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e-solution version 3.9.0 outline





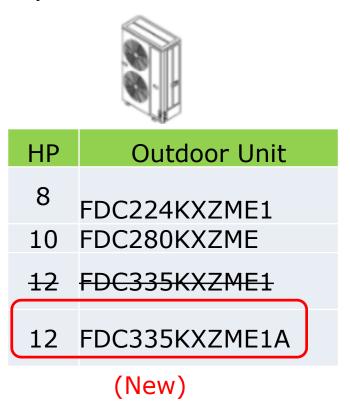
- 1. Addition of FDC335KXZME1A
- 2. Add new panels, motion sensor & wireless kit
- 3. Addition of HMU (HMU-KIT-1)
- 4. Add remote controller RC-EX3H
- 5. Print out
- 6. Fixing bugs & updates

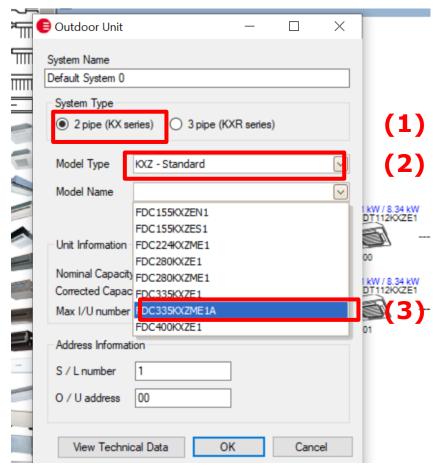


GROUP

1. Addition of FDC335KXZME1A

- Addition of FDC335KXZME1A outdoor units (2 pipe system)
- Remove FDC335KXZME1 from drop list.
- (for 50Hz & 60Hz version only)







GROUP

Address

00

1. Addition of FDC335KXZME1A

Addition note to "Print out" for FDC335KXZME1A

(1) Show (*) Heating capacity is shown as maximum heating capacity

New Project System: Default System 0 Temperature Conditions (cooling) Temperature Conditions (heating) outdoor dry bulb indoor wet bulb outdoor wet bulb indoor dry bulb 30.0°C 16.0°C 20.0°C Nominal Capacity (kW) Actual Capacity (kW) Piping Indoor Unit Actual Sensible Heating Total Sensible Heating Length Length S/L 0/U Position (m) FDC335KXZME1 33.50 37.50 FDT112KXZE1 11.20 12.50 12.50 9.36 Below FDT112KXZE1

12.50

8.34

16.68

12.50

(1)

11.20

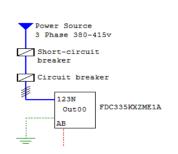
9.36

(2) Show (*) Running

current,

Power factor, Input for outdoor units are shown when

nominal capacity is achieved.



(*) Heating capacity is shown as maximum heating capacity

Outdoor Unit	380v	415v
Running Current (A)	17.80/14.40	16.30/13.20
Power (%)	91/91	91/91
Inrush Current (A)	5.	.00
Max Current (A)	-	13
Input (kW)	10.68	3/8.44
Indoor Units (Cool/Heat)	220v	240v
Total Input (kW)	0.28/0.28	0.28/0.28
Total Running Current (A)	2 24/2 24	2.04/2 04

2. Add new panels, motion sensor & wireless kit



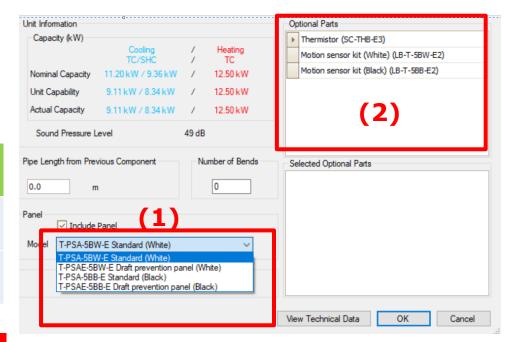
FDT-KXZE1

(1) ADD panels for all FDT-KXZE1 (for 50Hz & 60Hz version only)

FDT-KXZE1 on	ly (all models)		
FDT-KXZE1	Current Panel	new panel	
Replace	T-PSA-5AW-E	T-PSA-5BW-E	Standard (white)
Replace	T-PSAE-5AW-E	T-PSAE-5BW-E	Draft prevention panel (white)
Add	-	T-PSA-5BB-E	Standard (Black)
Add	-	T-PSAE-5BB-E	Draft prevention panel (Black)

