



INNOVATION IN HIDDEN  
TEMPERATURE CONTROL

# Ambiance Air

A concealed luxury PTAC

## FRC SERIES

## WALL SPLIT UNIT – MODEL WL 140 - 210

### FEATURES

- ✓ Concealed, hidden design
- ✓ VERY QUIET
- ✓ Through the wall installation – No external unit
- ✓ Less build-out than Central AC
- ✓ Ideal for retrofit projects and new constructions
- ✓ High-end residential & commercials
- ✓ UL Listed products
- ✓ No required millwork enclosure
  
- ✓ Alternative to PTAC units / Central Air systems
- ✓ Ductless mini split system
- ✓ Possible ductwork – 4inchH<sub>2</sub>O for 50Ft ductwork length
- ✓ Suction accumulator pre-charged with refrigerant R-134a
- ✓ Piping length up to 50 Ft between condenser and evaporator units

- ✓ 24-hours operation - Cooling / Heating mode
- ✓ Fast restart due to bypass valve
- ✓ Self-integrated condensate pump with spray system
- ✓ Brushless DC fan for noise reduction
- ✓ Summer fan mode
- ✓ Auto / Manual fan speed mode
- ✓ Energy efficient rotary compressor
  
- ✓ High efficiency – 15 000 to 23 000 Btu/h
- ✓ High SEER
  
- ✓ Built-in sensors for remote assistance
- ✓ Digital wireless touchpad controls
- ✓ Bridge / IOS App for remote control
- ✓ Piping length up to 50 Ft between condenser

### DIAGNOSTIC FEATURES :

Multiple sensors are built in our Ambiance Air HVAC systems. This technology reduces significantly the risk of breakage and leakage. It allows to reset alarms, and facilitate maintenance.

A list on how to reset and analyse these alarms is available.

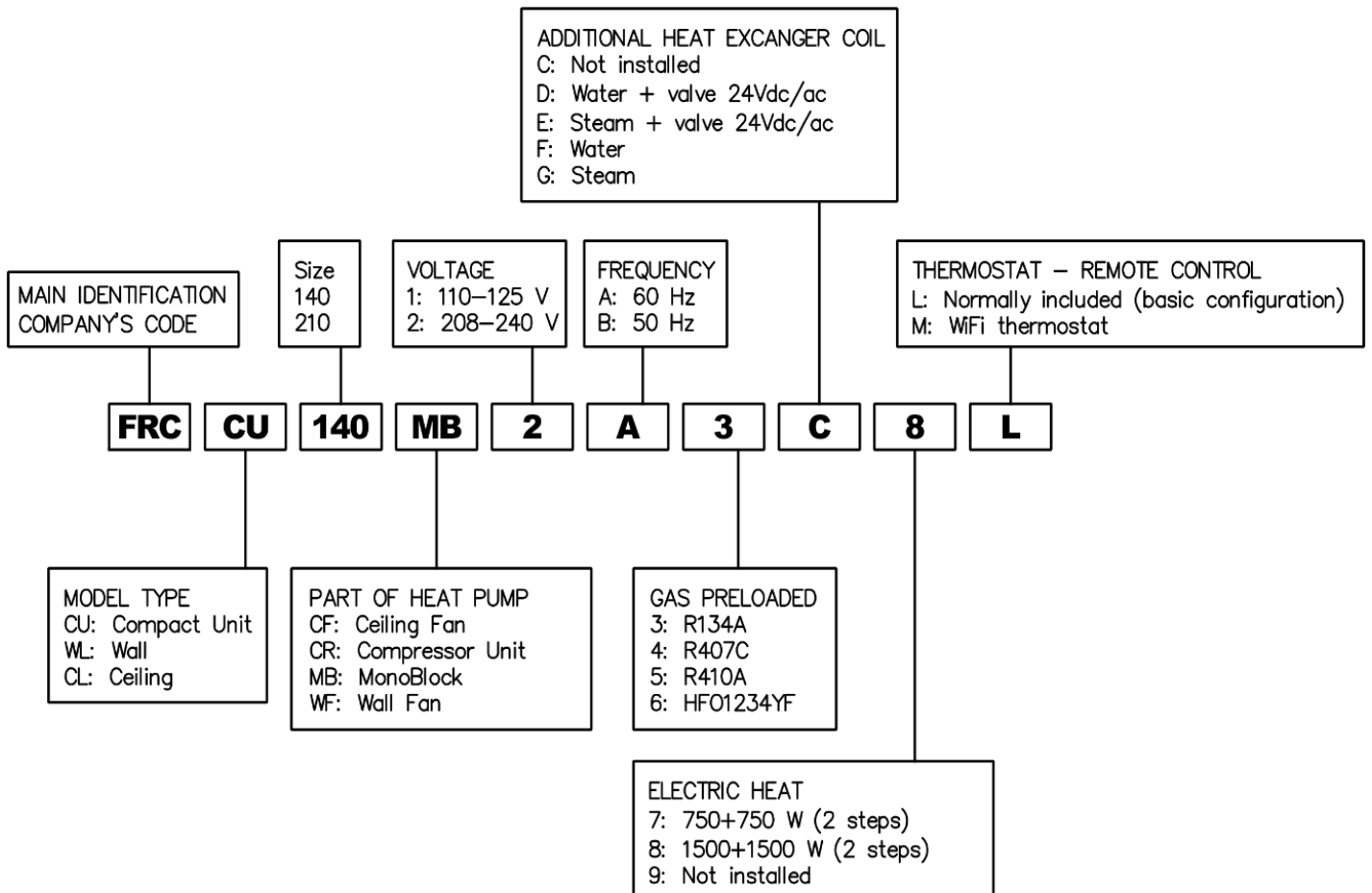
### THERMOSTAT OPTION:

**A) The Dixell touch pad thermostat** is a wired interface that is installed on the unit's panel or wall. It is equipped with a radio probe which is a white box that can be stuck on the wall. The Radio probes ensure accurate room temperature reading and proper positioning without the use of electrical wiring inside the room.

Remote control is available thanks to the user APP.

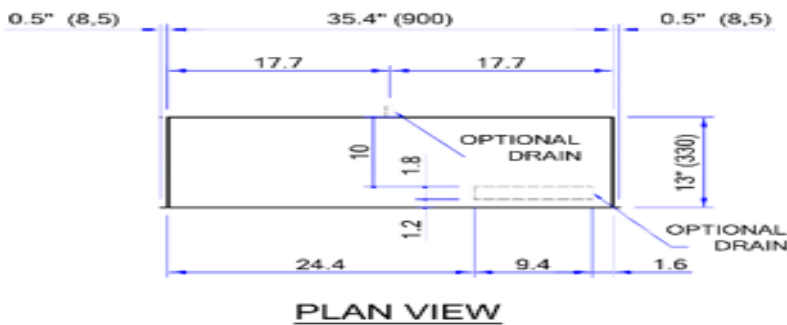
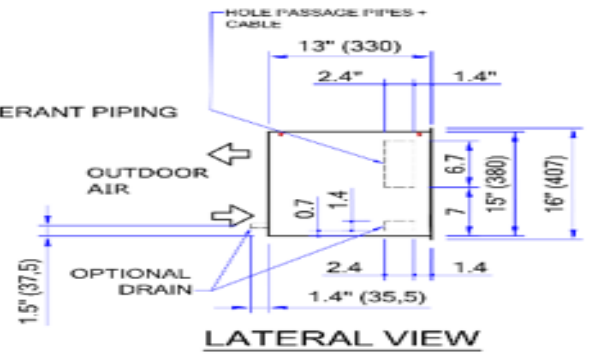
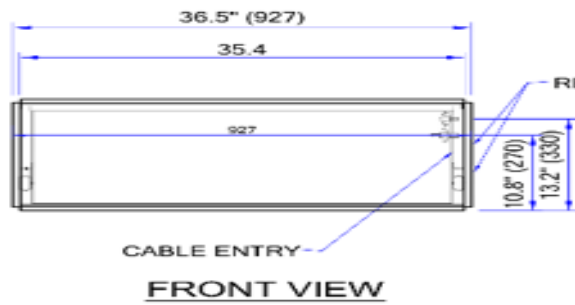
# GENERIC ELECTRICAL DIAGRAM

