FUJITSU

Extended Warranty Report

And Test Run Data Collection Instructions

J-SERIES

Variable Refrigerant Flow Systems

J-IVS™ J-IV™

To be completed by the installing contractor for Pre-Commissioning

TO BE SUBMITTED ELECTRONICALLY

Adobe Acrobat Reader required to complete

J-SERIES *Extended Warranty Report*

FUJITSU

Please complete entries on all pages. Refer to the outdoor and indoor unit "Installation Manual" as needed.

Please email completed Registration Report to http://contractors.fujitsugeneral.com/registration

System Owner			
Address			
		Phone	
Email (Optional)			
Installing contractor			
Address			
		Phone	
Fujitsu Distributor or Rep			
Report Completed By		Phone	
Email		Date	
Outdoor unit total	1		
Indoor unit total	1		

OUTDOOR UNIT SETUP					
	YES	NO		YES	NO
Unit elevated 2" above ground or anticipated snow level?	☐	☐	DIP sw. SET1, SET2, SET3 & SET4 factory default setting?	☐	☐
Unit is level, +/- 3°?	☐	☐	DIP switch SET5-4 ON? Note: (1) ON per network segment	☐	☐
All minimum unit clearances met?	☐	☐	X1 & X2 resistance check: Between 45 and 60 Ω?	☐	☐
Liquid and vapor service valves open completely?	☐	☐	Total Refrigerant Charge written on inside cover?	☐	☐
Is proper drainage provided at the unit bottom?	☐	☐	Power ON at least (12) hours before start up?	☐	☐

REFRIGERANT PIPING					
	YES	NO		YES	NO
All refrigerant piping properly supported?	☐	☐	Was a nitrogen purge provided during brazing?	☐	☐
All refrigerant lines insulated, without any gaps?	☐	☐	Did a pressure test of 600 PSIG hold for (24) hours?	☐	☐
Any refrigerant piping traps installed?	☐	☐	All flare and braze connections tested for leaks?	☐	☐
Liquid line drier installed with bypass? (Heating start only)	☐	☐	Did vacuum level hold 500 microns or less for 60 minutes?	☐	☐
Vapor line (suction) drier installed with bypass?	☐	☐	Separation Tube and Headers in their correct orientation?	☐	☐

START UP			FUNCTION CODE F2:00 (J-IV SYSTEMS ONLY)		
	YES	NO	Pipe **length between OD unit to nearest ID unit		ft.
"Indoor Unit Connection Check" performed? (F3:12)	☐	☐		YES	NO
Any system errors at OU 7 segment display?	☐	☐	**Length IS between 131 and 213 ft. **F2:00:00**	☐	☐
Condensate line(s) draining properly?	☐	☐	**Length less than 131 ft. **F2:00:01**	☐	☐
			Length is between 213 and 295 ft. **F2:00:02	☐	☐
	☐	☐	**Length greater than 295 ft. **F2:00:03**	☐	☐

J-SERIES *Extended Warranty Report*

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Please complete this page for each refrigerant system.

System #		1
Outdoor Unit Model Number	Serial Number	REF AD

Indoor Unit Model Number	Serial Number	REF AD	IU AD

REFRIGERANT CHARGE CALCULATION								
Liquid pipe length		Refrigerant per foot	Total	Factory Charge Per Unit		Total System Charge		
	A	B	A X B	AOU36/48RLAVS4	8.82 lb.	(Total Additional Refrigerant + Factory Charge)	lbs.	
1 /4"	0	.014 lb./ft.	0.0 lb.	AOU36RLAVM4	10.6 lb.	Total System Charge less than limit?	YES	NO
3 /8"	0	.039 lb./ft.	0.0 lb.	AOU48/60RLAVM4	11.7 lb.	AOU**RLAV**S4** (J-IVS) 15.0 lbs. MAXIMUM	☐	☐
Total Additional Refrigerant			0.00 lb.			AOU**RLAV**M4** (J-IV) 34.61 lbs. MAXIMUM	☐	☐

