

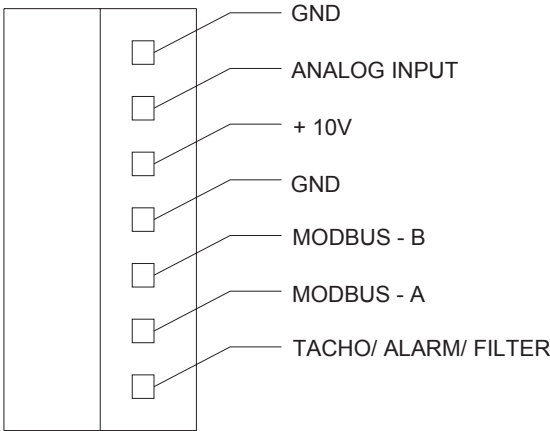


Control Panel Diagram

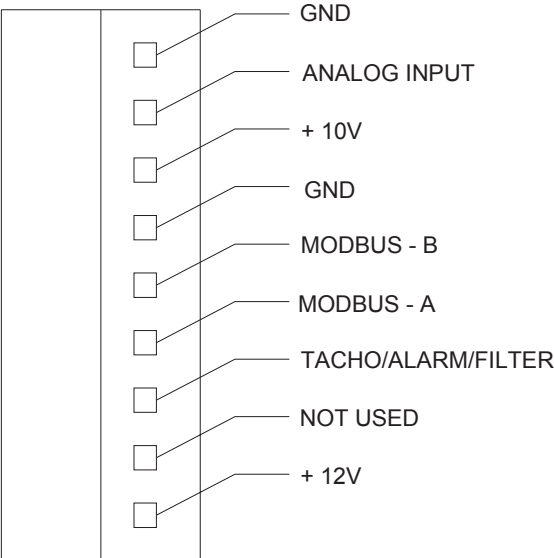
CONTROL INTERFACE

- Available: 0-10V
- PWM Signal
- Modbus RTU

KK-DK 800, 1200, 1600, 2000, 4000