Ask us for more details



**FRC SERIES**  
**MODEL WL 140**

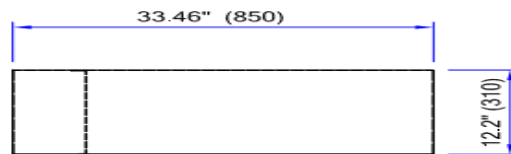
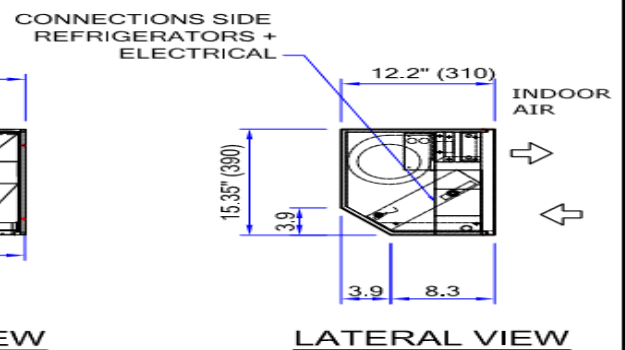
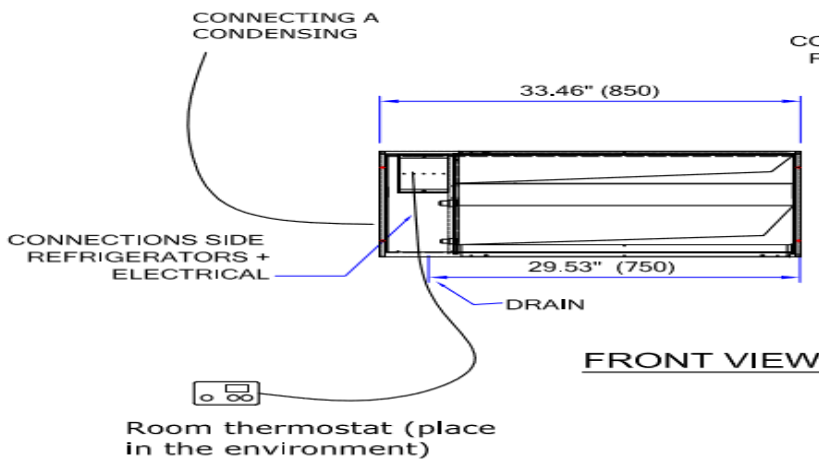
**DIMENSIONS WALL SPLIT UNIT**  
**MODEL WL 140 – up to 15 554 Btu/h**



## CONDENSER UNIT

DESCRIPTION : CONDENSER - MODEL HEAT PUMP  
 FRC - WL - 140 RIF : NYC / Cooling : 15,554 BTU/H

DEPTH x WIDTH x HEIGHT (Sleeve)  
 $13^{13/64} \times 35^{13/32} \times 14^{61/64}$



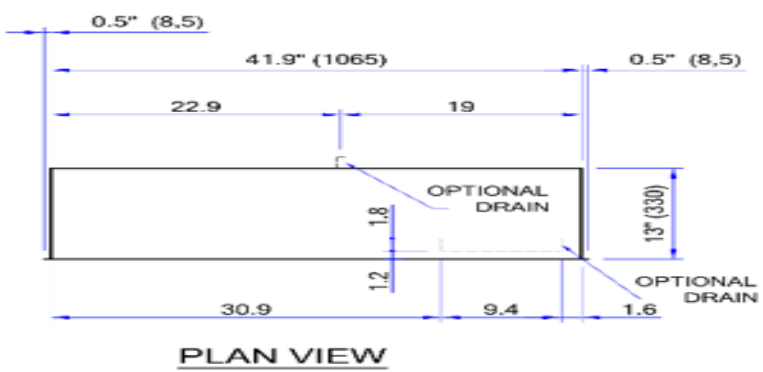
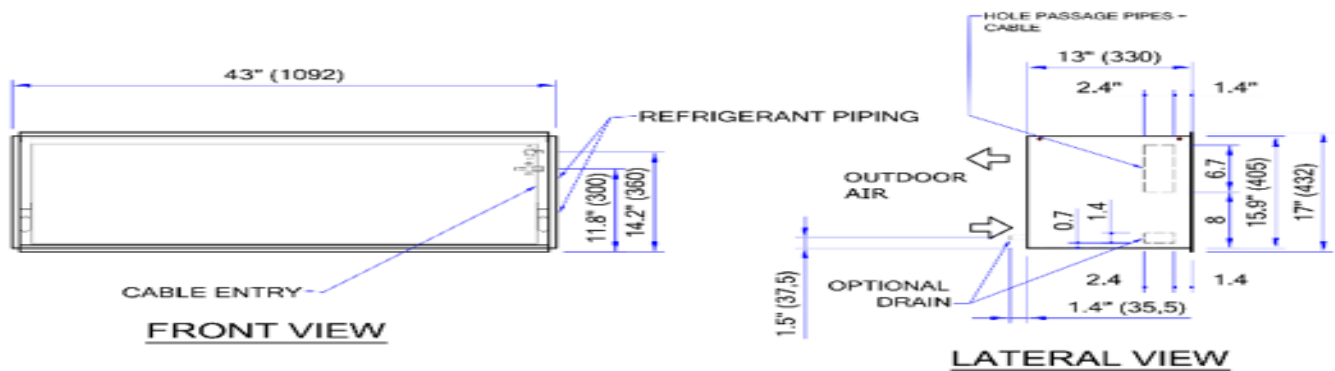
## EVAPORATOR UNIT

