

Date: 2/14/2020

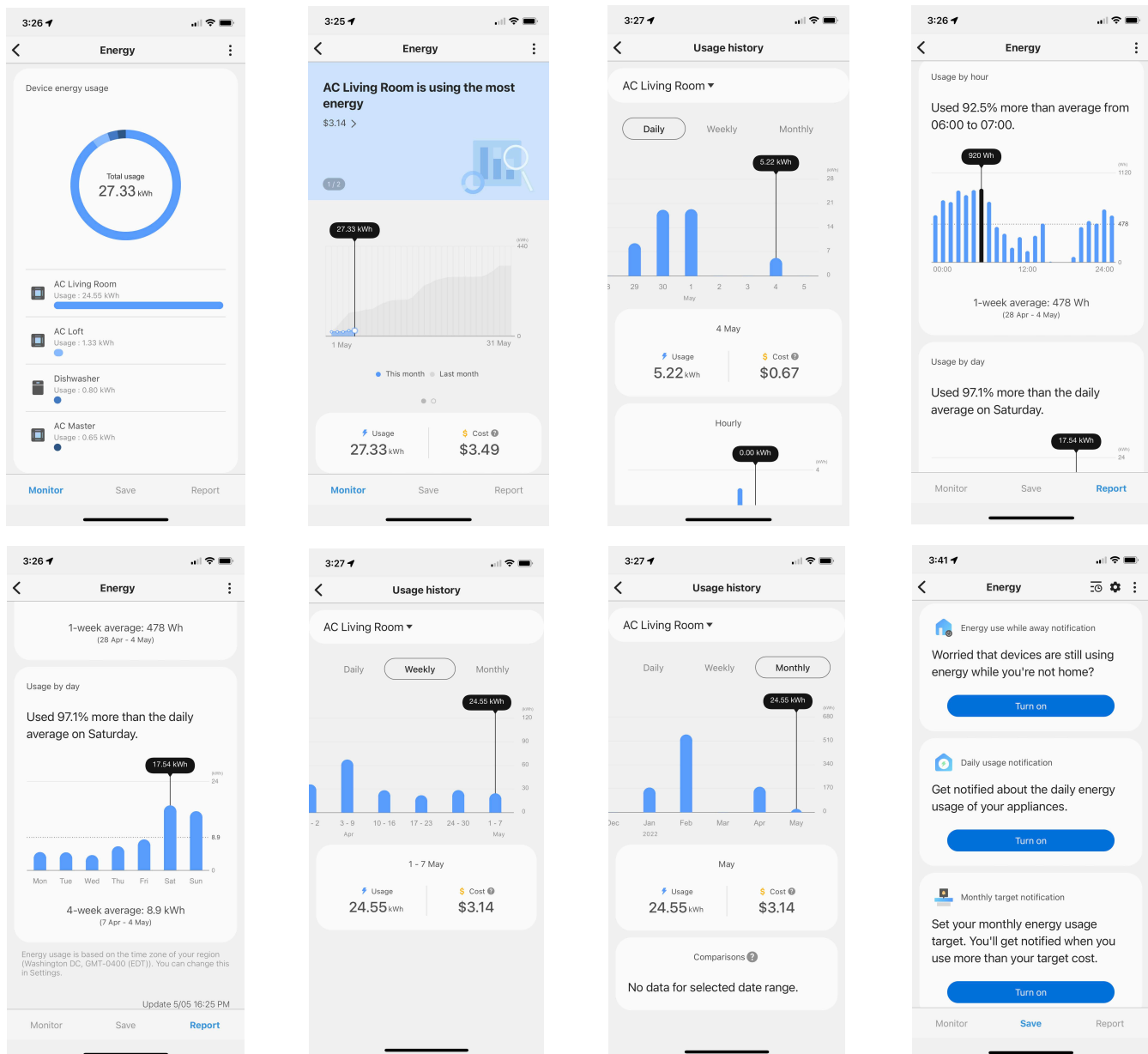
Subject: SmartThings App and Energy Monitoring Function and System Compatibility

Models: Single Zone, Multi-zone, DVM S Chiller, and VRF Systems



## SmartThings App: Energy Monitor Function and System Compatibility

During standard operation Samsung outdoor units constantly monitor unit voltage and current. This is done for inverter control functions but to also ensure that the system is operating a safe voltage and current range. When systems are configured and connected to Wi-Fi, energy data may be viewed using the Samsung SmartThings app. WindFree™ 2.0, WindFree™ 2.0e, Max Heat 2.0, and Quantum 2.0 wall-mount units also support simple consumption viewing via the indoor unit display when connected to a single RAC outdoor unit (refer to the indoor unit User Manual for instructions). Energy use data is not revenue grade but is very accurate. Users can view daily, weekly and monthly energy trends.



Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

### System Compatibility

See the table below for Energy Monitor function system compatibility and software version requirements.

| System Type      | Outdoor Model  | Main DB Code | Version (date applied or newer) <sup>1</sup> |              |                 | Note  |
|------------------|--|--------------|--|--------------|-----------------|---|
|                  |  |              | Main   | Inverter     | EEPROM          |   |
| DVM S Eco        | Heat Pump (AM0**FXMDCH/AA, AM060MXMDCH/AA, AM0**TXMDCH/AA) | DB91-01541B  | 150915                                       | 150731       | All versions    |   |
|                  | Heat Recovery (AM0**NXMDCH/AA)                             |              | All versions                                 |              |                 |   |
| DVM S            | DVM S (HP and HR)  | DB91-01639A  | 141129                                       | 141126       | Model dependent | Starting in 2016 all DVM S models applied this function |
|                  |  | DB91-01741A  | All versions                                 | 141126       |                 |   |
|                  |  | DB91-01928A  | All versions                                 | 141126       |                 |   |
|                  | DVM S Water (1 and 3 phase)                                | DB91-01544A  | 150925                                       | 141126       | 151115          |   |
|                  |  | DB91-01797A  | All versions                                 |              |                 |   |
|                  | DVM Chiller  | DB91-01780A  | All versions                                 |              |                 |   |
|                  |  | DB91-01744A  | All versions                                 |              |                 |   |
| DVM S2           | Heat Pump and Heat Recovery (AM***BXVG**/AA)               |              | All versions                                 |              |                 |   |
| CAC              | Standard (AC0**JXADCH/AA, AC0**KXADCH/AA)                  | DB91-01636A  | 150616                                       | All versions |                 |   |
|                  | Max Heat® (AC03**JXSCCH/AA)                                | DB91-01635A  | 150617                                       | 150731       | All versions    |   |
|                  | Low Ambient Cooling (AC0**MXSCCH/AA)                       | DB91-01898A  | All versions                                 |              |                 |   |
|                  | Standard (AC0**BXADCH/AA)                                  |              | All versions                                 |              |                 |   |
|                  | Max Heat® (AC03**BXSCCH/AA)                                |              | All versions                                 |              |                 |   |
|                  | Low Ambient Cooling (AC0**BXSCCH/AA)                       |              | All versions                                 |              |                 |   |
| RAC              | WindFree™ 2.0 (AR**TSFABWKXCV)                             |              | All versions                                 |              |                 |   |
|                  | WindFree™ 2.0e (AR**BSFCMWKXCV)                            |              | All versions                                 |              |                 |   |
|                  | Quantum 2.0 (AR**TSFYBWKXCV)                               |              | All versions                                 |              |                 |   |
|                  | Max Heat® 2.0 (AR**TSFACWKXCV, AR15BSFACWKXCV)             |              | All versions                                 |              |                 |   |
|                  | Max 36K (AR36BSHUMGMXCV)                                   |              | All versions                                 |              |                 |   |
| FJM <sup>2</sup> | AJ0**TXJ*CH/AA (Standard)                                  |              | All versions                                 |              |                 |   |
|                  | AJ0**TXS*CH/AA (Max Heat®)                                 |              | All versions                                 |              |                 |   |
|                  | AJ0**BXJ*CH/AA (Standard)                                  |              | All versions                                 |              |                 |   |
|                  | AJ0**BXS*CH/AA (Max Heat®)                                 |              | All versions                                 |              |                 |   |

<sup>1</sup> The version code notes the date that it was applied (YYMMDD). For example, "150915" = September 15, 2015

<sup>2</sup> When connecting RAC indoor units (AR\*\*\*\*\*NCV) to FJM outdoor units (AJ0\*\*\*X\*\*CD/AA) energy consumption reporting is not available, only standard control and monitoring. For energy reporting of FJM systems, an accessory Wi-Fi adapter is required. Refer to supporting FJM outdoor unit documents for Wi-Fi accessory model numbers.

\*The Wind-Free™ unit delivers an air current that is under 0.15 m/s while in Wind-Free™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE 55-2013 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).