

**Project Handing Over
&
CM VRF Air Conditioning Systems Testing
&
Commissioning Report**

Head Office : Mitsubishi Electric India Pvt. Ltd. having its Head office at 3rd Floor, Global Gateway Tower
1, MG Road, Guru Dronacharya Metro station, Gurugram - 122002, Haryana, India

INDEX

- 1. Details of Project**
- 2. Details of CM VRF Air- Conditioning System**
- 3. Additional Refrigerant Charging Calculation and Additional Refrigerant Charged to the System**
- 4. Pre-commissioning check list**
- 5. Equipment Selection sheet**
- 6. Warranty Certificate**
- 7. Escalation Matrix - Customer Care Helpline**

Enclosure :- User's / Operating Manual and Invoice

1. Details of Project

- **Name of Project:** APEX HOSPITAL
- **Site Address:** DR SWAROOP PATEL BLW ROAD VARANASI
- **Contact Person:** DR SWAROOP PATEL
- **E-mail ID:** airinnovator@gmail.com
- **Date of Project Commence:** 19-04-2024
- **Date of Project Completion:** 01-10-2024
- **Date of Warranty Expiry:** 15-10-2025
- **MEI Project Engineer:** Ratnesh Kumar Singh
- **Name of Authorized Sales & Service Dealer:** Air Innovator
- **Address:** 1B/G-2 COLVIN ROAD NEAR HOTEL HARSH,CIVIL LINES, ALLAHABAD
- **Contact No.:** 7993780509
- **E- mail ID:** airinnovator@gmail.com
- **Dealer''s Engineer:**
- **Total Capacity (HP):** 32.00
- **Total Outdoor Units:** 2
- **Total Indoor Units:** 12
- **CENTRAL CONTROL:**

Details of CM VRF Air- Conditioning System

SYSTEM INFORMATION					
Outdoor Unit Details					
ODU Model	Serial No	MEI Invoice No	MEI Invoice Date	Actual Location	Sub Location
PUHY-P400YKD.TH-IN	46P00395	6021035051	12-08-2024	varanasi	varanasi
PUHY-P400YKD.TH-IN	46P00387	6021035051	12-08-2024	VARANASI	VARANASI

Indoor Unit Details					
IDU Model	Serial No	MEI Invoice No	MEI Invoice Date	Actual Location	Sub Location
PLFY-P125VEM-DA.TH	42M00644	6044003226	30-05-2024	VARANASAI	VARANASI
PLFY-P125VEM-DA.TH	42M00708	6044003226	30-05-2024	VARANASAI	VARANASAI
PLFY-P125VEM-DA.TH	45M01581	6044004771	06-08-2024	VARANASI	VARANASI
PLFY-P125VEM-DA.TH	45M01577	6044004771	06-08-2024	VARANASI	VARANASI
PKFY-P40VLM-DA.TH	44M00346	6021027014	12-06-2024	VARANASI	VARANASI
PKFY-P40VLM-DA.TH	44M00351	6021027014	12-06-2024	VARANASI	VARANSI
PKFY-P40VLM-DA.TH	44M00364	6021027014	12-06-2024	VARANASI	VARANASI
PKFY-P32VLM-DA.TH	44M00799	6021027014	12-06-2024	VARANSI	VARANASI
PKFY-P40VLM-DA.TH	44M00350	6021027014	12-06-2024	VARANASI	VARANASI
PLFY-P100VEM-DA.TH	44M02210	6021027014	12-06-2024	VARANASI	VARANASI
PLFY-P100VEM-DA.TH	41M00273	6044003226	30-05-2024	VARANASI	VARANASI
PKFY-P50VLM-DA.TH	33M02414	6021027014	12-06-2024	VARANASI	VARANASI

AHU Unit Details					
AHU Model	Serial No	MEI Invoice No	MEI Invoice Date	Actual Location	Sub Location

