

DX KIT for Single System

(FUJITSU-AIRSTAGE Brand)

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01.[DX KIT-Single System] Selection Flow (Example)

1)Decide the specifications of the AHU

	AHU specification
1.Capacity	9.50KW
2.Aieflow volume	1360m ³ /h
3.Heat exchanger capacity	1668cm ³
4.Refrigerant	R32
5.Power supply	3N 400V 50Hz

2) Select Refrigerant Selection Select DX-kit (UTY-XDZX) with 3rd party AHU

Operation type
☐ R410A ☒ R32 ☐ Heat pump

Model selection
☒ Manual selection
Type DX-kit (UTY-XDZX) with 3rd party AHU

O.U. Nominal capacity_PS 2.50 (kW) 230V , 50Hz

Conditions of selection

Outdoor Model AOYG09KBTB

3)A. Select Capacity and Power supply B. The outdoor unit will be automatically selected.

Model selection
☒ Manual selection
Type DX-kit (UTY-XDZX) with 3rd party AHU

O.U. Nominal capacity_PS 9.50 (kW) 3N, 400V , 50Hz

Conditions of selection

Indoor temperature DBT

Cooling DBT

Heating DBT

Outdoor temp. DBT

Cooling DBT 35.0 C

Heating DBT 7.0 C

The temperature Because HEX vo

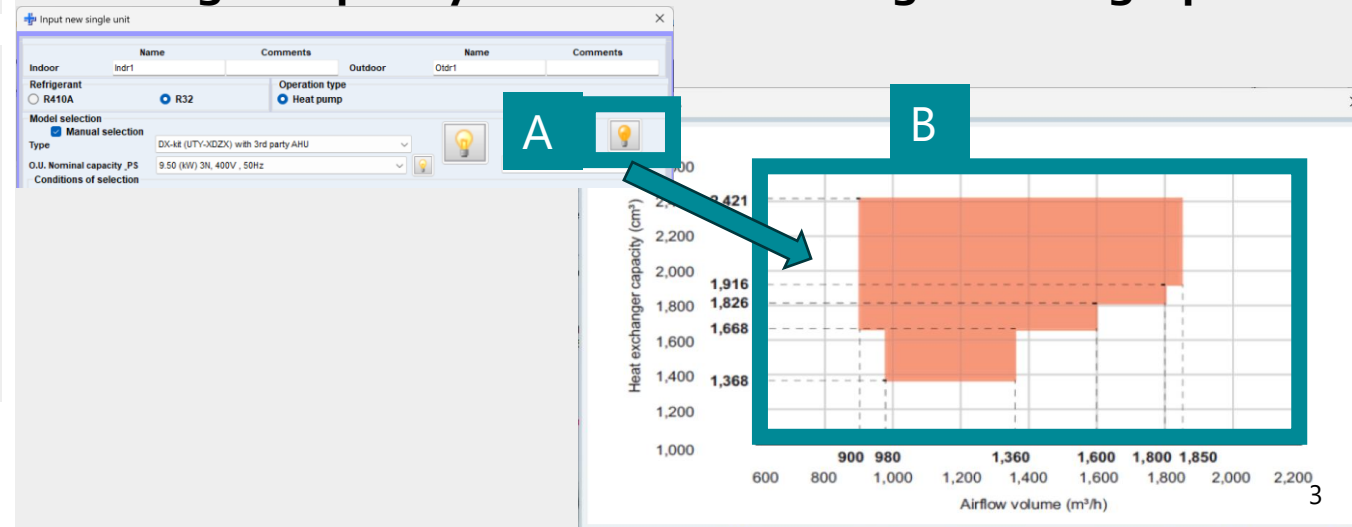
13.40 (kW) 230V , 50Hz

9.50 (kW) 3N, 400V , 50Hz

13.40 (kW) 3N, 400V , 50Hz

Outdoor Model AOYG36KRTA

4) A. Select the light bulb icon B. Check whether the AHU Airflow volume and heat exchanger capacity are within the range of the graph



