark. B. ZIEHL-ABEGG trademark. C. EBMPAPST trademark. D. Sound reduction diffuser. (Executable only for EUROVENT fans)	-

1. Soft Starter is for units model no. HTSE60A1SB to HTSE180B2SB.

- All models are supplied with EUROVENT fan trademark.
- Option codes must be added to the end of the nomenclature and it is mandatory in the registration process.

Technical Data

Model No.				HTSE60A1SB	HTSE70A1SB	HTSE80A1SB
1	Cooling capacity		KW	114.3	134.0	165.0
			RT	32.5	38.1	46.9
	Total input power		KW	42.7	51.2	60.9
	Total rated current		A	78	91	100
	EER		-	2.68	2.62	2.71
2	Cooling capacity		KW	105.4	122.8	153.2
			RT	30	34.9	43.6
	Total input power		KW	46.2	55.8	66.5
	Total rated current		A	83	97	108
	EER		-	2.28	2.20	2.30
ESEER			-	3.75	3.75	3.76
Evaporator		Type	-	Shell and tube		
		Brand	-	REFKAR		
		Water flow rate	gpm	79	93	114
			m^3/h	17.9	21.1	25.9
		Water pressure drop	kPa	14.4	23.6	13.6
		Max design pressure	Mpa	0.8		
Condenser		Type	-	U 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	-	4		
		Speed	rpm	900		
		Diameter	mm	800		
		Air flow rate	m^3/h	22000		
		Discharge	Side/Top	Top		
Compressor		Type	-	Compact Screw		
		Brand	-	BITZER		
		Model	-	CSH6593-60Y	CSH7573-70Y	CSH8553-80Y
		Combination	Pieces	1		
		Capacity	hp	60	70	80
		Oil type	-	BSE170		
		Oil charge amount	L	9.5	15	22
		Oil heater	-	●		
Refrigerant		Type	-	R134a		
Ambient temp. range			°C	21 ~ 46		
Command control system		Type	-	DANFOSS PLC		
Sound pressure level			dB(A)	~ 86	~ 85	~ 86
Power supply			Ø , V , Hz	3 , 400 , 50		
Dimension		WxHxD	mm	2060x2580x2090		
Net weight			kg	~ 2200		

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.				HTSE90A1SB	HTSE110A1SB	HTSE120B2SB
1	Cooling capacity		KW	190.1	222.4	228.5
			RT	54.1	63.2	65.0
	Total input power		KW	68.1	80.3	85.6
	Total rated current		A	114	140	156
	EER		-	2.79	2.77	2.67
2	Cooling capacity		KW	176.6	205.8	210.8
			RT	50.2	58.5	59.9
	Total input power		KW	75.0	87.8	92.6
	Total rated current		A	124	152	166
	EER		-	2.35	2.34	2.28
ESEER			-	3.95	3.95	3.75
Evaporator		Type	-	Shell and tube		
		Brand	-	REFKAR		
		Water flow rate	gpm	132	154	157
			m^3/h	30	35	35.7
		Water pressure drop	kPa	25.3	22	16.5
		Max design pressure	Mpa	0.8		
Condenser		Type	-	U Shape		
		Brand	-	AFRA GOSTAR		
		Heat exchanger	-	Aluminium fin		
		Number of rows	-	3		2
		Fins per inch	FPI	12		
Fan		Type	-	Axial fan		
		Brand	-	EUROVENT		
		Number	-	4	6	8
		Speed	rpm	900		
		Diameter	mm	800		
		Air flow rate	m^3/h	22000		
		Discharge	Side/Top	Top		
Compressor		Type	-	Compact Screw		
		Brand	-	BITZER		
		Model	-	CSH8563-90Y	CSH8573-110Y	CSH6593-60Y
		Combination	Pieces	1		2
		Capacity	hp	90	110	120
		Oil type	-	BSE170		
		Oil charge amount	L	22	22	2 x 9.5
		Oil heater	-	●		
Refrigerant		Type	-	R134a		
Ambient temp. range			°C	21 ~ 46		
Command control system		Type	-	DANFOSS PLC		
Sound pressure level			dB(A)	~ 85	~ 86	~ 87
Power supply			Ø , V , Hz	3 , 400 , 50		
Dimension	WxHxD		mm	2060x2580x3130		2060x2580x4170
Net weight			kg	~ 2200	~ 4000	

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.				HTSE140B2SB	HTSE160B2SB	HTSE180B2SB
1	Cooling capacity		KW	268.0	329.9	380.2
			RT	76.2	93.8	108.1
	Total input power		KW	102.2	121.6	136.0
	Total rated current		A	182	200	228
	EER		-	2.62	2.71	2.80
2	Cooling capacity		KW	245.7	306.4	353.2
			RT	69.9	87.1	100.4
	Total input power		KW	111.4	132.8	149.8
	Total rated current		A	194	216	248
	EER		-	2.21	2.31	2.36
ESEER			-	3.76	3.84	3.96
Evaporator		Type	-	Shell and tube		
		Brand	-	REFKAR		
		Water flow rate	gpm	185	228	263
			m^3/h	42	51.7	59.7
		Water pressure drop	kPa	33	36.3	43.5
		Max design pressure	Mpa	0.8		
Condenser		Type	-	U 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	-	8		
		Speed	rpm	900		
		Diameter	mm	800		
		Air flow rate	m^3/h	22000		
		Discharge	Side/Top	Top		
Compressor		Type	-	Compact Screw		
		Brand	-	BITZER		
		Model	-	CSH7573-70Y	CSH8553-80Y	CSH8563-90Y
		Combination	Pieces	2		
		Capacity	hp	140	160	180
		Oil type	-	BSE170		
		Oil charge amount	L	2 x 15	2 x 22	2 x 15
		Oil heater	-	●		
Refrigerant		Type	-	R134a		
Ambient temp. range			℃	21 ~ 46		
Command control system		Type	-	DANFOSS PLC		
Sound pressure level			dB(A)	~ 85	~ 86	~ 85
Power supply			Ø , V , Hz	3 , 400 , 50		
Dimension		WxHxD	mm	2060x2580x4170		
Net weight			kg	~ 4200		

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

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

- Evaporating SST : 2 ℃
- Water side fouling factor : 0.000043 m^2 . ℃ / 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.				HTSE220B2SB	HTSE250B2SB	HTSE280B2SB
1	Cooling capacity		KW	444.7	493.9	561.1
			RT	126.4	140.4	159.5
	Total input power		KW	160.4	177.7	206.6
	Total rated current		A	280	311	361
	EER		-	2.77	2.78	2.72
2	Cooling capacity		KW	411.7	458.0	519.4
			RT	117.1	130.2	147.7
	Total input power		KW	175.7	194.9	226.2
	Total rated current		A	304	336	390
	EER		-	2.34	2.35	2.30
ESEER			-	3.95	3.95	3.85
Evaporator		Type	-	Shell and tube		
		Brand	-	REFKAR		
		Water flow rate	gpm	308	341	388
			m^3/h	69.9	77.4	88.1
		Water pressure drop	kPa	42	49	51
		Max design pressure	Mpa	0.8		
Condenser		Type	-	U Shape		
		Brand	-	AFRA GOSTAR		
		Heat exchanger	-	Aluminium fin		
		Number of rows	-	3		
		Fins per inch	FPI	12		
Fan		Type	-	Axial fan		
		Brand	-	EUROVENT		
		Number	-	12		16
		Speed	rpm	900		
		Diameter	mm	800		
		Air flow rate	m^3/h	22000		
		Discharge	Side/Top	Top		
Compressor		Type	-	Compact Screw		
		Brand	-	BITZER		
		Model	-	CSH8573-110Y	CSH8583-125Y	CSH8593-140Y
		Combination	Pieces	2		
		Capacity	hp	220	250	280
		Oil type	-	BSE170		
		Oil charge amount	L	2 x 22	2 x 19	2 x 19
		Oil heater	-	●		
Refrigerant		Type	-	R134a		
Ambient temp. range			℃	21 ~ 46		
Command control system		Type	-	DANFOSS PLC		
Sound pressure level			dB(A)	~ 86	~ 88	~ 86
Power supply			Ø , V , Hz	3 , 400 , 50		
Dimension		WxHxD	mm	2060x2580x6250		2060x2580x8344
Net weight			kg	~ 6000		~ 8000

