

DUCTING PACKAGE INCLUDES:

- / 25 feet of insulated flexible duct.
- / 4 (four) 10"Ø gear clamps.
- / 1 (one) 6"Ø to 10"Ø transition.
- / 1 (one) 14" x 10 1/8" to 10"Ø transition.
- / 2 (two) wall flanges with 10"Ø collars.
- / 1/2" sheet metal screws.

INSTALLING FITTINGS:

/ 6"Ø to 10"Ø Transition:

1. Slide the 6"Ø end of the transition onto the 6"Ø supply air flange on the unit.
2. Secure in place using at least 2 (two) 1/2" sheet metal screws. Please note that holes are not predrilled.
3. Seal joint with duct sealer or duct tape, making it airtight.

/ 14" x 10 1/8" to 10"Ø Transition:

1. Slide the fitting into place onto the 14" x 10 1/8" return air flange on the unit.
2. Secure in place using at least 8 (eight) 1/2" sheet metal screws (two per side). Please note that holes are not predrilled.
3. Seal joint with duct sealer or duct tape, making it airtight.

/ Wall Flanges With 10"Ø Collars: These two identical fittings are to be used in conjunction with return air and supply air grilles (not supplied with this package) and are designed to fit between wall studs or floor joists spaced at 16"OC. In determining the location of these fittings, consider the following:

- Return and supply duct runs are not to exceed a total of 25 feet in length.
- The supply air grille must be a minimum distance of 4 (four) feet away from the air return grille.
- Place the supply air grille as close to the ceiling of the wine cellar as is possible.
- Place the return air grille as close to the floor of the wine cellar as is possible.

Once the location of these two fittings is determined, their installation can be done during the following two stages of construction:

- Pre-drywall phase (rough-in): Nail the flange onto the studs or joists with the duct collar of the fitting extending outwards from wine cellar wall towards the location of the cooling system. When room is being drywalled, the required 10"x14" openings are to be cut exposing the duct opening. Seal around flange to make room airtight.
- Post-drywall phase: Cut 10"x14" holes into the drywall (centered between studs or joists). Nail the flange through the drywall and into the wall studs with the duct collar of the fitting extending outwards from wine cellar wall towards the location of the cooling system. Seal around flange to make room airtight.

INSTALLING THE DUCTWORK:

/ After positioning cooling unit to the desired location, determine the two lengths of ducting required ensuring that both duct runs to not exceed a total of 25 feet and cut supplied length accordingly.

1. Supply air duct run (6"Ø to 10"Ø transition connected to wall flange fitting positioned closest to cellar ceiling):
 - Slide duct completely over the transition until it touches the cooling unit (maximizing insulation coverage).
 - Slide duct completely over entire length of collar of wall flange fitting.
2. Return air duct run (14" x 10 1/8" to 10"Ø transition connected to wall flange fitting positioned closest to cellar floor):
 - Slide duct completely over collar of transition.
 - Slide duct completely over entire length of collar of wall flange fitting.
3. Secure duct to fittings with supplied gear clamps. Pull back foil and insulation to expose internal plastic duct membrane. Install gear clamp and recover duct with insulation and foil cover.

IMPORTANT NOTE: Ducting must be supported so as not to sag. Ensure that flexible ducting is stretched out to the greatest extent possible to eliminate unnecessary restrictions.

Please check out our online animations at <http://www.mansystems.net/product/cw-30m-duct-kit/>