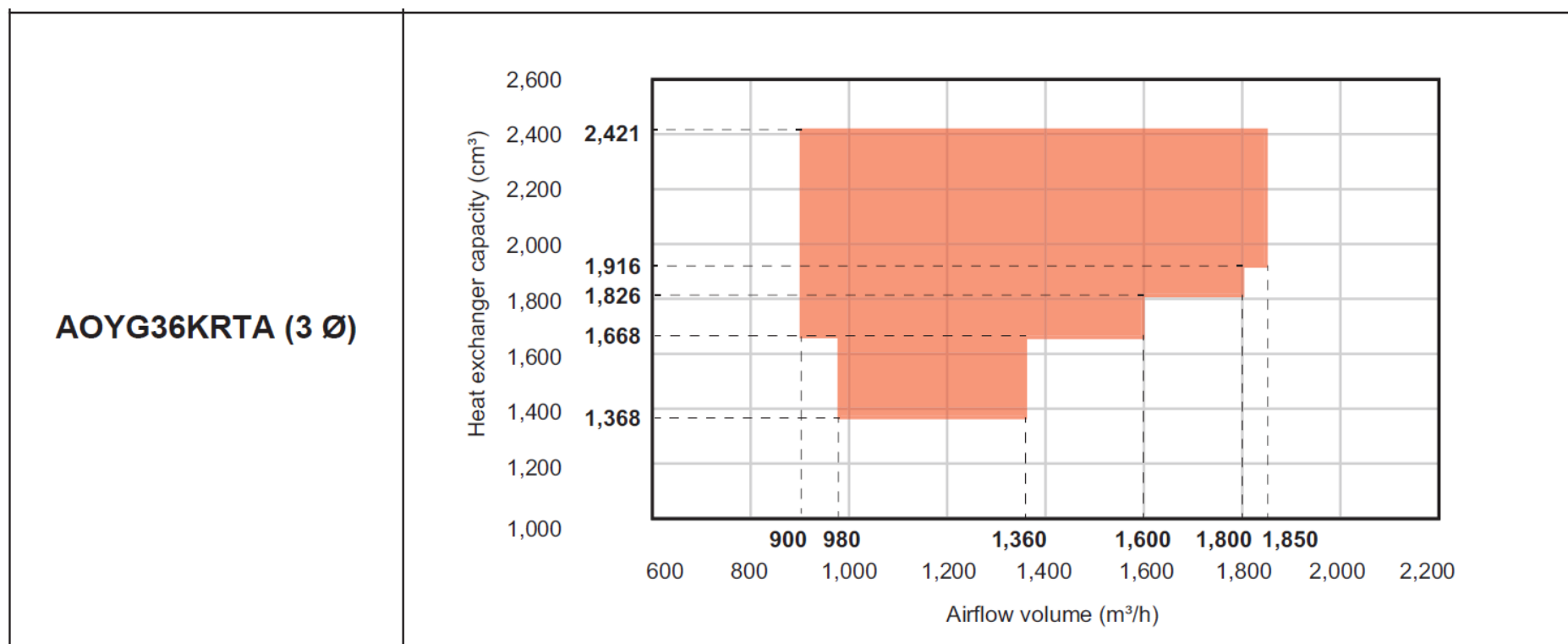
02.Applicable AHU requirement

When selecting DX KIT with DS, please check the [AHU requirement] in the graph on the DS screen or in D&T.

Applicable AHU requirement

The Air Handling Unit (AHU), which meets the requirements in the orange area of the graph for each outdoor unit, can be connected to this product.