(2) ADD motion sensor (option) for all FDT-KXZE1 (for 50Hz & 60Hz version only)

	Current	New Motion sensor
Replace	LB-T-5AW- E2	LB-T-5BW-E2 (White)
Add	-	LB-T-5BB-E2 (Black)





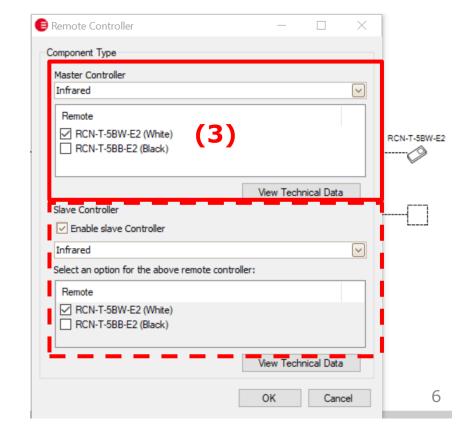
FDT-KXZE1

(3) ADD new wireless kit for all FDT-KXZE1 (for 50Hz & 60Hz version only)

Wireless kit		
FDT-KXZE1 only (all mod	els)	
FDT	Wireless kit	new model
Replace	RCN-T-5AW-E2	RCN-T-5BW-E2(White)
Add	-	RCN-T-5BB-E2(Black)

Note:

-Please select correct colour for wireless kit to suit your pre selectin of panel. As selection will not be done automatically.
-(for wireless) Slave wireless kit selection will copy selection of master controller.





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FDTC-KXZE1

(1) ADD new panels (with Grid) for all FDTC-KXZE1 in addition to current (for 50Hz & 60Hz version only)

FDTC-KXZE1 or	nly (all models)		
FDTC-KXZE1		New panel	
Add		TC-PSAG-5AW-E	Standard (Grid Panel)
Add		TC-PSAGE-5AW-E	Draft prevention panel (Grid Panel)

				50	ound Pressure Level	32 GB
Model Type	Ceiling Cassette -4w	vay Compact-		~		
Model Name	FDTC22KXZE1		0	Pipe I	Length from Previous Component	Number of Bends
Fan Speed		Ultra High		0.0	m	0
Indoor Unit F	Position /U Below O/U	0.0	m	Panel	✓ Include Panel TC-PSA-5AW-E Standard	V
Address Info	mation				TC-PSA-5AW-E Standard TC-PSAE-5AW-E Draft prever TC-PSAG-5AW-E Standard (0	
S / L numbe	er: 1		O / U address:	0	TC-PSAGE-5AW-E Draft prev	

(1)



FDTC-KXZE1

(2) ADD new wireless kit for all FDTC-KXZE1 (for 50Hz & 60Hz version only)

Wireless kit		
FDTC-KXZE1	Wireless kit	new model
Replace	RCN-TC-5AW-E2	RCN-TC-5AW-E3



2. Add new panels, motion sensor & wireless kit



- Addition of Motion sensor to Indoor units details/optional parts
- Addition of Motion sensor to Indoor units to models below

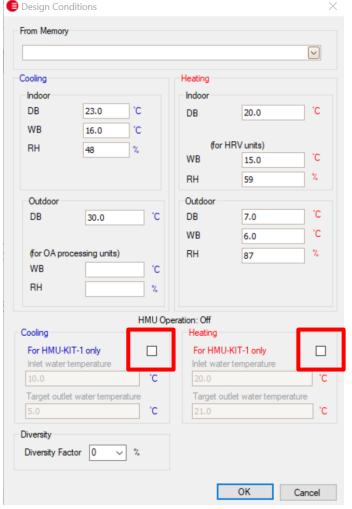
Options	Motion sensor kit
FDUT15KXE6F-E	-
FDUT22KXE6F-E	-
FDUT28KXE6F-E	1
FDUT36KXE6F-E	-
FDUT45KXE6F-E	-
FDUT56KXE6F-E	-
FDUT71KXE6F-E	LB-KIT2
FDUM22KXE6F	LB-KIT2
FDUM28KXE6F	LB-KIT2
FDUM36KXE6F	LB-KIT2
FDUM45KXE6F	LB-KIT2
FDUM56KXE6F	LB-KIT2
FDUM71KXE6F	LB-KIT2
FDUM90KXE6F	LB-KIT2
FDUM112KXE6F	LB-KIT2
FDUM140KXE6F	LB-KIT2
FDUM160KXE6F	LB-KIT2

