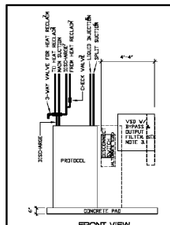
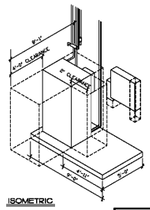


FRONT VIEW



ISOMETRIC

DRAWING NOTES:

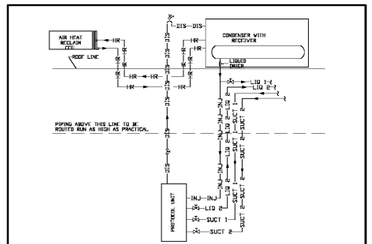
1. NOT USED.
2. NOT USED.
3. VSB CABINET SIZE VARIES WITH RATED HORSEPOWER OF COMPRESSOR. 1 HP & BY CABINET SHALL BE 24"W x 24"D x 8'-0" H. 2 HP & 3 HP CABINET SHALL BE 30"W 30"D 78"H MIN.
4. NOT USED.
5. LIQUID INJECTION PIPING ONLY REQUIRED IN LOW TEMP APPLICATIONS. REFER TO RISD-11, RISD-44B AND RISD-44C DRAWINGS.
6. SPLIT SUCTION PIPING NOT ALWAYS REQUIRED. REFER TO RISD-11, RISD-44B AND RISD-44C DRAWINGS.
7. RECLAIM VALVE, DISCH VALVE, AND ASSOCIATED PIPING ONLY LOCATED AT PROTOCOL IN WARM RECLAIM APPLICATIONS.

GENERAL NOTES:

- ALL ELECTRICAL AND REFRIGERATED EQUIPMENT TO BE INSTALLED BY KROGER AND FIELD INSTALLED BY THE CONTRACTOR.
- PROTOCOL TO BE PLACED NO MORE THAN 18' OFF OF WALL.

HUSSMANN VERTICAL PROTOCOL EQUIPMENT (CASE CONTROLLED)	DATE: 6/14/17 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-11A

ORIGINAL ISSUE DATE 06/14/17



LEGEND:

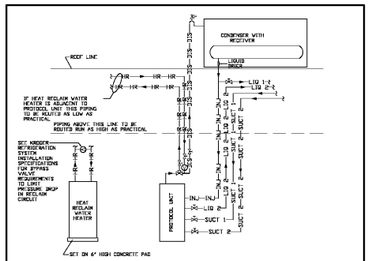
- DIS — DISCHARGE
- HR — HEAT RECLAIM
- LIQ 1 — NONECONOMIZED LIQUID LINE
- LIQ 2 — ECONOMIZED LIQUID LINE -OF UNIT HAS VAPOR INJECTED COMPRESSORS -INSULATED
- SUCT 1 — SUCTION GROUP 1 SUCTION LINE -INSULATED
- SUCT 2 — SUCTION GROUP # SUCTION LINE -IF UNIT IS SPLIT SUCTION -INSULATED
- INJ — INJECTION LINE -IF UNIT HAS LIQUID OR VAPOR INJECTED COMPRESSORS
- BALL VALVE BY REFRIGERATION CONTRACTOR WHERE REQUIRED.
- PURGE VALVE BY REFRIGERATION CONTRACTOR

NOTE:

SEE SHEET RISD FOR PIPE SIZING.

PROTOCOL PIPING DETAIL AIR RECLAIM – TYPICAL	DATE: 6/14/17 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-12A

ORIGINAL ISSUE DATE 9/11/09



LEGEND:

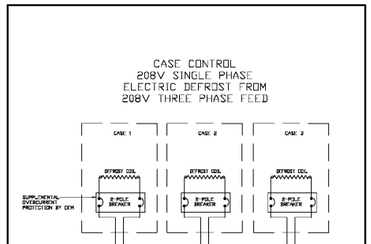
- DIS — DISCHARGE
- HR — HEAT RECLAIM
- LIQ 1 — NONECONOMIZED LIQUID LINE
- LIQ 2 — ECONOMIZED LIQUID LINE -OF UNIT HAS VAPOR INJECTED COMPRESSORS -INSULATED
- SUCT 1 — SUCTION GROUP 1 SUCTION LINE -INSULATED
- SUCT 2 — SUCTION GROUP # SUCTION LINE -IF UNIT IS SPLIT SUCTION -INSULATED
- INJ — INJECTION LINE -IF UNIT HAS LIQUID OR VAPOR INJECTED COMPRESSORS -EXISTS PER PROTOCOL STUDY
- BALL VALVE BY REFRIGERATION CONTRACTOR WHERE REQUIRED.
- CHECK VALVE BY CONTRACTOR (SERVICEABLE WHEN LARGER THAN 7/8")
- PURGE VALVE BY REFRIGERATION CONTRACTOR
- 3-WAY SOLENOID VALVE FOR HEAT RECLAIM SHIPPED LOOSE BY MANUFACTURER, FIELD INSTALLED AND WIRED BY CONTRACTOR.

