CONFIDENTIAL

e-solution version 4.0 outline



Created by Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd.

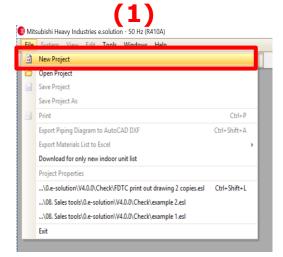




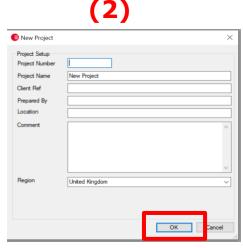
- 1. Update layout for R32 models selection
- 2. Addition of FDC-KXZEN1-W & FDC-KXZES1-W outdoor units (R32)
- 3. Addition of R32 indoor units
- 4. Addition of R32 minimum floor installation area
- 5. Update Logo
- 6. Bugs

1. Update layout for R32 models selection

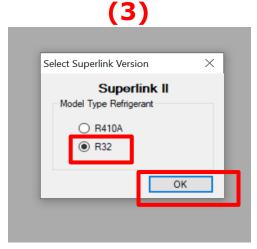
Update layout for R32 models selection



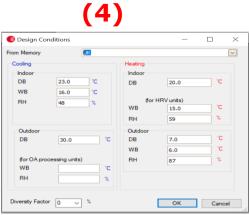
Select file/new project



Input new project info. Click ok

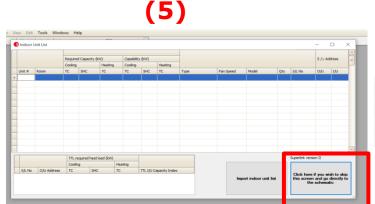


Select R32, Click ok





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You can input IU list or click to skip to schematic

System Type

Please select the system type

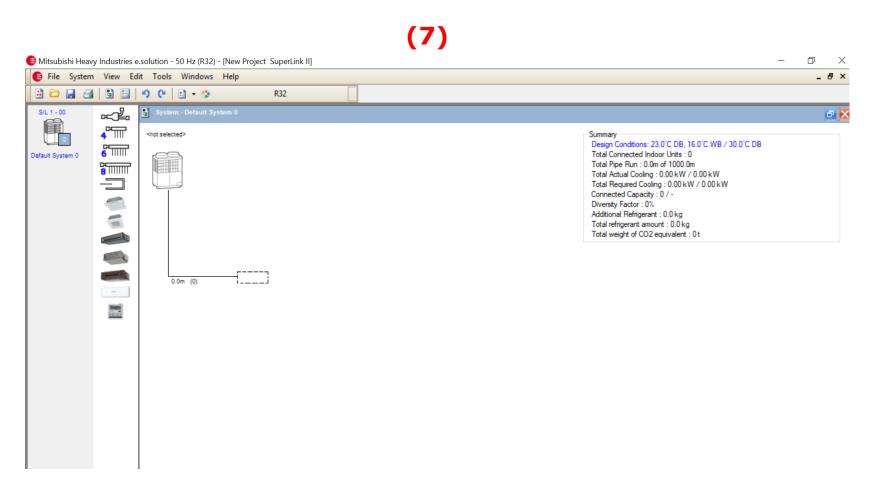
2 pipe (KX series)

3 pipe (IOXR series)

(6)

Select two pipe system

1. Update layout for R32 models selection



Schematic screen is possible to select indoor units R32 & outdoor unit R32 only.

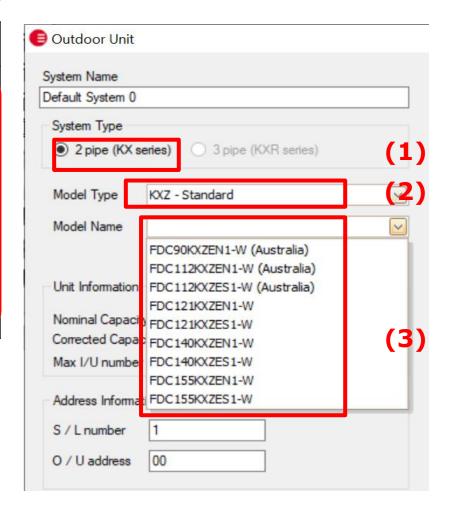


2. Addition of FDC-KXZEN1/ES1-W

 Addition of FDC-KXZEN1-W & FDC-KXZES1-W outdoor units (R32) (for 50Hz & 60Hz version only)

Model	
FDC90KXZEN1-W	Australia Only
FDC112KXZEN1-W	Australia Only
FDC112KXZES1-W	Australia Only
FDC121KXZEN1-W	
FDC121KXZES1-W	
FDC140KXZEN1-W	
FDC140KXZES1-W	
FDC155KXZEN1-W	
FDC155KXZES1-W	

(New)



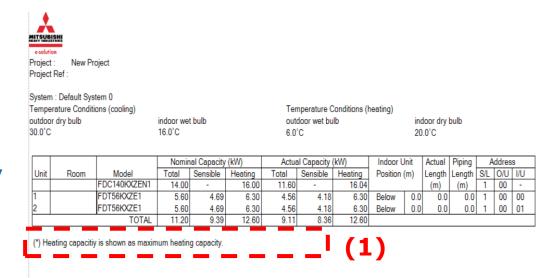
2. Addition of FDC-KXZEN1/ES1-W

Addition note to "Print out" for FDC-KXZEN1-W & FDC-KXZES1-W

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

(2) Show (*) Running

(2) Show (*) Running current, Power factor, Input for outdoor units are shown when nominal capacity is achieved.



