

# A5FGN & A5FGGB (back-to-back) Specifications

Specifications are subject to change without notice

## Alpine Series Glass Door Merchandisers for Frozen Foods & Ice Cream

### REFRIGERATION DATA:

MODEL	CASE LENGTH	CASE USAGE	DOOR TYPE	CAPACITY (BTUH / DR) <sup>1</sup>		EVAPORATOR (°F) <sup>2</sup>	UNIT SIZING (°F)	DISCHARGE AIR (°F)	AVG. REF. CHARGE (LBS/DR) <sup>3</sup>
				PARALLEL	CONVENTIONAL				
A5FGN	ALL	FROZEN	ANTHONY 101	1,280	1,357	-7°	-10°	-3°	1.5
A5FGN	ALL	ICE CREAM	ANTHONY 101	1,360	1,442	-16°	-19°	-12°	1.5
A5FGN	ALL	FROZEN	ANTHONY ELM	1,080	1,145	-7°	-10°	-3°	1.5
A5FGN	ALL	ICE CREAM	ANTHONY ELM	1,150	1,219	-16°	-19°	-12°	1.5
A5FGN	ALL	FROZEN	ANTHONY ELM II	1,080	1,145	-7°	-10°	-3°	1.5
A5FGN	ALL	ICE CREAM	ANTHONY ELM II	1,150	1,219	-16°	-19°	-12°	1.5

#### Refrigeration Footnotes:

1. Capacity data listed are for cases with SSC / ECM fan motors and T8 electronic vertical lighting on a parallel rack system. T8 lights should remain on at all times (24 hours) for best operation.

**ADD:** 40 BTUH per door for cases using standard PSC fan motors.

**ADD:** 900 BTUH per end-panel for frozen foods or 1,000 BTUH per end-panel for ice cream applications when choosing the glass patch-end option.

**DEDUCT:** 75 BTUH per door on Back-to-Back (BB) case for frozen foods & 85 BTUH per door on Back-to-Back (BB) case for ice cream.

2. Evaporator temperature is based on the saturated pressure leaving the case.

3. Average refrigerant charge per door based upon R22 and R404A refrigerant usage.

• **DEDUCT:** 75 BTUH per door for LED lighting (assuming lighting is on at all times).

• For compressor sizing information on parallel racks, contact a Tyler Applications Representative.

• For compressor sizing information on single compressor units, review the guidelines from the compressor manufacturer.

• For Line Sizing information, see the A5FGN / A5FGGB Installation and Service Manual (ISM).

• Case BTUH requirements are calculated to approximate the entering-air temperature with maximum operating ambient temperature limits of 75°F & 55RH.

### ELECTRICAL DATA:

Fans and T8 Lighting with Electronic Ballasts or LED Lighting with Electronic Drivers (115 Volts)

MODEL	DOORS PER SIDE	FANS PER SIDE	TOTAL FOR PSC FANS		TOTAL FOR SSC / ECM FANS		VERTICAL T8 (58-WATT)		LED LIGHTING			
			AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	ANTHONY OPTIMAX 2		G.E. IMMERSION	
									AMPS	WATTS	AMPS	WATTS
A5FGN	2	2	0.46	60	0.60	40	1.45	174	0.57	66	0.47	54
A5FGN	3	3	0.69	90	0.90	60	1.94	233	0.85	98	0.73	84
A5FGN	4	4	0.92	120	1.20	80	2.42	290	1.13	130	0.98	113
A5FGN	5	5	1.15	150	1.50	100	2.91	349	1.41	162	1.19	137

MODEL	NO. OF DOORS	ANTI-SWEAT HEATERS (115V) *						DEFROST HEATERS (208V)	
		ANTHONY 101		ANTHONY ELIMINAATOR (ELM)		ANTHONY ELIMINAATOR II		AMPS	WATTS
		AMPS	WATTS	AMPS	WATTS	AMPS	WATTS		
A5FGN	2	3.55	408	2.13	245	1.75	201	8.08	1,680
A5FGN	3	5.10	587	2.97	342	2.40	276	12.16	2,530
A5FGN	4	6.67	767	3.83	440	3.07	353	16.15	3,360
A5FGN	5	8.27	951	4.72	543	3.77	434	20.19	4,200

#### Electrical Notes:

• All tabular electrical data shown above are for one sided cases only. Values for back-to-back (BB) versions are doubled.