FDU45KXE6F	LB-KIT2
FDU56KXE6F	LB-KIT2
FDU71KXE6F	LB-KIT2
FDU90KXE6F	LB-KIT2
FDU112KXE6F	LB-KIT2
FDU140KXE6F	LB-KIT2
FDU160KXE6F	LB-KIT2
FDU224KXZE1	LB-KIT2
FDU280KXZE1	LB-KIT2
FDK15KXZE1	LB-KIT2
FDK22KXZE1	LB-KIT2
FDK28KXZE1	LB-KIT2
FDK36KXZE1	LB-KIT2
FDK45KXZE1	LB-KIT2
FDK56KXZE1	LB-KIT2
FDK71KXZE1	LB-KIT2

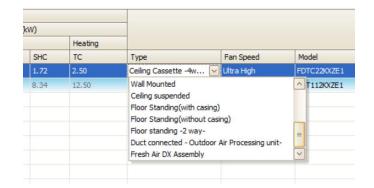
Options	Motion sensor kit
FDT28KXZE1	(White) LB-T-5BW-E2 (Black) LB-T-5BB-E2
FDT36KXZE1	(White) LB-T-5BW-E2 (Black) LB-T-5BB-E2
FDT45KXZE1	(White) LB-T-5BW-E2 (Black) LB-T-5BB-E2
FDT56KXZE1	(White) LB-T-5BW-E2 (Black) LB-T-5BB-E2
FDT71KXZE1	(White) LB-T-5BW-E2 (Black) LB-T-5BB-E2
FDT90KXZE1	(White) LB-T-5BW-E2 (Black) LB-T-5BB-E2
FDT112KXZE1	(White) LB-T-5BW-E2 (Black) LB-T-5BB-E2
FDT140KXZE1	(White) LB-T-5BW-E2 (Black) LB-T-5BB-E2
FDT160KXZE1	(White) LB-T-5BW-E2 (Black) LB-T-5BB-E2

Note:

If HMU operation is not selected, HMU will be hidden and can not be selected from Indoor unit list or schematic.

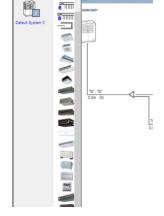


HMU hidden from IU list as HMU operation is not selected (design condition window)



HMU hidden from Schematic as HMU operation is not selected (design condition

window)



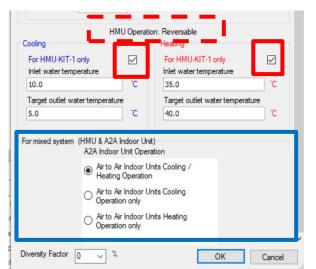
- Addition of HMU (HMU-KIT-1) to the list of indoor Unit
- (for 50Hz & 60Hz version only)

(HMU-KIT-1)	
Control box	HMU-KIT
Expansion valve set (14.0 kW)	EEV6-160-E/A
Expansion valve set (28.0 kW)	EEV6-280-E/A

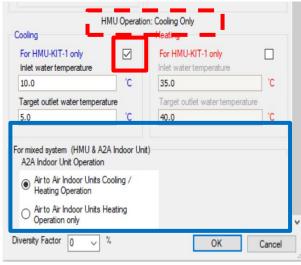


(1) Select HMU operation mode from design condition window:

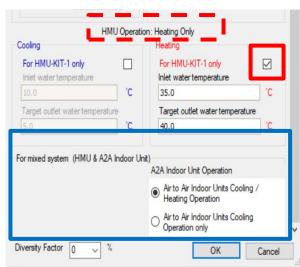
Reversible



Cooling only



Heating only



(2) For mixed system A2A & HMU indoor in the system:

You can select A2A indoor unit operation.

Example:

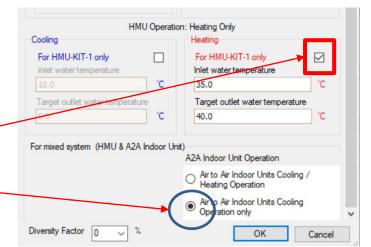
Mix HMU & A2A system, end user required HMU Heating only in the winter & A2A indoor units only in the summer.

HMU operation: Heating operation

A2A indoor unit operation: Cooling only operation



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Design condition window:

The limitation for inlet water temp. & Target water temp. in design condition is for System with HMU only for cooling and heating.