KK-DK 3000



OPERATION

For KK Direct Expansion Units / Chilled Water Units

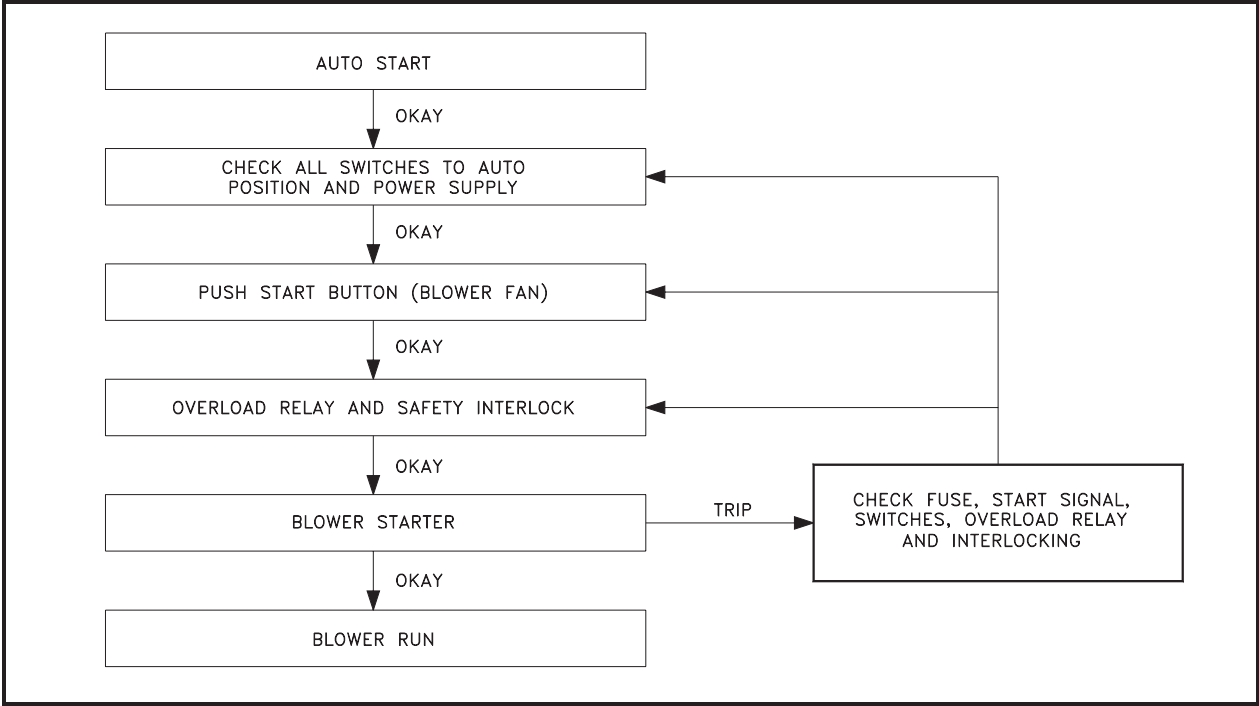
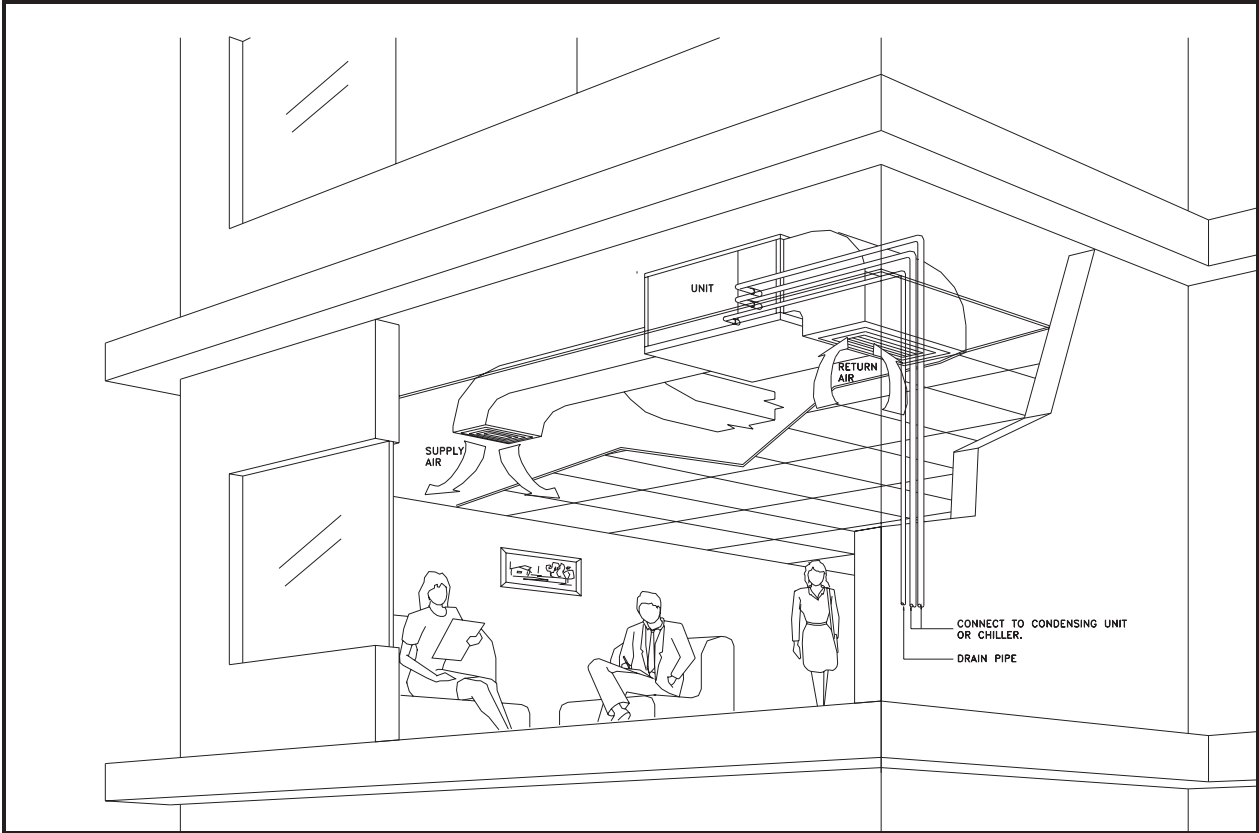
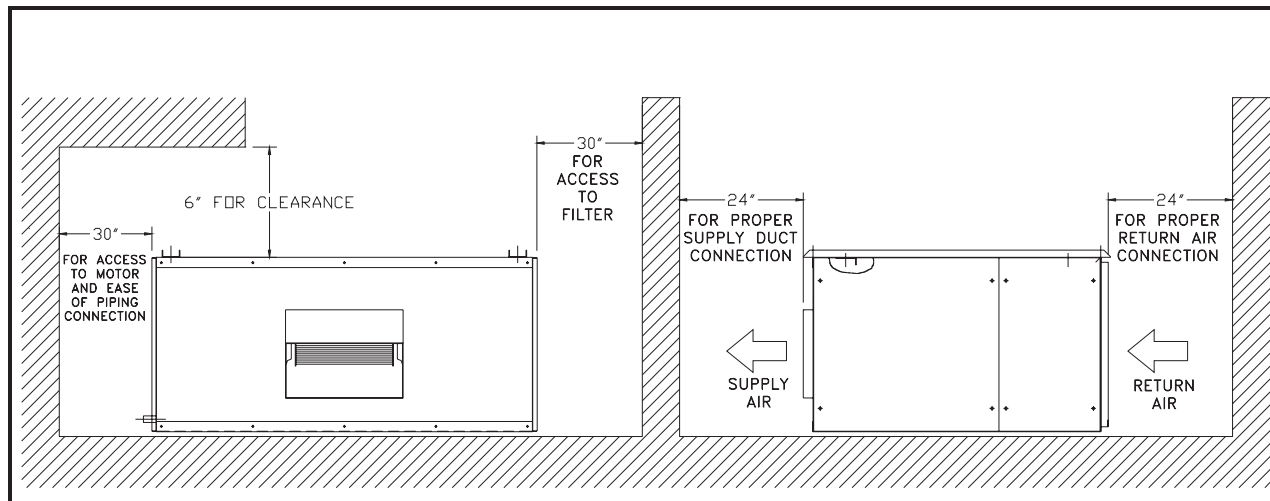


