## ^IRSTAGE

## FUjITSU

## Extended Warranty Report Airstage VU-V

Heat Pump \& Heat Recovery VRF Systems
6 through 36 tons
208/230/3 phase


To be completed by the Installing Contractor
Electronic completion only- Adobe Acrobat Reader required to complete

## nirst^ge VU-V

## Heat Pump \& Heat Recovery Extended Warranty Report - 208/230 VAC

Please complete all entries. Please refer to the outdoor and indoor unit Installation Manual(s) as needed.
Please email the completed Extended Warranty Report and project installation photos to: commissioning@fujitsugeneral.com
PLEASE COMPLETE THIS PAGE ONCE PER PROJECT

| System Owner |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Address |  |  | Phone |  |
| City, State |  |  | State |  |
| Installing Contractor |  |  |  |  |
| Address |  |  | Phone |  |
| Email |  |  |  |  |
| Fujitsu Distributor or Rep. |  |  |  |  |
| Report completed by: |  |  | Phone |  |
| Email |  |  | Date |  |
| Outdoor unit total | 1 | System type Heat Recovery |  |  |
| Indoor unit total | 1 |  |  |  |


| OUTDOOR UNIT SETUP-ALL SYSTEMS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | YES | NO |  | YES | NO |
| Outdoor unit(s) level, +/-3 ${ }^{\circ}$ ? |  |  | "Fujitsu Pink" cable used for all ODU and IDU communication wiring? |  |  |
| ALL outdoor unit minimum clearances met? |  |  | H1 \& H2 cable- Primary to subordinate unit(s)? (2 \& 3 ODU systems only) |  |  |
| HEAT PUMP-(2) service valves open ONLY? |  |  | DIP SW. SET1 \& SET4 in their factor default settings? |  |  |
| HEAT RECOVERY- ALL (3) service valves open? |  |  | DIP SW. SET 2, SET 3 \& SET 5 correctly adjusted per system? |  |  |
| Total refrigerant charge written on inside unit cover? |  |  | Power ON at least (12) hours before start up? |  |  |


| REFRIGERANT PIPING LENGTHS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ACTUAL PIPE LENGTH |  |  | HEIGHT DIFFERENCE (STRAIGHT LINE MEASUREMENT) |  |  |
|  | YES | NO |  | YES | NO |
| ODU to Branch Kit $\leq 9 \mathrm{ft}$.? |  |  | ODU to IDU $\leq 164 \mathrm{ft}$. ? (ODU ABOVE IDU) |  |  |
| Farthest ODU (S2) and first Branch Kit $\leq 39 \mathrm{ft}$.? (3 ODUs only) |  |  | ODU to IDU $\leq 131 \mathrm{ft}$.? (ODU BELOW IDU) |  |  |
| ODU to farthest IDU < 541 ft .? |  |  | Maximum height difference between indoor units $\leq 49 \mathrm{ft}$.? |  |  |
| First Separation Tube to farthest IDU $\leq 295 \mathrm{ft}$.? |  |  | Maximum height difference between outdoor units $\leq 1 \mathrm{ft}$ ?? |  |  |
| Nearest IDU to farthest IDU $\leq 196 \mathrm{ft}$ ? |  |  | Max. height difference between RBU and IDUs $\leq 16 \mathrm{ft}$ ? (Heat Recovery) |  |  |
| Total liquid pipe length $\leq 3,280 \mathrm{ft}$.? |  |  | Max. height difference between RBUs $\leq 49 \mathrm{ft}$.? (Heat Recovery) |  |  |
| Installed lengths entered into Design Simulator? (As-Built) |  |  | ODU arrangement- Primary $\geq$ Subordinate $1 \geq$ Subordinate 2? |  |  |


| REFRIGERANT PIPING - ALL SYSTEMS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | YES | NO |  | YES | NO |
| All refrigerant piping properly supported and insulated? |  |  | nitrogen purge provided during brazing? |  |  |
| Any refrigerant piping traps installed? |  |  | Did the 600 PSIG piping pressure test hold for at least 24 hours? |  |  |
| Liquid line drier installed ? |  |  | ALL flare and pipe fittings tested for leaks? |  |  |
| Vapor line (suction) drier installed? |  |  | Vacuum level of at least 500 microns obtained and held for 60 minutes? |  |  |
| Drier, if used, installed in a bypass line? |  |  | Indoor unit Separation Tubes and/or Headers in their correct orientation? |  |  |
| Compression fittings used? |  |  | Compression fittings (IF used) rated for 1,800 PSIG burst pressure? |  |  |

