



INNOVATION IN HIDDEN
TEMPERATURE CONTROL

Ambiance Air

A concealed luxury PTAC

FRC SERIES

COMPACT UNIT – MODEL CU 180 R

FEATURES

- ✓ Most quiet PTAC unit on the market
- ✓ Through the wall installation – No external unit
- ✓ Ideal for retrofit projects and new constructions
- ✓ High-end residential & commercials
- ✓ No required millwork enclosure

- ✓ Superior quality PTAC unit
- ✓ High quality components
- ✓ Suction accumulator pre-charged with refrigerant R-134a
- ✓ 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 – 18,000 Btu/h
- ✓ High SEER

- ✓ Built-in sensors for remote assistance
- ✓ Digital wireless touchpad controls
- ✓ Bridge / IOS App for remote control

REPLACEMENT FOR TYPE 41

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.

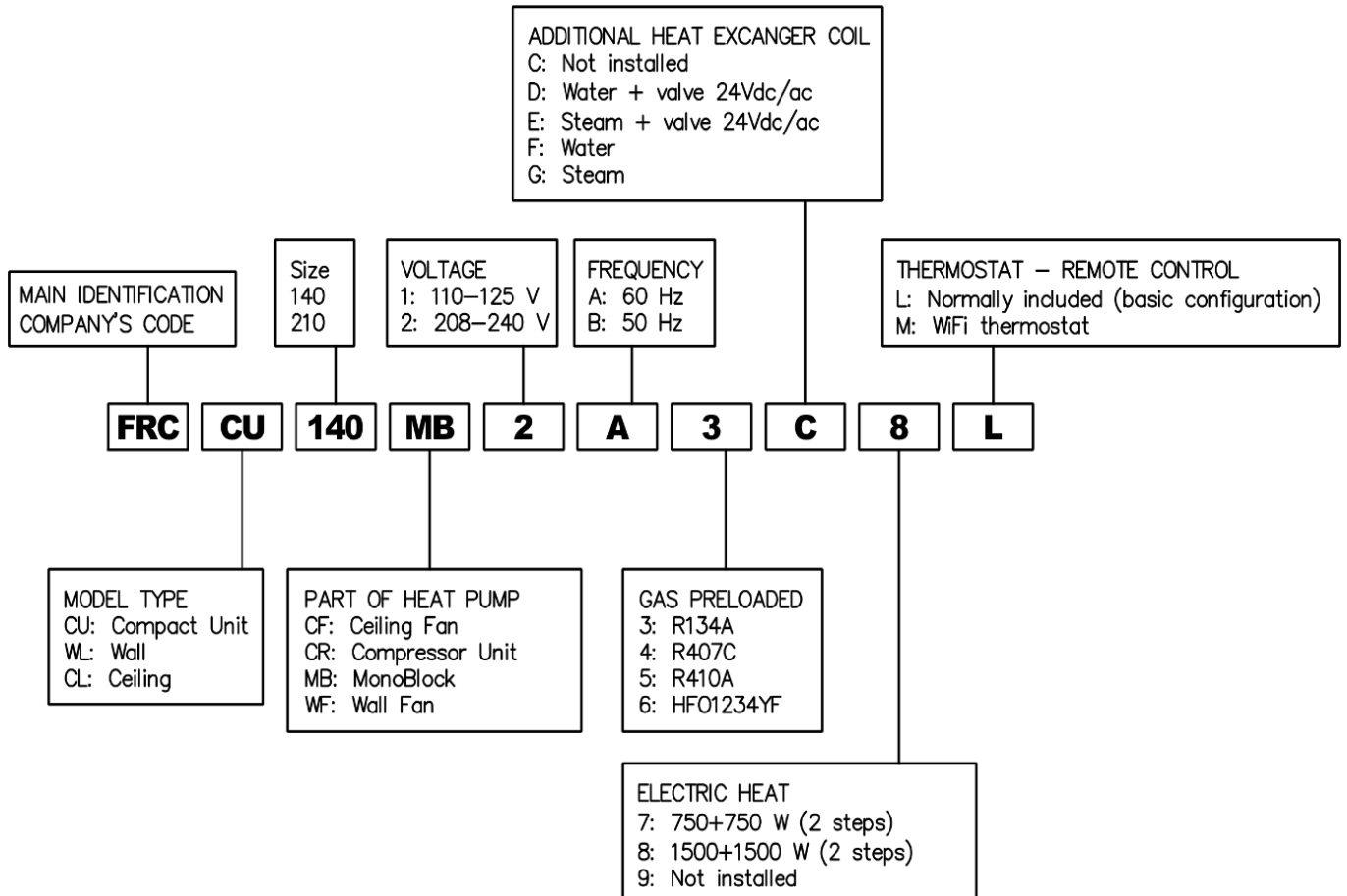
THERMOSTAT OPTION:

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.