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

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

- Evaporating SST : 2 ℃
- Water side fouling factor : 0.000043 m^2 . ℃ / 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.				HTSE320B2SB	HTSE360B2SB	HTSE420B2SB
1	Cooling capacity		KW	665.6	776.8	897.9
			RT	189.3	220.9	255.3
	Total input power		KW	236.9	263.5	305.5
	Total rated current		A	403	442	524
	EER		-	2.81	2.95	2.94
2	Cooling capacity		KW	613.7	717.9	835.9
			RT	174.5	204.1	237.7
	Total input power		KW	258.9	285.7	333.3
	Total rated current		A	435	476	566
	EER		-	2.37	2.51	2.51
ESEER			-	4.01	4.11	4.12
Evaporator		Type	-	Shell and tube		
		Brand	-	REFKAR		
		Water flow rate	gpm	460	537	620
			m^3/h	104.5	122	141
		Water pressure drop	kPa	22.3	24	38
		Max design pressure	Mpa	0.8		
Condenser		Type	-	U Shape		
		Brand	-	AFRA GOSTAR		
		Heat exchanger	-	Aluminium fin		
		Number of rows	-	3		
		Fins per inch	FPI	12		
Fan		Type	-	Axial fan		
		Brand	-	EUROVENT		
		Number	-	16	18	20
		Speed	rpm	900		
		Diameter	mm	800		
		Air flow rate	m^3/h	22000		
		Discharge	Side/Top	Top		
Compressor		Type	-	Compact Screw		
		Brand	-	BITZER		
		Model	-	CSH9563-160Y	CSH9573-180Y	CSH9583-210Y
		Combination	Pieces	2		
		Capacity	hp	320	360	420
		Oil type	-	BSE170		
		Oil charge amount	L	2 x 30	2 x 30	2 x 30
		Oil heater	-	●		
Refrigerant		Type	-	R134a		
Ambient temp. range			°C	21 ~ 46		
Command control system		Type	-	DANFOSS PLC		
Sound pressure level			dB(A)	~ 87	~ 87	~ 89
Power supply			Ø , V , Hz	3 , 400 , 50		
Dimension		WxHxD	mm	2060x2580x8344	2060x2580x9386	2060x2580x10428
Net weight			kg	~ 8000	~ 9000	~ 10000

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
HTSE60A1SB	30	122.8	39.5	74	3.11
	35	114.3	42.7	78	2.68
	37	110.7	44.0	80	2.52
	40	105.4	46.2	83	2.28
	42	101.8	47.8	85	2.13
	46	94.5	51.2	90	1.85
HTSE70A1SB	30	144.9	47.1	85	3.08
	35	134.0	51.2	91	2.62
	37	129.6	52.9	93	2.45
	40	122.8	55.8	97	2.20
	42	118.4	57.8	100	2.05
	46	109.2	62.2	106	1.76
HTSE80A1SB	30	176.2	55.9	93	3.15
	35	165.0	60.9	100	2.71
	37	160.3	63.2	103	2.54
	40	153.2	66.5	108	2.30
	42	148.4	69.5	112	2.13
	46	138.7	75.2	120	1.84
HTSE90A1SB	30	203.0	62.5	106	3.25
	35	190.1	68.1	114	2.79
	37	184.8	70.8	118	2.61
	40	176.6	75.0	124	2.35
	42	171.1	77.9	129	2.20
	46	159.8	84.5	139	1.89
HTSE110A1SB	30	240.0	73.7	131	3.26
	35	222.4	80.3	140	2.77
	37	216.1	83.2	145	2.60
	40	205.8	87.8	152	2.34
	42	198.2	91.3	157	2.17
	46	184.9	98.7	168	1.87

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

Model No.	Ambient Temp. (°C)	Cooling Capacity (KW)	Power Input (KW)	Rated Current (A)	COP
HTSE120B2SB	30	245.7	79.2	148	3.10
	35	228.5	85.6	156	2.67
	37	221.5	88.2	160	2.51
	40	210.8	92.6	166	2.28
	42	203.6	95.8	170	2.12
	46	189.1	102.6	180	1.84
HTSE140B2SB	30	289.7	94.0	170	3.08
	35	268.0	102.2	182	2.62
	37	259.2	105.6	186	2.45
	40	245.7	111.4	194	2.21
	42	236.7	115.4	200	2.05
	46	218.4	124.2	212	1.76
HTSE160B2SB	30	352.4	111.2	186	3.17
	35	329.9	121.6	200	2.71
	37	320.6	126.2	206	2.54
	40	306.4	132.8	216	2.31
	42	296.8	138.8	224	2.14
	46	277.3	150.2	240	1.85
HTSE180B2SB	30	406.0	124.8	212	3.25
	35	380.2	136.0	228	2.80
	37	369.6	141.4	236	2.61
	40	353.2	149.8	248	2.36
	42	342.1	155.6	258	2.20
	46	319.6	168.8	278	1.89
HTSE220B2SB	30	479.9	147.3	262	3.26
	35	444.7	160.4	280	2.77
	37	432.1	166.3	290	2.60
	40	411.7	175.7	304	2.34
	42	396.4	182.5	314	2.17
	46	369.8	197.3	336	1.87