2. Outdoor Unit: Visual Inspection

Inspection Parts	Inspection Method	Standard	Actual Site Condition	
Main Power Source Voltage	Clamp Meter	+ - 10% of rated	410.00	410.00
Operation Circuit Voltage	Clamp Meter	+ - 10% of rated	410.00	410.00
Fan Operating Current (Amp)	Clamp Meter/ MN TOOL		1.03	1.03
Compressor Operating Current (Amp)	Clamp Meter/ MN TOOL	Inverter	23.00	22.00
Compressor Frequency	Clamp Meter/ MN TOOL	Hz	88.00	92.00
Main Breaker Capacity	Visual Inspection	Specified Capacity	ok	ok
Outdoor Power Supply	Screw Driver	Tighten & Copper Round Thimble	ok	ok
Fan Motor Insulation	500 V Megger	Over 1 Mega O	ok	ok
Compressor Insulation	500 V Megger	Over 1 Mega O	ok	ok
Installation Condition	Visual Inspection	Short- Circuit	ok	ok

2. Indoor Unit: Visual Inspection

Inspection Parts	Inspection Method	IDU Model	IDU Serial No	Actual Site Condition
		PLFY-P125VEM-DA.TH	42M00644	232.00
		PLFY-P125VEM-DA.TH	42M00708	232.00
		PLFY-P125VEM-DA.TH	45M01581	230.00
		PLFY-P125VEM-DA.TH	45M01577	230.00
		PKFY-P40VLM-DA.TH	44M00346	230.00
		PKFY-P40VLM-DA.TH	44M00351	230.00
Main Power Source Voltage (Volts)	VRF Tester (Line or Neutral)	PKFY-P40VLM-DA.TH	44M00364	230.00
		PKFY-P32VLM-DA.TH	44M00799	230.00
		PKFY-P40VLM-DA.TH	44M00350	230.00
		PLFY-P100VEM-DA.TH	44M02210	230.00
		PLFY-P100VEM-DA.TH	41M00273	232.00
		PKFY-P50VLM-DA.TH	33M02414	232.00

2. Performance Data of the CM VRF system

1. Outdoor Unit Operation Details

Inspection Parts	Inspection Method	Standard	Actual Site Condition		Site Remarks
Main Power Source Voltage	Clamp Meter	+ - 10% of rated	410.00	410.00	
Operation Circuit Voltage	Clamp Meter	+ - 10% of rated	410.00	410.00	
Fan Rotation Direction	Visual Inspection	Forward Rotation	ok	ok	
Fan Noise & Vibration	Listen & Touch	None	ok	ok	
Fan Operating Current	Clamp Meter / MN TOOL	Amps	1.03	1.03	
Suction Air Temp. (Deg.C)	Thermometer/ MN TOOL	Temp. diff. 9 ~ 11 deg. C in	38.00	38.00	
Discharge Air Temp.	Thermometer/ MN TOOL	Cooling and 2 ~ 3.5 deg. C in Heating	46.00	47.00	
Suction Pressure	Pressure Gauge/ MN TOOL	0.5 ~ 1.0 Mpa	120.00	118.00	
Discharge Pressure	Pressure Gauge/ MN TOOL	2.4 ~ 3.4 Mpa	480.00	480.00	
Compressor Operating Current	Clamp Meter/ MN TOOL	Inverter	23.00	22.00	
Compressor Frequency	Clamp Meter/ MN TOOL		88.00	92.00	
Suction Pipe Temp. (th5)	Thermometer/ MN TOOL	3 ~ 15 Deg. C	8.70	8.60	
Discharge Pipe Temp. (th4)	Thermometer/ MN TOOL	120 Deg. C	86.00	87.00	
Crankcase Heater	Touch by Hand	Should be Warm	ok	ok	
*Power Safety Equipment installed	Servo / Power Guard / Phase Sequencer		yes	yes	

2. Indoor Unit Operation Details

Inspection Parts	Inspection Method	Standard	Actual Site Condition		Site Remarks
Power Source Voltage	L ~ N VRF Tester N ~ E VRF Tester	+ -10% of rated Voltage	230.00		