ACTUAL PIPE LENGTH		
	YES	NO
OU to first Separation Tube (or Header) ≥ 9 ft.?	☐	☐
OU to nearest indoor unit ≥ 16 ft.?	☐	☐
OU to farthest IU (≤393 ft. J-IV ?) (≤164 ft. J-IVS ?)	☐	☐
First Separation Tube to farthest indoor unit ≤131 ft.?	☐	☐
Total liquid pipe length (≤590 ft. J-IV?) (≤262 ft. J-IVS)	☐	☐

HEIGHT DIFFERENCE (STRAIGHT LINE MEASUREMENT)		
	YES	NO
J-IV OD unit to ID unit ≤164 ft. (OD unit ABOVE ID units)	☐	☐
J-IV OD unit to ID unit ≤131 ft. (OD unit BELOW ID units)	☐	☐
J-IVS OD unit to ID unit ≤98 ft. (OD unit ABOVE ID units)	☐	☐
J-IVS OD unit to ID unit ≤98 ft. (OD unit BELOW ID units)	☐	☐
Maximum distance between indoor units ≤49 ft.?	☐	☐

Maximum Circuit Breaker Setting for 3 & 4 Ton System	20A	30A
	☐	☐

For Technical assistance, please contact:
- ✓ Your Fujitsu distributor
- ✓ Fujitsu Service Hotline (888) 888-3424 or (973) 575-0380
- ✓ Fujitsu Technical Support email servicehvac@fujitsugeneral.com

Fujitsu General America Incorporated
340 Changebridge Road
Pine Brook, NJ 07058

J-SERIES *Extended Warranty Report*

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Please complete this page for each refrigerant system.

System #		1
Outdoor Unit Model Number	Serial Number	REF AD

Indoor Unit Model Number	Serial Number	REF AD	IU AD

REFRIGERANT CHARGE CALCULATION								
Liquid pipe length		Refrigerant per foot	Total	Factory Charge Per Unit		Total System Charge		
	A	B	A X B	AOU36/48RLAVS4	8.82 lb.	(Total Additional Refrigerant + Factory Charge)	lbs.	
1 /4"	0	.014 lb./ft.	0.0 lb.	AOU36RLAVM4	10.6 lb.	Total System Charge less than limit?	YES	NO
3 /8"	0	.039 lb./ft.	0.0 lb.	AOU48/60RLAVM4	11.7 lb.	AOU**RLAV**S4** (J-IVS) 15.0 lbs. MAXIMUM	☐	☐
Total Additional Refrigerant			0.00 lb.			AOU**RLAV**M4** (J-IV) 34.61 lbs. MAXIMUM	☐	☐

ACTUAL PIPE LENGTH		
	YES	NO
OU to first Separation Tube (or Header) ≥ 9 ft.?	☐	☐
OU to nearest indoor unit ≥ 16 ft.?	☐	☐
OU to farthest IU (≤393 ft. J-IV?) (≤164 ft. J-IVS?)	☐	☐
First Separation Tube to farthest indoor unit ≤131 ft.?	☐	☐
Total liquid pipe length (≤590 ft. J-IV?) (≤262 ft. J-IVS)	☐	☐

HEIGHT DIFFERENCE (STRAIGHT LINE MEASUREMENT)		
	YES	NO
J-IV OD unit to ID unit ≤164 ft. (OD unit ABOVE ID units)	☐	☐
J-IV OD unit to ID unit ≤131 ft. (OD unit BELOW ID units)	☐	☐
J-IVS OD unit to ID unit ≤98 ft. (OD unit ABOVE ID units)	☐	☐
J-IVS OD unit to ID unit ≤98 ft. (OD unit BELOW ID units)	☐	☐
Maximum distance between indoor units ≤49 ft.?	☐	☐

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Please complete this page for each refrigerant system.

