MARK II AIR SKREEN FOR DAIRY APPLICATIONS

LIGHTING: Standard one row of High Power Factor (HPF) lights in canopy, optional two row. One to five rows of lighted shelves optional in case. Each row in 8' case = 1.0A, 12' = 1.5A. Optional Nose Lights in DAS-H Cases (24" Front). Add .8A for 8', 1.3A for 12'.

OPTIONAL AIR DEFROST IS AVAILABLE and is recommended for faster, no cost defrosting. Also for energy savings in that the reversible fan motors utilized are more efficient! 8' case fan circuit - .6 amps, 54 watts. 12' case fan circuit - .9 amps, 81 watts.

MONTHLY SPECIFIC OPERATING COST PER FOOT OF CASE (S.C.)

<table>
<thead>
<tr>
<th>COND. UNIT</th>
<th>CASE</th>
<th>LIGHTS*</th>
<th>208V Defrost</th>
<th>TOTAL Cost/1kW</th>
<th>DEFROST CONTROL</th>
<th>PRESSURE CONT'L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8' 90W</td>
<td>90W</td>
<td>827</td>
<td>1210</td>
<td>1411</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>12' 135W</td>
<td>135W</td>
<td>1367</td>
<td>1955</td>
<td>2149</td>
<td>40</td>
<td>15</td>
</tr>
</tbody>
</table>

Actual Watts@115V: 1097

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MARK II AIR SKREEN FOR DAIRY OR DELI APPLICATIONS

SOLID BACK CASE (FRONT LOAD)

37" (38" Patch End)

78" Case

79" Patch End

61 10

18, 20 or 22"

31½

41½

33½

54½ Clear Opening

"16" Front - DAS - L Cases
"20" Front - DAS - M Cases
"24" Front - DAS - H Cases

"16" Front - DAS - L Cases
"16" Front - DAS - LS
"20" Front - DAS - MS
"24" Front - DAS - HS

SLIDE DOOR CASE (REAR LOAD)

36" (37" Patch End)

Upper Air-Skreen Cooler Section

58½ Clear Opening

COOLER OPENING 78½ x Length of Cases (Less Patch Ends)

Two openings 25½ x 33½ for 8 & 12" Cases

3½ x 33½ for 16 & 20" Cases

Third opening in center of 16½ x 36½

78" Case

61 10

20

32½

40½

31½

2½

Continued Electrical Raceway

SLIDE DOOR BACK MODELS

SLIDE DOOR CASES butt against the Walk-In Cooler opening. If cases are to be recessed, cooler sections must be specially cut for the application.

CASE PLAN VIEWS
Doors Extend 2" Back of Case

DOOR BACK MODELS MUST BE BACKED BY A REFRIGERATED SPACE

12" CASE - SOLID BACK

CENTER WASTE OUTLET
RUN FRONT OR BACK, RIGHT OR LEFT.

1" Water Seal Pipe

28" 37" Stub Up Dimension

CASE FRONT

36° Stub Up Dimension

10" Stub Up Dimension

10½ Stub Up Dimension

12½ Stub Up Dimension

Insulated Close-Off Shipped Loose

1¼ Toe Space

PLUGGED ACCESS HOLE 3½" Dia

11½ - 1"

12" CASE - SOLID BACK

8" CASE - SOLID BACK

REFRIGERATION LINES
1/8 SUCTION
3/8 LIQUID

ELECTRICAL

CASE FRONT

SECTION 4A Page 18

TYLER Refrigeration Corporation
Niles, Michigan 49120

D - 2

MK II AIR SKREEN DAIRY-DELI CASES

DAS

SG 00558 October, 1979
**MARK II AIR SKREEN FOR DELI APPLICATIONS**

**(Front or Rear Load)**

### Electrical Data

<table>
<thead>
<tr>
<th>BTUH Data at 15°F, Suction Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Opt. 208V Defrost</strong></td>
</tr>
<tr>
<td>ONE PHASE</td>
</tr>
<tr>
<td>CONTROL REQUIRED</td>
</tr>
<tr>
<td>----</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>FAN CIRC.</td>
</tr>
<tr>
<td>Only Leg(s)</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>MAX.</td>
</tr>
<tr>
<td>8 Row Amps</td>
</tr>
</tbody>
</table>

### Line Sizing

<table>
<thead>
<tr>
<th>Liquid</th>
<th>Electrical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R 12</strong></td>
<td><strong>TP-23</strong></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>12, 150V</td>
<td>1.2</td>
</tr>
<tr>
<td>12, 250V</td>
<td>1.6</td>
</tr>
<tr>
<td>220V</td>
<td>7.4</td>
</tr>
</tbody>
</table>

**Important!**

Case with no shell lights can be sized at reduced BTUH requirements. Reduce 8' case by 1080 Btu, 12' Case by 1600 Btu. (Based on not using four rows of shell lights). Find appropriate unit selection by interpolating new requirement on the Condensing Unit Selection Chart.

### Lighting

- Standard one row of High Power Factor (HPF) Lights in canopy, optional two row. One to five rows of lighted shelves optional in case. Each row in 8' case = 1.0A, 12' = 1.5A. Optional Nose Lights in DAS-H (24" Front). Add .8A for 8', 1.3A for 12'.

**Note:** Case requirements are determined at 15°F for this case.

### Optional Air Defrost is Available

And is recommended for faster, no cost defrosting. Also for energy savings in that the reversible fan motors utilized are more efficient! 8' case fan circuit - .6 amps, 54 watts. 12' case fan circuit - .9 amps, 81 watts.

### Monthly Specific Operating Cost per Foot of Case (S.O.C.)

<table>
<thead>
<tr>
<th>Cond.</th>
<th>Unit</th>
<th>Case</th>
<th>Lights*</th>
<th>208V Defrost</th>
<th>Total @ 1c/Kwh</th>
<th>Defrost Control</th>
<th>Pressure Cont'l</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,234</td>
<td>90</td>
<td>.801</td>
<td>.083</td>
<td>$1.317/Ft.</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>135</td>
<td>90W</td>
<td>90W</td>
<td>84W</td>
<td>135W</td>
<td>276W</td>
<td>4</td>
<td>60 Minutes</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td><strong>---</strong></td>
<td><strong>---</strong></td>
<td><strong>---</strong></td>
<td><strong>---</strong></td>
<td><strong>---</strong></td>
<td><strong>---</strong></td>
</tr>
<tr>
<td><strong>Actual Watts@115V</strong></td>
<td><strong>220V AMPs</strong></td>
<td><strong>120V AMPs</strong></td>
<td><strong>220V AMPs</strong></td>
<td><strong>120V AMPs</strong></td>
<td><strong>220V AMPs</strong></td>
<td><strong>120V AMPs</strong></td>
<td><strong>220V AMPs</strong></td>
</tr>
<tr>
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<td>---</td>
</tr>
</tbody>
</table>

**Case BTUH Requirements** are calculated to produce approximately +31°F entering case air temp with operating ambient limits of 75°F & 55%RH. **Suction Line Sizing:** Select the point of intersection of the case line-up and the equivalent footage. Allow for all fittings in addition to actual line length. **Step Sizing** is suggested for selections falling in the first half of size range. Pipe one size smaller can be used on the 50' of the run closest to cases when entire run is 100 feet equivalent or more. **Liquid Line Sizing** is based on 5°F pressure drop in 150' of line. See complete line size charts in front of the **TYLER SPEC GUIDE BOOK.**

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* Niles, Michigan 49120

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**MARK II AIR SKREEN FOR DELI**

SG 00559
Repl. 10/79, Rev. 2/80