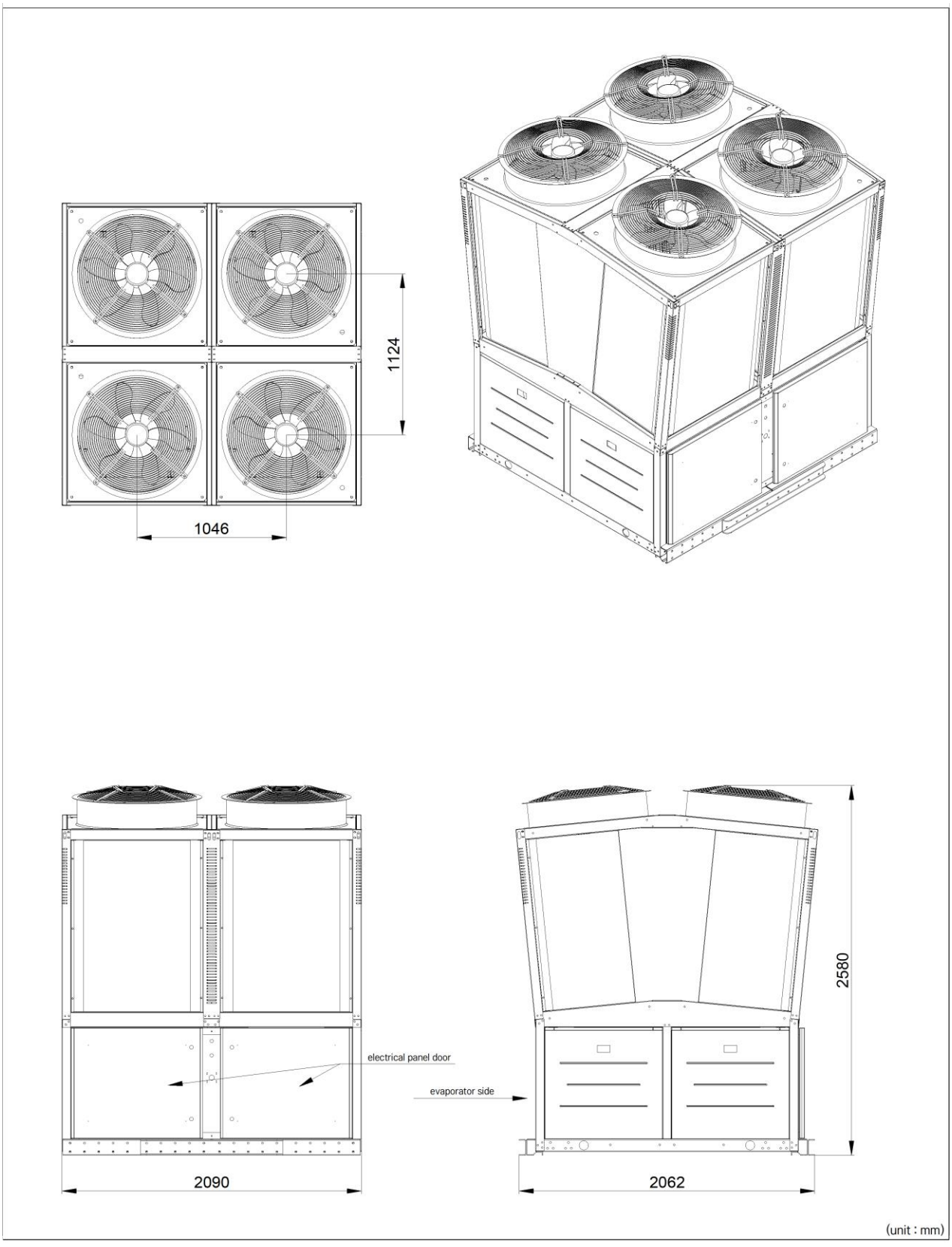
- Chilled water inlet / outlet : 12 °C / 7 °C

Model No.	Ambient Temp. (°C)	Cooling Capacity (KW)	Power Input (KW)	Rated Current (A)	COP
HTSE250B2SB	30	529.4	162.9	290	3.25
	35	493.9	177.7	311	2.78
	37	479.1	184.3	320	2.60
	40	458.0	194.9	336	2.35
	42	443.3	202.5	347	2.19
	46	412.2	219.1	372	1.88
HTSE280B2SB	30	600.4	189.8	337	3.16
	35	561.1	206.6	361	2.72
	37	544.2	214.0	372	2.54
	40	519.4	226.2	390	2.30
	42	503.2	234.8	403	2.14
	46	467.9	253.8	431	1.84
HTSE320B2SB	30	714.3	217.3	374	3.29
	35	665.6	236.9	403	2.81
	37	645.6	245.9	415	2.63
	40	613.7	258.9	435	2.37
	42	592.7	267.9	450	2.21
	46	549.8	287.9	481	1.91
HTSE360B2SB	30	831.7	244.2	412	3.41
	35	776.8	263.5	442	2.95
	37	753.0	272.6	455	2.76
	40	717.9	285.7	476	2.51
	42	693.9	295.4	492	2.35
	46	646.0	316.5	524	2.04
HTSE420B2SB	30	957.6	280.7	488	3.41
	35	897.9	305.5	524	2.94
	37	875.8	316.4	541	2.77
	40	835.9	333.3	566	2.51
	42	810.9	345.2	583	2.35
	46	760.4	370.0	621	2.06

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

Dimensions

HTSE60A1SB - HTSE70A1SB - HTSE80A1SB - HTSE90A1SB



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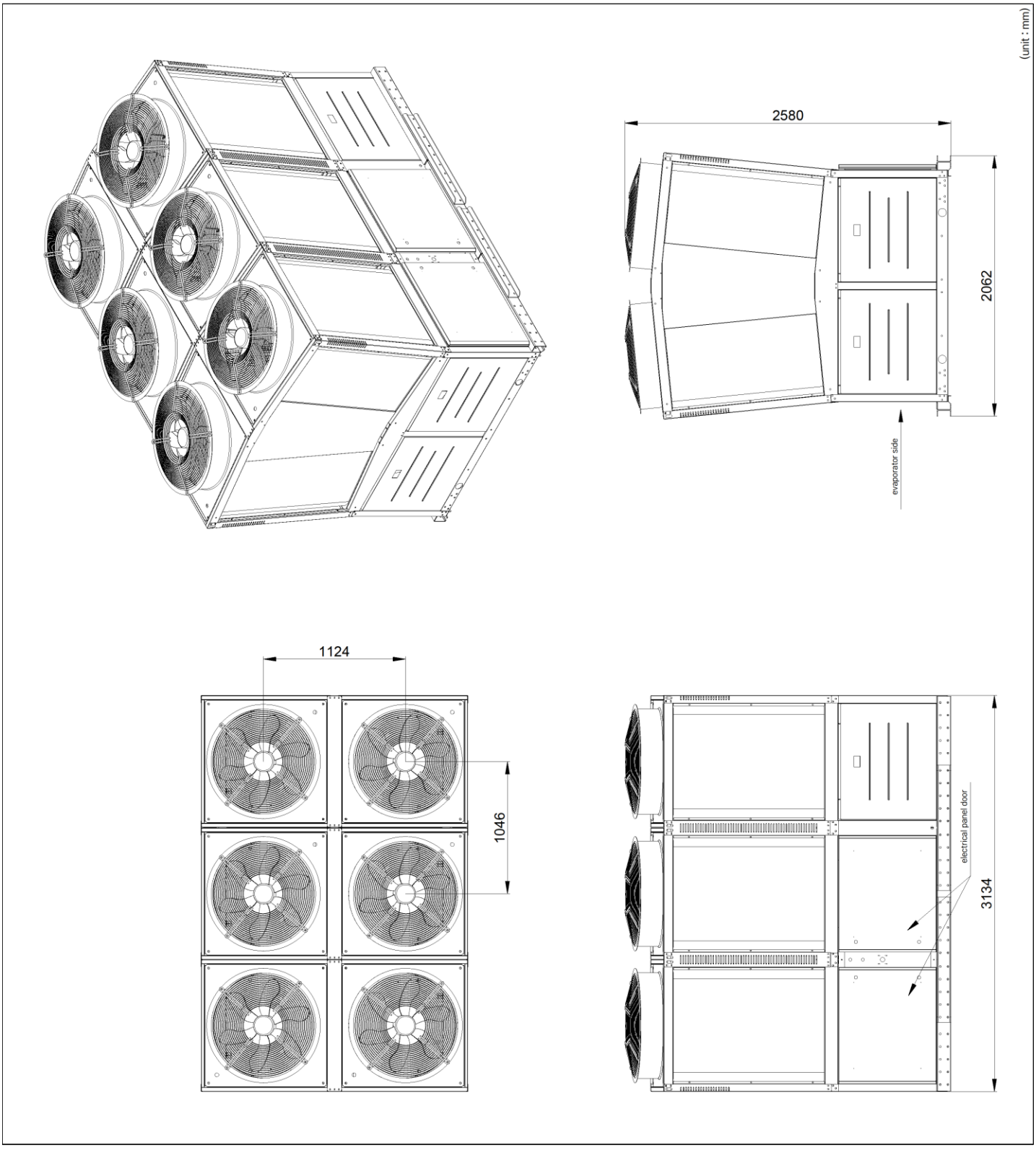

