

## **UPS/CER ROOM AIR CONDITIONING**

### **CER ROOM AIR CONDITIONING**

THE CER ROOM IS AIR-CONDITIONED BY 3 LIEBERT LMD22A CLOSE CONTROL UNITS. THESE 3 UNITS SIT ON AIR DISTRIBUTION PLENUMS AND BLOW COLD AIR ACROSS THE FLOOR TO COOL THE COMMUNICATION EQUIPMENT.

THE 2 UNITS ON THE BACK WALL N° 1 AND N° 2 HAVE THEIR AIR-COOLED CONDENSERS LOCATED ON THE 7<sup>TH</sup> FLOOR ROOF AT DANIEL HOUSE.

THE N° 3 UNIT HAS ITS AIR COOLED CONDENSER LOCATED IN THE ALLEY WAY AT GROUND FLOOR LEVEL.

THE POWER SUPPLIES FOR THE 3 AIR CONDITIONING UNITS AND 3 AIR COOLED CONDENSERS IS TAKEN FROM THE PDU IN THE BATTERY ROOM.

THE AIR COOLED CONDENSERS ARE PRESSURE CONTROLLED. AS THE SYSTEM DISCHARGE PRESSURE INCREASES THE FAN SPEED CONTROLLER SPEEDS THE FAN UP TO MAINTAIN A CONSTANT DISCHARGE PRESSURE.

PARASENSE LEAK DETECTION EQUIPMENT IS INSTALLED IN THE CER TO DETECT ANY LEAKAGE OF THE R22 REFRIGERANT.

THE LEAK DETECTION PANEL IS LOCATED IN THE BACK CORRIDOR OUTSIDE THE CER ROOM. ON DETECTION OF A LEAK A SIGNAL IS SENT TO THE BMS.

EACH AIR CONDITIONING UNIT IN THE CER ROOM HAS FAULT INDICATION LINKED TO THE BMS.