Suction Air Temp (Room Temp)	Thermometer	Diff Temperature *Cooling 9C ~ 13C	24.00	
Discharge Air Temp (Grill Temp)	Thermometer	*Heating -5C ~ 20C	12.00	
Fan Rotation Direction/Ok/	Visual Inspection	Forward Rotation	ok	
Fan noise and Vibration	Listen and touch		ok	

3. Warranty Certificate

CERTIFICATE OF WARRANTY PURCHASER COPY

Dear Customer,

Congratulation

This Warranty applies to Commercial Air Conditioning Mitsubishi Electric India City Multi VRF product purchased and installed on your premises.

Mitsubishi Electric brand equipment listed on the handing over and commissioning report is warranted by Mitsubishi Electric India Pvt. Ltd. against defects in design, materials and workmanship for a period of 15 months from the date of equipment purchased or 12 months from date of equipment commissioning, whichever is earlier.

Equipment defects covered by this Warranty will be repaired or replaced at the discretion of Mitsubishi Electric India Pvt. Ltd. without cost to the Purchaser for replacement parts or equipment. The repair or replacement shall be performed during normal business hours by Mitsubishi Electric India Pvt. Ltd. or any of its authorized Dealer/ASP.

Any Mitsubishi Electric parts or equipment replaced under this Warranty will be warranted in accordance with the provisions of this Warranty for the remainder of the original warranty period.

Warranty Period:

From : To : 15-10-2025

This Warranty DOES NOT Cover:-

- a) Damage or problems or unsatisfactory performance caused to the equipment by faulty or incorrect external electrical wiring, incorrect power supply, voltage fluctuations, over voltage transients or electromagnetic interference not originating within the equipment.
- b) Damage or problems caused using an accessory, component or equipment not supplied by Mitsubishi Electric India Pvt. Ltd.

- c) Damage or problems caused by storm, fire, flood, vandalism, misuse, negligence, Acts of God, earthquake, war, vermin, foreign matter entering the equipment (e.g. dirt and moisture) or any other outside agency.
- d) Damage or deterioration to the external surfaces or refrigeration coils caused by normal weathering or corrosive atmospheric conditions.
- e) Any costs associated with gaining acceptable service access to equipment installed in restricted or unsafe (e.g. high) locations.
- f) Equipment which has been re-installed at a location other than the original location.
- g) Damage or problems or unsatisfactory performance resulting from operation at conditions outside the operating conditions specified in the Mitsubishi Electric India Pvt. Ltd. technical or sales literature applicable to the equipment.
- h) Damage, problems or unsatisfactory performance resulting from misapplication of the equipment.

Terms & Conditions

Mitsubishi Electric India Pvt. Ltd. having its Head office at 3rd Floor, Global Gateway Tower 1, MG Road, Guru Dronacharya Metro station, Gurugram - 122002, Haryana, India, (herein after referred to as the "Company") warrants to the purchaser of this product, that for a period of 15 months from the date of equipment purchased or 12 months from the date of commissioning, whichever falls earlier, the company will repair or replace free of charge any part(s) of the Air-Conditioner, if proved upon inspection by the company or any of its Authorized Sales and Service Dealers to have been defective due to faulty material or workmanship.

This Warranty covers only the repairs and does not entitle the purchaser for replacement of the product.

The Company shall provide through its Authorized Sales and Service dealers the following services free of cost during the 12 months warranty period.

A. Preventive maintenance:

Preventive maintenance check-up will be carried out three times in a period of 12 months from the date of commissioning on request from the Purchaser, which will include,

- General cleaning and brushing up of dirt and muck.
- General checkup of the performance of the unit
- Cleaning of Air filter
- Checking of Electrical parts and its contacts

B. Breakdown Complaints:

Company will put in its best efforts to promptly attend to any breakdown complaint lodged by the purchaser at Company's Authorized Sales and Service dealer or branch Office or Help Line Desk. Company shall repair / replace part(s) if it is determined by the company's authorized Service Representative that these are due to manufacturing defects.

