

Work Description Handout
According to A_PE1 – Placing and mounting of a split AC system

Preparation of worksite, fit IDU & ODU to wall/stand		
Subject	Comments	Check
Obtain permit of work, execute risk assessment		
Prepare installation sketch		
Undertake worksite preparation, tools, equipment and PPE check (having risk assessment in mind)		
Safeguard the workshop area and inform involved parties		
Unpack split AC equipment IDU & ODU and verify condition (completeness, damages, potential leakages, etc.)		
Use AC manufactures' supplied installation materials		
Fit indoor unit bracket to wall/stand		
Drill hole through wall/stand to accommodate copper tubes, drain tube and electrical cables (as applicable) using a core bit with power drill		
Mount indoor unit on bracket, feeding tubes and electrical cable through core bit hole		
Mark wall/stand for bracket fixings (as applicable)		
Drill wall/stand for fixings		
Fit outdoor unit brackets to wall/stand		
Mount outdoor unit on brackets and secure in position		

Connect indoor unit to outdoor unit with copper tubes		
Subject	Comments	Check
Obtain OEM copper tubes supplied with the unit (pre-flared)		
Secure one end of each copper tube to indoor unit copper tube flare fittings		
Tighten flare nut loosely using 2 spanners to flare fitting on indoor unit (discharge tube first)		
Repeat above for larger tube		
Bend each copper tube in turn to ensure flare nut on opposite end of tube aligns with fitting on outdoor unit		
Repeat above for the suction tube		
Tighten all flaring's with accurate torques by the use of a spanner and a torque wrench		
Introduce holding charge with OFDN (condensing unit ODU is isolated)		
Carry out a check for leakage of the system using one of the direct methods which does not entail breaking into the refrigerant circuit of the ODU (e.g. bubble test)		

Connect indoor unit to outdoor unit with cable. Split system is prepared to be connected to the appropriate power supply		
Subject	Comments	Check
Obtain wiring diagram (from indoor / outdoor units)		
Terminate cable ends as appropriate		
Fit cable to correct terminals on indoor unit		
Fit cable to correct terminals on outdoor unit		
Prepare the system to be connected to a suitable power supply (no work on electrical equipment under voltage)		

Work Description Handout
According to A_PE1 – Placing and mounting of a split AC system

Connect indoor unit condensate drain hose, routed together with the refrigerant transfer tubes, to a suitable drainage point at the ODU		
Subject	Comments	Check
Obtain suitable flexible condensate drain hose (OEM supply)		
Route the drain hose together with the refrigerant transfer tubes and electrical cable		
Check flow of the drain hose (by water injection into the IDU condensate tray)		
Check drain hose connections for leakage		
Secure drain hose and cables at indoor unit, outdoor unit and along pipe run		
Arrange refrigerant tubing with insulation, cables and drain hose to a bundle and wrap the weather protection tape around		
Arrange for adequate fixation of the pipes and cable bundle		

Final preparation of the system for handing over for commissioning.		
Subject	Comments	Check
Check the system if placing and mounting is completed		
Write a handing over report about the condition of the main components and installed supply circuits and (if applicable) identifies any problems that could damage the system and eventually lead to refrigerant leakage or release, should no action be taken.		
Provide evidence for direct leak detection and holding charge provision with OFDN		
Cleaning, maintaining and preserving tools, installed equipment and work-place		

Total time slot 225 minutes