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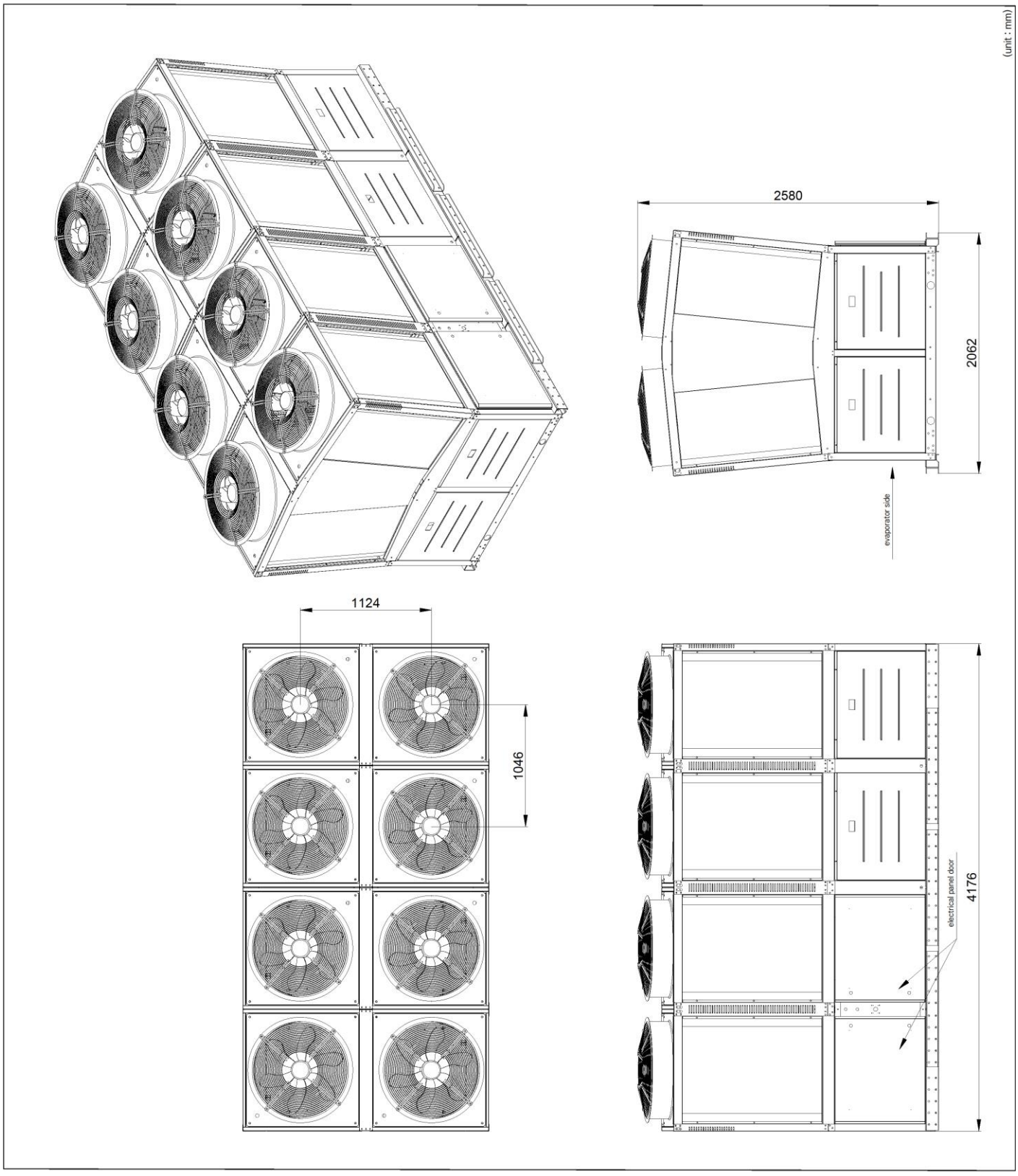
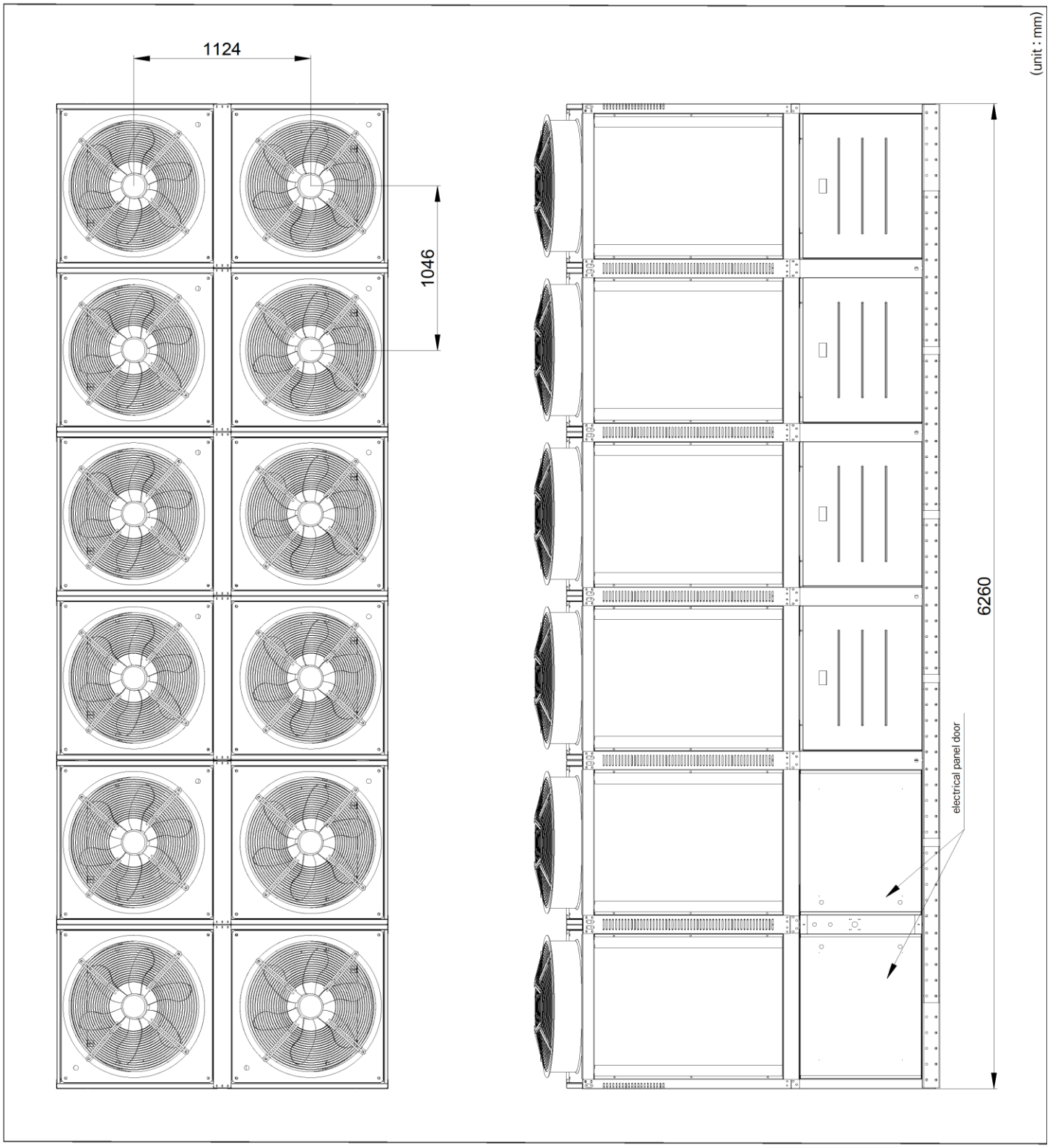