System #		2
Outdoor Unit Model Number	Serial Number	REF AD

Indoor Unit Model Number	Serial Number	REF AD	IU AD

REFRIGERANT CHARGE CALCULATION							
Liquid pipe length		Refrigerant per foot	Total	Factory Charge Per Unit		Total System Charge	
	A	B	A X B	AOU36/48RLAVS4	8.82 lb.	(Total Additional Refrigerant + Factory Charge)	lbs.
1 /4"	0	.014 lb./ft.	0.0 lb.	AOU36RLAVM4	10.6 lb.	Total System Charge less than limit?	YES / NO
3 /8"	0	.039 lb./ft.	0.0 lb.	AOU48/60RLAVM4	11.7 lb.	AOU**RLAV**S4** (J-IVS) 15.0 lbs. MAXIMUM	☐ / ☐
Total Additional Refrigerant			0.00 lb.			AOU**RLAV**M4** (J-IV 34.61 lbs. MAXIMUM	☐ / ☐

ACTUAL PIPE LENGTH	YES	NO
OU to first Separation Tube (or Header) ≥ 9 ft.?	☐	☐
OU to nearest indoor unit ≥ 16 ft.?	☐	☐
OU to farthest IU (≤393 ft. J-IV?) (≤164 ft. J-IVS?)	☐	☐
First Separation Tube to farthest indoor unit ≤131 ft.?	☐	☐
Total liquid pipe length (≤590 ft. J-IV?) (≤262 ft. J-IVS)	☐	☐

HEIGHT DIFFERENCE (STRAIGHT LINE MEASUREMENT)	YES	NO
J-IV OD unit to ID unit ≤164 ft. (OD unit ABOVE ID units)	☐	☐
J-IV OD unit to ID unit ≤131 ft. (OD unit BELOW ID units)	☐	☐
J-IVS OD unit to ID unit ≤98 ft. (OD unit ABOVE ID units)	☐	☐
J-IVS OD unit to ID unit ≤98 ft. (OD unit BELOW ID units)	☐	☐
Maximum distance between indoor units ≤49 ft.?	☐	☐

Maximum Circuit Breaker Setting for 3 & 4 Ton System	20A	30A
	☐	☐

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Please complete this page for each refrigerant system.

System #		3
Outdoor Unit Model Number	Serial Number	REF AD

Indoor Unit Model Number	Serial Number	REF AD	IU AD

REFRIGERANT CHARGE CALCULATION								
Liquid pipe length		Refrigerant per foot	Total	Factory Charge Per Unit		Total System Charge		
	A	B	A X B	AOU36/48RLAVS4	8.82 lb.	(Total Additional Refrigerant + Factory Charge)	lbs.	
1 /4"	0	.014 lb./ft.	0.0 lb.	AOU36RLAVM4	10.6 lb.	Total System Charge less than limit?	YES	NO
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OU to nearest indoor unit ≥ 16 ft.?	☐	☐
OU to farthest IU (≤393 ft. J-IV?) (≤164 ft. J-IVS?)	☐	☐
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Total liquid pipe length (≤590 ft. J-IV?) (≤262 ft. J-IVS)	☐	☐

HEIGHT DIFFERENCE (STRAIGHT LINE MEASUREMENT)		
	YES	NO
J-IV OD unit to ID unit ≤164 ft. (OD unit ABOVE ID units)	☐	☐
J-IV OD unit to ID unit ≤131 ft. (OD unit BELOW ID units)	☐	☐
J-IVS OD unit to ID unit ≤98 ft. (OD unit ABOVE ID units)	☐	☐
J-IVS OD unit to ID unit ≤98 ft. (OD unit BELOW ID units)	☐	☐
Maximum distance between indoor units ≤49 ft.?	☐	☐

Maximum Circuit Breaker Setting for 3 & 4 Ton System	20A	30A
	☐	☐

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Fujitsu J-Series Single Phase
Test Ruin Data Collection
for (10) Year Extended Parts Warranty

Congratulations on your Fujitsu J-Series Heat Pump system installation! The purpose of this document is to provide commissioning data collection instructions, in order to provide a (10) Year Extended Warranty on factory Parts and the Compressor. In order to protect your customers investment, please complete the following steps for Test Run data (Commissioning data) collection:

Step 1- Visual inspection

Step 2- Test Run Initiation

Step 3- Create "Quick Report"

Step 4- Save Test Run data

Step 5- Return Documentation

Please contact your local Fujitsu Distributor or Rep for assistance if you are uncertain how to use the "Service Tool" software or are working on a 3 phase Airstage system.