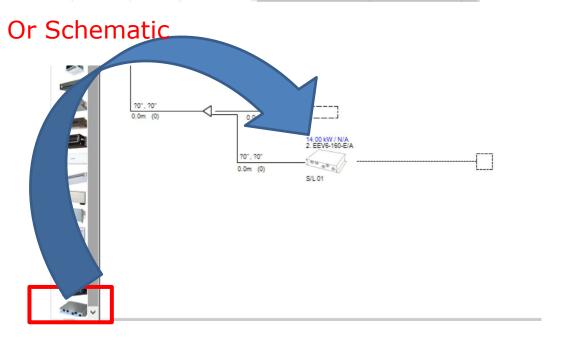
ļ			M	ix	HI	MU only	opera	tion
	Unit	Min		max	М	in	max	
Cooling:(F	REC_H)							
Inlet watei	°C		19	2	24	10		30
Target out	°C		14	1	.9	5		25
			М	ix	HI	MU only	opera	tion
		Min		max	М	in	max	
Heating:(REC_H)							
Inlet water	°C		20	3	35	20		50
Target out	°C		21	4	10	21		55

If Mixed system(MHU & Air to air IU) been selected cautions will be shown to alert user to update the design condition window. It need to be **Re-done manually** if it is not with limitation.



(1) Possible to Select HMU from indoor unit list:

Heating	Capability (kW)					
	Cooling		Heating			
TC	TC	SHC	TC	Туре	Fan Speed	Model
	1.79	1.72	2.50	Ceiling Cassette -4w 🔽	Ultra High	FDTC22KXZE1
	14.00	N/A	14.00	Ceiling suspended Floor Standing(with casing) Floor Standing(without casing)		^V6-160-E/A
				HMU-KIT-1		
				Fresh Air DX Assembly	-	





Optional Parts

3. Addition of HMU (HMU-KIT-1)

(2) Selection of HMU (HMU-KIT-1) from IU window:

for Unit Details

I/U Number: 2

Room Name

Cooling

(1)

Model type: HMU-Kit-1

(2)

Model Name: EEV6-160-E/A

EEV6-280-E/A

(3)

Water Flow - input by user

Note:

This value have no impact on Calculation in e-solution.

Water circuit design is installers responsibility.

Heating 30.0 Inlet water temperature 30.0 13.95349 -13.95349	C,	Unit Capability Actual Capacity	14.00 kW /-	/ 14.00 kW / 14.00 kW		
Model Type HMU-KIT-1	[V]	Sound Pressure Lev	rel)	0 dB		
Model Name EEV6-160-E/A	<u> </u>	Pipe Length from Previo	'	Number of Bends	Selected Optional Parts	
Control Box HMU-K11	V		2)	0		
Water Flow Rate 40.00	L/m	Panel	3)			
Indoor Unit Position Above O/U Below O/U 0.0	m	Model	inei 🥒	v		
Address Information						
S / L number: 1	O / U address: 0	I/U addres	s 1			
					View Technical Data OK	Ca

Cooling

Unit Information

Capacity (kW)

Note 1:

In this software e-solution V3.9.0

HMU heating capacity is treated as nominal capacity regardless of water flow rate & target outlet water temperature.

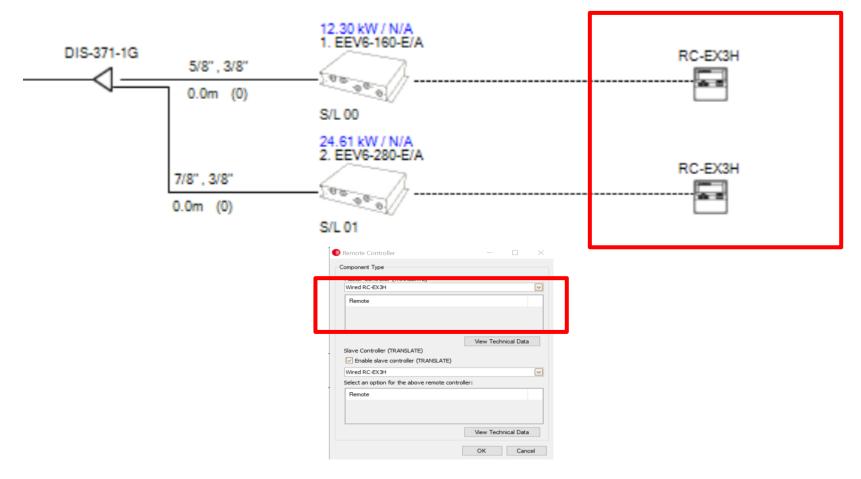
Note 2:

Please enter HMU required capacity to Indoor unit list
So cation will be shown in case total actual indoor door unit capacity
cooling/heating is bigger than actual outdoor unit capacity so bigger size
outdoor units to be re-selected to cover the required capacity.