HTSE220B2SB – HTSE250B2SB (page 1 of 2)



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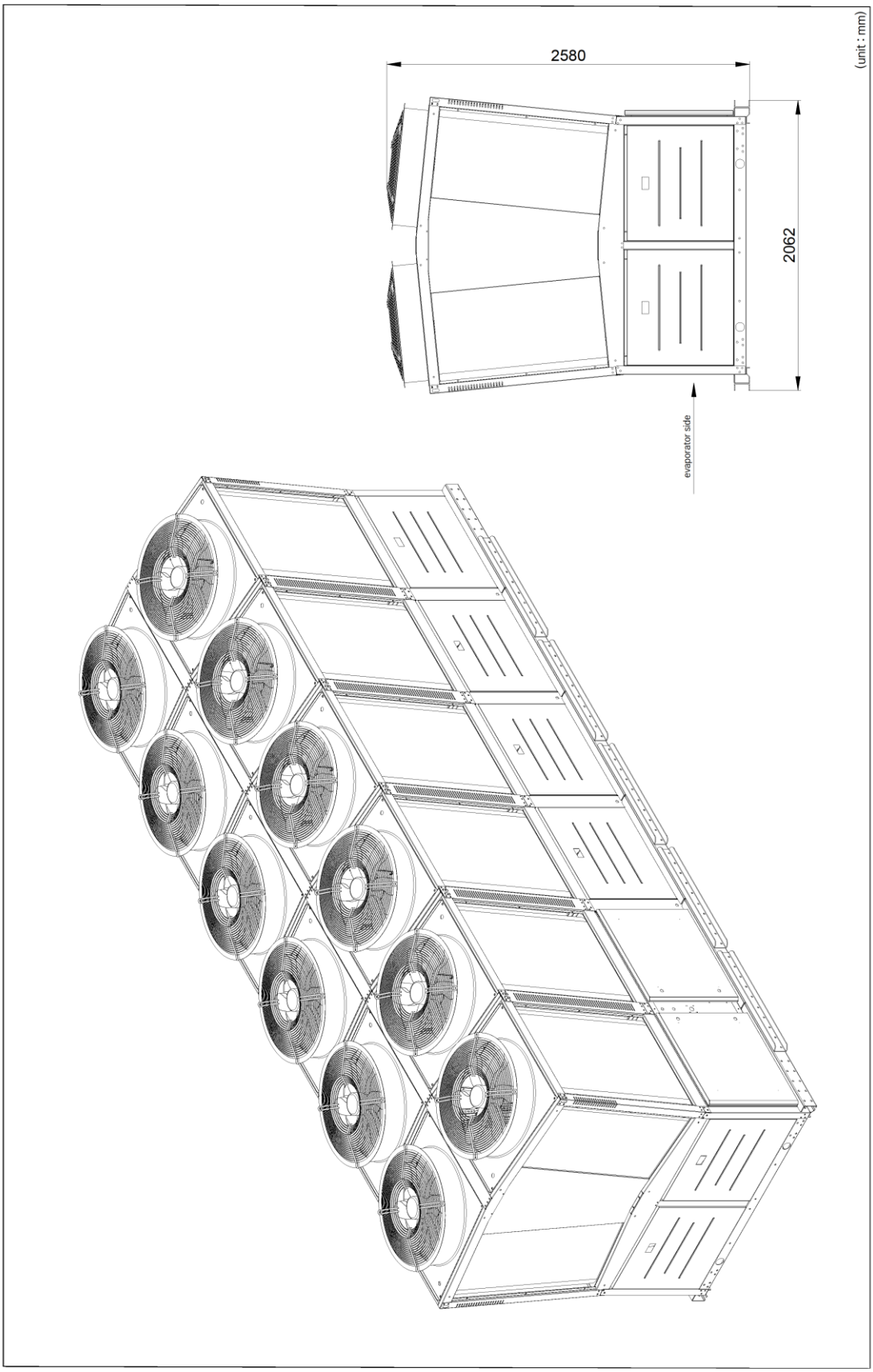
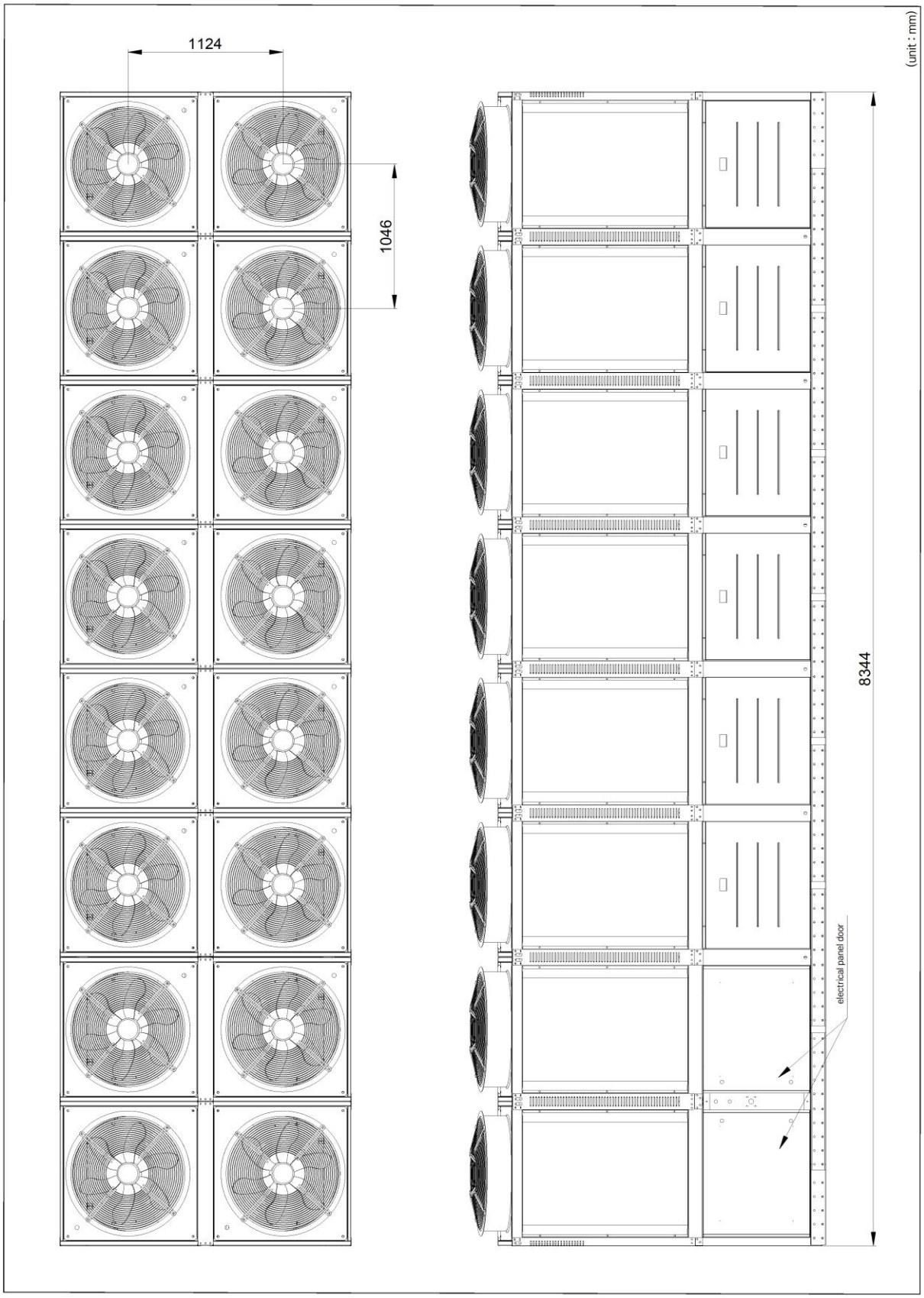
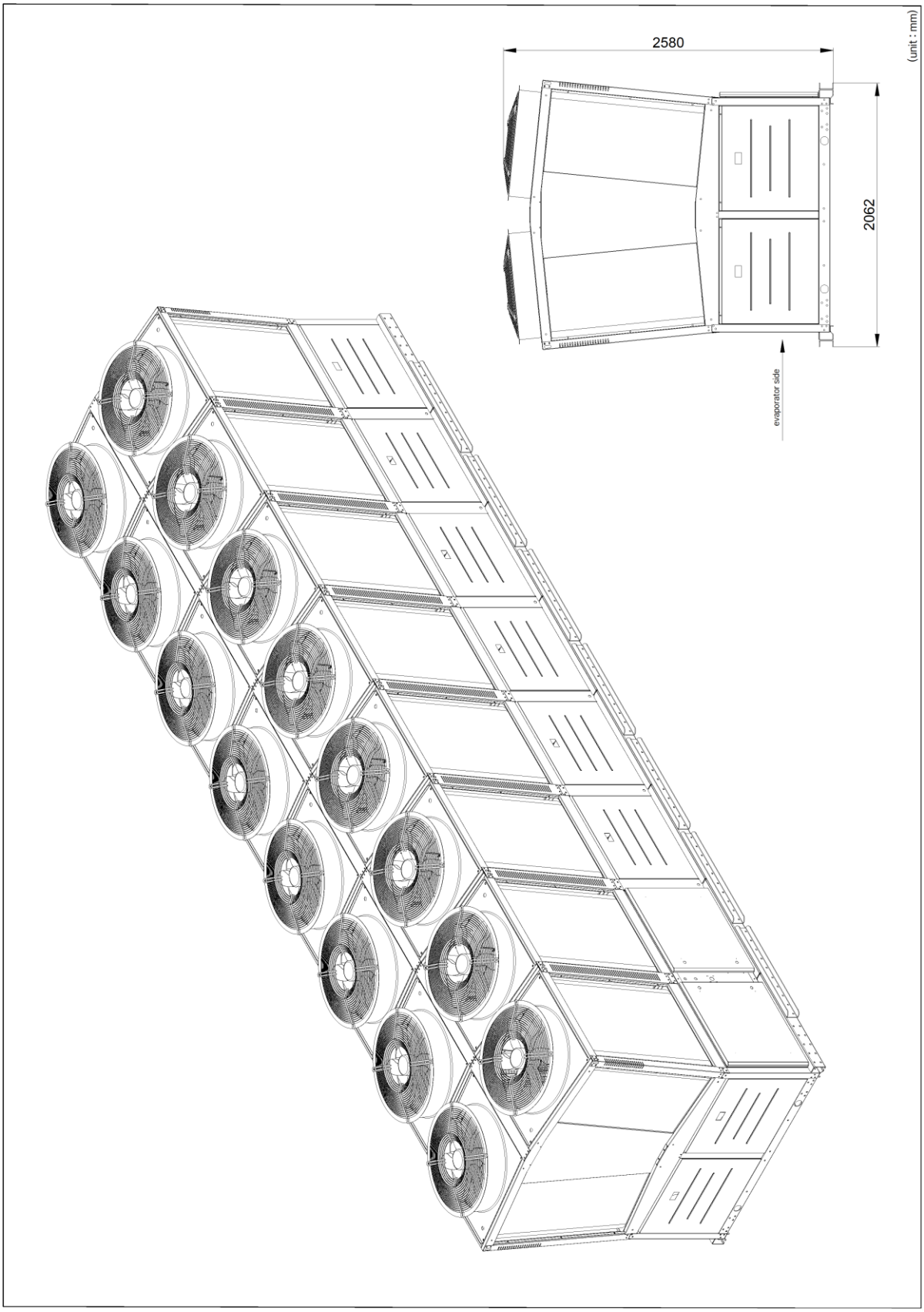


