

SlimDuct Inc.

Interim Installation manual for SD series Slimduct.

PRIOR TO INSTALLATION, ALWAYS SELECT CORRECT SIZE OF SLIMDUCT FROM TABLE PROVIDED.

IMPORTANT NOTES:

APPEARANCE.

For optimum appearance, **SLIMDUCT SD** must be installed plumb. Always use chalk line and plumb bob and/or spirit level to lay out fixing lines prior to installation.

THERMAL EXPANSION.

Like all Thermoplastics, **SLIMDUCT SD** will expand and contract with temperature variations. In order to prevent buckling due to expansion in hot weather, it is necessary to allow an expansion gap of 1/8" between the end of the **SLIMDUCT SD** and the stop ledge inside each fitting. Also, when fixing **SLIMDUCT SD** to wall, do not drill holes, use only slots provided and do not overtighten screws to permit expansion.

WATERPROOFING.

NOTE THAT SLIMDUCT SD IS NOT WATERPROOF. To waterproof the installation, seal all fittings and upper longitudinal seams of any horizontal runs with a light layer of clear silicone sealant after installation is complete.

When installing Rear Entry Coupler **SJA**, back of fitting must be properly sealed to wall and extra care must be taken to prevent water ingress into wall cavity.

1. **FOR GABLE WALL INSTALLATIONS:** Use Wall Inlet **SW** and fit bottom half so that opening on back lines up with opening in wall. Ensure that **SW** is vertically plumb and fix in place with wall anchor. If installing horizontally, fit with slight downward slope to allow for required fall in drain hose. When fitting top half of **SW** after **SLIMDUCT SD** has been fitted, note that there is a retaining pin on the inside of the cover which is intended to fit into a corresponding hole in the end of the **SLIMDUCT SD** to prevent the top half of the **SLIMDUCT SD** from sliding down on vertical runs. All 78" lengths have a knockout for this hole at both ends, however if you are using a cut off piece of **SLIMDUCT SD** it will be necessary to drill a 1/4" hole at 1/2" center from end of **SLIMDUCT SD** for this pin to locate into. On horizontal runs this pin is not necessary and can be removed by twisting off with a pair of pliers.
2. **FOR SOFFIT INSTALLATIONS**; Select Soffit Inlet **SP** and use wall anchor to fix bottom half to wall so that opening on top lines up with hole in soffit and fitting is vertically plumb. Top half of this fitting clips into place without fixing screws after installation of linesets etc.

3. Lay out full **SLIMDUCT SD** run by fixing bottom half of all fittings to wall as required. **IF YOU HAVE A HORIZONTAL LENGTH OF SLIMDUCT SD YOU MUST REMEMBER TO ALLOW A SLOPE OF 1/4" PER FOOT RUN TO ALLOW FOR DRAINAGE OF CONDENSATE WATER.** To terminate at condenser, use End Fitting **SEN** to reduce possibility of insect access into **SLIMDUCT SD** and to help prevent top half of **SLIMDUCT SD** from sliding down on vertical runs.
4. Measure between stop ledges inside first and second fitting, deduct 1/4" and cut bottom half of **SLIMDUCT SD** (deeper section, with raised fixing channel and knockouts inside) to length, and fit first length so that both ends insert into fittings. Leave 1/8" clearance between both ends of **SLIMDUCT SD** and stop ledges inside fitting for expansion as mentioned above. Using 4" center knockouts provided, fix with wall anchors in at least 3 places for each 78" length and do not overtighten fixing screws. If length between fittings is more than 78", use coupler **SJ** to join **SLIMDUCT SD** lengths and fix to wall as described above also leaving 1/8" clearance at both ends.
5. Install lineset, flexible drain hose or PVC pipe, power cable and control wire by laying them inside channel formed by **SLIMDUCT SD**. If required optional cable ties (**SL 300**) can be used at **SLIMDUCT SD** fixing points to secure pipes into **SLIMDUCT SD**. If drain hose must exit **SLIMDUCT SD**, notch bottom half of **SLIMDUCT SD** as required and allow drainhose to protrude.
6. Fit upper half of **SLIMDUCT SD** by squeezing sides of bottom half together, press upper half onto it so that integral fixing channels can engage, clamping it into place.
7. Lock **SLIMDUCT SD** into place by fixing upper half of all fittings with stainless steel screws provided. **NOTE THAT SOME ELLS HAVE A RETAINING PIN ON INSIDE OF THE COVER AS DETAILED IN POINT 1. ABOVE. THIS PIN WHICH LOCATES IN CORRESPONDING HOLE ON END OF SLIMDUCT PREVENTS TOP HALF OF SLIMDUCT FROM SLIDING DOWN ON VERTICAL RUNS. ON HORIZONTAL RUNS THIS PIN IS NOT NECESSARY AND CAN BE TWISTED OFF WITH A PAIR OF PLIERS.**
8. Before fitting top half of **SEN** end fitting, check that opening is large enough to accommodate lineset, drain hose & wires that you are installing. If necessary, using cut lines marked on it, trim back sloping end of this fitting to increase opening size to fit, keeping opening as small as possible.
9. When using Flexible Ell **SF** to form a large radius ell or an offset, insert all linesets, wires and drain hose through **SF** prior to installation. If this is not possible, **SF** will have to be slit at rear to install onto already installed linesets, drainhoses etc. Use correctly sized fixing saddles **SFS-66, SFS-77 or SFS-100** to secure Flexible Ell **SF** in place. Note that Flexible Ell **SF** will not fit directly into any fitting and a short stub of **SLIMDUCT SD** must be fitted first for **SF** to connect onto.

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