

# PIONEER<sup>®</sup>

## DIAMANTE Pro<sup>™</sup>

### Ductless Wall Mount Split Systems

19~23 SEER High Efficiency

Heat Pump + DC Inverter in One System

Single Zone (9000~36000 BTU/hr)

110~120V / 208V~230V, 60Hz, 1Ph



## WYT-20

DC INVERTER HEAT PUMP

INVERTER+<sup>®</sup>  
TECHNOLOGY



Smart  
Airflow

High  
Efficiency

Insulated  
DESIGN

DUAL  
DRAINAGE

Low Noise



Whisper-Quiet  
Operation



Dual Drain  
Options



LED  
Display



Convenient  
Maintenance



Eco-Friendly  
Refrigerant



Customizable  
Timer



Soft Breeze  
Airflow



3D Air Flow



Ultra-Thin  
Design



Power Loss  
Memory Recovery



Rapid Delivery  
Output



Energy  
Saving

### STANDARD FEATURES

- Digital Backlit LED Display On Front Panel
- Designed For Standard Wall Hung Installation
- Reverse Cycle / Heat Pump Application
- Latest Design Attractive Acrylic Flat Panel
- Full ABS Plastic Casing for Indoor Units
- Removable Flip Open Style Front Panel Cover
- Washable Return Air Filter Cartridges
- Anti Discoloration Formulated Plastic Dyes
- Low Ambient Condenser Heat Strip for -13F Heating
- LCD Screen Infrared Electronic Control
- Auto-Restart with Memory for Power Outages
- Timer for Preset Starting and Stopping
- Auto Changeover, Dry, and Fan Only Modes
- Season Sensitive Operational Logic

- Self-Learning Time-Demand Defrost Logic
- Automatic Synchronized Discharge Louver
- Three + Auto Speed Digital EC-DC Blower Motor
- Ultra High-Efficiency Grooved Copper Tubes
- Enhanced Louvered Hydrophilic Aluminum Fins
- Superior Efficiency Rating Under a Variety of Conditions
- Dynamically Balanced Ultra Quiet Cross-Flow Blower
- Anti Mildew Treatment on Blower Wheels
- Internal Noise and Vibration Isolation
- High Output & Quiet Variable Speed Compressors
- Very Low Starting Current
- Large Capacity Suction Accumulators
- Ultra Galvanized Sheet Metal Parts
- Heavy Coat of Baked Enamel Paint for the Outdoor Unit

- Durable Outdoor Fan with High Glass Content
- Digital Motor Speed Control System
- Whisper Quiet Indoor Motor with Ball Bearings
- High Air Flow Volume for Quick Performance
- Efficient, Permanently Lubricated EC-DC Outdoor Motor
- Internal Overload Protection for Motors
- Flare Type Refrigerant Connections
- Full Operating Charge of Refrigerant (R454B)
- Standardized Cabinet Design for all Models
- Piping and Wiring Through the Bottom, Sides, or Rear of the Unit
- Highest Grade Components for Long Life Expectancy
- Ample Availability of Spare Parts and Accessories
- Wireless Internet Access via Control Module Available
- Built to Withstand Very Low Ambient Temperatures