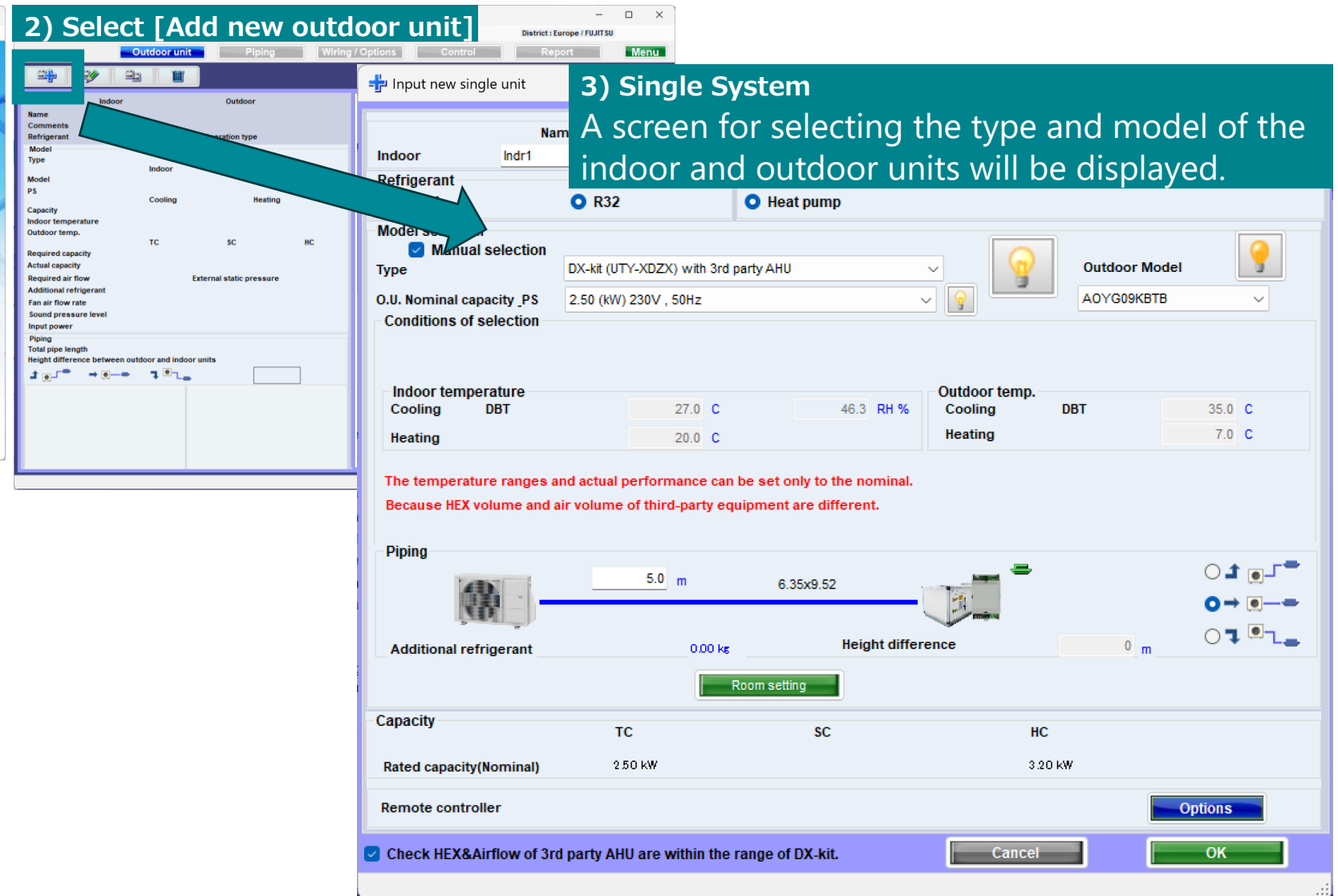
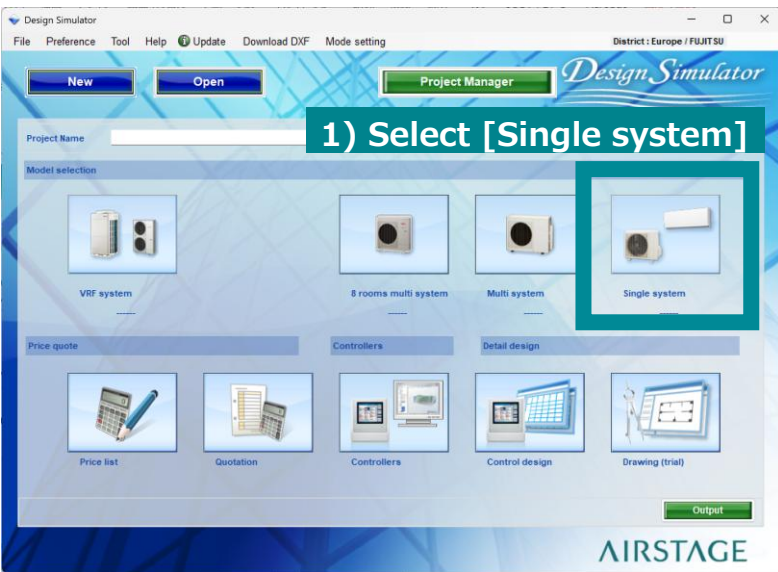
NOTE: Be sure to satisfy the system design's heat exchanger capacity and airflow requirements using another manufacturer's AHU. However, the capacities are not guaranteed.



