Inspection Check List for Air Handling Unit (AHU) Installation

Project : _____ Contractor : _____

Inspection Refer No. : _____ Date : _____

AHU No. : _____

S/n	Items	Complied		Remarks
		Yes	No	
1	**Air handling unit**			
1.1	AHU delivered and installed is approval brand and model, specification and capacity			
1.2	Electrical characteristic, water flow rates and air flow rates of AHU is complied with specification and approval			
1.3	AHU is levelled and properly mounted/hanged			
1.4	Correct type and make of filters is installed			
1.5	Correct type and make of pre-filters panel is installed			
1.6	Filter loss gauge is levelly installed			
1.7	Filter loss gauge high/low indicators is properly set			
1.8	Smoke detector c/w wiring and termination is completed			
1.9	Fan / motor pulleys is in correct alignment and set screw tightened			
1.10	Carbon dioxide monitor is installed, if applicable			
1.11	Bearings collars and set screws tightened			
1.12	Fan /motor shafts are properly greased			
1.13	Belts are properly tensioned			
1.14	Permanent label for AHU is provided			
1.15	All mild steel supports/hangers is properly finishing painted			
1.16	Anti-vibration mounting is properly installed in accordance with approval shop drawing, supplier recommendation and greased			
1.17	Internal of AHU is clean			
2	**Electrical checks**			
2.1	Starter panel c/w all components is properly installed and clean			
2.2	Panel indication lights and push button etc. are properly labelled			
2.3	All wire/cable are tightly terminated			
2.4	Fan motor flexible conduits is securely installed			
2.5	Metal cover for cable trunking / conduit junction boxes is installed			
2.6	Cable trunking and conduits are properly finished painted with labels as specification			
2.7	Emergency stop switch is properly installed and labelled			
2.8	All power and control wirings is installed in accordance with the approval shop drawing and circuit diagram			

Alpha Consulting Engineers Pte Ltd

S/n	Items	Complied		Remarks
		Yes	No	
2.9	Rating of MCB / fuse / protecting RCB is installed in accordance with approval circuit diagram			
2.10	Electrical cable conduit/trunking/trays installation is checked and complied with the check list refer No. ACE/CL/A/110			
2.11	Wiring and termination of BMS, interfacing with fire alarm signal and remote control are completed and tested, where specified and applicable			
3	**Air distribution checks**			
3.1	Flexible connection is properly insulated and vapour sealed			
3.2	Fire damper is installed, if applicable			
3.3	All access panels is properly label/identified			
3.4	Setting of VCD is properly marked			
3.5	Air duct / access panel, etc. is painted with directional sign and label			
3.6	Air duct supports/hanger is properly finishing painted			
3.7	Test points/holes is properly make good and vapour sealed			
3.8	VCD is in smooth operation without jam/obstruction			
3.9	Silencer is installed in accordance with approval shop drawing, if applicable			
3.10	First three nos. of air duct supporters/hangers from AHU is completed with vibration isolator			
4	**Water side checks**			
4.1	Chiller water and condensate water pipe are properly insulated and vapour sealed			
4.2	Chiller water and condensate water pipe are properly painted with directional sign and label			
4.3	Condensate water pipe is completed with U-trap and correct gradient for gravity water flow			
4.4	Valve boxes / cladding is properly installed			
4.5	Flexible connectors are properly insulated c/w meter boxes/cladding			
4.6	Pipe hangers/supporters is properly finished painted			
4.7	First three nos. of chiller water pipe supporters/hangers from AHU is completed with vibration isolator			

Alpha Consulting Engineers Pte Ltd

Remarks / comments

Conduct by	:		Company	:		Date	:
Signature	:						
Inspect by	:		Company	:		Date	:
Signature	:						
Witness by	:		Company	:		Date	:
Signature	:						
Approve by	:		Company	:		Date	:
Signature	:						

Alpha
Consulting Engineers Pte Ltd