| Full System Model Number                      |                                     |          | WYT009ALSI20RL                                                                             | WYT012ALSI20RL              | WYT009GLSI20RL              | WYT012GLSI20RL              | WYT018GLSI20RL              | WYT024GLSI20RL              | WYT030GLSI20RL              | WYT036GLSI20RL              |
|-----------------------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|                                               | Indoor Unit Model Number            |          | WT009ALSI20HLF                                                                             | WT012ALSI20HLF              | WT009GLSI20HLF              | WT012GLSI20HLF              | WT018GLSI20HLF              | WT024GLSI20HLF              | WT030GLSI20HLF              | WT036GLSI20HLF              |
|                                               | Indoor Unit Model Code              |          | Z2U20102009395                                                                             | Z2U20102009447              | Z2U20102009394              | Z2U20102009448              | Z2U20102009430              | Z4U20102039520              | Z4U20102039671              | Z4U20102039671              |
|                                               | Outdoor Unit Model Number           |          | YN009ALSI20RPF                                                                             | YN012ALSI20RPF              | YN009GLSI20RPF              | YN012GLSI20RPF              | YN018GLSI20RPF              | YN024GLSI20RPF              | YN030GLSI20RPF              | YN036GLSI20RPF              |
|                                               | Outdoor Unit Model Code             |          | Z2U20103009115                                                                             | Z2U20103009163              | Z2U20103009114              | Z2U20103009164              | Z2U20103009142              | Z4U20103038780              | Z2U20103009143              | Z2U20103009143              |
| System Type                                   |                                     |          | DIAMANTE PRO Series High Wall Mount Type Split Heat Pump System (SEER2 20 / Range 19 ~ 21) |                             |                             |                             |                             |                             |                             |                             |
| Modes                                         |                                     |          | Cooling, Heating, Dehumidification, Ventilation                                            |                             |                             |                             |                             |                             |                             |                             |
| Control type                                  |                                     |          | Standard set with IR wireless remote (Other optional controllers are available)            |                             |                             |                             |                             |                             |                             |                             |
| Input power supply                            |                                     |          | 110~120V~/60Hz/1P                                                                          | 110~120V~/60Hz/1P           | 208~230V~/60Hz/1P           | 208~230V~/60Hz/1P           | 208~230V~/60Hz/1P           | 208~230V~/60Hz/1P           | 208~230V~/60Hz/1P           | 208~230V~/60Hz/1P           |
| Power supply range                            |                                     |          | 99 ~ 132 VAC                                                                               | 99 ~ 132 VAC                | 187 ~ 253 VAC               | 187 ~ 253 VAC               | 187 ~ 253 VAC               | 187 ~ 253 VAC               | 187 ~ 253 VAC               | 187 ~ 253 VAC               |
| Energy Star Rating                            |                                     |          | ✓                                                                                          | ✗                           | ✓                           | ✗                           | ✗                           | ✗                           | ✗                           | ✗                           |
| NEEP Rating                                   |                                     |          | ✓                                                                                          | ✓                           | ✓                           | ✓                           | ✓                           | ✓                           | ✓                           | ✓                           |
| Cooling performance                           | Rated cooling capacity (at 95°F)    | Btu/h    | 9,000                                                                                      | 12,000                      | 9,000                       | 12,000                      | 18,000                      | 24,000                      | 31,500                      | 36,000                      |
|                                               | Cooling capacity range              | Btu/h    | 2,050 ~ 11,250                                                                             | 3,400 ~ 13,000              | 2,050 ~ 10,900              | 3,400 ~ 13,000              | 4,090 ~ 18,400              | 5,100 ~ 25,200              | 7,500 ~ 36,000              | 7,500 ~ 36,000              |
|                                               | EER2 Rating                         | Btu/W.h  | 11.7                                                                                       | 10.5                        | 12.0                        | 11.2                        | 11.0                        | 11.0                        | 9.0                         | 9.0                         |
|                                               | SEER2 Rating                        | Btu/W.h  | 19.0                                                                                       | 20.0                        | 20.0                        | 20.0                        | 21.0                        | 21.0                        | 19.0                        | 19.0                        |
| Heating performance                           | Rated Heating capacity (at 47°F)    | Btu/h    | 10,000                                                                                     | 12,000                      | 10,000                      | 12,000                      | 19,000                      | 24,000                      | 33,000                      | 36,000                      |
|                                               | Rated Heating capacity (at 17°F)    | Btu/h    | 8,000                                                                                      | 10,000                      | 8,000                       | 10,000                      | 11,000                      | 17,900                      | 22,800                      | 23,400                      |
|                                               | Heating capacity range              | Btu/h    | 2,050 ~ 12,200                                                                             | 3,400 ~ 13,900              | 2,050 ~ 12,200              | 3,400 ~ 13,900              | 4,090 ~ 19,000              | 5,100 ~ 25,900              | 7,500 ~ 36,000              | 7,500 ~ 36,000              |
|                                               | HSPF2 Rating (Region IV)            | Btu/W.h  | 9.5                                                                                        | 9.5                         | 10.0                        | 9.5                         | 9.5                         | 9.5                         | 9.0                         | 9.0                         |
|                                               | HSPF2 Rating (Region V)             | Btu/W.h  | 8.0                                                                                        | 8.3                         | 8.0                         | 8.3                         | 8.2                         | 8.2                         | 7.7                         | 7.7                         |
