REPORT

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Order No. 100673528 Date: March 7, 2012

REPORT NO. 100673528CRT-001a

TEST OF A FAISAL JASSIM TRADING CO
CENTRAL AIR TERMINAL, SHUT OFF,
SINGLE DUCT MODEL PITU 35, SIZE 14

RENDERED TO:

FAISAL JASSIM TRADING CO LLC
PO BOX 1871
DUBAI
UNITED ARAB EMIRATES

Section No. *	Title of Test
7	Primary Airflow Rate, cfm
7	Radiated Sound Power Level, dB
7	Discharge Sound Power Level, dB

The results contained herein are for technical evaluation only and are applicable only to the specific specimens referenced herein.

The tests herein reported have not been performed at the request of the Air Conditioning, Heating and Refrigeration Institute (AHRI), and use of these findings in any advertising or other literature shall state therein that the test is not part of the AHRI Certification Program.

*AHRI Standard 880-2008

GENERAL

Authorization to test the sample came from signed quote number 500356181. The sample was selected and supplied by the client and was received at the laboratories on February 15, 2012. The sample appeared to be in new, unused condition upon arrival.

TEST METHOD

The laboratory method used in conducting this series of tests was in accordance with Industry Standards AHRI 880-2008, "Performance Rating of Air Terminals" and ASHRAE 130-2008, "Methods of Testing Air Terminal Units".

The reference sound source used for this test was a calibrated Bruel & Kjaer Type 4204, which conforms to the above standard. Airflow was measured employing a nozzle metering station and a Dwyer Inclined Manometer Model No. 424-5.

Equipment	Calibration Date	Due Date	S/N	Model	Brand	Asset
Microphone/Pre - DF	5/5/2011	5/5/2012	2381159	4942	Brüel and Kjær	E449
Pulse Analyzer	3/17/2011	3/17/2012	2519258	7539	Brüel and Kjær	E446
Reference Sound Source	7/28/2009	7/28/2012	2036621	4204	Brüel and Kjær	A230
Manometer Incline	3/21/2011	3/21/2012	-	424-5	Dwyer	F166
Manometer Incline	4/5/2011	4/5/2012	S39C	424-5	Dwyer	F167
Microphone Calibrator	3/17/2011	3/17/2012	2130586	4231	Brüel and Kjær	A227

All static pressures in this report have been corrected to standard conditions.

TEST SPECIMEN

The test specimen consisted of a Faisal Jassim Trading Co. Central Air Terminal Shut Off, Single Duct Model PITU 35, Size 14. The terminal measured 23 ¼ inches in length by 21 ½ inches in width by 17 ¾ inches in height. The inlet measured 14 inches in diameter while the outlet measured 24 by 16 inches. The sheet metal thickness measured 0.037 inches. The terminal was lined with ¾ inch thick fabric faced insulation. The base terminal was tested and rated without an inlet sensor.

RESULTS OF TEST – Model PITU 35, Size 14

Measurement of the minimum operating pressure at 100% of standard airflow.

Rated Airflow	Measured
2100 cfm	-0.05 in. H_2O

For the Casing Radiated Sound Power Level Test, the terminal was mounted in accordance with paragraph 6.1.4.2 of AHRI Standard 880-2008 and Figure 12 of ASHRAE 130-2008.

Octave Band Center Frequency Hertz	Radiated Sound Power Level Lw dB re 10^{-12} Watt
125	69
250	61
500	52
1000	44
2000	37
4000	32
Air Volume in cfm	2100
Operating Pressure in. H_2O	1.5

For the Discharge Sound Power Level Test, the unit was mounted in accordance with paragraph 6.1.4.1 of AHRI Standard 880-2008 and Figure 8 of ASHRAE 130-2008.

Octave Band Center Frequency Hertz	Discharge Sound Power Level Lw dB re 10^{-12} Watt
125	78
250	72
500	65
1000	57
2000	54
4000	52
Air Volume in cfm	2100
Operating Pressure in. H_2O	1.5

*Sound Power Level data denoted with an asterisk has reached ambient levels in the test room or is determined by instrument limitations. Actual levels are less than or equal to the levels indicated.

CONCLUSION

The test method employed for this test employed no pass fail criteria and therefore discretion is left up to the client.

Dates of Tests: March 1 – 5, 2012

Report Approved by:

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Attachments: None