Step 1 – Visual inspection

The entire project must be visually inspected, and documented within the system "Extended Warranty Report", to ensure all equipment and components are installed within the scope of the applicable Installation Manual. Any deficiencies must be corrected prior to commissioning.

For a complete list of inspection points, please refer to the "Service Manual" of the installed system.

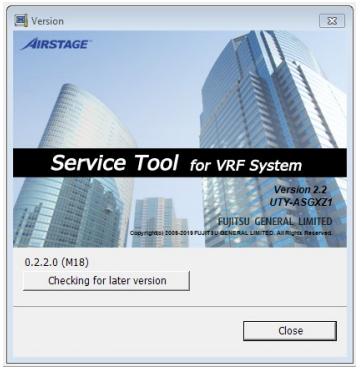
- **Chpt. 1- TEST RUN**

Document items per the system "Extended Warranty Report".

Step 2- Test Run Initiation

Once the system has been started and verified error free, collect (1) hour of "Test Run" data using the Fujitsu Service Tool software, in either Heat or Cool mode of operation. In order to create the commissioning "Quick Report", please ensure your Service Tool is:

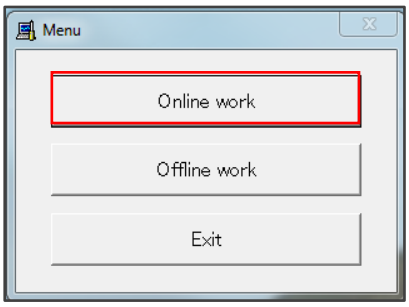
- Version 2.2.0 (M18) or higher.



The following is a summary of Service Tool (V 2.2 and higher) to collect Test Run data for review by the Fujitsu Commissioning Agent.

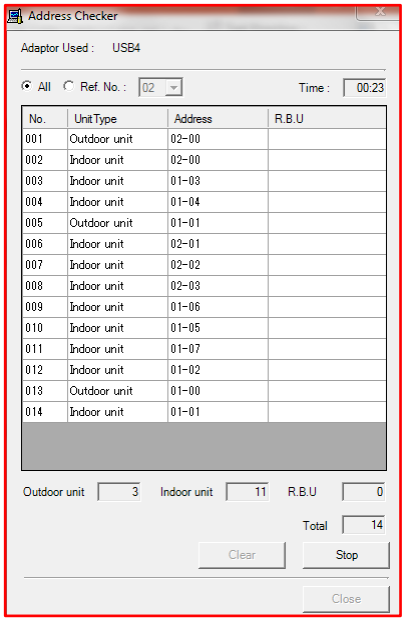
- Select "Online work"- Fig. 1.
- Create a new site or select a saved location as applicable.

Fig. 1



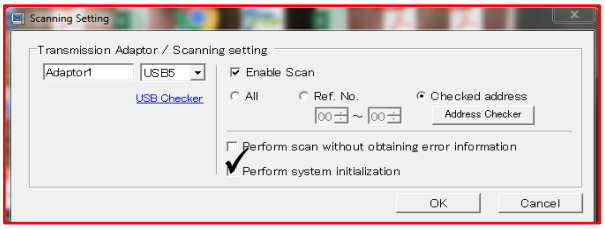
- Use "Address Checker" to confirm indoor and outdoor unit communication by ALL or Ref. No.- Fig. 2 & 3.
  - ❖ If any units are not identified, stop and correct before proceeding.