|                                               | COP2 (at 47°F)                      | W/W      | 3.81                                                                                       | 3.41                        | 3.81                        | 3.41                        | 3.41                        | 3.15                        | 3.15                        | 3.15                        |
|                                               | Max. Heating capacity (at 5°F)      | Btu/h    | 7,300                                                                                      | 9,000                       | 7,400                       | 9,000                       | 12,500                      | 16,400                      | 18,800                      | 20,400                      |
|                                               | Performance percentage (at 5°F)     |          | 73%                                                                                        | 75%                         | 74%                         | 75%                         | 66%                         | 68%                         | 57%                         | 57%                         |
|                                               | COP2 (at 5°F)                       | W/W      | 1.9                                                                                        | 1.8                         | 1.9                         | 1.8                         | 1.8                         | 2.1                         | 2.1                         | 2.1                         |
| Rated power consumption                       | Max. Heating capacity (at -4°F)     | Btu/h    | 6,100                                                                                      | 7,200                       | 6,100                       | 7,200                       | 11,000                      | 14,600                      | 18,900                      | 20,400                      |
|                                               | Cooling                             | W        | 750                                                                                        | 1,050                       | 750                         | 1,050                       | 1,700                       | 2,080                       | 3,370                       | 3,850                       |
| Rated power current                           | Heating                             | W        | 750                                                                                        | 1,030                       | 750                         | 1,030                       | 1,530                       | 1,800                       | 3,070                       | 3,350                       |
|                                               | Cooling                             | A        | 6.8                                                                                        | 9.5                         | 3.4                         | 4.8                         | 7.7                         | 9.4                         | 15.3                        | 17.4                        |
| Min. circuit ampacity                         | Heating                             | A        | 6.8                                                                                        | 9.3                         | 3.4                         | 4.7                         | 6.9                         | 8.2                         | 14.0                        | 15.2                        |
|                                               |                                     |          |                                                                                            |                             |                             |                             |                             |                             |                             |                             |
| Max. circuit breaker                          |                                     | A        | 16                                                                                         | 17                          | 10                          | 11                          | 12                          | 17                          | 18                          | 18                          |
|                                               |                                     | A        | 25                                                                                         | 25                          | 15                          | 15                          | 20                          | 25                          | 30                          | 30                          |
| Moisture removal                              |                                     | Pint/day | 55                                                                                         | 80                          | 55                          | 80                          | 110                         | 130                         | 140                         | 150                         |
| Refrigerant and room size specifications      | Type                                |          | R454b (A2L rated refrigerant with a lower GWP rating of 466)                               |                             |                             |                             |                             |                             |                             |                             |
|                                               | Amount                              | Ozs      | 23.3                                                                                       | 30.3                        | 23.3                        | 30.3                        | 35.3                        | 45.1                        | 55.7                        | 55.7                        |
|                                               | Sufficiency for max line set length | Ft       | 25                                                                                         | 25                          | 25                          | 25                          | 25                          | 25                          | 25                          | 25                          |
|                                               | Adjustment amount per feet          | Ozs      | 0.11                                                                                       | 0.11                        | 0.11                        | 0.11                        | 0.11                        | 0.11                        | 0.11                        | 0.11                        |
|                                               | Recommended room size               | Sq.Ft    | 250 ~ 350                                                                                  | 350 ~ 500                   | 250 ~ 350                   | 350 ~ 500                   | 500 ~ 750                   | 750 ~ 1,000                 | 900 ~ 1,200                 | 1,100 ~ 1,400               |
|                                               | Minimum room size (unit height 6')  | SqF      | 26                                                                                         | 34                          | 26                          | 34                          | 40                          | 51                          | 63                          | 63                          |
| Air volume and sound level                    |                                     | CFM      | 342/270/235/200/152                                                                        | 342/270/235/200/152         | 342/270/235/200/152         | 342/270/235/200/152         | 617/575/511/411/382         | 847/705/588/470/412         | 847/705/588/470/412         | 847/705/588/470/412         |
|                                               | Turbo/High/Med/Low/Mute             | dB(A)    | 42/40/35/30/28                                                                             | 45/42/35/30/28              | 43/41/36/31/29              | 45/42/35/30/28              | 49/47/42/37/32              | 52/50/44/38/36              | 52/49/43/38/36              | 52/49/43/38/36              |
| Outdoor sound                                 |                                     | dB(A)    | 54                                                                                         | 55                          | 54                          | 55                          | 55                          | 58                          | 63                          | 63                          |
