

GENERAL NOTES:

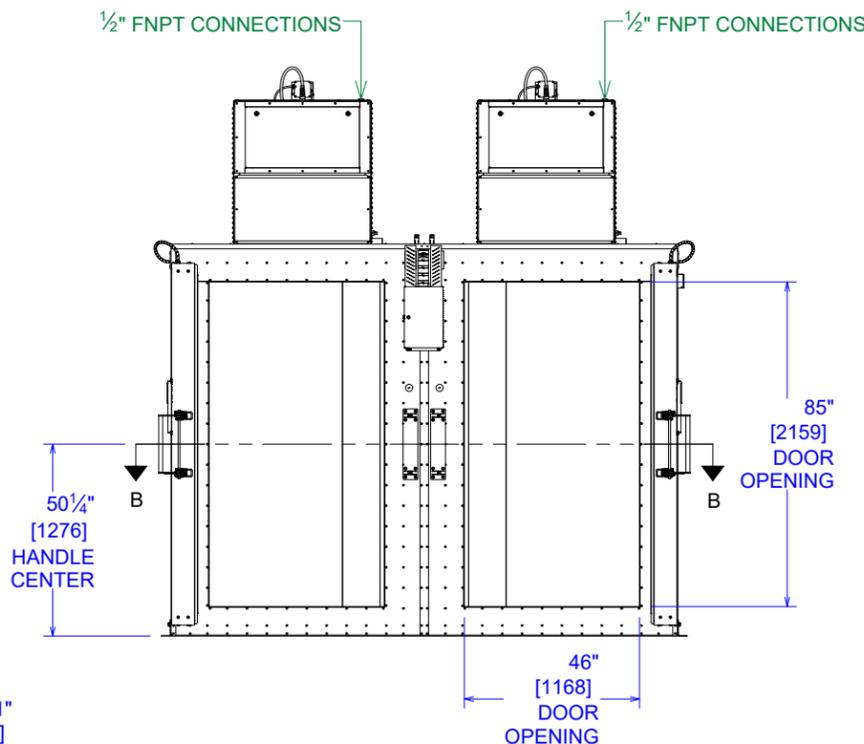
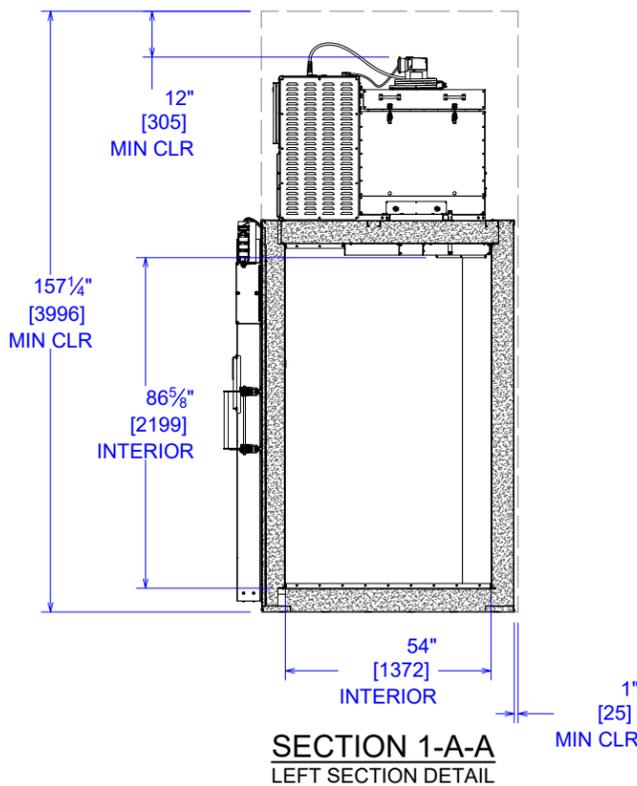
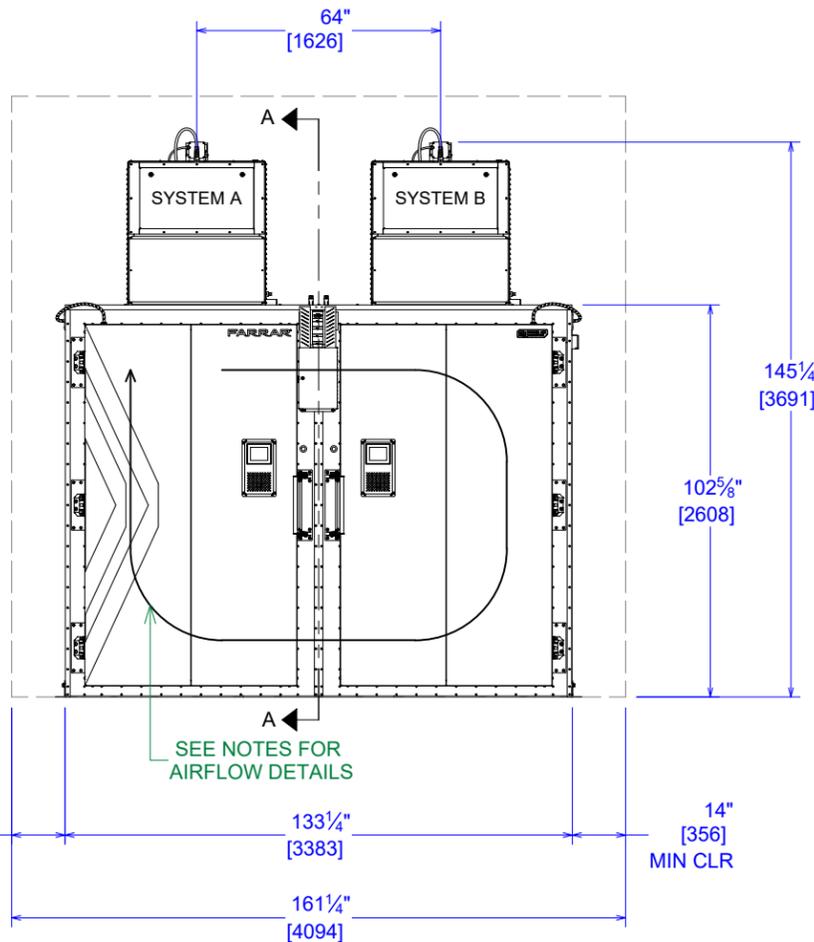
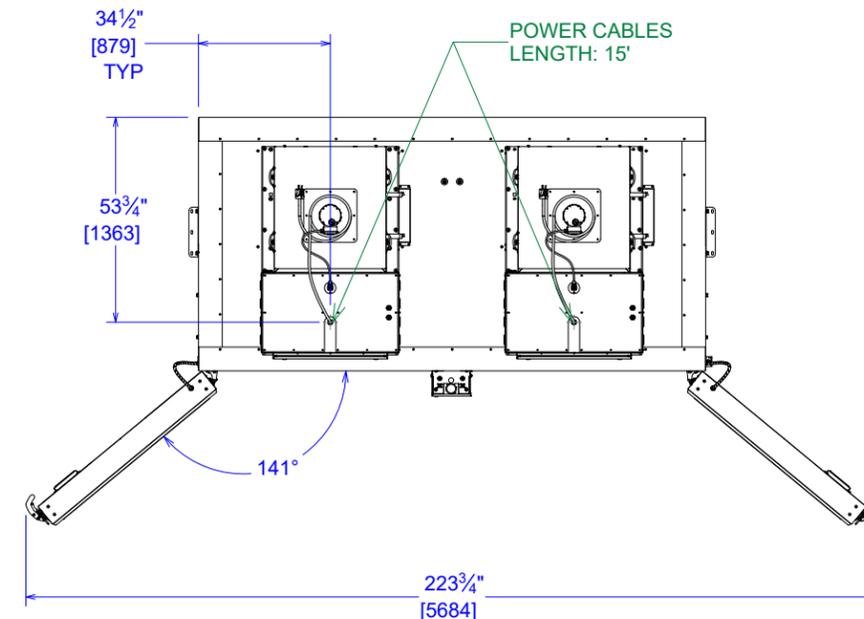
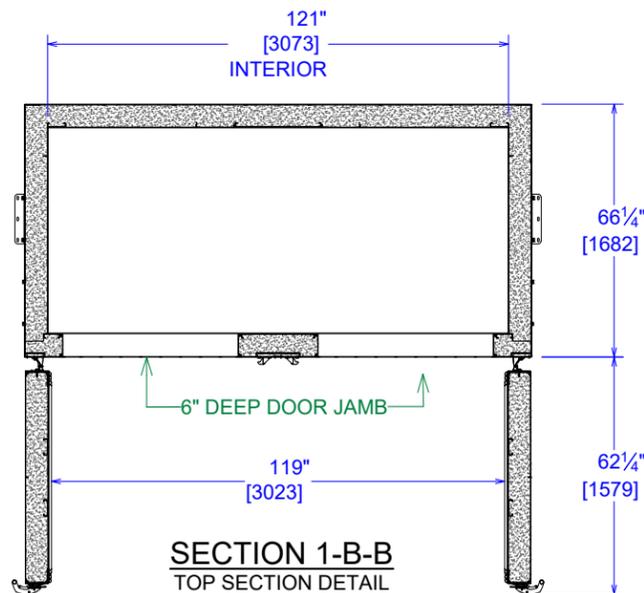
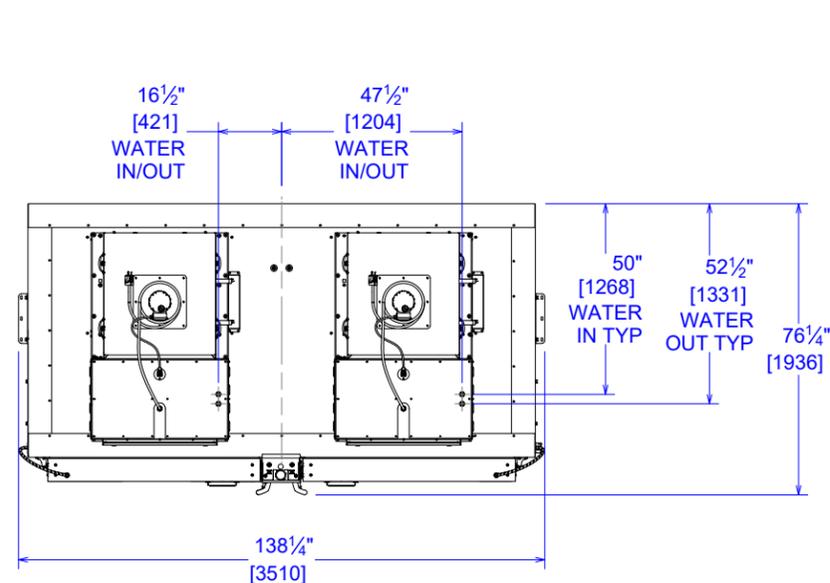
1. THE INTERNAL FORCED AIR CIRCULATION SHOWN IS FOR SYSTEM "A" (CLOCKWISE). SYSTEM "B" (COUNTER CLOCKWISE) IS A MIRROR TO SYSTEM "A".
2. HEAT REJECTION TO ATMOSPHERE @ -80 °C:
MAXIMUM i
 = 28,000 Btu/hr (8.2 kW) TO WATER
 = 1800 Btu/hr (0.52 kW) TO AMBIENT
MINIMUM
 NORMAL OPERATION, 1 SYSTEM @ 75-80%
 = 12,000 Btu/hr (3.5 kW) TO WATER
 < 900 Btu/hr (0.26 kW) TO AMBIENT
AVERAGE - NORMAL OPERATION, 1-2 DOOR OPENING/hr, 1 SYSTEM DEFROST
 = 14,000 Btu/hr (4.1 kW) TO WATER
 = 1,000 Btu/hr (0.29 kW) TO AMBIENT
3. INCLUDES (2) FLOOR ANCHOR BRACKETS. (TO BE INSTALLED BY CUSTOMER)