Fig. 2



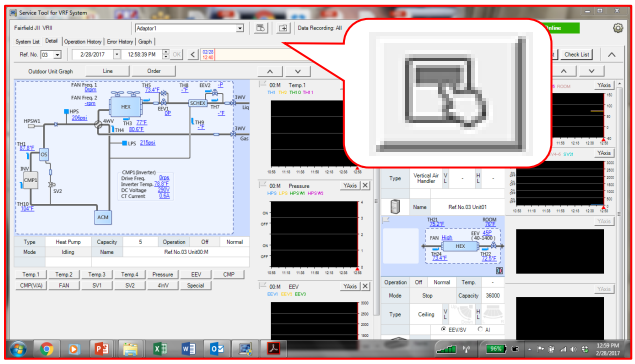
- System Initialization- If this is the first time Service Tool is connected to the system, check "Perform System Initialization" to obtain complete equipment data and topology map- Fig .3

Fig. 3



- Detail tab- Click the "Operation Setting" icon- Fig. 4.

Fig. 4



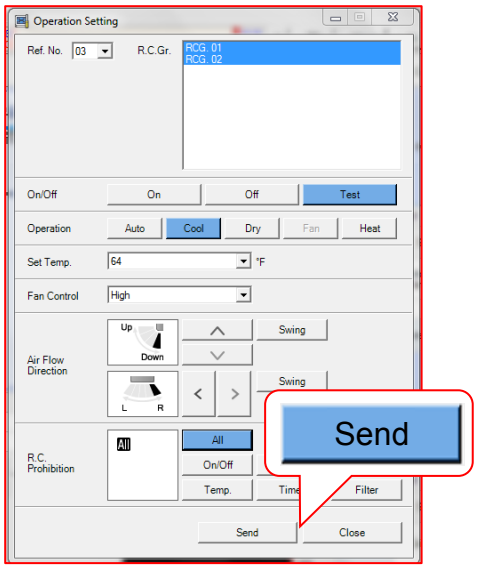
- Select "Test" in either Heat or Cool mode, based upon outdoor temperature and at your discretion- Fig. 5

General guidelines are:

- ODT > 70° F. = 

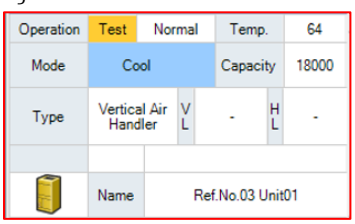
- ODT < 70° F. = 

Fig. 5



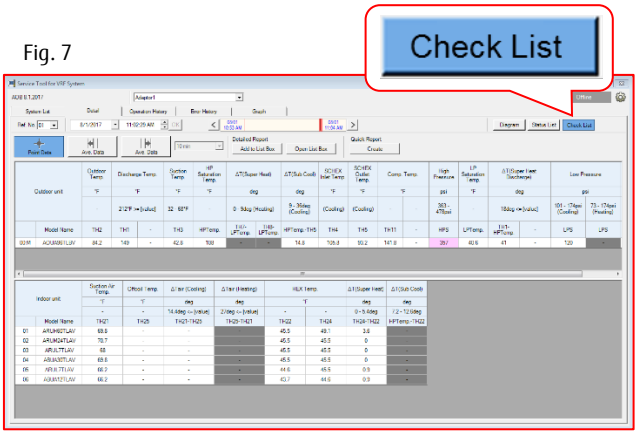
- Click "Send" to initiate Test Run Operation.
  - If applicable- Select Test Run operation for (60) minutes
- Test Run which will cancel automatically after the duration. Indoor unit icon color will be displayed in yellow while in the Test Run mode- Fig. 6

Fig. 6



- Detail tab- After approximately (30) to (40) minutes of run time, use the "Check List" feature to confirm operating variables are within range- Fig 7.
  - "Point Data" or "Avg. Data" may be used to confirm operation is satisfactory
  - Out of range points are highlighted in "pink". Out of range cells MUST BE reviewed to determine if acceptable or if an abnormal condition exists.
  - Select a point where no abnormalities are present.