<= Example

03.How to Select [DX KIT-Single System]

◆Display of Single System Selection Screen



03.How to Select [DX KIT-Single System]

◆ Display of Single System Selection Screen

Refrigerant : R32 Type : Select DX-kit (UTY-XDZX) with third-party AHU

1) Refrigerant: Select R32

2) Select DXKIT (UTY-XDZX)

The temperature ranges are different because HEX volume and air volume of third-party equipment are different.

Options

Cancel OK

3) DXKIT(UTY-XDZX) : Nominal capacity, Power supply is displayed

The temperature ranges and actual performance can be set only to the nominal. Because HEX volume and air volume of third-party equipment are different.

Room setting

Options

Cancel OK

03.How to Select [DX KIT-Single System]

◆ Display of Single System Selection Screen DXKIT(UTY-XDZX) : Nominal capacity, Selection of power supply

Indoor Name: Indr1 Comments: Outdoor Name: Oldr1 Comments:

Refrigerant: ☐ R410A ☒ R32 Operation type: ☒ Heat pump

Model selection: ☒ Manual selection

Type: DX-kit (UTY-XDZX) with 3rd party AHU

O.U. Nominal capacity_PS: 9.50 (kW) 3N, 400V, 50Hz

Conditions of selection:

- 2.50 (kW) 230V, 50Hz
- 3.50 (kW) 230V, 50Hz
- 4.30 (kW) 230V, 50Hz
- 5.20 (kW) 230V, 50Hz
- 6.00 (kW) 230V, 50Hz
- 6.80 (kW) 230V, 50Hz
- 8.50 (kW) 230V, 50Hz
- 9.50 (kW) 230V, 50Hz
- 12.10 (kW) 230V, 50Hz
- 13.40 (kW) 230V, 50Hz
- 9.50 (kW) 3N, 400V, 50Hz
- 12.10 (kW) 3N, 400V, 50Hz
- 13.40 (kW) 3N, 400V, 50Hz

Indoor temperature: Cooling DBT Heating

Outdoor temp.: Cooling DBT: 35.0 C Heating DBT: 7.0 C

Piping: 5.0 m

Rated capacity(Nominal): 9.50 kW 10.80 kW

Remote controller: Options

☐ Check HEX&Airflow of 3rd party AHU are within the range of DX-kit.