NOTE:

SEE SHEET RISD FOR PIPE SIZING.

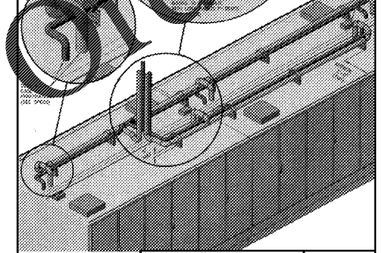
PROTOCOL PIPING DETAIL WATER RECLAIM – TYPICAL	DATE: 6/14/17 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-12B

ORIGINAL ISSUE DATE 9/11/09



CASE CONTROL ELECTRIC DEFROST WIRING 3 PH HOME RUN	DATE: 11/18/15 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-13A

ORIGINAL ISSUE DATE 11/18/15



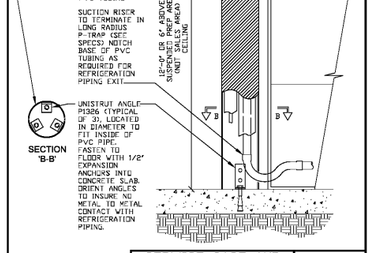
Note:

ATTACHMENTS CAN BE MADE TO EITHER TOP CHORD OF JOIST OR UNISTRUT CHANNEL SPANNING TOP JOIST. ATTACHMENT OF FIXTURES TO BOTTOM CHORD OF STEEL OR ROOF METAL DECKING WILL NOT BE PERMITTED.

Detail Based on:

REFRIGERATION PIPE SUPPORT DETAIL	DATE: 6/14/17 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-33

ORIGINAL ISSUE DATE 7/23/12



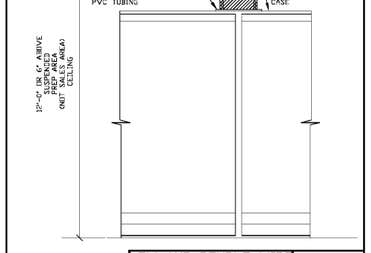
INSTALLATION STEP 1

INSTALLATION STEP 2
(ALL INSULATED PIPING)

NOTE:
1. STEPS A AND B REQUIRED FOR SUCTION AND SUBCOOLED LIQUID LINES ONLY.

WALL MOUNTED REFRIGERATION PIPING RISER SUPPORT	DATE: 6/14/17 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-34

ORIGINAL ISSUE DATE 1/14/13



INSTALLATION STEP 1

INSTALLATION STEP 2
(ALL INSULATED PIPING)

NOTES:
1. STEPS A AND B REQUIRED FOR SUCTION AND SUBCOOLED LIQUID LINES ONLY.
2. WITHIN STUD SPACE, UNISTRUT CHANNEL SERIES P4000 OF EQUIVALENT MANUFACTURER'S HEIGHT TO BE USED DUE TO SPACE CONSTRAINTS.

STUD WALL CAVITY REFRIGERATION PIPING RISER	DATE: 6/14/17 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-34A

ORIGINAL ISSUE DATE 11/5/13

INSTALLATION STEP 2
(ALL INSULATED PIPING)

NOTES:
1. MIDPOINT SUPPORT REQUIRED FOR ALL RISERS 10'-0" OR GREATER. WIDTH OF UNISTRUT VARIES WITH QUANTITY AND DIAMETER OF RED REFRIGERATION PIPING. REFER TO RISD-34.
2. MIDPOINT SOL TRAP REQUIRED FOR SUCTION RISERS THAT EXTEND 10'-0" OR GREATER ABOVE CASE TOP.
3. STEPS A AND B REQUIRED FOR SUCTION AND INSULATED SUBCOOLED LIQUID LINES ONLY.
4. PIPES SHOWN APPEAR TO BE SPREAD APART, WIDER THAN IN FIELD CONDITION TO HELP ILLUSTRATE DETAIL.

FREESTANDING REFRIGERATION PIPING RISER SUPPORT	DATE: 6/14/17 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-34B

ORIGINAL ISSUE DATE 1/30/15

CASE TOP PIPING	DATE: 6/14/17 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-35

ORIGINAL ISSUE DATE 11/5/13

SERVICE CASE AND SINGLE WIDE ISLAND REFRIGERATION RISERS	DATE: 3/9/18 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-36

ORIGINAL ISSUE DATE 6/14/17

LOW AND DOUBLE WIDE ISLAND REFRIGERATION RISERS	DATE: 3/9/18 SCALE: NONE DRAWN: ZAV
MASTER SPECIFICATION DETAIL	RISD-36A

ORIGINAL ISSUE DATE 6/14/17

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ISSUE LOG

NO.	REV.	DESCRIPTION	DATE
1	-	PERMIT SET	12/06/18
2	-	BID SET	03/21/19

JOB:	SCALE:
2018041	NOT TO SCALE

SHEET NO.

R5.1

REFRIGERATION INSTALLATION STANDARD DETAILS (RISD)

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