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Heat Pump \& Heat Recovery Extended Warranty Report - 208/230 VAC
PLEASE COMPLETE THIS PAGE ONCE PER REFRIGERANT CIRCUIT


| OUTDOOOR UNIT BRANCH KIT AND INDOOR UNIT SEPARATION TUBE (OR HEADER) ANGULAR CHECK |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OUTDOOR UNIT |  |  | INDOOR UNIT |  |  |
|  | YES | NO |  | YES | No |
| Branch Kit within $10^{\circ}$ parallel to the ground? |  |  | Separation Tube vertical OR within $15^{\circ}$ parallel to the ground? |  |  |
| Branch Kit installed vertically? |  |  | Header (if used) branch lines within $10^{\circ}$ parallel to the ground? |  |  |
|  |  |  | Header (if used) tube flat within $1^{\circ}$ parallel to the ground? |  |  |



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Heat Pump \& Heat Recovery Extended Warranty Report - 208/230 VAC

# PLEASE COMPLETE THIS PAGE ONCE PER REFRIGERANT CIRCUIT 

| REFRIGERANT SYST | \# 00 |  | SYSTEM TYPE Heat Recovery |  |  |  |  | LOCATION (OPTIONAL) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Outdoor Unit M/N | Serial Number | REF AD | Outdoor Unit DIP SW SET Settings (DEFAULT position shown) CLICK DIP SW to change |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 2-1 | 2-2 | System type | 2-4 | UTY-SPWX | 3-1 | 3-2 | ODU Function | 3-3 | 3-4 | ODU Qty. | 5-1 | 5-4 | Resistance at X1 \& X2 |
|  |  | 00 | $\begin{array}{\|c\|c\|} \hline \text { ON } \\ \text { OFF } \end{array}$ | ON | Heat Recovery | ON | Not used | ON | ON | Primary | ON | ON OFF | Primary | ON OFF | ON | $\Omega$ |
| ----------- |  | 00 | $\begin{array}{\|c\|} \hline \text { ON } \\ \text { OFF } \end{array}$ | $\begin{array}{\|c\|} \hline \text { ON } \\ \text { OFF } \end{array}$ | N/A | ON | Not used | ON | ON | Subordinate 1 |  |  |  | On |  |  |
| ----------- |  | 00 | ${ }_{\text {ON }}$ | ON | N/A | ON | Not used | ON | ON | Subordinate 2 |  |  |  | ON <br> OFF |  |  |


| Indoor Unit M/N | Serial Number | REF AD | IU AD | RC AD | Aux. heat? | SET 2-3 | Function Settings |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | \# | Setting | \# | Setting | \# | Setting | \# | Setting | \# | Setting |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 00 | 0 | No | OFF |  |  |  |  |  |  |  |  |  |  |

Heat Pump \& Heat Recovery Extended Warranty Report - 208/230 VAC
PLEASE COMPLETE THIS PAGE ONCE PER REFRIGERANT CIRCUIT
REFRIGERANT SYSTEM \# $00 \quad$ SYSTEM TYPE Heat Recovery $\quad$ LOCATION (OPTIONAL)

| Pipe length between Primary outdoor unit and NEAREST indoor unit | ft |
| :--- | :--- | :--- |


| Num. | Description | Setting Value | Num. | Description | Setting Value |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | Pipe length between Primary ODU and NEAREST IDU | 00 | 29 | ODU 7-segment pressure display (Mpa or PSI) | 00 |
| 10 | Sequential Start Shift | 00 | 30 | Energy Saving Level (External input only) | 00 |
| 11 | Cooling Capacity Shift (Suction pressure adjust) | 00 | 32 | Factory default- do not adjust | 00 |
| 12 | Heating Capacity Shift (Discharge pressure adjust) | 00 | 33 |  |  |
| 13 | Factory default- do not adjust | 00 | 35 | IDU aux. heat selection method (enable for 36 \& 37) | 00 |
| 14 |  |  | 36 | Outdoor unit HEATING low temperature lockout | 00 |
| 15 |  |  | 37 | IDU auxiliary heat balance point | 00 |
| 17 | IDU height difference (Heat Recovery only) | 00 | 40 | Low Noise operation priority selection | 00 |
| 19 | Factory default- do not adjust | 00 | 41 | Low Noise operation (enables settings 40 \& 42) | 00 |
| 20 | Emergency or Batch Stop selection (Ex. Input only) | 00 | 42 | Low Noise operation dB(A) reduction level | 00 |
| 21 | Mode changeover selection | 00 | 50 | Factory default- do not adjust | 00 |
| 22 | Snowfall protection (Fan cycling when ODU is OFF) | 00 | 53 | Intelligent Refrigerant Control** | 00 |
| 23 | Snowfall protection interval selection | 00 | 54 | Factory default- do not adjust | 00 |
| 24* | Static Pressure selection for discharge air ducting | 00 | 61 |  |  |
| 25 | Factory default- do not adjust | 00 | 62 |  |  |
| 26 |  |  | 63 |  |  |
| 27 |  |  | 70 | Elect. Charge Apportionment Wattmeter Setting (1) | 00 |
| 28 | ODU 7-segment temperature display ( C or F ) | 00 | 73 | Elect. Charge Apportionment Wattmeter Setting (2) | 00 |