Fig. 7

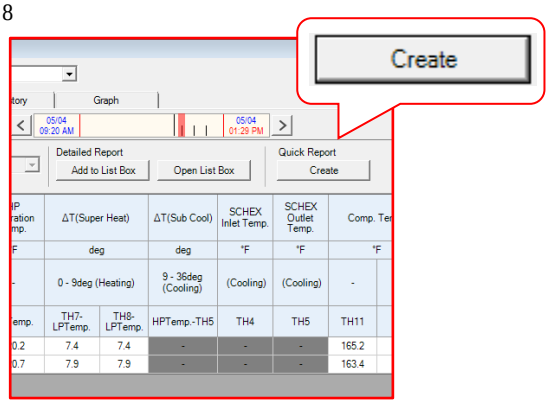


Step 3- Create "Quick Report"

The "Quick Report" is a single PDF document created for sensor data verification. The "Quick Report" (or "Detailed Report" option) is to be used as the "commissioning document" along with the Test Run data file, .bak or .gz.

- To generate a "Quick Report"- From the "Detail" tab / "Check List" / "Quick Report", click "Create"- Fig. 8.

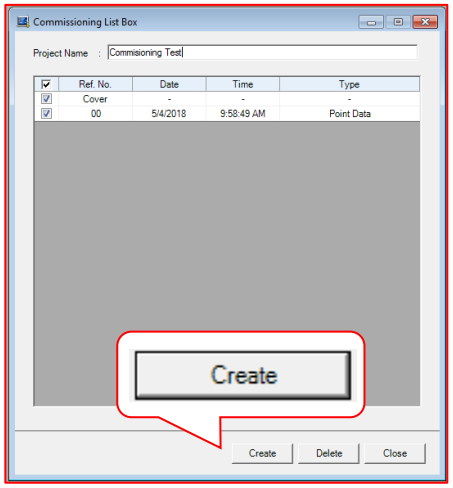
Fig. 8



  - OPTION- "Detailed Report"- If desired, an editable PDF version of the "Quick Report" can be created by selecting "Add to List Box"- Fig. 8.
    - **If using "Quick Report", see Fig. 12, p. 4., to save the file.**
    - **If using "Detailed Report", see Fig. 9 on p. 4.**

❖ Click, "Create"- Fig. 9.

Fig. 9



"Detailed Report"- Continued

- Using the drop-down box at top left, select and edit cover page and Ref. No. page as desired- Fig. 10.
  - ❖ "Pink" fields are editable, such as unit serial number, etc.- Fig. 11.