Outdoor Unit	220v	240v
Running Current (A)	19.60/18.30	17.90/16.80
Power (%)	92/91	92/91
Inrush Current (A)	5.00	
Max Current (A)	28	
Input (kW)	3.96/3.66	

Indoor Units (Cool/Heat)	220v	240v
Total Input (kW)	0.08/0.08	0.08/0.08
Total Running Current (A)	0 72/0 72	0.66/0.66

Electrical schematic diagrams are for guidance only

Electrical installations must comply with statutory regulations.

(*) Runnning current, Power factor, Input for outdoor units are shown when nominal capacity is achieved

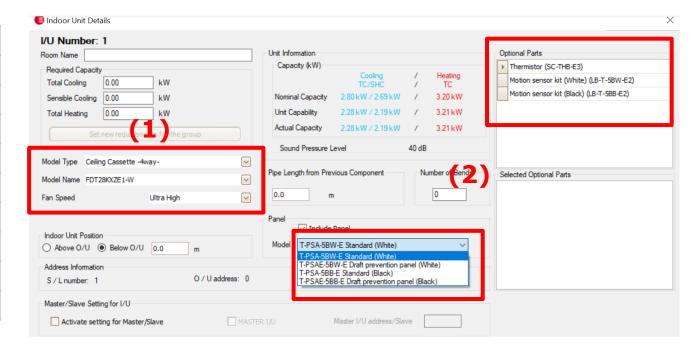
(2)



FDT_KXZE1-W

- (1) The following R32 indoor units been added to (for 50Hz & 60Hz version only)
- (2) FDT_KXZE1-W optional parts & Panels added.

Model
FDT28KXZE1-W
FDT36KXZE1-W
FDT45KXZE1-W
FDT56KXZE1-W
FDT71KXZE1-W
FDT90KXZE1-W
FDT112KXZE1-W
FDT140KXZE1-W
FDT160KXZE1-W



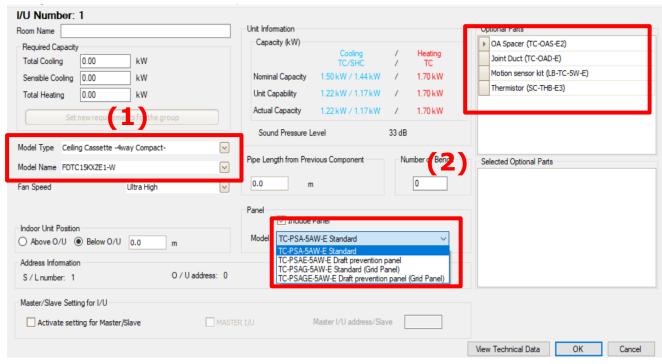




FDTC_KXZE1-W

- (1) The following R32 indoor units been added to (for 50Hz & 60Hz version only)
- (2) FDTC_KXZE1-W optional parts & Panels added.



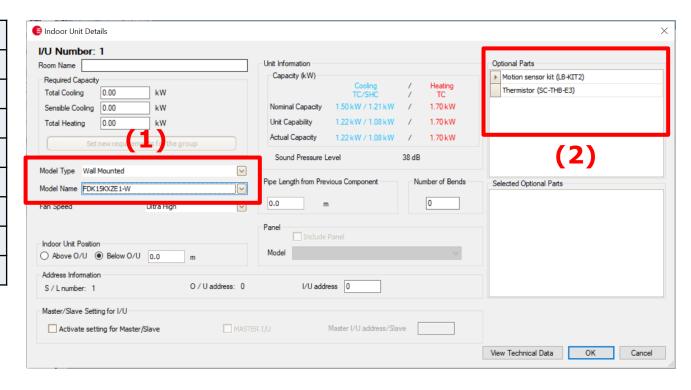




FDK_KXZE1-W

- (1) The following R32 indoor units been added to (for 50Hz & 60Hz version only)
- (2) FDK_KXZE1-W optional parts.

Model
FDK15KXZE1-W
FDK22KXZE1-W
FDK28KXZE1-W
FDK36KXZE1-W
FDK45KXZE1-W
FDK56KXZE1-W
FDK71KXZE1-W
FDK90KXZE1-W

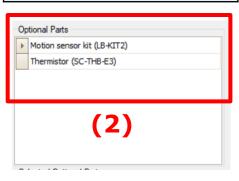




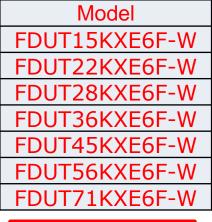
R32 Ducted Units

- (1) The following R32 indoor units been added to (for 50Hz & 60Hz version only) FDU_KXE6F-W, FDUM_KXE6F-W & FDUT15KXE6F-W
- (2) With optional parts.