4. Add remote controller RC-EX3H

- Addition of Wired controller RC-EX3H
- (Connected to HMU only)



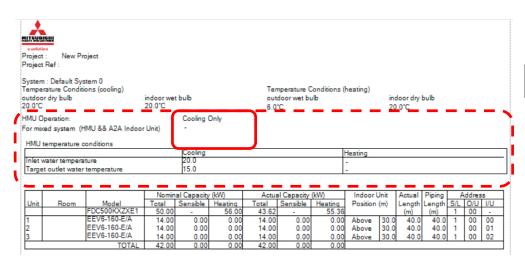


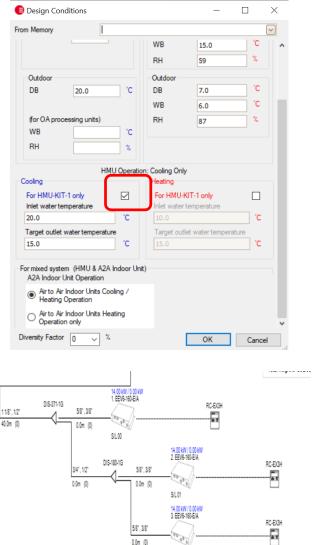
5. Print out:

A. HMU operation & A2A indoor unit operation selected in design condition view in print out

Example1:

Both will be shown in print out depend on Selection.





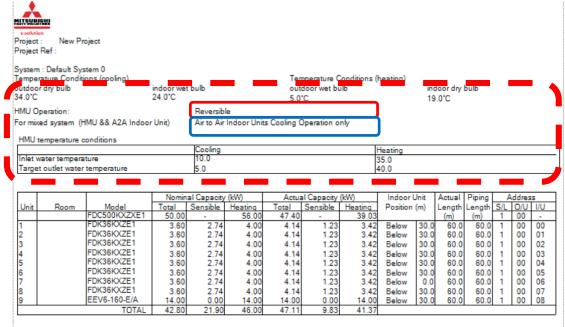
S/L 02

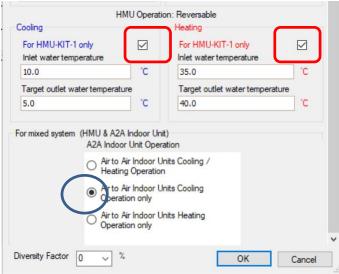
5. Print out:

B. HMU operation & A2A indoor unit operation selected in design condition view in print out

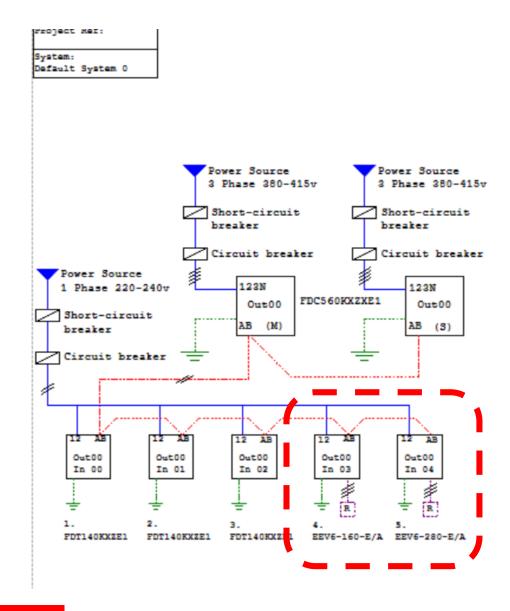
Example2:

Both will be shown in print out depend on Selection.





C. Add HMU to wiring



6. Fixing bugs & update:

Fixing bug existed V3.8.1

Recently we experienced an error that Automatic update is not possible as was unable to contact the update server after V3.8.1 release.

This was due to reasons below:

The software used to develop E-solution contains expired server security update code in the latest update version release V3.8.1. (Automatic update is not possible)

- Release manual update V3.8.1 to V3.9.0 (Refer to file [Guidance] e-solution manual update from V3.8.1 to V3.9.0-R1
 Error (Automatic update is not possible) will be fixed.
- Release full installers V3.9.0 version.(Refer to file [Guidance]
 MHIAE website] e-solution full installer ver3.9.0)
 Error (Automatic update is not possible) will be fixed.



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Thank you

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