### FRC SERIES

### DIMENSIONS WALL SPLIT UNIT

DESCRIPTION : EVAPORATOR  
 FRC - WL - 140 RIF : NYC

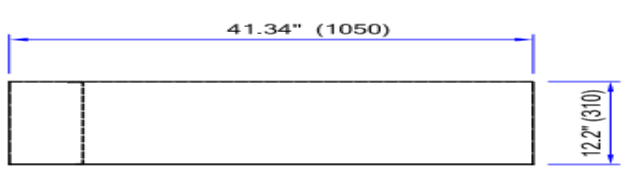
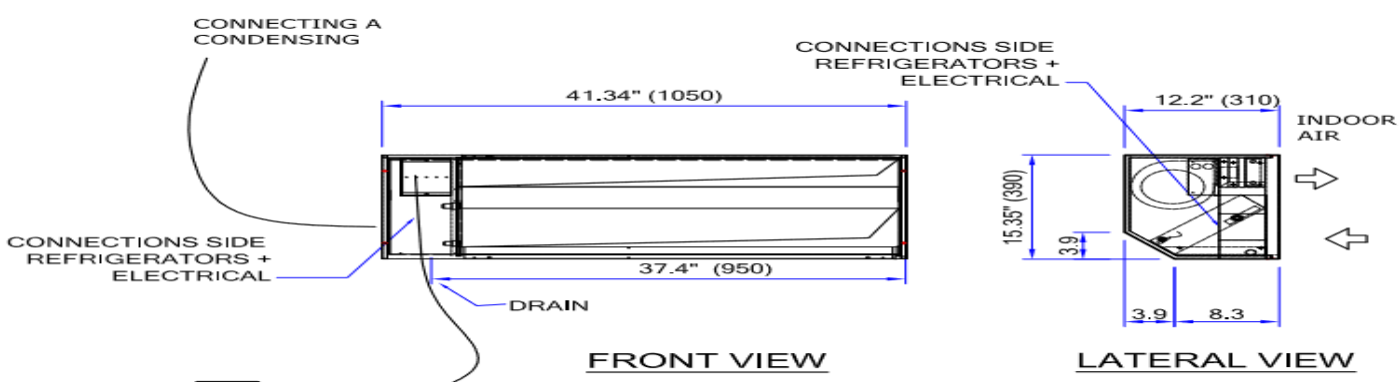
DEPTH x WIDTH x HEIGHT  
 $12^{13/64} \times 33^{15/32} \times 15^{11/32}$



**CONDENSER UNIT**

DESCRIPTION : CONDENSER - MODEL HEAT PUMP  
 FRC - WL - 210 RIF : NYC / Cooling : 22,624 BTU/H

DEPTH x WIDTH x HEIGHT (Sleeve)  
 13" x 41<sup>29</sup>/<sub>32</sub>" x 15<sup>15</sup>/<sub>16</sub>"



