A5NGN & A5NGBB (back-to-back) Specifications

Alpine Series Glass Door Merchandisers for Medium Temperature Products

REFRIGERATION DATA:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>CASE USAGE</th>
<th>DOOR TYPE</th>
<th>CAPACITY (BTUH / DR) 1</th>
<th>EVAPORATOR (°F) 2</th>
<th>UNIT SIZING (°F)</th>
<th>DISCHARGE AIR (°F)</th>
<th>AVG. REF. CHARGE (LBS/DR) 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5NGN</td>
<td>ALL</td>
<td>MED TEMP</td>
<td>ANTHONY 101</td>
<td>810</td>
<td>28°</td>
<td>26°</td>
<td>33°</td>
<td>1.5</td>
</tr>
<tr>
<td>A5NGN</td>
<td>ALL</td>
<td>MED TEMP</td>
<td>ANTHONY ELM</td>
<td>670</td>
<td>28°</td>
<td>26°</td>
<td>33°</td>
<td>1.5</td>
</tr>
</tbody>
</table>

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: 20 BTUh per door for cases using standard PSC fan motors.
   - ADD: 410 BTUh per end-panel when choosing the glass patch-end option.
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 A5NGN / A5NGBB 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)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DOORS PER SIDE</th>
<th>FANS PER SIDE</th>
<th>TOTAL FOR PSC FANS</th>
<th>TOTAL FOR SSC / ECM FANS</th>
<th>VERTICAL T8 (58-WATT)</th>
<th>LED LIGHTING</th>
<th>ANTHONY OPTIMAX 2</th>
<th>G.E. IMMERSION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>AMPS</td>
<td>WATTS</td>
<td>AMPS</td>
<td>WATTS</td>
<td>AMPS</td>
<td>WATTS</td>
</tr>
<tr>
<td>A5NGN</td>
<td>2</td>
<td>2</td>
<td>0.30</td>
<td>38</td>
<td>0.60</td>
<td>24</td>
<td>1.45</td>
<td>174</td>
</tr>
<tr>
<td>A5NGN</td>
<td>3</td>
<td>3</td>
<td>0.45</td>
<td>57</td>
<td>0.90</td>
<td>36</td>
<td>1.94</td>
<td>233</td>
</tr>
<tr>
<td>A5NGN</td>
<td>4</td>
<td>4</td>
<td>0.60</td>
<td>76</td>
<td>1.20</td>
<td>48</td>
<td>2.42</td>
<td>290</td>
</tr>
<tr>
<td>A5NGN</td>
<td>5</td>
<td>5</td>
<td>0.75</td>
<td>95</td>
<td>1.50</td>
<td>60</td>
<td>2.91</td>
<td>349</td>
</tr>
</tbody>
</table>

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 Low Energy Doors = No-heat glass and heated rails, 2) Anthony Eliminator 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:

<table>
<thead>
<tr>
<th>DEFROST TYPE</th>
<th>DEFROSTS PER DAY</th>
<th>DURATION TIME (MIN)</th>
<th>EPR SETTINGS</th>
<th>DEFROST WATER (LB / DR / DAY)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>R22 (PSIG)</td>
<td>R404A (PSIG)</td>
</tr>
<tr>
<td>TIME OFF</td>
<td>3</td>
<td>52.4</td>
<td>66.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Defrost Notes:
- For more detailed defrost information, see the A5NGN / A5NGBB Installation and Service Manual (ISM).
- This case requires a separate 115V circuit for fans, lights, anti-sweats, and drain pan heater. The anti-sweat circuit feeds power to both the cyclable and non-cyclable heaters.
A5NGN & A5NGBB (back-to-back) Specifications
Alpine Series Glass Door Merchandisers for Medium Temperature Products

CROSS SECTION

Top Refrigeration Connections (optional)

A5NGN

81-3/8" Case Height
64-1/2" Interior Height
35-9/16" 36-9/16" 37"

22"

A5NGBB

68-5/8" (to kickplates)
70-5/8" (to bumpers)
71-1/2" (to door handles)

2-1/8" from floor to top of drain

8-1/2"

30-3/16" 33-5/16" 5-3/8" 2-1/4"

59-5/8" (base depth)

64-1/8" (drains)

4-1/2" 2-1/4"

FOOTPRINTS

A5NGN(T)

2 DR = 62-1/8"
3 DR = 92-1/2"
4 DR = 123"
5 DR = 153-3/8"

Optional Refrigeration Egress (Typ.)

Add 2-1/2" for ea. insulated partition or patch end

1" PVC Drain Trap (drains to either side)

Electrical Box (Typ.)

24" R or L To Drain (½ case length)

(front of case)

(front of case)

A5NG(T)BB

3-3/4" (Typ.)

(front of case)

(front of case)

1" PVC Drain Trap (reversible - drains to either side)

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.