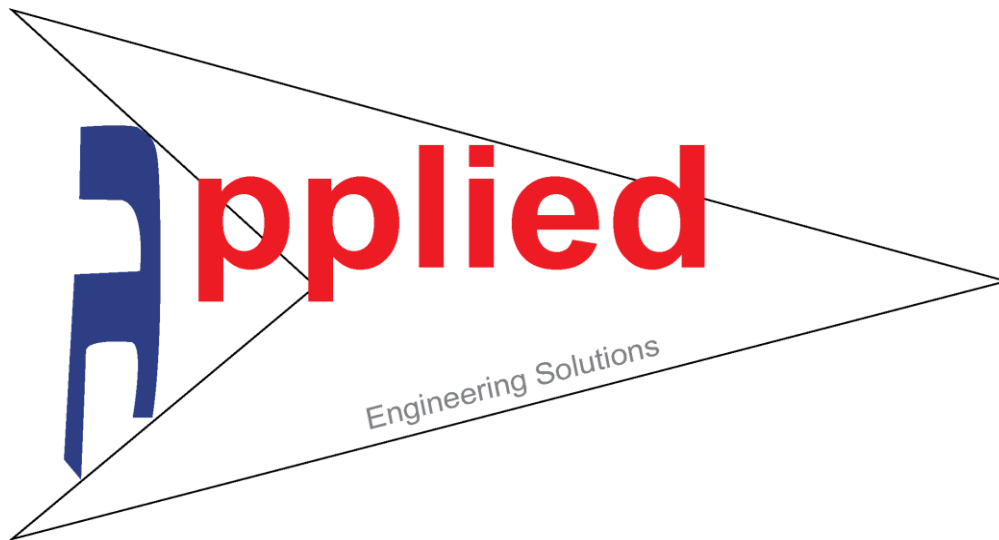


# User Manual for Coolex FCU Web Application Selection Software



## Applied Engineering Solutions

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**Index**

Cover page	1
Index	2
Starting page for login	3
Selection Steps	3
Fill data, Selection, IM units	4
Output selected model or models within the specified range	5
To choose the specification and options	7
Then choose save then show report	7
Output report of two pages	8
End page	10

### Starting page for login

User name and password : to be taken from Applied



The login page features the RIC logo (Refrigeration Industries Company) at the top, with the text 'صناعات التبريد REFRIGERATION INDUSTRIES' and 'Coolex Fan Coil Software'. Below the logo is a 'Login' section with two input fields for 'User Name' and 'Password', a 'Login' button, and the text 'Version 1.0'.