Fig. 10

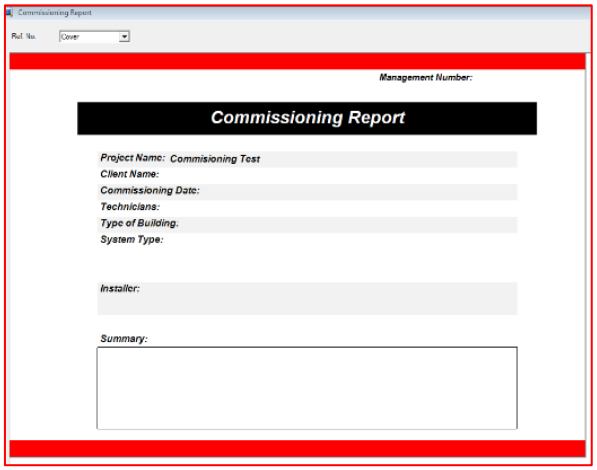
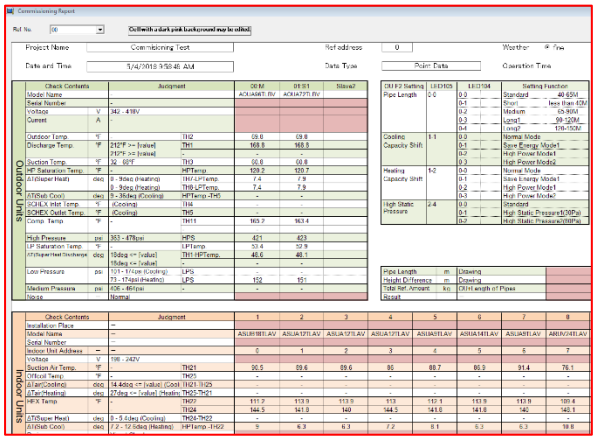
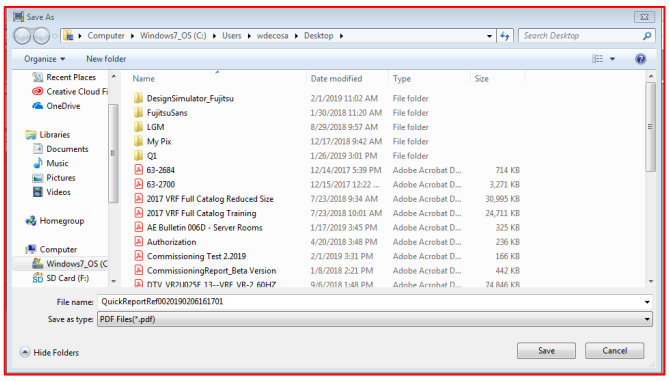


Fig. 11



- Save Quick Report to your folder or location of choice, "My Documents", "Desktop", etc.- Fig. 12.
  - ❖ Note the file location as it will be required for APM upload.
  - ❖ The file will automatically open when created, review to ensure data is correct.

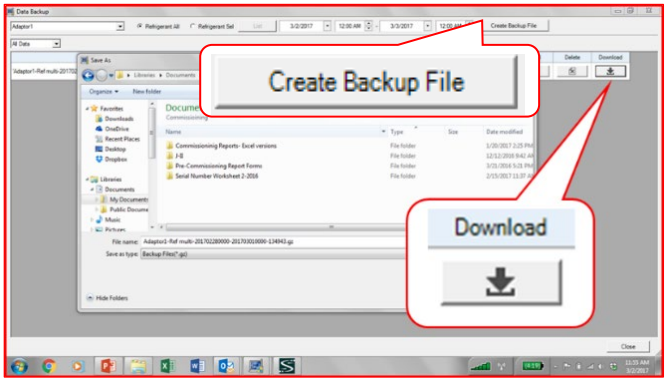
Fig. 12



Step 4- Save Test Run Data

- Save Test Run Data- Once the (60) minute Run Test is complete:

Fig. 13



- ❖ First… "Create Backup File"- Fig. 13. (Automatically named with a .gz file extension)
- ❖ Then… Download the Test Run (.gz) file to your folder or location of choice, such as "My Documents", etc.

Step 5- Return Documentation

Once the Test Run data file has been acquired, please review and verify the Test Run data is accurate and complete, recorded with the system error free.

- J-II / J-IIS- Projects with (4) or less systems- Please upload the files below electronically to:

  http://contractors.fujitsugeneral.com/registration/

  1. Test Run data file (.gz or .bak)
  2. Completed "Extended Warranty Report"
  3. "Quick Report" or "Detailed Report" option
  4. Customer invoice / proof of purchase

In order for the Fujitsu (10) Year Extended Part Warranty to be considered, the documentation and Test Run data must be received within (120) days of system start up.

Questions?

If you have any questions regarding the commissioning process, please contact your regional Fujitsu Distributor TSA, Technical Service Advisor.

In addition, Fujitsu General America provides technical assistance:

Toll Free Service Hotline
(888) 888-3424 or (973) 575-0380
Mon – Friday, 8:00 am to 8:00 pm EST
Tech Support Email

servicehvac@fujitsugeneral.com