NOTE- ALL OUTDOOR FUNCTION SETTINGS ABOVE ARE CONFIGURED AT THE PRIMARY ODU
*- SET THIS FUNCTION SETTING ON SUBORDINATE UNIT 1 AND 2 (WHEN USED)
**- IRC APPLICABLE TO -TLAV2 AND NEWER INDOOR UNITS (00- ENABLE, 01 -DISABLE)

## nirst^ge VU-V

Heat Pump \& Heat Recovery Extended Warranty Report - 208/230 VAC
PLEASE COMPLETE THIS PAGE FOR HEAT RECOVERY ONLY- ONCE PER REFRIGERANT CIRCUIT

| REFRIGERANT SYSTEM \# | 00 | SYSTEM TYPE Heat Recovery |
| :--- | :--- | :--- | :--- |


| Refrigerant Branch Unit (RBU) Model Number | Serial Number | REF AD | RB AD | Comments: |
| :---: | :---: | :---: | :---: | :---: |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  | 00 | 00 |  |
| ----------- |  |  | 00 |  |
| ------------ |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |
| ----------- |  |  | 00 |  |


| REFRIGERANT BRANCH KIT UNIT (RBU) CHECK - HEAT RECOVERY INSTALLATION ONLY |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| INSTALLATION |  |  | ELECTRICAL |  |  |
|  | YES | NO |  | YES | NO |
| Horizontal position $+/-2^{\circ}$ parallel to the ground? |  |  | Maximum breaker 15A? |  |  |
| Maintenance clearances met for front cover removal? |  |  | Measured voltage at the RBU between 187-253 VAC? (L1-L2(N) |  |  |
| All other minimum clearances met? |  |  | Comm- X1 \& X2 between OUT/RB and other RBU or ODU? |  |  |
| IDU connected to port farthest from RBU inlet piping? |  |  | Comm- X1 \& X2 between IU/U and IDU? |  |  |
| Discharge and Suction lines correctly identified? |  |  | Comm-Shield ground connected to each ground terminal? |  |  |
| Unused pinch pipes properly sealed? |  |  |  |  |  |


| REFRIGERANT BRANCH KIT UNIT (RBU) DIP SWITCH POSITIONING |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SET 1 |  | Description | SET 2 |  | Description |
| 1 | OFF | Factory position only - Do not adjust. | 1 | $\square_{\text {OFF }}^{\text {ON }}$ | Determines IDU operating priority |
| 2 | OFF |  | 2 | - ${ }_{\text {Of }}^{\text {Of }}$ | Determines IDU operating priority |
| 3 | OFF |  | 3 | $\\|_{\text {OFF }}^{\text {ON }}$ |  |
|  |  |  | 4 | - $\begin{gathered}\text { ON } \\ \text { OFF }\end{gathered}$ | Determines IDU changeover time |


| BRANCH MERGING - 8 \& 12 BRANCH MODELS ONLY - COMPLETE ONLY WHEN MERGING IS USED |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Branch ID | Branch combination(s) | DIP SW S300 |  |  | Terminal Block connection | Rotary Switch (RBU AD) | Comments |
|  |  | 1 | 2 | 3 |  |  |  |
| A-D | --- | $\begin{gathered} \hline \text { ON } \\ \text { OFF } \end{gathered}$ | $\overline{\substack{\text { ON } \\ \text { OFF }}}$ | ON | ----------- | ----------- |  |
| E-H | ------ | $\begin{gathered} \hline \text { ON } \\ \text { OFF } \end{gathered}$ | $\begin{gathered} \hline \text { ON } \\ \text { OFF } \end{gathered}$ | ON | ----------- | ----------- |  |
| I-L | -------- | ON | ON | ON | ----------- | ----------- |  |