### Selection Steps

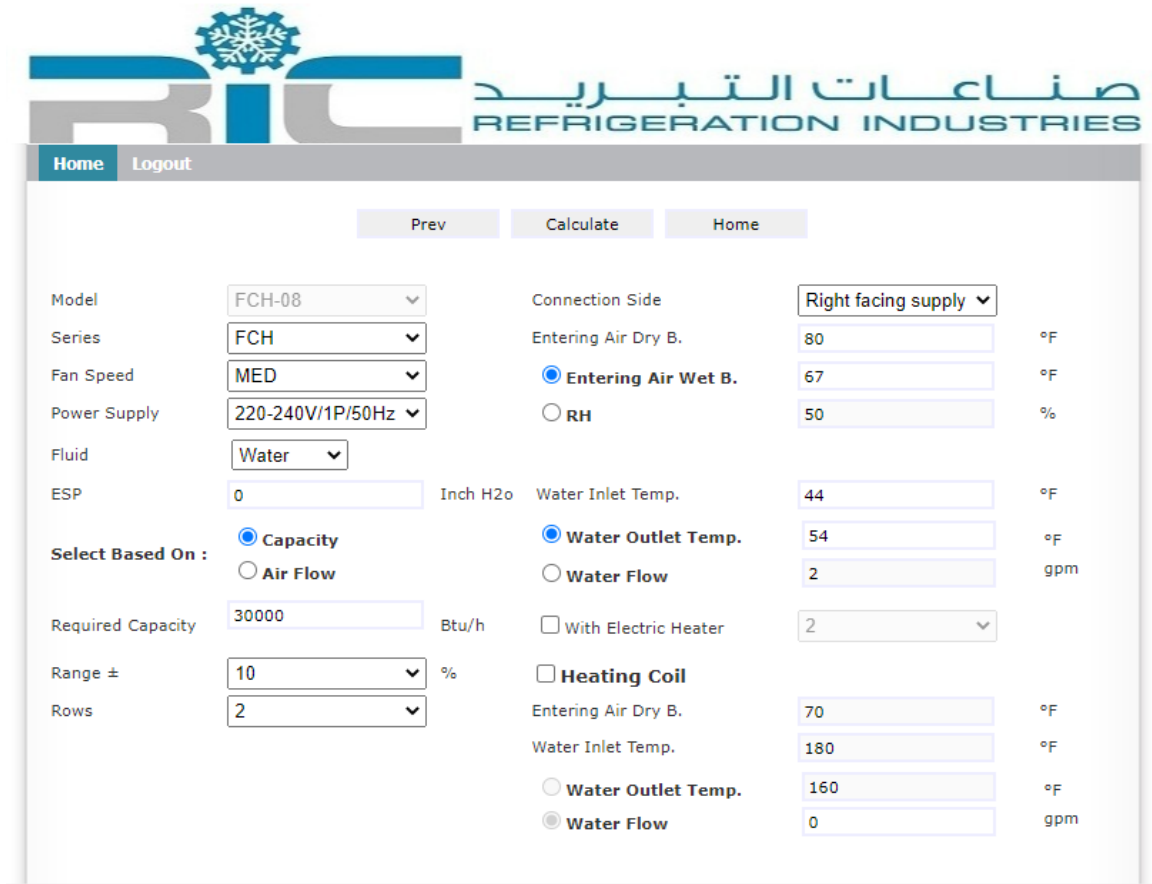
- IM or SI units
- Selection or Performance

First : will choose IM , Selection



The Selection Steps page shows the RIC logo and 'صناعات التبريد REFRIGERATION INDUSTRIES' at the top. Below the logo is a navigation bar with 'Home' and 'Logout' links. The main content area is titled 'Selection Steps' and contains two rows of radio buttons: the first row has 'IM' (selected) and 'SI'; the second row has 'Selection' (selected) and 'Performance'. A 'Next' button is located below the radio buttons.

**First : will choose IM and Selection**



**To fill the following data: then press Calculate**

- Select the series
- Fan speed
- Power supply
- Fan speed
- External air static pressure
- Required capacity OR required air flow
- Range : to select the models within this range
- Number of rows : 2, 3, 4
- Connection side
- On coil temperatures
- Water in/out or water in / water flow
- Electric heater if needed

**Output selected model or models within the specified range**



The screenshot shows the RIC website interface with a table of model outputs. The table has the following data:

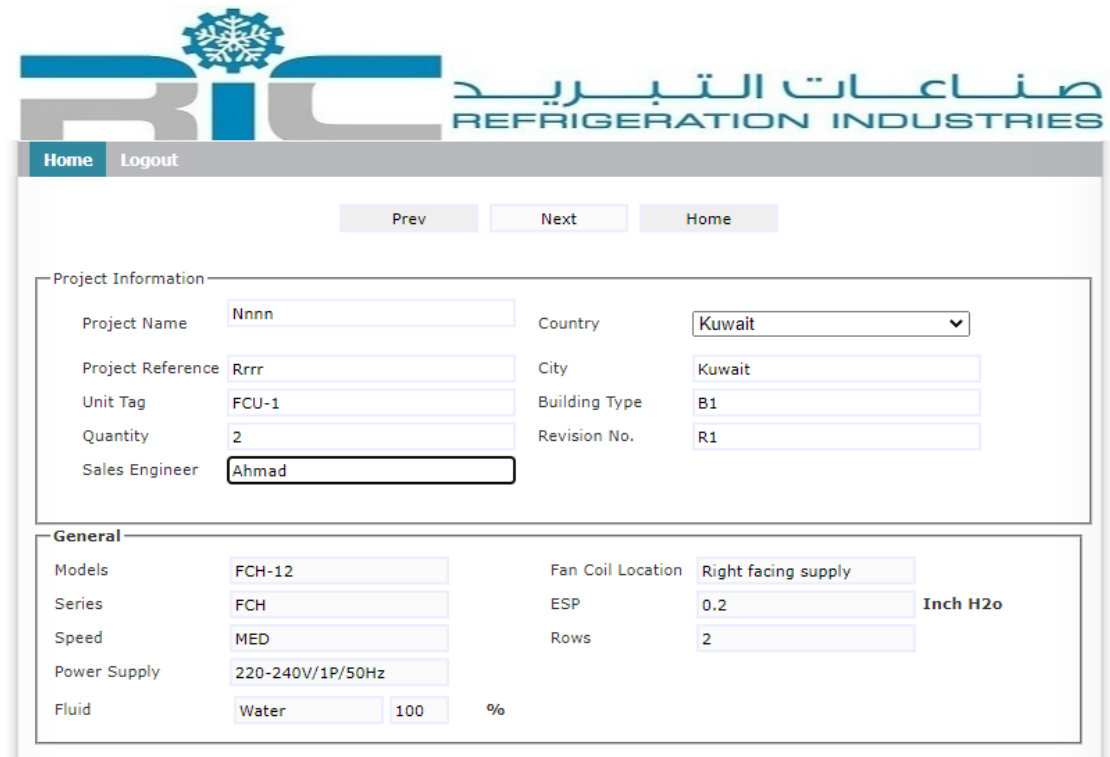
	Model_ID	Model	Series	Rows	Total Capacity	Sensible Capacity	Water Flow	WPD
Select	3	FCH-12	FCH	2	29739	21322	2.974	16.29
Select	4	FCH-14	FCH	2	30295	21767	3.03	16.85

Below the table is a button labeled "Add To Excel".

**Click on the required model then press next**

to see the following data:

- Project information
- General
- Cooling input
- Heating input
- Output data



The screenshot shows the RIC website interface with a configuration form. The form is divided into two sections: "Project Information" and "General".

**Project Information:**

- Project Name: Nnnn
- Country: Kuwait
- Project Reference: Rrrr
- City: Kuwait
- Unit Tag: FCU-1
- Building Type: B1
- Quantity: 2
- Revision No.: R1
- Sales Engineer: Ahmad

**General:**

- Models: FCH-12
- Fan Coil Location: Right facing supply
- Series: FCH
- ESP: 0.2 Inch H2o
- Speed: MED
- Rows: 2
- Power Supply: 220-240V/1P/50Hz
- Fluid: Water 100 %



Cooling Input					
Entering Air Dry B	80	°F	Water Inlet Temp.	44	°F
Entering Air Wet B	67	°F	Water Outlet Temp.	54	°F
RH	50.793	%	Water Flow	2	gpm

Heating Input					
Air Inlet Condition Dry B	70	°F	Water Outlet Temp.	160	°F
Water Inlet Temp.	180	°F	Water Flow	0	gpm

Output Data					
Total Capacity	29739	Btu/h	Sensible Capacity		Btu/h
Water Pressure Drop	16.29	FT H <sub>2</sub> O	Cooling Water Flow	2.974	gpm
Leaving Air DB	65.39	°F	Leaving RH	70.95	%
Leaving Air WB	59.54	°F	Heating Water PD	9.74	FT H <sub>2</sub> O
Heating Capacity	49648	Btu/h	With Electric Heater		
Heating Water Flow	4.9648	gpm			

Coils				
Face Area	3.16	ft <sup>2</sup>	Connection	3/4"
Air Vent:	Manual and Furnished on /		Fin Material	Hydrophilic Aluminum
Fin Spacing	12		Test Pressure	350 psig
Max Working Pressure	200 psig		Tube Material	Copper

Motor				
Power Input	373 (1/2)	W (hp)	Quantity	1

Fan					
Diameter	180	Inch	Width	200	Inch
Number Per Unit	2		Type	Double Width Double Inlet	
Construction	Galvanized Steel - Dynami		Housing	Galvanized Steel	

Other					
Unit Operating Weight	119.47	lb	Air Flow	1190	CFM

**To choose the specification and options**

**Specifiacation**

Filter: Washable Aluminu ▼

Drain Pan: Stainless Steel ext ▼

Discount Percentage:

**Casing**

Available with painted finishing

**Thermostat**

Decorative wall mounted type Operating mode

**Coiling Coil**

Copper fins

Available with 2 or 4 pipe arrangements for cooling & heating

With 3/4" cons. Left/Right hand for more installing flexibility

**Images**



Save Data      Show Report

**Then choose save then show report**

Output report of two pages

**COOLEX**



Project Name: Nnnn Country: Kuwait Build Type: B1 Unit Tag: FCU-1 Revision No. R1  
 Project Ref.: Rrrr Cry: KUWAT Sales Eng.: Ahmad Unit Qty: 2 17/03/2021

General Data	
Model :	FCH-12
Series :	FCH
Speed :	MED
Power Input :	220-240V/1P/50Hz
Fluid :	Water-100
Quantity (Nos) :	2
Fan Coil Location :	Right facing supply
No. Of Rows :	2



Input		
Static Pressure :	0.2	Inch H2o
Entering Air Dry B :	80	°F
Entering Air Wet B :	67	°F
RH :	50.793	%
Water Inlet Temp. :	44	°F
Water Outlet Temp. :	54	°F
Water Flow :	2	gpm
HeatAirDryB :	70	°F
HeatWaterInTemp :	180	°F
HeatWaterOutTemp :	160	°F
HeatWaterFlow :	0	gpm

Output		
Total Capacity :	29739	Btu/h
Sensible Capacity :	21322	Btu/h
Leaving Air DB :	65.39	°F
Leaving Air WB :	59.54	°F
Leaving RH :	70.95	%
Water Flow :	2.974	gpm
Water P.D. :	16.29	FT H2o
Air Flow :	1190	CFM
Unit OperatingWeight :	119.47	lb
Heating Capacity :	49648	Btu/h
Heating WPD :	9.74	FT H2o
Heating Water Flow :	4.9648	gpm
With Electric Heater :		KW

Description	Selection Data	Unit
<b>Coil</b>		
FaceArea:	3.16	ft <sup>2</sup>
Connection:	3/4"	
AirVent:	Manual and Furnished on All Coils	
FinMaterial :	Hydrophilic Aluminum	
TubeMaterial:	Copper	
FinSpacing:	12	
TestPressure:	360 psig	
Max Pressure:	200 psig	
<b>Fan</b>		
Diameter:	180	Inch
Width:	200	Inch
NumberPerUnit:	2	Nos
Type:	Double Width Double Inlet Forward Curved Directly Driven	
Construction:	Galvanized Steel - Dynamically Balanced	
Housing	Galvanized Steel	
<b>Motor</b>		
Power Input:	373 (1/2)	W (hp)
Quantity:	1	Nos