Figure 3 Typical ODYNE's Unit Installation



3.2 UNIT CLEARANCE/ ALLOWANCE

Figure 3.2: KK Chilled Water Units / Direct Expansion Units Clearance

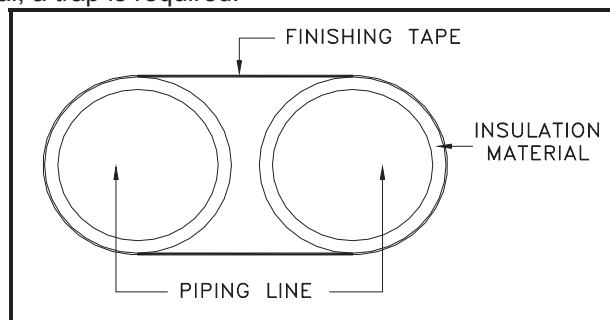


Note: If motor is located on the left hand side, then 30" clearance should be given on the left hand side.

3.3 KK DIRECT EXPANSION UNITS

3.3.1 Refrigerant Piping

- 1.) Prior to connecting the tubes, make sure to apply blind caps or water proof tape to prevent dust or water from getting into the tubes.
- 2.) Horizontal lines should sloped toward the compressor at a rate of 1" per 20'. If there is a vertical riser of more than 5' on the suction line, there should be a trap at the bottom.
- 3.) The suction and liquid line should be sized according to the manufacturers standard.
- 4.) Minimize the exposure time to atmosphere during brazing.
- 5.) Drain pipe size should be the same or bigger than the existing pipe. The pipe should be installed in downward slope so that water is drained by gravity. A trap must be provided on the pipe so that condensate will drain and not overflowing the drain pan. In addition, upon start-up, the water will not be sucked by the blower. In addition, the evaporator coil is located before the intake of the centrifugal blowers and operates below atmospheric pressure. Thus, to compensate for this pressure differential, a trap is required.
- 6.) Suction line must be insulated to prevent condensation. It is also suggestable to insulate the liquid line. Insulating these line will prevent unnecessary heat losses/ gains
- 7.) This unit is designed to run up to 75 feet and below. For length exceeding 75 feet, consult factory for assistance (piping size need to be changed and oil need to be added.).



The KK are designed to provide years of services with minimum maintenance. Nonetheless, it is a good practice to carry out regular inspection and checking to ensure the unit optimum performance.