

The following includes the recommended system and installation parameters to provide for a back-up cooling system to provide for the IT equipment room.

HVAC System: - LG KSSAP361A R-32 ductless split system with KUSAP361A outdoor unit and KNSAP361A indoor unit with remote wall mounted thermostat, condensate pump, and filter. Unit shall be set with setpoint of 70 degrees which should be no less than 3 degrees above the primary cooling system. As part of maintenance, the system primary and back-up systems shall be switched with regard to setpoints at the first of each month. Install unit and refrigeration lines per manufacturer recommendations. Route 0.75" hard copper type M drain line as indicated to mechanical room and down to discharge to existing floor sink. - Install unit on north wall of Equipment 120 back in the NW corner. Route refrigerant lines to the Electrical 119A and down in corner and out to the exterior mounted heat pump. Set on concrete pad beside the manual transfer switch. Provide AP Armaflex insulation for full length of the refrigerant and condensate lines – 0.5" thickness for condensate and 0.75" thickness for refrigerant lines. Install per manufacturer recommendations and set on stand equal to DiversiTech QSTD1403-AL and securely anchor to the concrete pad below. Core drill wall as needed for refrigerant lines keeping as small as possible and tightly insulate, seal, and provide Airex gasketed wall outlet assembly at penetration for tight seal.

Electrical: - System shall be wired to 30A, 208V, 2-pole breaker in existing panel "LP2". Provide new breaker in existing Eaton PRL1X panel in spare location. Extend power to exterior heat pump and interior wall mounted unit per manufacturer recommendations. Provide surface mounted raceway to thermostat for low voltage wiring. Coordinate exact placement with existing conditions but mount on north wall but not directly below unit and minimum of 20" away from unit to avoid drafts from unit.

