



REPORT

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Order No. 100554696

Date: November 29, 2011

REPORT NO. 100554696CRT-001f

**TEST OF A FAISAL JASSIM TRADING CO
CENTRAL AIR TERMINAL, SHUT OFF, SINGLE DUCT
MODEL PITU 30 WITHOUT ATTENUATOR, SIZE 12**

RENDERED TO:

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

<u>Section No. *</u>	<u>Title of Test</u>
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

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GENERAL

Authorization to test the sample came from signed quote number 500338996. The sample was selected and supplied by the client and was received at the laboratories on November 8, 2011. 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 Kjør	E449
Pulse Analyzer	3/17/2011	3/17/2012	2519258	7539	Brüel and Kjør	E446
Reference Sound Source	7/28/2009	7/28/2012	2036621	4204	Brüel and Kjør	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 Kjør	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 30 without attenuator, size 12. The terminal measured 21 3/4 inches in length by 19 3/4 inches in width by 15 3/4 inches in height. The inlet measured 12 inches in diameter while the outlet measured 19 3/4 by 15 3/4 inches. The sheet metal thickness measured 0.037 inches. The terminal was lined with 1 inch thick matt faced insulation. The base terminal was tested and rated with a flowcross inlet sensor.



RESULTS OF TEST – Model PITU 30 WITHOUT ATTENUATOR, SIZE 12

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

<u>Rated Airflow</u>	<u>Measured</u>
1600 cfm	-0.01 in. H ₂ O

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.

<u>Octave Band Center Frequency Hertz</u>	<u>Radiated Sound Power Level Lw dB re 10⁻¹² Watt</u>
125	69
250	60
500	51
1000	41
2000	35
4000	30
Air Volume in cfm	1600
Operating Pressure in. H ₂ O	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.

<u>Octave Band Center Frequency Hertz</u>	<u>Discharge Sound Power Level Lw dB re 10⁻¹² Watt</u>
125	76
250	71
500	65
1000	56
2000	54
4000	52
Air Volume in cfm	1600
Operating Pressure in. H ₂ O	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

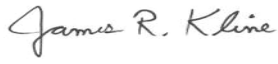
The test method employed for this test employed no pass fail criteria and therefore discretion is left up to the client.

Dates of Tests: November 21 through November 29, 2011

Report Approved by:


Brian Cyr
Engineer
Acoustical Testing

Report Reviewed By:


James R. Kline
Engineer/Quality Supervisor
Acoustical Testing

Attachments: None