## APPLICATION FAILURE MODES OF COMPRESSORS FOUND DURING TDA

Transit Damage	<b>Over -Heating</b>	Mis-Wiring	Moisture		CONTAMINATION	
	Reason – Wrong Condenser Size, High Condenser Pressures, Chocked Condenser, Appliance	Cause – Myler Melting, Motor Burning, Defective Stabilizer,	Reason – Chiller bursting, Evaporator tube leakage incase of Coil dipped in tank, Lack of Vacuum.		Reason – Mud, dirt in the system / Use of antichoke.	
	System Running Hot, Over Heating	Motor all Myler Melt	High Rusty Contamination		External Contamination / Chemical Attack	Muddy Contamination
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		Motor Auxilliary winding Burn.	Water in the system		Use of anti choke	Moisture in the system
Handle Compressors With Care	Keep Condenser clean,Use Recommended sized condenser with Shroud and fan motor	Follow Wiring Diagram & Use Genuine Accessories Suppilid By Emerson Climate	Use a Good Anti freeze Thermostat to avoid Ice accumulation in Chiller	Keep Compressor Rubber plugs Closed. Use Dehydrated Condenser and A Good Dryer In system	Use a Good Rotary Oil sealed Double Stage Vaccum pump No AntiChoke	Use Good Quality Copper Tube & Keep Tube ends closed while Building System

Instructions -

- Do not run the compressor in vacuum.
- Compressors should not be exposed to atmospheric air for longer time.
- System should be evacuated (vacuuming up to 300 microns) properly before Gas Charging.
- Always use Dry Nitrogen with Pressure Regulator for pressure testing. Do-not Charge beyond 225Psig For Leak testing.
- Do not run test compressors with air this may cause moisture to enter the compressor causing the compressor rusting as shown in the above photographs.
- Always check for the healthiness of the compressor accessories at the time of compressor replacement. Change accessories in case of motor Burnout

Safety -

- Never use Oxygen for pressure testing of the refrigeration system.
- Always use Two Stage Pressure Regulator for Nitrogen Pressure Testing of Refrigeration System.

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