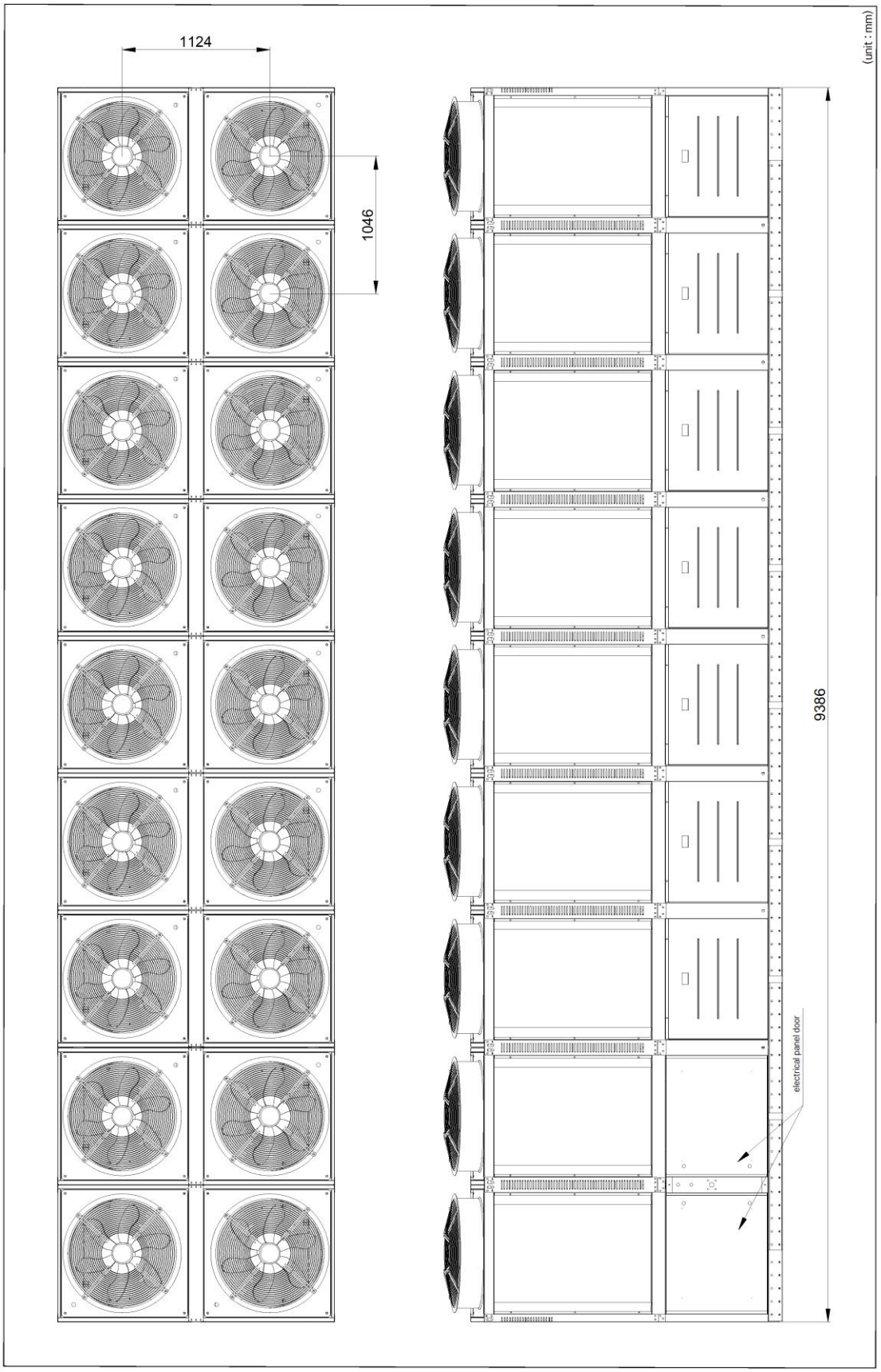
HTSE280B2SB – HTSE320B2SB (page 1 of 2)



HTSE280B2SB – HTSE320B2SB (page 2 of 2)



HTSE360B2SB (page 1 of 2)



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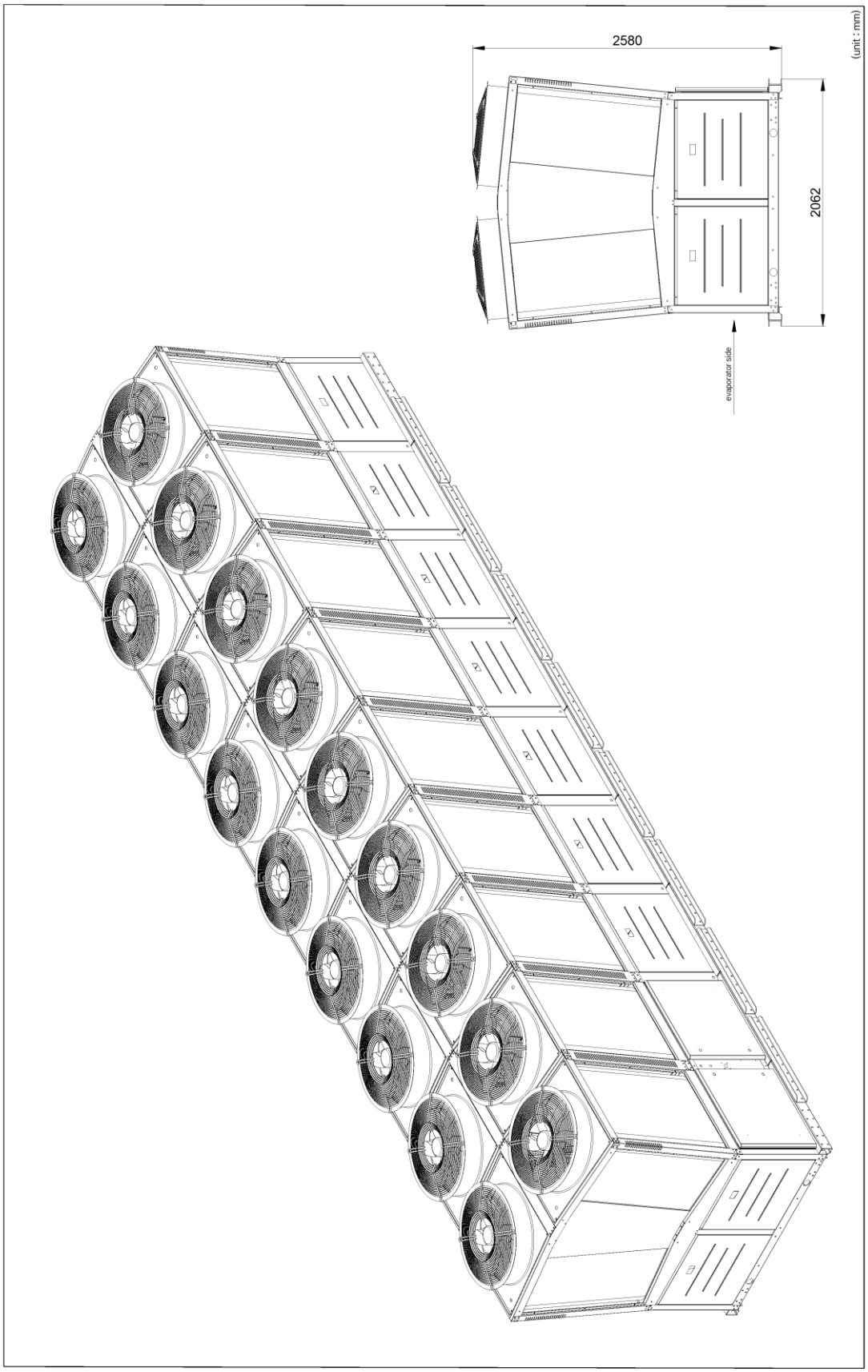