This warranty will be governed by the under mentioned conditions:-

1. The purchaser must provide original Purchase Invoice during the time of availing warranty services.
2. Total warranty period is limited to 12 months from the date of commissioning irrespective of the period the unit was not in use or was not giving proper performance or was under break down or the time taken for repair/replacement of parts.

3. In the event of repairs or replacement of any part, during the said warranty period, the warranty shall thereafter continue only for the unexpired period of the original warranty. The defective part shall become the property of the Company.
4. The company reserves the right to replace the defective part with a substitute equivalent part without affecting the performance of the product.

- This Warranty shall not apply to the said product or any part thereof which has been subject to (a) installation or Repair by Unauthorized persons (b) An accident or damage during transit (c) Alteration (d) Unit/part Serial No. is mutilated, defaced or altered (e) Fire (f) Flood and such occurrence (g) Presence of any foreign object or living creature (e.g. Rat, Lizards, Insects, Ants, etc.) Inside the unit (h) Use of harmful chemicals.

Usage of unit in an abnormally corrosive alkaline/acidic atmosphere, any damage or defect resulting due to improper maintenance.

- This product is designed to be operated at a voltage supply of 230 volts - 50 Hz with a tolerable variation of plus or minus 5% in case of single-phase product and 415 volts - 50 Hz plus or minus 5% in case of three phase product. Any failure due to operation of the machine beyond the above specified limits will not be covered under warranty.

7. Any defect in the electrical installation or wiring at site must be rectified by the Purchaser as per the recommendation of Authorized Representative.

8. It is an obligatory condition of this warranty that any changes in the location of the unit or Purchaser ship thereof must be intimated in writing to the company 10 days in advance and only Authorized Dealer shall remove and install the units on chargeable basis.

9. The warranty on the compressor is void if the failure is due to lack of proper preventive maintenance of the unit or if the unit is repaired/attended by any un-authorization person.

Purchaser's Responsibility

The Purchaser is responsible for the correct operation and regular maintenance of the equipment as listed below. The correction of any non-product fault or problem is not covered by this Warranty.

- a) Operation and maintenance of the equipment in accordance with the operating instructions.
- b) Ensuring that the air inlet and outlet on the outdoor unit is kept clear of any obstructions (e.g. dirt, leaves, and plants)
- c) Ensuring that the condensate drain is kept clean.
- d) Replacement of exhausted batteries.
- e) The application of additional corrosion protection if the product is installed in a corrosive environment (e.g. Industrial pollution, sea air).

Important Note

- 1) For repair of equipment under this Warranty it is recommended that the Purchaser should either contact the Company. If the Purchaser requests the Company to perform or arrange the service call, the Purchaser shall be liable for all associated costs if the problem is not covered by the provisions of this Warranty.
- 2) Post expiry of product warranty purchaser requested to contact Mitsubishi Electric India Call center for availing the AMC (Annual Maintenance contract) for the product/systems at a nominal charge, which facilitates the purchaser to enjoy hassle-free assured services & peace of mind by which purchasers can enjoy cost effective services ensuring an extension in installed product's life and minimizing chances of a future malfunction.

4. Escalation Matrix

Mitsubishi Electric India Pvt. Ltd.

Level	Mitsubishi Electric India Pvt. Ltd.	Contact Person	Contact No.	E-mail ID
First	Help Line	Customer Care Helpline	1800 1022 626	customersupport@asia.meap.com
Second	ASM	Afsaar Ahmad	9140445672	afsaar.ahmed@asia.meap.com
Third	BSI	Manish Dwivedi	7508959537	manish.dwivedi@asia.meap.com

Purchaser's Signature/Seal/Date

Sales & Service Dealer's Signature/Seal/Date

MEI Engineer's Signature/Seal/Date