



POORNIMA

COLLEGE OF ENGINEERING



Report of ME Students Visit at Hotel Leisure Inn Grand Chanakya on April 27, 2015

Department of Mechanical Engineering, Poornima College of Engineering, Jaipur organized a one day field visit at Hotel Leisure Inn Grand Chanakya, Jaipur in association with Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) on April 27, 2015.

The basic purpose of this visit is to make the students acquainted with Air-conditioner, Solar System, Hot Water System, Generator and any other energy efficiency measures.

During the visit, students observed the following:

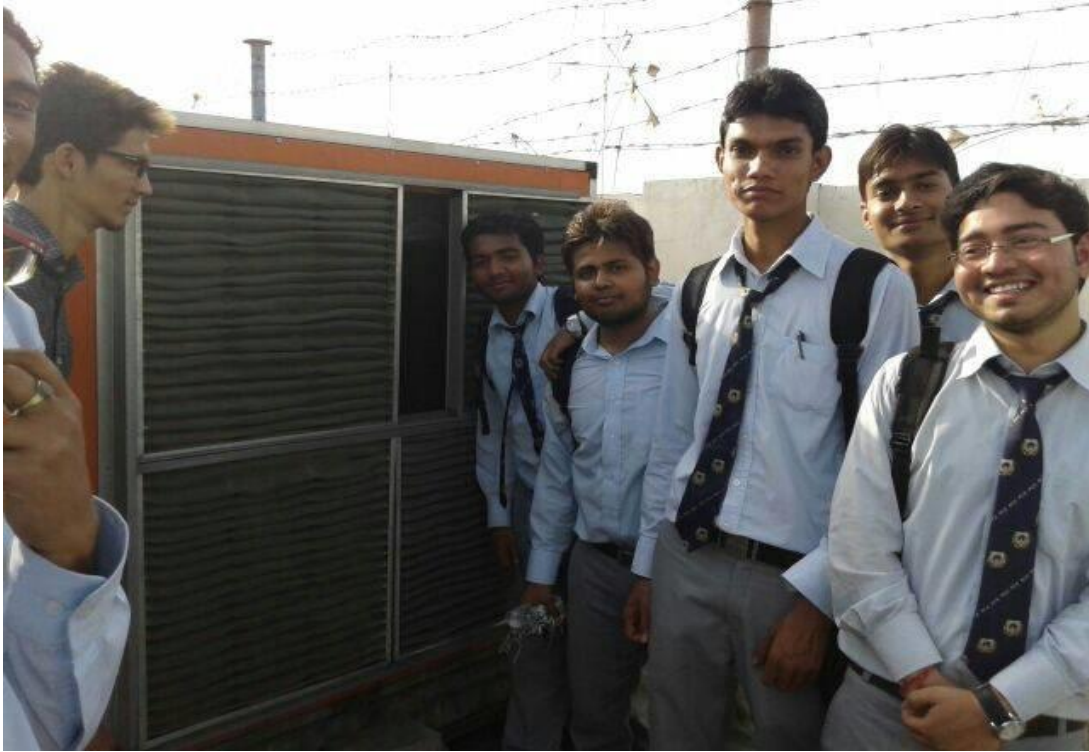
1. **Air Conditioner:** Daikin VRV III, R410a, Screw Compressor, 210 hp, Fan Coil Units, Cassettes;
2. **Flat Plate Collector:** 400 liters per day;
3. **Hot Water System:** Diesel Generator, 3000 Liters per day, Capacity 100000 kCal;
4. **Diesel Generator:** 400kV (2 set x 200 kV);
5. **RO System:** Drinking water < 100 TDS, bathing < 300 TDS;

14 student members of ISHRAE visited the same along with faculty coordinators Mr. Shailendra Kasera, HOD, Mechanical Department, PCE, Mr Sanjay Kumawat, Associate Professor, Mechanical Department, PCE and Mr Amit Mandal, Associate Professor, Mechanical Department, PCE, Jaipur.

On this occasion, Mr. Anil Gupta, President, ISHRAE Jaipur Chapter graced the occasion with their esteem presence and boosted the morale of students. Mr. Kapil Kumar Pandey, Chief Engineer, Hotel Leisure Inn Grand Chanakya, welcomed us and furnished the important information to us.

During this visit, students raised the queries related to Vapor Compression Cycle, Refrigerant, Condenser, Glass Wool Insulator, Primary and Secondary Circuits of Hot Water System, Air handling Unit etc which were discussed by Mr Kapil Kumar Pandey and Mr. Shailendra Kasera.







DAIKIN AIRCONDITIONING INDIA PVT. LTD.
AIR CONDITIONER <HEAT PUMP> MADE IN INDIA

MODEL RXYQ10PRY6 (OUTDOOR USE)		SER. NO. 0000864
POWER SUPPLY 380-415 V 3N-50 Hz		DATE 2011.06
RLA	21.6 A	MODE COOLING HEATING
PS (M.W.P)	40 bar	INPUT 7.90 kW 7.70 kW
HIGH PRESSURE SIDE	4.0 MPa	AMBIENT ^{OUT} DOOR 35 / 24
PS (M.W.P)	33 bar	TEMP. ^{IN} DOOR 27 / 19
LOW PRESSURE SIDE	3.3 MPa	(°C DB / °C WB) 20 / -
AP	40 bar	<ul style="list-style-type: none"> • THE REFRIGERANT IS LOADED IN THIS UNIT, HOWEVER RECHARGING IS NEEDED IN THE CASE OF A CERTAIN SYSTEM. AS FOR DETAILS, SEE INSTALLATION MANUAL. • INPUT SHOWN HERE IS THE VALUE WHEN THE TOTAL CAPACITY SUM OF INDOOR UNITS IS 250. • INPUT IS FOR THE OUTDOOR UNIT.
HIGH PRESSURE SIDE	4.0 MPa	
AP	33 bar	RLA: MAX. RUNNING CURRENT
LOW PRESSURE SIDE	3.3 MPa	AP: AIR TIGHT TEST PRESSURE
REFRIGERANT	R410A / 7.9 kg	PS: DESIGN PRESSURE
MASS	249 kg	
FUSE AMP.	25 A	
PROTECTION	IP14	

ROOM AIR CONDITIONER HEATPUMP OUTDOOR UNIT

MODEL **RY50GAV1A**

REFRIGERANT R22 1.55 kg
DESIGN PRESS. (HI/Lo) 2.8/1.3 MPa
CLIMATED DESIGNATION TYPE T1

SER. NO. **E026309**

NET WEIGHT 51 kg
PROTECTION IPX4
MFG. DATE 2012.2

POWER SUPPLY	~50Hz	220-240 V
FUSE AMP.	20	A

REFER TO THE TECHNICAL
MANUAL ABOUT OTHER
ELECTRIC CHARACTERISTICS.



N81

OUTSIDE SOUND POWER LEVEL **63** dBA

(LOWER LEVELS MEAN LOWER OUTSIDE NOISE)
THE LEVEL SHOWN ABOVE MAY BE USED TO ESTIMATE
WHETHER THE OUTSIDE NOISE FROM THE PROPOSED
INSTALLATION OF THIS UNIT WILL BE WITHIN ACCEPTABLE LIMITS.
CONSULT YOUR SUPPLIER BEFORE INSTALLATION.

DAIKIN INDUSTRIES (THAILAND) LTD.
MADE IN THAILAND

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