Cancel OK

D&T : Model Lineup

2. Model lineup



UTY-XDZX

2) The outdoor unit is selected

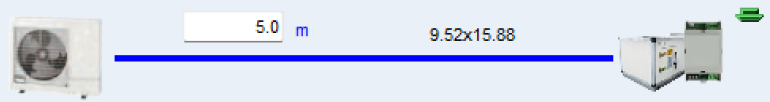
2-1. Applicable outdoor units

Model code		Model name	
kBtu/h	kW	R410A	R32
09	2.5	—	AOYG09KBTB
12	3.5	AOYG12LBLA	AOYG12KBTB
14	4.3	AOYG14LBLA	AOYG14KBTB
18	5.2	AOYG18LBCA	AOYG18KBTB
22	6.0	—	AOYG22KBTB
24	6.8	AOYG24LBCA	AOYG24KBTB
30	8.5	AOYG30LBTA	AOYG30KBTB
36	9.4	AOYG36LBTA	AOYG36KBTB
45	12.1	AOYG45LBTA	AOYG45KBTB
54	13.3	AOYG45LATT (3 Ø)	AOYG45KRTA (3 Ø)
60	15.0	AOYG54LBTA	AOYG54KBTB
60	15.0	AOYG54LATT (3 Ø)	AOYG54KRTA (3 Ø)
72	19.0	AOYG60LATT (3 Ø)	—
72	19.0	AOYG72LRLA (3 Ø)	—
90	22.0	AOYG90LRLA (3 Ø)	—

03.How to Select [DXKIT-Single System]

◆Display of Single System Selection Screen: Check the graph

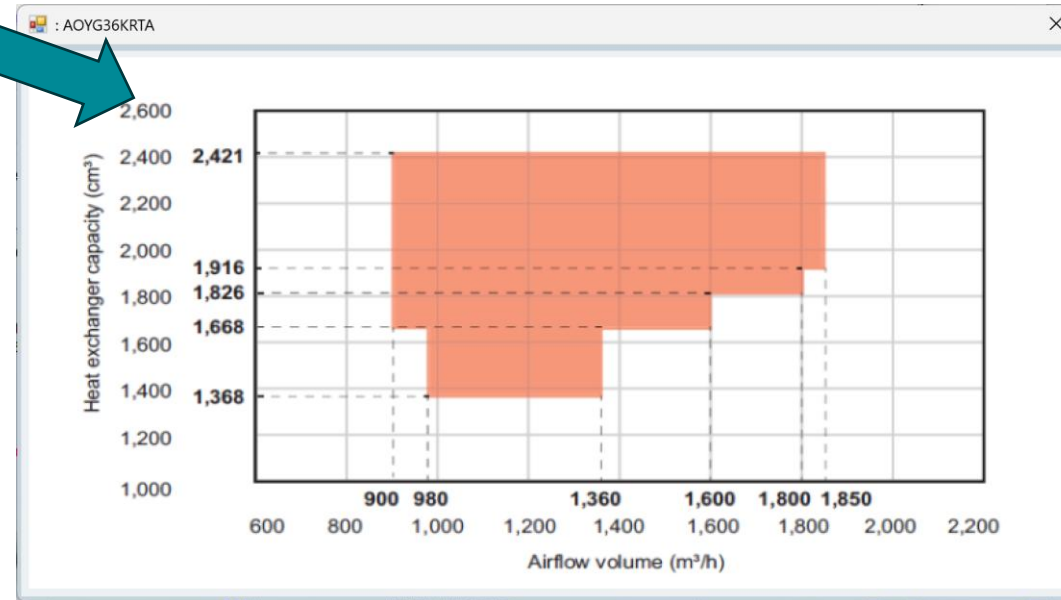
Input new single unit

Indoor		Comments		Outdoor		Comments	
Name	Indr1						
Refrigerant	☐ R410A ☒ R32	Operation type	☒ Heat pump				
Model selection							
☒ Manual selection							
Type	DX-kit (UTY-XDZX) with 3rd party AHU						
O.U. Nominal capacity_PS	9.50 (kW) 3N, 400V, 50Hz						
Conditions of selection							
Indoor temperature		Cooling DBT 27.0 C 46.3 RH %		Outdoor temp.		Cooling DBT 35.0 C	
Heating		20.0 C		Heating		7.0 C	
The temperature ranges and actual performance can be set only to the nominal. Because HEX volume and air volume of third-party equipment are different.							
Piping							
							
Additional refrigerant 0.00 kg Height difference 0 m							
Room setting							
Capacity							
TC		SC		HC			
Rated capacity(Nominal) 9.50 kW				10.80 kW			
Remote controller							
Options							
☐ Check HEX&Airflow of 3rd party AHU are within the range of DX-kit.							
Cancel OK							

