



# Inspection Notarization Report

Project Title	The third party notarization for the Frequency Conversion Saving of Compressor control system.
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Applicant	Ya De Li Technology Co., Ltd.
Project Name	The Frequency Conversion Saving System of Compressor control system
Supervision Unit	Ya De Li Technology Co., Ltd.
Principal	Ya De Li Technology Co., Ltd.
Co-inspection Organization	Ya De Li Technology Co., Ltd. Taipei JEN-KANG Hospital SGS Taiwan Ltd.
The address of inspection	Taipei JEN-KANG Hospital 7F, No.131-24 Keelung Rd, Sec. 2 Hsin Yi Area Taipei, Taiwan, R.O.C.
DATE	20th, 26th and 28th of September, 2007. Three working days.

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- (1). Purpose :  
Ya De Li Technology Co., Ltd. has a great experience in frequency conversion compressor with routine break in technique. For the purpose of gaining the most energy saving, stability and efficiency upon the similar products in the market, the test procedure for frequency conversion compressor equipment has been drawn up in this report. It has also provided the necessary information to the related organization for the manufacture inspection.
- (2). The Inspection date :  
20th, 26th and 28th of September, 2007. Three working days.  
(Included the holidays of Mid-Autumn Festival)
- (3). The Inspection and Testing Address :  
Taipei JEN-KANG Hospital  
7F, No.131-24 Keelung Rd, Sec. 2 Hsin Yi Area Taipei, Taiwan, R.O.C.
- (4). The name and amount of equipment :  
The water cooled air condition equipment, 1 Set (VR2220)
- (5). The Inspection and Testing Items :  
1. The efficiency of Energy Conservation
- (6). Standard :  
Using Ta-Tung power meter to determine the efficiency of energy saving.  
The testing record should include 6 days before the energy saving system installation (2007.09.20-2007.09.26) and 2 days after installation of the energy saving system (2007.09.26-2007.09.28) respectively. It will be useful to contrast both test records.

(7). The result of Inspection and Testing :  
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Name: Water-cooled air condition equipment(VR2220)  
Amount: 1 Set



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2. The efficiency analysis for the Frequency Conversion Saving System of Compressor control system :

Items No	Testing Items	Result
1	<p>The efficiency tests of Energy saving :</p> <p>The analysis is based on the data of wattmeter</p> <p>The Main analysis data :</p> $\frac{\text{The power grid current} - \text{Energy saving current}}{\text{The power grid current}} \times 100\%$ <p>= Energy saving efficiency</p>	<p>PASS</p> <p>48.67%</p>
2	<p>The Minor analysis data :</p> $\frac{\text{The power grid value} - \text{Energy saving value}}{\text{The power grid value}} \times 100\%$ <p>=Energy saving efficiency</p>	<p>PASS</p> <p>52.89%</p>

\*Remark 1 : The power grid value= the motion degree of grid+the power on hours of transformer

\*Remark 2 : The energy saving value = the motion degree of energy saving+the power on hours of transformer

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1. Based on the motion of power grid mode, 270 degree (274 degree - 4degree) was read from September 20, 2007 to September 26, 2007. The transformer had been powered on for 12 hours (74hrs – 62hrs). (Included the Mid-Autumn Festival)
2. Based on the motion of energy saving mode, 169 degree (443 degree - 274 degree) was read from September 26, 2007 to September 28, 2007. The transformer had been powered on for 16 hours (90hrs – 74hrs).
3. According to the section 4 of the energy saving efficiency plan, the test result of minor analysis data should be conformed as a standard.
4. The current passed through the motion of power grid was 52.6A, the water run out with the temperature 12°C.
5. The current passed through the motion of energy saving mode was 27A, the water run out with the temperature 10°C.
6. The room temperature of comfort will not be affected by the energy saving equipment installation.