• \* Anti-sweat data contains values for both the doors and main-frame.

• Door Heating: 1) Anthony 101 Standard Energy Doors = Heated glass and rails, 2) Anthony Eliminaator Low Energy Doors = No-heat glass and heated rails, 3) Anthony Eliminaator II No Energy Doors = No-heat glass and No-heat rails. All options have main-frame heat.

• Fan amps are based on electrical nameplate values from the motor manufacturer. Fan watts are base on actual use in the laboratory.

### DEFROST DATA: (For more detailed defrost information, see the A5FGN / A5FGGB Installation and Service Manual (ISM))

APPLICATION	DEFROSTS PER DAY	DURATION TIME (MIN)			EPR SETTINGS		DEFROST WATER (LB / DR / DAY)
		ELECTRIC	HOT GAS	REDUCED TEMP GAS	R22 (PSIG)	R404A (PSIG)	
FROZEN FOODS	1	45	30	40	18.6	26.5	1.0
ICE CREAM	1	45	30	40	12.5	19.2	1.0

208 VOLT DEFROST AMPS for frozen foods & ice cream (by number of doors)																
PHASE	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1 PH	8.08	12.16	16.15	20.19	24.37	28.31	32.30	36.34	40.38	(Check with application engineer re: cut-off for separate circuit due to high amp draw)						
3 PH	8.08	12.16	16.15	20.19	21.06	24.60	29.97	31.54	34.97	27.97	27.97	31.54	34.97	34.97	42.73	

#### Defrost Notes:

• Defrost duration times are fail-safe. Tyler recommends temperature-terminated defrosting, not time-only terminated defrosting.

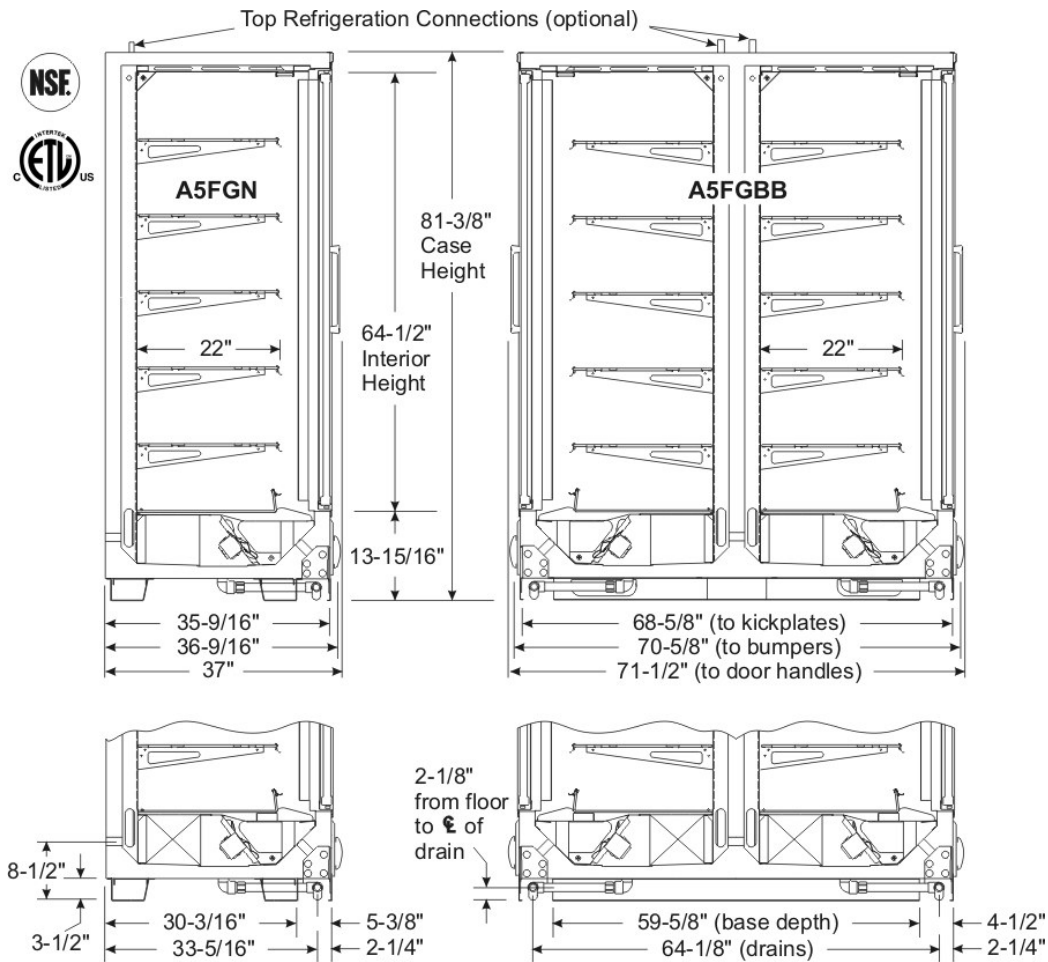
• This case requires a separate 115V circuit for fans, lights, anti-sweats, and drain pan heater. It requires a 208V circuit for electric defrost heaters. The anti-sweat circuit feeds power to both the cyclable and non-cyclable heaters.