**EVAPORATOR UNIT**

DESCRIPTION : EVAPORATOR  
 FRC - WL - 210 RIF : NYC

DEPTH x WIDTH x HEIGHT  
 12<sup>13</sup>/<sub>64</sub>" x 41<sup>11</sup>/<sub>32</sub>" x 15<sup>11</sup>/<sub>32</sub>"



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Serie FRC – WL (Wall Unit)			MODEL 140	MODEL 210
HEATING PUMP CAPACITY	high speed	BTU/h	17,671	25,433
	medium speed	BTU/h	16,448	22,731
	low speed	BTU/h	15,790	21,157
Indoor temperature 70°F Indoor humidity 55% Outdoor air +47°F	high speed	kW	5.2	7.5
	medium speed	kW	4.8	6.7
	low speed	kW	4.6	6.2
Coefficient of performance	C.O.P.	(BTU/h)/kW	15.7	14.6
Total power input	nominal	kW	1.1	1.7
Electrical power	nominal	A	5.9	9.2

2 STAGE HEATERS	high speed	BTU/h	10,227	10,227
	medium speed	BTU/h	5,114	5,114
	low speed	BTU/h	5,114	5,114
Indoor temperature 70°F Indoor humidity 55%	high speed	kW	3.0	3.0
	medium speed	kW	1.5	1.5
	low speed	kW	1.5	1.5
Total power input	nominal	kW	3.3	3.3
Electrical power	nominal	A	15.7	15.9

COOL CAPACITY TOTAL	high speed	BTU/h	15,554	22,624
	medium speed	BTU/h	15,135	22,058
	low speed	BTU/h	15,190	21,465
Indoor temperature 80°F Indoor humidity 51% Outdoor temperature +95°F Outdoor humidity 39%	high speed	kW	4.6	6.6
	medium speed	kW	4.4	6.5
	low speed	kW	4.5	6.3
Energy efficiency ratio	E.E.R.	(BTU/h)/kW	14.5	13.8
Total power input	nominal	kW	1.1	1.6
Electrical power	nominal	A	5.4	8.2

Air flow	high speed	cfm	399	491
	medium speed	cfm	337	399
	low speed	cfm	295	337
Power only fan	high speed	kW	0.08	0.09
	medium speed	kW	0.07	0.07
	low speed	kW	0.06	0.06
Power consumption	Stand-by	kW	0.01	0.01
Maximum power consumption	max	A	10	16
Source voltage		standard	208-230 volt\1phase\60herz	
Refrigerant		type	R134A	
Noise room level cold	max-med-min	dB(A)	40-31-29	42-35-30
Noise room level heat pump	max-med-min	dB(A)	41-32-30	41-34-30
Noise room level electric heaters	max-med-min	dB(A)	32-30-28	35-31-28
Noise external level	max-min	dB(A)	45-33	49-36
Refrigerating pipes	nominal	inches	1/4 - 3/4 (up 5 meters)	
Weight internal unit		kg	19	22
Weight external unit		kg	36	40

Noise hemispheric field at a distance of 3 m in room ambient - Noise hemispheric field at a distance of 10 m in external ambient

Heatpump designed to operate up to 32°F outside in winter - Temperatures below the heating is provided only by electric heaters



## ACCESSORIES for all version CU-WL-CL

FRC SERIES MODEL 140	FRC SERIES MODEL 210
WATER COIL + 24Vdc/ac (140) VALVE	WATER COIL + 24Vdc/ac (210) VALVE
STEAM COIL + 24Vdc/ac (140) VALVE	STEAM COIL + 24Vdc/ac (210) VALVE
WATER COIL (140)	WATER COIL (210)
STEAM COIL + 24Vdc/ac (140) VALVE	STEAM COIL + 24Vdc/ac (210) VALVE
ELECTRIC HEATER 750+750W	ELECTRIC HEATER 1500+1500W
STANDARD WIFI KBLUE THERMOSTAT	
FREON LINES 3/8" and 1/4" – Maximum Length 50 Feet	

### Custom shop details:

- Custom fan for long ductworks: up to 65 Feet long / pipe diameter: 9.8"  
Please contact us for specific needs

### MODEL – HEAT PUMP – FRC SERIES WL 140 / 210