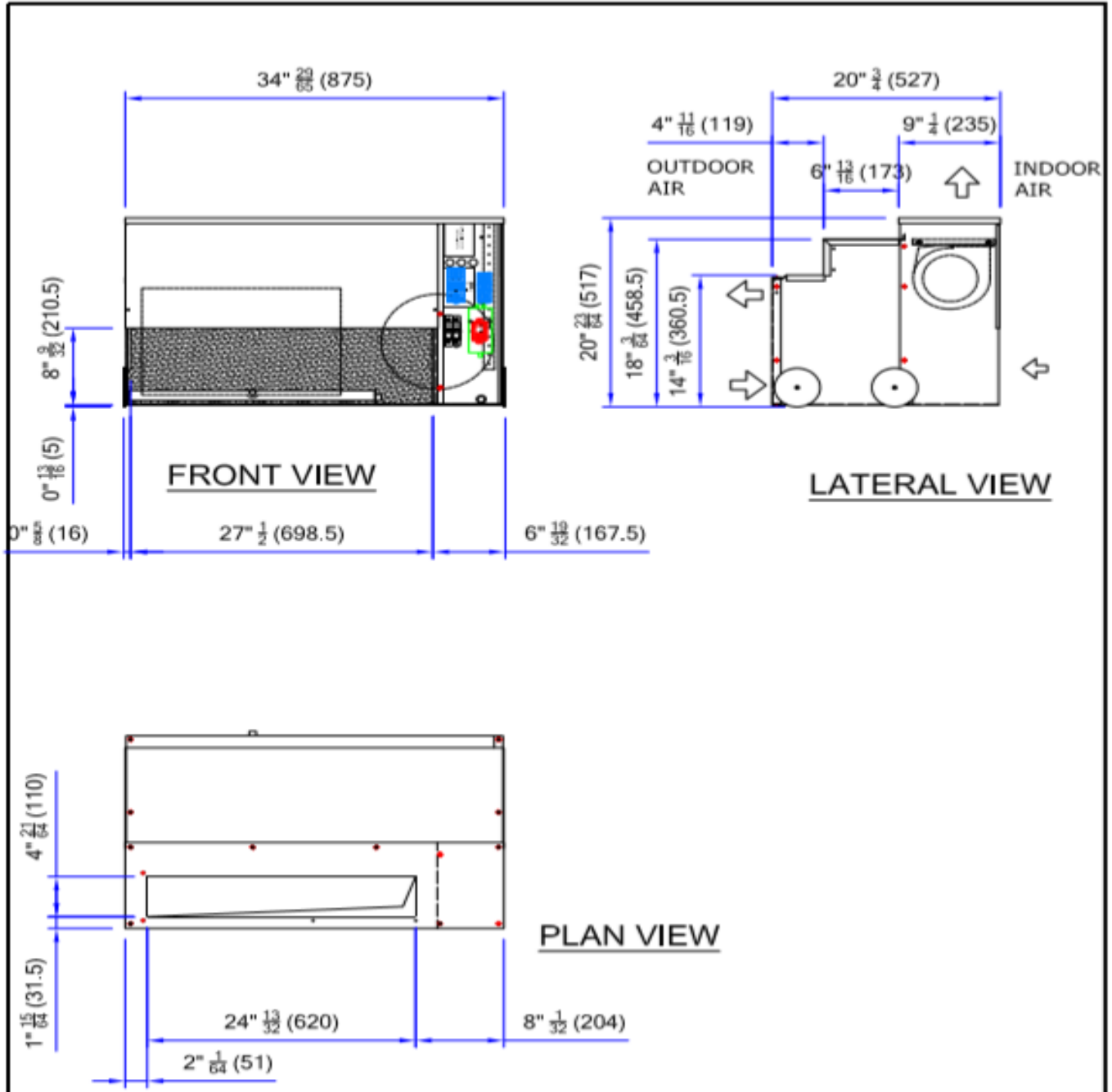
GENERIC ELECTRICAL DIAGRAM

Ask us for more details



CU-CH

DIMENSIONS MODEL CU 180R
18,000 Btu/h



180 R

15,000 BTUH

DESCRIPTION :

MODEL

FRC – CU – 180R RIF : NYC

Cooling : 18,000 BTU/H

DEPTH x WIDTH x HEIGHT (Sleeve)

20 3/4 " X 34 29/65" X 14 3/16"

2020-01-24 update

centralpark version

serie **FRC**version **CU**

model

180-R

| | | | |
|---|----------|-------|--------|
| electric heaters heating Capacity air/humidity inlet 68°F/50% outdoor air < 32°C | vel. Max | BTU/h | 10.227 |
| | vel. med | BTU/h | 5.114 |
| | vel. Min | BTU/h | 2.557 |
| | vel. Max | kW | 3,0 |
| | vel. med | kW | 1,5 |
| | vel. min | kW | 0,8 |
| Total power consumption | nominal | kW | 3,1 |
| Running Amp | nominal | Amp | 15,0 |

| | | | |
|--|----------|------------|--------|
| total cooling capacity air/humidity inlet 81°F/50% outdoor air +95°C | vel. Max | BTU/h | 18.100 |
| | vel. Med | BTU/h | 15.048 |
| | vel. Min | BTU/h | 12.070 |
| | vel. Max | kW | 5,0 |
| | vel. Med | kW | 4,4 |
| | vel. Min | kW | 3,5 |
| Energy efficiency ratio | EER | (BTU/h)/kW | 13,7 |
| Seasonal Energy efficiency ratio | SEER | (BTU/h)/kW | |
| Total power consumption | nominal | kW | 1,2 |
| Running Amp | nominal | Amp | 6,2 |

| | | | |
|-----------------------------------|---------------|---------|----------|
| air flow | max speed | cfm | 384 |
| | med speed | cfm | 325 |
| | min speed | cfm | 283 |
| power only fan | max speed | Watt | 115 |
| | med speed | Watt | 88 |
| | min speed | Watt | 60 |
| power consumption | stand by | Watt | 8 |
| max power consumption | max | Amp | 15 |
| max start current (LRA) | max | Amp | 41 |
| source voltage | standard | Volt/Hz | 210\160 |
| noise room level cold | max- med- min | dB(A) | 43-32-29 |
| noise room level electric heaters | max- med- min | dB(A) | 41-32-30 |
| noise room level electric heaters | max- med- min | dB(A) | 32-30-28 |
| noise external level | max- min | dB(A) | 45-33 |
| weight internal unit | | Kg | 110 |

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

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 | |
| WATER CONDENSATE DRAIN PUMP SPRAY + WATER FILTER | |
| 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