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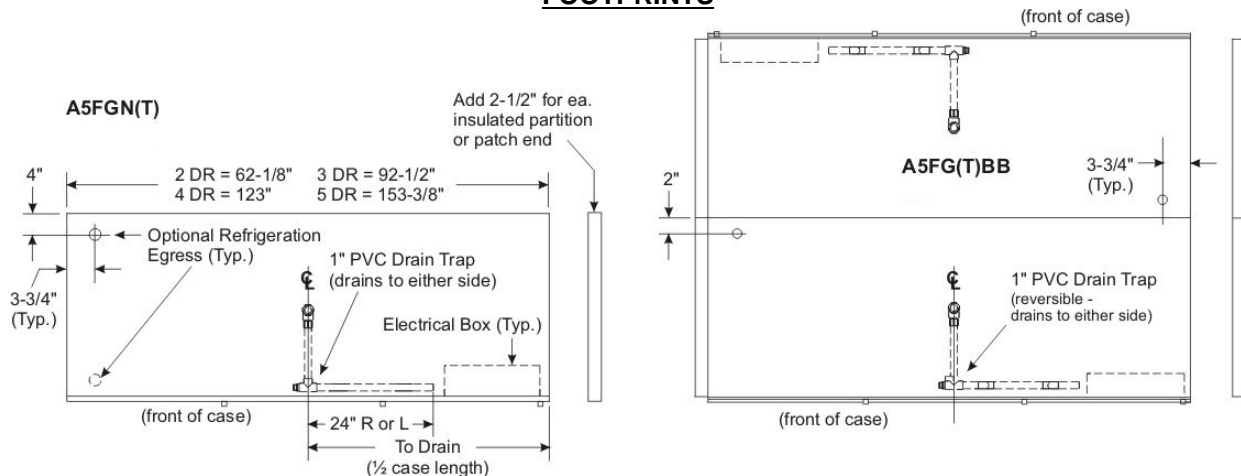
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## Alpine Series Glass Door Merchandisers for Frozen Foods & Ice Cream

### CROSS SECTION



### FOOTPRINTS



### ADDITIONAL NOTES:

- Top refrigeration connection or top electrical connections increase case height by up to 4 inches.
- Back-to-back's (BB) are available in 2, 3, 4, and 5-door variations per side.
- The temperature control mode should prevent excessively low discharge air temperatures, which irritates product frosting.

This information is based on technical analysis and/or tests performed in a controlled lab environment, consistent with industry practices. It is intended as a reference only and for use by persons having technical skill at their own discretion and risk. Conditions of use are outside of Tyler's control and we do not assume and hereby disclaim any liability for results obtained or damages incurred through application of or reliance on the data presented, including but not limited to specific energy consumption with any particular model or installed application.