

SUMMARY

Purpose of the visit to Joe & Juice was to provide pre-construction airflow testing and observations about the condition of the unit. Below is a summary of the findings. Following the summary are pictures, the marked up floor plan, and then the asset pages with test data.

AHU-1:

1. Stopped running mid testing. Unable to confirm actual CFM. Appears to be electrical issue. Only receiving 50V instead of 120V on the line side. Turned off to prevent damage.
2. Specs for the unit found online indicate it should be capable of 2000 CFM on the design drawings. Recommend confirming with the engineer. [app](https://www.supplyhouse.com/Goodman-GKS91155DX-Goodman-115000-BTU-921-Efficiency-Single-Stage-Burner-Multi-Speed-Blower-Upflow-Application-Gas-Furnace-12613000-p)
<https://www.supplyhouse.com/Goodman-GKS91155DX-Goodman-115000-BTU-921-Efficiency-Single-Stage-Burner-Multi-Speed-Blower-Upflow-Application-Gas-Furnace-12613000-p>



120,000 BTU 92% Efficiency, Single-Stage Burner, Multi-Speed Blower, Upflow/Horizontal Gas Furnace

Brand: **Goodman** SKU: **GMSS921205DN** ★★★★★ (0)

[VIEW REPLACEMENT](#)

Specs

Application:	HVAC	Airflow:	Upflow
Type:	Single-Stage Multi-Speed	Efficiency: ⓘ	92.1%
Heating Capacity (BTU):	115000	Width (Inches):	24-1/2"
Max Airflow (CFM):	2000	Temperature Rise:	35°F-65°F
Horse Power: ⓘ	3/4 @ 1075 RPM	Speeds:	4
Vent Diameter:	2"	Burners:	5
Weight (lbs):	175 lbs	Warranty:	10 Year (Parts) Heat Exchanger - Lifetime - 10 Year Furnace Replacement

3. Blower is dirty and needs to be cleaned. Unable to access the coil to inspect but it is likely dirty. Recommend cleaning
4. Filters are not installed on the unit. Recommend installing.
5. Diffusers 1, 2, 3, & 4 are not cut in. See marked up drawing for locations.
6. Service disconnect is a light switch that is hanging loose. Recommend proper installation
7. Outside air duct is not installed. Needs to be installed with the motorized damper shown on the drawings along with a balancing damper. A heavy duty return damper also needs to be installed.

AHU-2:

1. Supply airflow is currently 1109 CFM. Construction documents show design airflow of 900 CFM. Anticipated that once return duct is installed and filters installed it will reduce closer to design.

2. Blower and coil are dirty. Recommend cleaning.
3. Filters are not installed on the unit. Recommend installing.
4. Nameplate with model number not found on unit
5. Return ductwork is not installed. Needs to be installed as shown on drawing with a heavy duty balancing damper.
6. Outside air duct is not installed. Needs to be installed with motorized damper and balancing damper.
7. Discharge duct is a round flex duct that transitions to the rectangular duct. This is a poor installation but does not appear to be affecting airflow significantly.

EF-1

1. Measured as 39 CFM and only grille 4 is installed.