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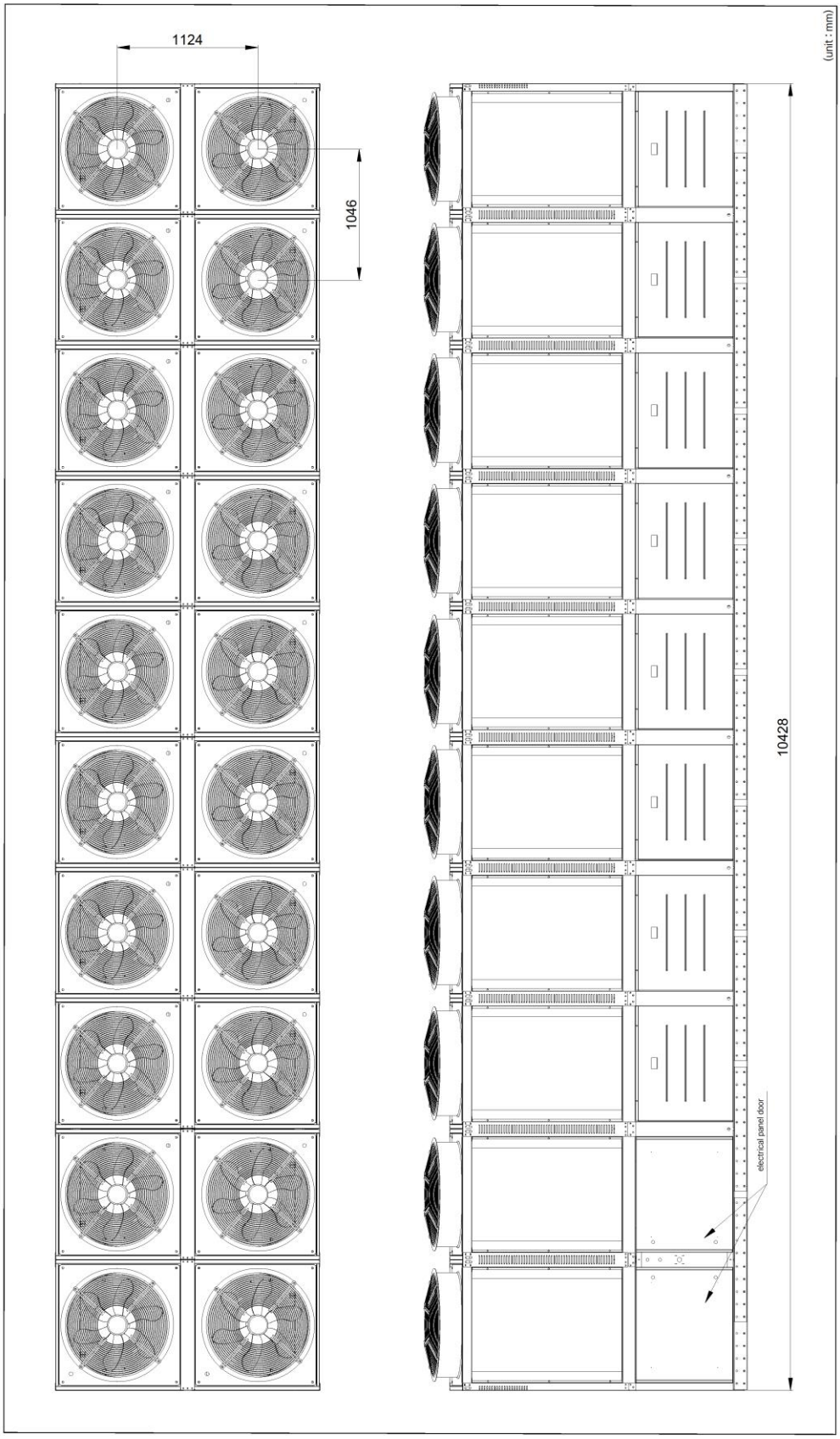

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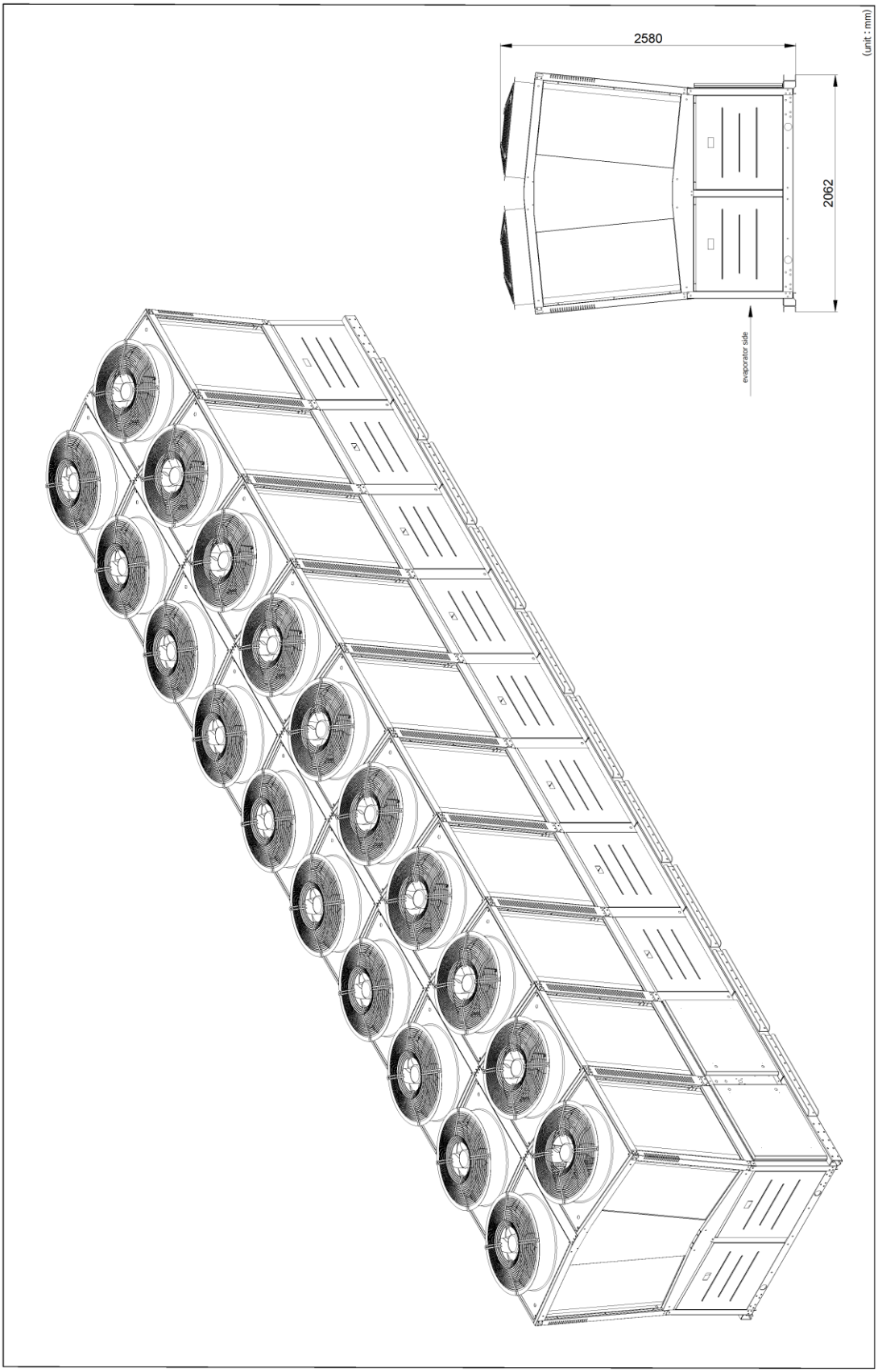

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