- 1) Select [Light bulb icon]
- 2) The graph is displayed

Applicable AHU requirement

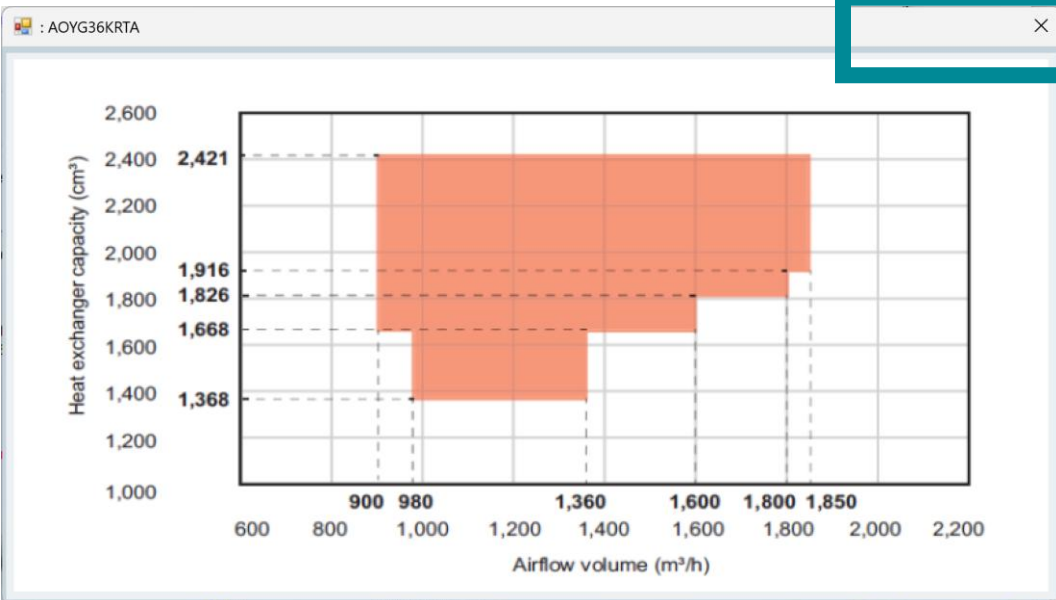
The Air Handling Unit (AHU), which meets the requirements in the orange area of the graph for each outdoor unit, can be connected to this product.



03.How to Select [DX KIT-Single System]

◆Applicable AHU requirement

1) Close the graph



◆ Display of Single System Selection Screen

Indoor		Outdoor	
Name	Comments	Name	Comments
Indr1		Otdr1	

Refrigerant
☐ R410A ☒ R32

Operation type
☒ Heat pump

Model selection
☒ Manual selection

Type
DX-kit (UTY-XDZX) with 3rd party AHU

O.U. Nominal capacity .PS
9.50 (kW) 3N, 400V, 50Hz

Conditions of selection

Indoor temperature		Outdoor temp.	
Cooling	Heating	Cooling	Heating
DBT 27.0 C	20.0 C	DBT 35.0 C	7.0 C

The temperature ranges and actual performance can be set only to the nominal.
Because HEX volume and air volume of third-party equipment are different.

Piping
5.0 m 9.52x15.88

Additional refrigerant 0.00 kg Height difference 0 m

Room setting

Capacity TC SC HC

2) Check

☐ Check HEX&&Airflow of 3rd party AHU are within the range of DX-kit

Remote controller Options

☐ Check HEX&Airflow of 3rd party AHU are within the range of DX-kit.

Cancel OK

3) Select [OK] : The DXKIT and outdoor unit have been selected.
From this point on, please operate normally according to the standard DS procedure.

03.How to Select [DX KIT-Single System]

◆Report

The graph will appear in the report. Please check the graph.

