

Procedure Description		Frequency									Comments
		Weekly	Monthly	Bi-Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Tri-Annually	Quinquennial	
<b>TVS Axial Fans</b>											
<i>Axial Fans</i>											
	Operate fans and motor-operated dampers and listen for unusual noises	X									
	Check for undue vibration.	X									If present, stop the fan at the earliest opportunity, check impeller for any dirt build-up on the blades, and clean as necessary.
	Fan internals should be visually inspected.		X								Cleaning can be done with air or, preferably with a soft brush and vacuum. All connections and fastenings – bolts, clamps etc should be checked to ensure nothing is loose.
	Check all bolts for tightness.				X						
	Inspect inside and outside of housing and impeller for wear, deterioration, or build-up of material.				X						
	Verify damper interlocks and operates properly through all positions.				X						
	Fans should be inspected to ensure that there is no build-up of dirt or other matter that would cause overheating of the motor or obstruct the impeller track.				X						
	Grease-lubricated bearing should be cleaned out and grease renewed.							X			a) High temperature grease must be adopted according to the motor data sheet. b) The motors are supplied with loose leads. Where a terminal box is fitted, all cable terminations should be tightly secured.
<i>Fan Motor</i>											
	Check and record bearing and winding temperatures.	X									If elevated temperature readings are found, investigate equipment condition and/or lubricant condition and level.
	Clean up of fan motor.		X								Clear away the dust and dirt on outside surface of enclosure and measure.
	Check connecting terminals.		X								Check the connecting bolts (nuts) in terminal box to see whether connecting bolts (nuts) are loose or not. Replace them when necessary.
	Check the bolts (nuts).		X								Check earthing bolts (nuts), fastening bolts on end shield and internal and external bearing covers, connection of ground lead and setting.
	Check bearing.		X								Dismounting bearing cap, check whether the grease in bearings has been dirty and dried up or not. It should be replenished as required if there is short of grease. Replace the bearings when necessary. High temperature grease must be adopted according to the motor data sheet.
	Check motor fan.		X								Check motor fan to see whether it has been ruptured or damaged and fixed firmly, fastening bolts (nuts) loosened, damaged, worn and deformed. Replace them when necessary.
	Check the appearance of motors to see whether it has been damaged. Clear away dust and dirt and repair damaged sections.						X				Yearly maintenance or overhaul consists of monthly maintenance or routine repair.





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	Grease top nut					X					
	Confirm cap's in place					X					
	Test flow hydrant					X					
	Confirm top nut and caps are tight but not over-torqued					X					
<b>Soundproofing</b>											
<i>Fan Sound Attenuation</i>											
	Visually inspect fan sound attenuators for the build up of dirt, debris, wear and corrosion.					X					
<i>Soundproofing Boards</i>											
	Visually inspect fan sound attenuators for the build up of dirt, debris, wear and corrosion.					X					
<b>HVAC</b>											
<i>Commercial Electric Unit Heater</i>											
	Check the tightness of all visible bolts and nuts, in particular the support structure bolts and nuts. Similarly check the motor mounting bolts located in the top and back of the heater case.					X					Potentially lethal voltages are present. Be sure to lock the branch circuit disconnect switch in the OFF position and tag the circuit "Out for Maintenance" before working on this equipment.
	Check the motor, fan, discharge openings, intake openings, heating elements and control compartment for cleanliness.					X					If necessary, clean by using a vacuum or compressed air. Be careful not to bend the fan blade propeller.
	Check that the electric motors are permanently lubricated and thermally protected.					X					
	Inspect all terminal connections, contactor and conductor insulation for damage, looseness, fraying, etc., as applicable. Tighten any loose terminals and replace or repair wire with damaged or deteriorated insulation.					X					Badly pitted, welded together, or burned shall be replaced.
<i>Fans</i>											
	All fasteners should be checked for tightness each time maintenance checks					X					
	Motor maintenance is generally limited to cleaning and lubrication (where					X					
	Motors supplied with grease fittings should be greased in accordance with manufacturer's recommendations.					X					Where motor temperatures do not exceed 104°F (40°C), the grease should be replaced after 2000 hours of running time as a general rule. All bearings on standard Model BSQ fans are factory lubricated and require no further lubrication under normal use (between -20°F and 180°F in a relatively clean environment).
	Belts should be checked periodically for wear and tightness.					X					For belt replacement, loosen the tensioning device far enough to allow removal of the belt by hand. Do not force belts on or off. This may cause cords to break, leading to premature belt failure. Once installed, adjust belts as shown in "Pre-Starting Checks."
<i>Dampers</i>											
	Operate motor-operated dampers and listen for unusual noises and vibrations					X					
	Check bearings for wear and dampers for debris.					X					

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	Visually inspect dampers and actuators for the build up of dirt, debris, wear and corrosion.					X							a) If cleaning is necessary, use mild detergents or solvents. Clean with a non-oil based solvent. b) If lubrication is desired for components such as axle bearings, jackshaft bearings and jamb seals, do not use oil-based lubricants or any other lubricants that attract contaminants such as dust.
<i>Split-System</i>													
	Check certical centrifugal pump.						X						Ensure pump is automatically starting and stopping and performing as designed.
	Carry out a malfunction-diagnosis using the remote controller.						X						When a malfunction occurs to air conditioner, both indoor unit and outdoor unit will stop and operation lamp blinks to inform unusual stop.