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(9). Remarks

1. The initial degree value of wattmeter was 00004 degree.
2. The specification on the name plate is 220V/15HP, the actual current from the test was 48 - 52A , the actual specification was 220V/20HP.
3. The specification of transformer is 220V/25HP.
4. VR2220A and VR2220 are the air condition equipments of air-cooled and water-cooled respectively. The OP2220 is the freezing equipment. The three models have the same control principle and component, only difference in specification of the transformers.
5. The serial model :
  - A. air condition equipment with energy saving system :  
VR2220A、VR2220、VR3820A、VR3820、VR4420A、VR4420、VR2215A、VR2215、VR3815A、VR3815、VR4415A、VR4415、VR2210A、VR2210、VR3810A、VR3810、VR4410A、VR4410、VR2275A、VR2275、VR3875A、VR3875、VR4475A、VR4475
  - B. Freezing equipment with energy saving system :  
OP2220、OP3820、OP4420、OP2215、OP3815、OP4415、OP2210、OP3810、OP4410、OP2275、OP3875、OP4475
  - C. The main test sample is VR2220. It has the same control principle and components as above models.
6. The four days holiday of the Mid-Autumn Festival from 2007. 09. 22 to 2007. 09. 25 had been included in the testing period.

(10) Attachments :

1. The efficiency Plan of frequency conversion and energy saving compressor x 1 copy
2. The meter degree record table and energy saving test report x 3 pages
3. The manufacturing approval for watt meter. x 2 pages
4. Brochure x 1 copy

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(11) Photos  
2007. 09. 20



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The value of power grid current



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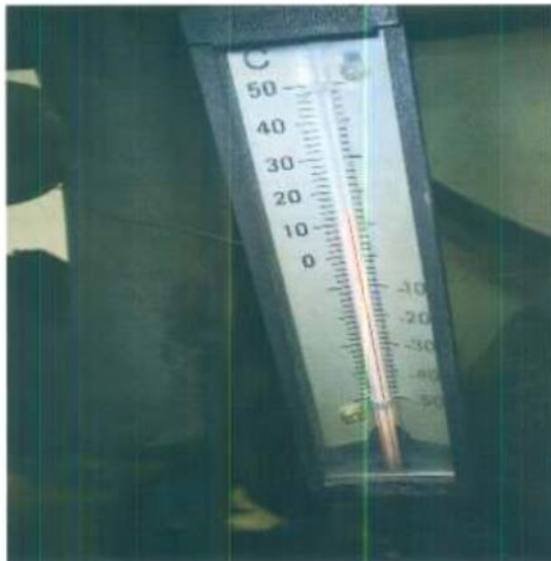
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2007. 09. 26



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The degree read on wattmeter in power grid mode      The power on hours in power grid mode



12°C was read on thermometer in power grid mode



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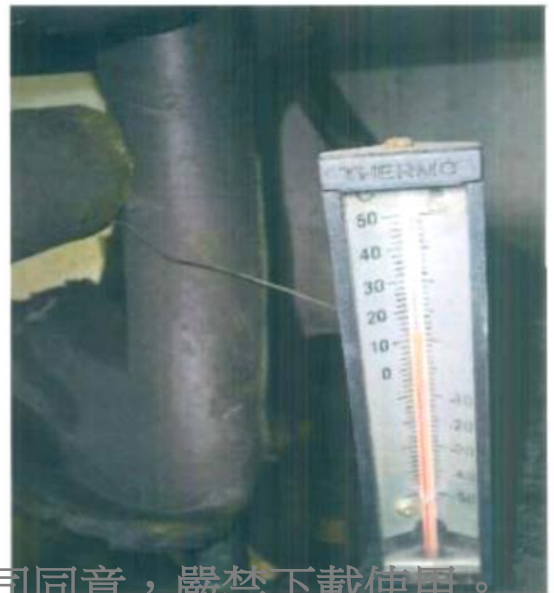
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2007. 09. 28



The degree on wattmeter in energy saving mode



The temperature 10°C in energy saving mode

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The current value of energy saving



The Power ON hours of energy saving

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