Halcyon

# Wall Mounted High-SEER 9, 12 and 15,000 BTU Systems

**SYSTEMS 9RLS2, 12RLS2, 15RLS2**

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/26/14

**Up to North America's Most Efficient Mini-Splits**

## Energy Saving Program

These Halcyon systems know how to save you money even when you forget. If you leave the room without turning the unit off, ESP knows that you left and 20 minutes later, set temperature is increased by 4°F when cooling and reduced by 8°F when heating. When you come back to the room, it returns to previous operating mode. This prevents wasteful operation to save energy without you having to think about it.

## High Performance Heating

Heating capacity at low outdoor temperatures was improved by adopting a large heat exchanger and a high capacity compressor. Rated heating capacity is maintained up to 20°F. This new model can operate down to -5°F.

## Standard Features

- Wireless Remote Control
- Sleep Timer
- Weekly Timer
- Dry Mode
- Auto Louver: Up/Down
- Auto Mode
- Quiet Mode *(Indoor)*
- Economy Mode
- Low Noise Mode *(Outdoor)*
- Energy Saving Program
- Program Timer
- Auto Restart/Reset
- Auto Changeover*
- Low Ambient Heating
- Apple Catechin Filter
- Ion Deodorizing Filter
- Minimum Heat (50°F/10°C)
- Powerful Operation Mode

## Optional Accessories

- Wired Remote Controller: UTY-RNNYM
- Simple Remote Controller: UTY-RSNYM
- Communication Kit: UTY-TWBXF

*Auto Changeover (Heating to Cooling or Vice Versa) automatically alternates between heating or cooling if the room temperature falls 4°F below the set temperature when cooling or rises 4°F above set temperature when heating. Auto changeover is not designed to provide rapid changes between heating and cooling operation or simultaneous heating and cooling.

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## Slim & Compact

Up to 25% slimmer than the competing units.

### INDOOR UNIT DIMENSIONS

### OUTDOOR UNIT DIMENSIONS

## 3 Mode Timer (Weekly/Program/Sleep)

Weekly timer can be easily set by wireless remote controller. ON, OFF can be set up to 4 times in one day and up to 28 times in one week. For other modes, program timer and sleep timer can also be selected by pushing a single button.

## Minimum Heat Operation

The room temperature can be set to go no lower than 50°F, thus ensuring that the room temperature does not get too cold when not occupied.

Caution: When the room temperature is higher than 50°F, minimum heat operation does not start. Operation starts and maintains the room temperature at 50°F for 48 hours when the temperature drops below 50°F. When minimum heat operation stops, the room set temperature quickly returns to the pre-set temperature.

## High Performance Heating

*See front page for 12RLS2 chart

| | 9RLS2 Heat Pump | | | | | |
|---|---|---|---|---|---|---|
| Nominal Cooling *BTU/h* | 9,000 | | | | | |
| Min.~Max. Cooling *BTU/h* | 3,100~12,000 | | | | | |
| Nominal Heating *BTU/h* | 12,000 | | | | | |
| Min.~Max. Heating *BTU/h* | 3,100~22,000 | | | | | |
| HSPF *BTU/hW* | 12.5 | | | | | |
| SEER *BTU/hW* | 27.2 | | 25.0 | | 21.5 | |
| EER *Clg/Htg* | 16.1/15.0 | | 13.8/13.3 | | 12.0/13.3 | |
| Clg. Operating Range °F(°C) | 14~115 (-10~46) | | 14~115 (-10~46) | | 14~115 (-10~46) | |
| Htg. Operating Range °F(°C) | -5~75 (-21~24) | | -5~75 (-21~24) | | -5~75 (-21~24) | |
| Moisture Removal *Pt./h(l/h)* | 2.75 (1.3) | | 3.8 (1.8) | | 4.44 (2.1) | |
| Voltage/Frequency/Phase | 208-230/60/1 | | 208-230/60/1 | | 208-230/60/1 | |
| Recommended Fuse Size *(A)* | 20 | | 20 | | 20 | |
| Air Circ. *C.F.M. ($m^3/h$)*: Hi | 500 (850) | | 500 (850) | | 530 (900) | |
| Medium | 394 (670) | | 394 (670) | | 436 (740) | |
| Low | 324 (550) | | 324 (550) | | 336 (570) | |
| Quiet | 194 (330) | | 194 (330) | | 229 (390) | |
| Noise Level *dB(A)*: Hi | 43/43 | | 43/43 | | 45/45 | |
| Medium | 37/38 | | 37/38 | | 40/40 | |
| Low | 32/32 | | 32/32 | | 33/34 | |
| Quiet | 21/21 | | 21/21 | | 25/27 | |
| Outdoor Fan Speed *RPM Clg/Htg* | 780/780 | | 870/780 | | 870/780 | |
| Outdoor Noise Level *dB(A)* | 48/49 | | 49/50 | | 51/51 | |
| Current *Rated (A)*: Cooling | 2.7 | | 4.0 | | 5.5 | |
| Heating | 3.7 | | 5.5 | | 6.1 | |
| Power Use *Rated (kw)*: Cooling | .56 | | .87 | | 1.21 | |
| Heating | .80 | | 1.20 | | 1.35 | |
| Fan Speeds *Stage* | 4+Auto | | 4+Auto | | 4+Auto | |
| Air Direction: *Horizontal* | Manual | | Manual | | Manual | |
| Vertical | Auto | | Auto | | Auto | |
| Air Filter | Washable | | Washable | | Washable | |
| Apple Catechin Filter | Yes | | Yes | | Yes | |
| Connection Method | Flare | | Flare | | Flare | |
| Combined Max. Lgth *Ft (m)* | 66 (20) | | 66 (20) | | 66 (20) | |
| Max. Vertical Diff. *Ft (m)* | 49 (15) | | 49 (15) | | 49 (15) | |
| Conn. Pipe Diameter *Inch* | Suc. 3/8 | Dis. 1/4 | Suc. 3/8 | Dis. 1/4 | Suc. 1/2 | Dis. 1/4 |
| Net Weight *lbs. (kg)* | 21 (9.5) | 88 (40) | 21 (9.5) | 88 (40) | 21 (9.5) | 88 (40) |
| Dimensions: Height *Inch* | 11-1/8 13-1/4* | 24-13/32 | 11-1/8 13-1/4* | 24-13/32 | 11-1/8 13-1/4* | 24-13/32 |
| *mm* | 282/337* | 620 | 282/337* | 620 | 282/337* | 620 |
| Width *Inch* | 34-1/4 | 31-3/32 | 34-1/4 | 31-3/32 | 34-1/4 | 31-3/32 |
| *mm* | 870 | 790 | 870 | 790 | 870 | 790 |
| Depth *Inch* | 7-1/4 | 11-13/32 | 7-1/4 | 11-13/32 | 7-1/4 | 11-13/32 |
| *mm* | 185 | 290 | 185 | 290 | 185 | 290 |
| *Refrigerant* | R410A | | R410A | | R410A | |
| | Indoor ASU9RLS2 | Outdoor AOU9RLS2 | Indoor ASU12RLS2 | Outdoor AOU12RLS2 | Indoor ASU15RLS2 | Outdoor AOU15RLS2 |

Note: Figures are based on 230 Volts.
*Height when front panel is open.

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Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit www.energystar.gov.

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Part #6-26-FG2039 Rev. 1/12