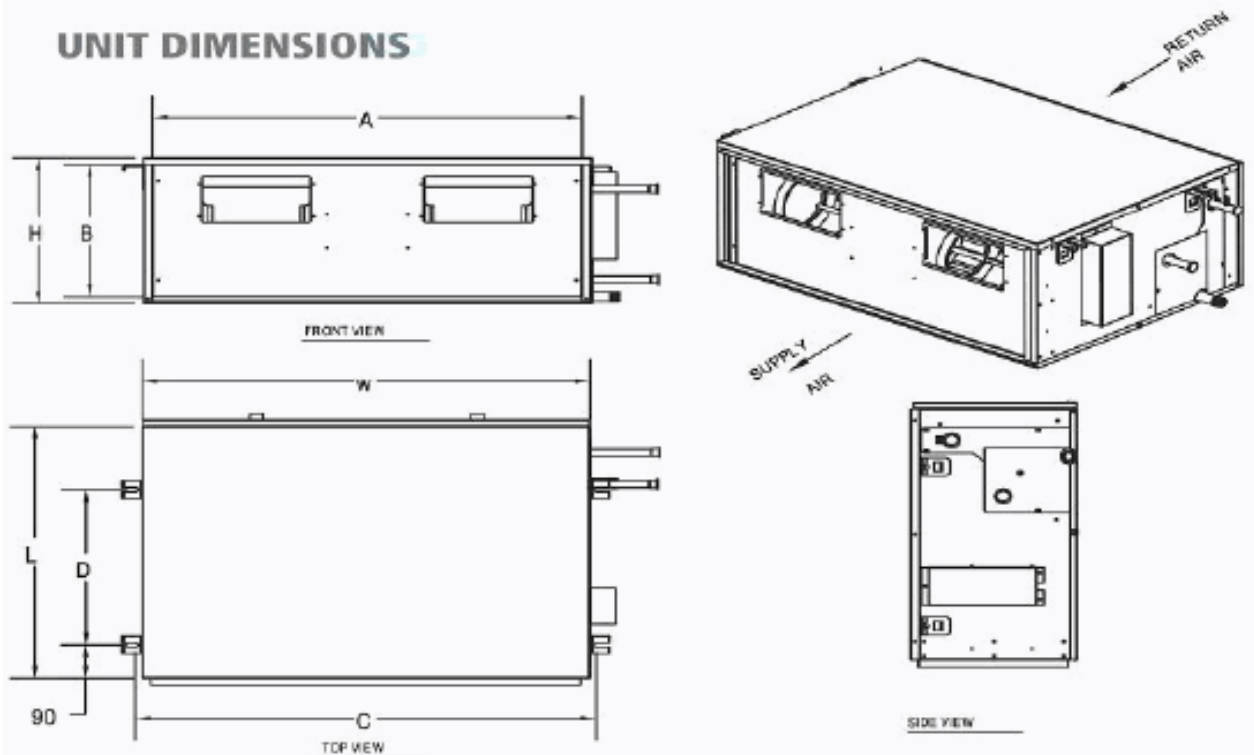


**COOLEX**

<b>Project Name:</b>	Nnnn	<b>Country:</b>	Kuwait	<b>Build Type:</b>	B1	<b>Unit Tag:</b>	FCU-1	<b>Revision No.</b>	R1
<b>Project Ref. :</b>	Rrrr	<b>City:</b>	Kuwait	<b>Sales Eng. :</b>	Ahmad	<b>Unit Qty:</b>	2	17/03/2021	

<b>Casing:</b>	
<b>Thermostat:</b>	
<b>Coiling Coil:</b>	
<b>Total :</b>	2
<b>Discount :</b>	0 %
<b>Net Total :</b>	2

**UNIT DIMENSIONS**

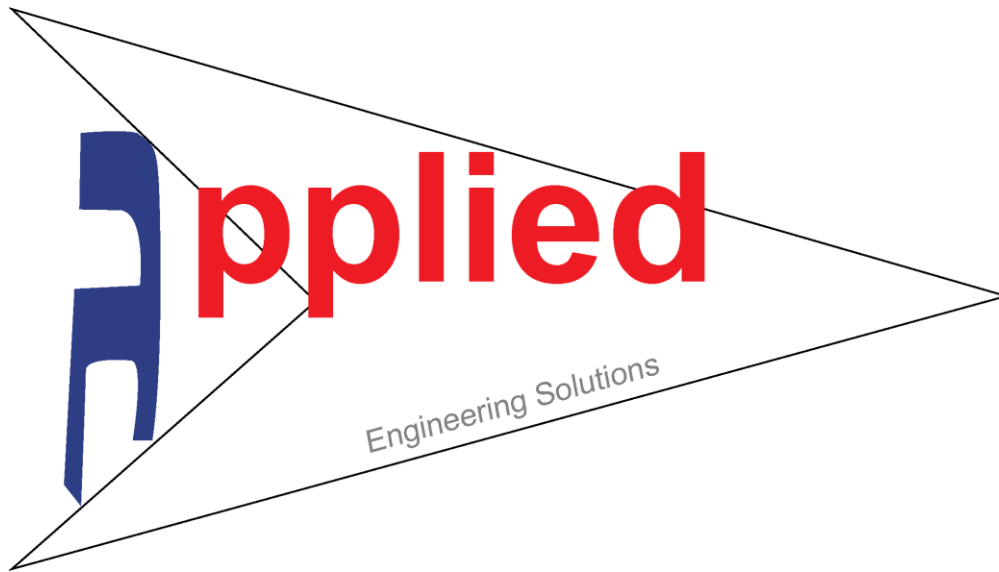


MODEL	DIMENSIONS					
	L	W	H	W/OF COILS A.T.T	C	D
FCU-12	673	356	270	9 1/2 X 533	980	425

ALL DIMENSIONS ARE IN mm

Same can be done for SI or Performance

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