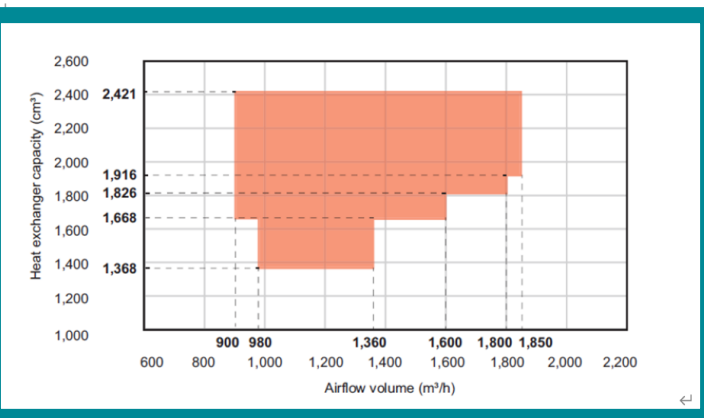
2.1. Table of abbreviations

Name	Local name of the device	HC	Available heating capacity (with defrost compensation)
Model	Device model name	Airflow	Supplied airflow at low and high fan speed
RC C	Rated cooling capacity	ESP	External static pressure
RC H	Rated heating capacity	Sound	Sound pressure low and high
Tmp C	Indoor condition in cooling (outside condition for AHU/OAU)	MCA	Minimum Circuit Amps
Rq TC	Required cooling capacity	HxWxD	Height x Width x Depth
TC	Available total cooling capacity	Weight	Weight of the device
Rq SC	Required sensible cooling capacity	Dis Tmp C	Discharge temperature at cooling
SC	Available sensible cooling capacity	Dis Tmp H	Discharge temperature at heating
Tmp H	Indoor temperature in heating (outside condition for AHU/OAU)	HE	Heat exchanger volume
Rq HC	Required heating capacity (with defrost compensation)	Rated	Rated current

2.2.Otdr1 (Single) – AOYG36KRTA

Name	Model	RC C (kW)	RC H (kW)	Tmp C (C/%)	Rq TC (kW)	TC (kW)	Rq SC (kW)	SC (kW)	Tmp H (C)	Rq HC (kW)	HC (kW)
Indr1	9.50kW Nominal	9.50	10.80	27.0/46.3					20.0		

Name	Model	Airflow (m ³ /h)	ESP (Pa)	Sound (dB(A))	Rated (A)	MCA (A)	HxWxD (mm)	Weight (kg)	HE (cm ³)	Image
Indr1	9.50kW Nominal									



※ The graph will appear in the report.

04.How to Select [DX KIT-Single System (AIRSTAGE Brand)]

◆ Display of Single System Selection Screen Select DXKIT (UTY-XDZX) AIRSTAGE brand

Input new single unit

Indoor	Name	Comments	Outdoor	Name	Comments
	Indr1			Otdr1	

Refrigerant: R410A

Operation type: []

Model selection: ☒ Manual selection

Type: DX-kit (UTY-XDZX) with 3rd party AHU

O.U. Nominal capacity_PS: 2.50 (kW) 230V, 50Hz

Conditions of selection: []

Indoor temperature: []

Outdoor temp.: []

Input new single unit

Indoor	Name	Comments	Outdoor	Name	Comments
	Indr1			Otdr1	

Refrigerant: R410A

Operation type: []

Model selection: []

Type: DX-kit (UTY-XDZX) with 3rd party AHU

O.U. Nominal capacity_PS: 2.50 (kW) 230V, 50Hz

Conditions of selection: []

Indoor temperature: Cooling DBT 27.0 C, Heating 20.0 C

Outdoor temp.: Cooling DBT 35.0 C, Heating 7.0 C

The temperature ranges and actual performance can be set only to the nominal. Because HEX volume and air volume of third-party equipment are different.

Piping: 5.0 m, 6.35x9.52, 0.00 kg, Height difference 0 m

Room setting: []

※By default, the FUJITSU brand is displayed.
When you want to select the AIRSTAGE brand, please switch the model name.

2) Check

☐ Check HEX&&Airflow of 3rd party AHU are within the range of DX-kit

☐ Check HEX&Airflow of 3rd party AHU are within the range of DX-kit.

Cancel

OK

3) Select [OK] The DXKIT and outdoor unit have been selected.
From this point on, please operate normally according to the standard DS procedure.



Creating a Life Conditioner