Model
FDU45KXE6F-W
FDU56KXE6F-W
FDU71KXE6F-W
FDU90KXE6F-W
FDU112KXE6F-W
FDU140KXE6F-W
FDU160KXE6F-W









4. Addition of R32 minimum installation area

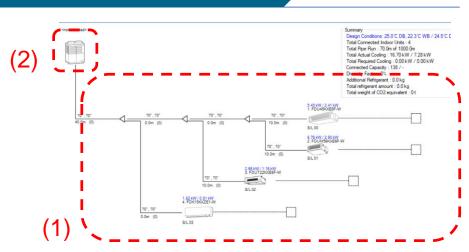
- For <u>Europe only</u>, when a flammable refrigerant is used in a refrigerating system, safety checks and a proper risk assessment should be performed to minimise any risk of ignition. Depending on the total refrigerant charge of the refrigerating system, indoor unit(s) must complies with minimum installation floor area requirements. The following standards are used to calculate the minimum installation floor area for MHI refrigerating systems:
 - The specific product family standard IEC 60335-2-40 Ed 6.0 is applied for flammability assessment
 - The horizontal and generic standard EN 378-1:2016 is applied for toxicity assessment
- In addition, to further reduce the minimum installation floor area, the following appropriate safety measures can be used, in conjunction with a refrigerant detection system:
 - Ventilation (natural or mechanical)
 - Safety shut-off valves
 - Safety alarm

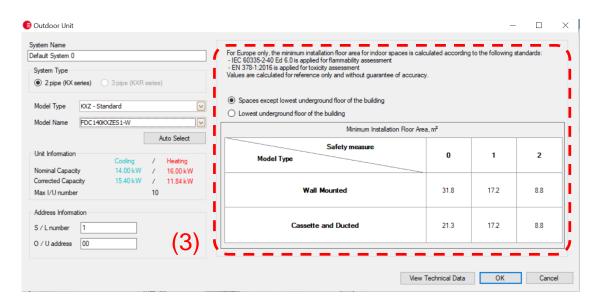
Notes:

- (1) Minimum installation floor areas are calculated based on the following conditions:
 - room height = 2.2 m
 - wall mounted installed height = 1.8 m
 - ceiling mounted (ducted/cassette) installed height = 2.2 m
- (2) If there are 2 different model types in the same room, consider the lowest installed height in the calculation.
- (3) Minimum installation areas are calculated for reference only and without guarantee of accuracy.



- (1) Select indoor units, input piping, etc.
- (2) Click on outdoor unit and select a model
- (3) Minimum installation floor area information is displayed and lowest underground floor option can be selected.





Note:

For the same model type, it may happen that value of minimum installation floor area is the same between 0 and 1 safety measure. In this case, we recommend to consider the case with 0 safety measure.

4. Addition of R32 minimum installation area

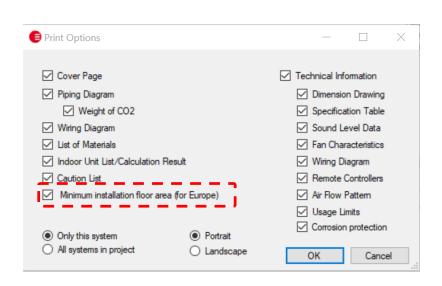


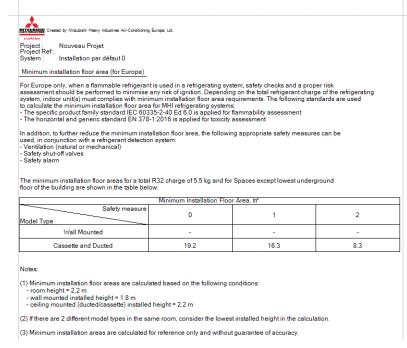


(1) When checking the system, a caution shows that a minimum floor area has been taken into account (for Europe only)

Check System [For Europe only] The total charge of R32 refrigerant is 5.5 kg and a minimum installation floor area for indoor spaces must be taken into account

(2) Print out: minimum installation floor area information is selected as default and can be unticked to not be displayed.





5. Update Logo

Logo update

(1) Additional text to Logo (when e-solution start)



(2) Additional text to Logo (In print out)



6. Bugs

- 1. (Fixed)Design conditions cannot be saved.
- 2. (Fixed) In case of multi OU, La and Lb are reversed between canvas, OU window and print out.
- 3. (Fixed)FDC280KXZXE1 dimension technical file.
- 4. (Fixed)FDC1000KXZE1, FDC1000KXZXE1, FDCB1000KXZE1 (non European) gas pipe size.



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