| Connecting pipe                               | Gas                                 | In (OD)  | 3/8"                                                                                       | 3/8"                        | 3/8"                        | 3/8"                        | 3/8"                        | 1/2'                        | 5/8"                        | 5/8"                        |
|                                               | Liquid                              | In (OD)  | 1/4"                                                                                       | 1/4"                        | 1/4"                        | 1/4"                        | 1/4"                        | 1/4"                        | 1/4"                        | 1/4"                        |
|                                               | Standard line set length included   | Feet     | 16                                                                                         |                             |                             |                             |                             |                             |                             |                             |
|                                               | Maximum allowable length            | Feet     | 50                                                                                         | 50                          | 50                          | 50                          | 65                          | 65                          | 100                         | 100                         |
|                                               | Maximum allowable vertical run      | Feet     | 33                                                                                         | 33                          | 33                          | 33                          | 50                          | 50                          | 65                          | 65                          |
| Indoor unit dimensions and weight             | Net unit dimensions (WxDxH)         | Inch     | 31"-7/8 x 8" x 11"-1/2                                                                     | 31"-7/8 x 8" x 11"-1/2      | 31"-7/8 x 8" x 11"-1/2      | 31"-7/8 x 8" x 11"-1/2      | 39"-3/4 x 9" x 12"-3/8      | 46"-7/8 x 10"-1/4 x 14"-1/4 | 46"-7/8 x 10"-1/4 x 14"-1/4 | 46"-7/8 x 10"-1/4 x 14"-1/4 |
|                                               | Carton box dimensions (WxDxH)       | Inch     | 34"-7/8 x 10"-3/4 x 14"-3/8                                                                | 34"-7/8 x 10"-3/4 x 14"-3/8 | 34"-7/8 x 10"-3/4 x 14"-3/8 | 34"-7/8 x 10"-3/4 x 14"-3/8 | 43"-1/8 x 11"-3/4 x 15"-3/8 | 49"-5/8 x 13" x 17"         | 49"-5/8 x 13" x 17"         | 49"-5/8 x 13" x 17"         |
|                                               | Shipping factor                     |          | 0.00135                                                                                    | 0.00135                     | 0.00135                     | 0.00135                     | 0.00208                     | 0.00273                     | 0.00273                     | 0.00273                     |
|                                               | Net unit weight                     | Lbs      | 19.8                                                                                       | 19.8                        | 19.8                        | 19.8                        | 27.6                        | 36.4                        | 39.7                        | 39.7                        |
|                                               | Shipping weight                     | Lbs      | 26.5                                                                                       | 26.5                        | 26.5                        | 26.5                        | 33.7                        | 43.0                        | 48.5                        | 48.5                        |
| Outdoor unit dimensions and weight            | Net unit dimensions (WxDxH)         | Inch     | 31" x 11"-1/2 x 19"-3/8                                                                    | 31" x 11"-1/2 x 19"-3/8     | 31" x 11"-1/2 x 19"-3/8     | 31" x 11"-1/2 x 19"-3/8     | 34" x 13"-3/4 x 23"-3/4     | 36"-1/2 x 14"-7/8 x 27"-1/2 | 38"-1/2 x 16"-1/2 x 31"-5/8 | 38"-1/2 x 16"-1/2 x 31"-5/8 |
|                                               | Carton box dimensions (WxDxH)       | Inch     | 33" x 13"-3/8 x 22"-3/4                                                                    | 33" x 13"-3/8 x 22"-3/4     | 33" x 13"-3/8 x 22"-3/4     | 33" x 13"-3/8 x 22"-3/4     | 35"-1/2 x 16" x 27"         | 37"-3/4 x 17"-1/8 x 30"-1/2 | 40"-1/4 x 18"-7/8 x 32"-7/8 | 40"-1/4 x 18"-7/8 x 32"-7/8 |
|                                               | Shipping factor                     |          | 0.00278                                                                                    | 0.00278                     | 0.00278                     | 0.00278                     | 0.00483                     | 0.00538                     | 0.00699                     | 0.00699                     |
|                                               | Net unit weight                     | Lbs      | 51.8                                                                                       | 55.1                        | 48.5                        | 55.1                        | 70.5                        | 88.2                        | 105.8                       | 105.8                       |
|                                               | Shipping weight                     | Lbs      | 62.8                                                                                       | 66.1                        | 59.5                        | 66.1                        | 82.7                        | 103.6                       | 120.2                       | 120.2                       |
| Connecting cable                              |                                     |          | AWG #16 x 4 Core TC-ER cable                                                               |                             |                             |                             |                             |                             |                             |                             |
| Temperature setting range                     |                                     |          | 62 ~ 86                                                                                    |                             |                             |                             |                             |                             |                             |                             |
| Working ambient temperature range for cooling |                                     |          | 5 ~ 122                                                                                    |                             |                             |                             |                             |                             |                             |                             |
| Temperature setting range for heating         |                                     |          | -4 ~ 86                                                                                    |                             |                             |                             |                             |                             |                             |                             |

Rated cooling performance data is based on standard ARI conditions of **80°F-DB/67°F-WB** Indoor and **95°F** Outdoor ambient conditions. Rated heating performance data is based on standard ARI conditions of **70°F-DB/60°F-WB** Indoor and **47°F** Outdoor ambient conditions. Variable speed inverter systems adjust their output capacity automatically based on actual indoor and outdoor temperatures, thermostat settings and other heating or cooling loads. Capacity of the system output and related power input will vary based on these conditions. System contains A2L refrigerant and the minimal room size data must be strictly adhered to for any standard installation to avoid fire risk. This data assumes the indoor unit installation height of minimum 6 feet from the floor level. Lower levels require larger min. room sizes. **Specifications and data listed herein are subject to change without notice due to constant product and engineering improvements. Always refer to the equipment nameplate for applicable exact information.**