LEAK ALARM AND CONTROL SEQUENCE OF OPERATIONS

REFRIGERANT LEAK CONTROL SEQUENCE OF OPERATION FOR COOLERS AND FREEZERS:

THE LEAK DETECTION CONTROL MODULES, UPON REGISTERING A CONCENTRATION THAT IS: ONE-HALF OF THE IDLH OR AT THE OEL; WHICHEVER IS LESS, SHALL:

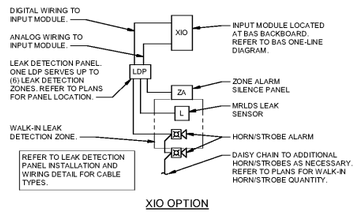
1. ACTIVATE VISUAL AND AUDIBLE ALARMS FOR THE ZONE INDICATING THE LEAK.
2. ENABLE AN AUTOMATIC SHUTDOWN OF THE LLSV TO ISOLATE THE REFRIGERANT FLOW IN THE CIRCUIT IN ALARM.

AUDIBLE / VISUAL DEVICES INSIDE COOLERS AND FREEZERS SHALL BE INSTALLED IN WEATHERPROOF JUNCTION BOXES, REFERENCE LEAK DETECTOR INSTALLATION DETAIL.

AUDIBLE / VISUAL DEVICES SHALL ANNUNCIATE AT A SOUND PRESSURE LEVE THAT IS A MINIMUM OF 15 DBA ABOVE THE AMBIENT NOISE LEVEL.

LEGEND

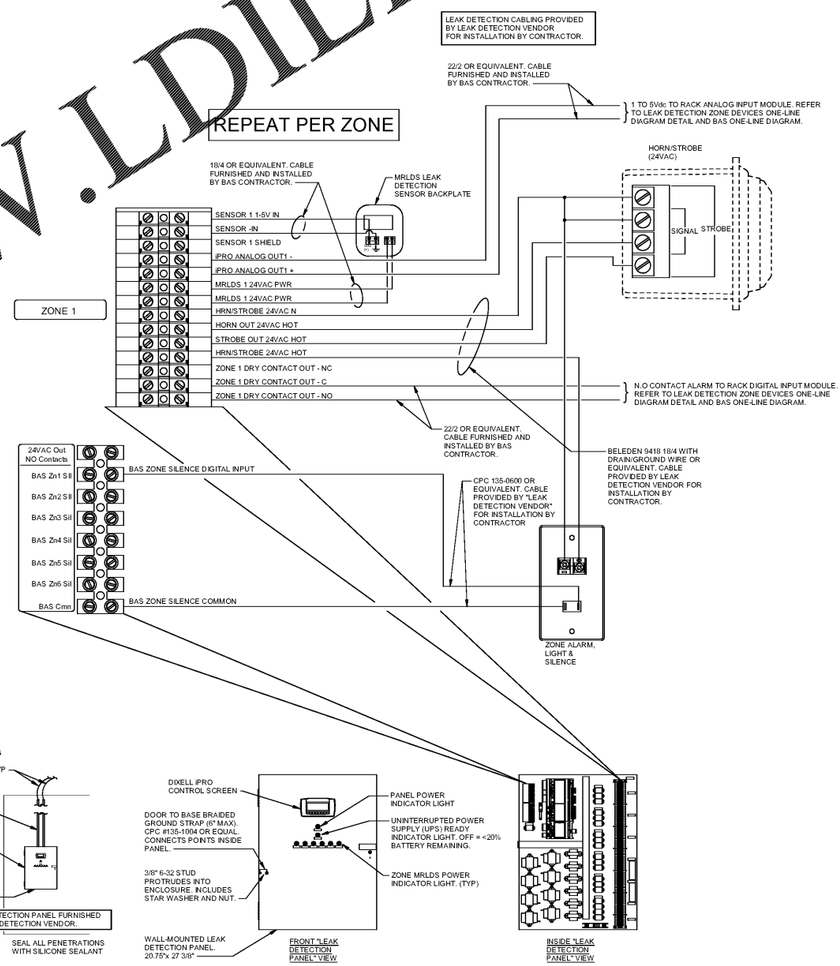
OEL:	OCCUPATIONAL EXPOSURE LIMIT	TWA:	TIME WEIGHTED AVERAGE	LLSV:	LIQUID LINE SOLENOID VALVE
IDLH:	IMMEDIATELY DANGEROUS TO LIFE OR HEALTH	SPL:	SOUND PRESSURE LEVEL	EPR:	EVAPORATOR PRESSURE REGULATOR

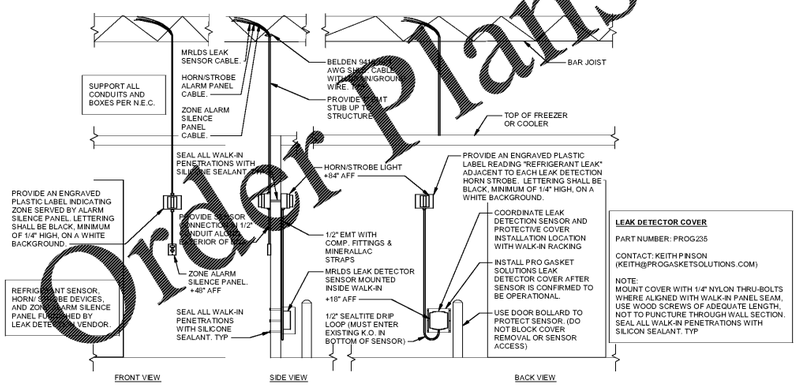


XIO OPTION

3 LEAK DETECTION ZONE DEVICES ONE-LINE DIAGRAM

NTS 03.01.19





LEAK DETECTOR COVER

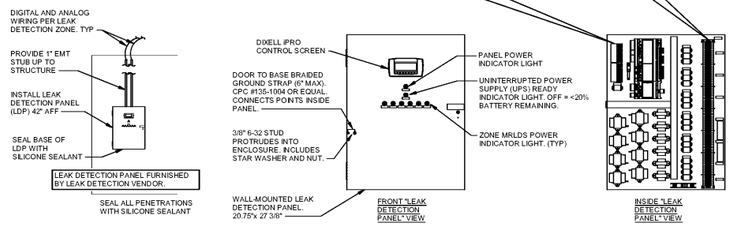
PART NUMBER: PROG235

CONTACT: KEITH PINSON (KEITH@PROGASKETSOLUTIONS.COM)

NOTE:
MOUNT COVER WITH 1/4" NYLON THRU-BOLTS WHERE ALIGNED WITH WALK-IN PANEL SEAM, USE WOOD SCREWS OF ADEQUATE LENGTH, NOT TO PUNCTURE THROUGH WALL SECTION. SEAL ALL WALK-IN PENETRATIONS WITH SILICON SEALANT. TYP

2 COOLER/FREEZER LEAK DETECTION DEVICE MOUNTING

1/8" = 1'-0" 03.01.19



1 LEAK DETECTION PANEL INSTALLATION AND WIRING DETAIL

NTS

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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DOCUMENT DATE:	03/31/21

ALABAMA LICENSED No. 39430-E PROFESSIONAL ENGINEER DUSTIN R. PADGET

03/30/2021

REFRIGERATION BUILDING AUTOMATION SYSTEM DETAILS

SHEET
BAS4

DUSTIN R. PADGET