WATER REQUIREMENTS:

- PRESSURE DIFFERENTIAL ≈ 20 psi (1.4 bar)
1. CHILLED WATER i
 WATER TEMPERATURE ≤ 10 °C
 MAXIMUM FLOW RATE = 3.5 gpm (14 LPM)
 AVERAGE FLOW RATE = 2.0 gpm (8 LPM)
 2. WATER CONNECTIONS ARE 1/2" FNPT.
 FOR ULCi UNITS, A 1/2" MNPT x M20 x 1.5 FEMALE ADAPTER IS PROVIDED.

MATERIAL HANDLING:

1. CART SYSTEM OPTION:
 FEATURES (4) STAINLESS STEEL PRODUCT CARTS, (4) GUIDES, AND (2) FLOOR INSERTS. CARTS INCLUDE (6) SHELVES WITH SWIVEL-LOCKING CASTERS, FORK POCKETS AND CANE PIN FOR SECURING IN FREEZER.
2. PALLET RACK OPTION:
 FEATURES (1) STAINLESS STEEL PALLET RACK WITH (1) SHELF. EXTRA SHELVES AVAILABLE.
3. OTHER OPTIONS INCLUDE A SHELVING SYSTEM AND BIORACKING SYSTEM FOR STANDARD CRYORACKS.



i TOTAL FOR BOTH REFRIGERATION SYSTEMS.

POWER REQUIREMENTS

UNIT	ELECTRICAL REQUIREMENTS	BREAKER SIZE	PLUG SPEC	RECEPTACLE SPEC
ULC (DOMESTIC)	208/240 VAC - 1 PHASE - 60 HZ 24 FLA: 2 WIRES + GND	30A	NEMA L6-30P, LOCKING PLUG	L6-30P FEMALE RECEPTACLE/CONNECTOR, 2 L, 1GND
ULCi (INTERNATIONAL)	230 VAC - 1 PHASE - 50HZ 24 FLA: 2 WIRES + GND	32A	IEC 60309 6 HOUR PLUG, 2P 3W	IEC 60309- 6 HOUR RECEPTACLE/CONNECTOR, 2P 3W (1L, 1N, 1GND)

TOLERANCES

- .x ±.1
- .xx ±.03
- .xxx ±.015
- .xxxx ±.0005
- ANGLE ±1°
- FRACTIONAL ±1/16
- DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

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SPECIFICATIONS, ULC-328, WATER-COOLED

SIZE	DWG NO	REV
B	ULC-328, WATER-COOLED	2
DRAWN BY	DRAWN DATE	
B. IRWIN	8/18/2025	
APPROVED BY	APPROVAL DATE	
J. HESSLER	8/18/2025	
REFERENCE	SCALE	SHEET 1 OF 1
N/A	1 / 48	