

**SUBMITTAL DATA SHEET**

**SINGLE PACKAGE AIR CONDITIONERS**

**BOTTOM SUPPLY AND RETURN 25, 30 & 40 Ton**

**MODELS: M52, M53 & M54**

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**COOLING PERFORMANCE**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Capacity</td>
<td>____ MBH</td>
</tr>
<tr>
<td>Sensible Capacity</td>
<td>____ MBH</td>
</tr>
<tr>
<td>Outdoor Design Temp.</td>
<td>_____ °F DB/WB</td>
</tr>
<tr>
<td>Total Supply Air</td>
<td>_____ CFM</td>
</tr>
<tr>
<td>Temp. of Air Entering</td>
<td></td>
</tr>
<tr>
<td>Evaporator Coil</td>
<td>_____ °F DB/WB</td>
</tr>
<tr>
<td>Power Input Req.</td>
<td>_____ KW</td>
</tr>
<tr>
<td>(Compressors and Condenser Fan Motors)</td>
<td></td>
</tr>
</tbody>
</table>

**SUPPLY AIR BLOWER PERFORMANCE**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Supply Air</td>
<td>_____ CFM</td>
</tr>
<tr>
<td>Total Res. Ext. to Unit</td>
<td>_____ IWG</td>
</tr>
<tr>
<td>Blower Speed</td>
<td>_____ RPM</td>
</tr>
<tr>
<td>Power Output Req.</td>
<td>_____ BHP</td>
</tr>
<tr>
<td>Motor Rating</td>
<td>_____ HP</td>
</tr>
<tr>
<td>Motor Efficiency</td>
<td>High</td>
</tr>
<tr>
<td>Power Input Req.</td>
<td>_____ KW</td>
</tr>
</tbody>
</table>

**EXHAUST AIR FANS PERFORMANCE**

*(Optional)*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Return Air</td>
<td>_____ CFM</td>
</tr>
<tr>
<td>Total Res. Ext. to Unit (Return Air Side)</td>
<td>_____ IWG</td>
</tr>
<tr>
<td>Fan Speed</td>
<td>_____ RPM</td>
</tr>
<tr>
<td>Power Output Req.</td>
<td>_____ BHP</td>
</tr>
<tr>
<td>MTR RTN (EA.)</td>
<td>Eff</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td></td>
</tr>
<tr>
<td>Total Unit Ampacity</td>
<td>_____ AMPS</td>
</tr>
<tr>
<td>Minimum Wire Size</td>
<td>_____ AWG</td>
</tr>
<tr>
<td>Maximum Fuse Size</td>
<td>_____ AMPS</td>
</tr>
</tbody>
</table>

**TOTAL UNIT WEIGHT**

Including Factory-Installed Options: _____ LBS

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**FEATURES**

- Completely factory packaged
- Hermetically sealed scroll compressors
- Angled coils for hail protection
- Double wall construction
- Intertwined coil yields larger heat transfer surface
- Sloped, removable, drain pans
- Full factory charge of R-410A
- Mechanical cooling to 40°F
- Single power point connection
- Hi and low pressure/loss of charge switches
- ETL/cETL and CSA approval to applicable US and Canadian standards
- Powder paint to 1000 HR. ASTM B-117

**FACTORY INSTALLED OPTIONS**

**SUPPLY AIR**

- Constant Volume
- Variable Air Volume
- Inlet Guide Vanes
- Factory Installed VFD
- Prewired to Accept Field Supplied VFD
- Factory Installed VFD with Bypass

**OUTDOOR AIR**

- Adjustable Outdoor Air Damper
- Economizer
- Dry Bulb Control
- Single Input Enthalpy Control
- Dual Input Enthalpy Control
- Low Leak Economizer Seals

**EXHAUST AIR**

- Barometric Relief Air Damper
- Exhaust Air Fans
- Non-Modulating
- Modulating
- Factory Installed VFD
- Prewired to Accept Field Supplied VFD

**GAS-FIRED HEAT EXCHANGER (MODEL )**

- Input Capacity
- Gas Rate
- Standard Staged
- Modulating
- Stainless Steel Heat Exchanger

**RESISTANCE HEAT**

- Input
- Capacity
- Voltage
- Capacity
- Steam Temperature
- Water Temperature
- Water Pressure Drop
- Water Flow Rate

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Johnson Controls Unitary Products

5123375-TSD-A-0515
FACTORY INSTALLED OPTIONS (CONTINUED)

FILTERS
- 2" THROWAWAY
- 2" 35% EFFICIENT
- 6" RIGID (65%) EFFICIENT W/2" TA PREFILTER
- 6" RIGID (95%) EFFICIENT W/2" TA PREFILTER
- OTHER
- LOW AMBIENT (0°F)
- DISCONNECT
  - WITHOUT CONVENIENCE OUTLET
  - WITH CONVENIENCE OUTLET
- HOT GAS BYPASS (STANDARD W/VAV)
- PHENOLIC COATED CONDENSER COIL
- PHENOLIC COATED EVAPORATOR COIL

CONNECT
- COPPER/COPPER CONDENSER COIL
- COPPER/COPPER EVAPORATOR COIL
- POWDER COATED STEEL DRAIN PAN
- STAINLESS STEEL DRAIN PAN
- RUBBER IN SHEAR ISOLATORS (SUPPLY DRIVE)
- 1" DEFLECTION SPRINGS (SUPPLY DRIVE)
- 2" DEFLECTION SPRINGS (SUPPLY DRIVE)
- FORWARD CURVE FAN
- CLASS I
- CLASS II
- AIRFOIL FAN (CLASS II) COOLING ONLY
- STANDARD CABINET
- PREMIUM CABINET

FIELD-INSTALLED ACCESSORIES
- TEMPERATURE SENSOR
- TEMPERATURE SENSOR WITH OVERRIDE BUTTON
- TEMPERATURE SENSOR WITH SETPOINT ADJUSTMENT AND OVERRIDE BUTTON
- TRANSPORTER
- SPACE CO₂ SENSOR
- PHASE MONITOR KIT
- PARTIAL PERIMETER ROOF CURB
- BURGULAR BARS
- PROPANE CONVERSION KIT (GAS UNITS)
- HIGH ALTITUDE KIT (GAS UNITS)

CLEARANCES

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Front¹</td>
<td>60°</td>
</tr>
<tr>
<td>Back</td>
<td>60°</td>
</tr>
<tr>
<td>Left Side (Filter Access)</td>
<td>60°</td>
</tr>
<tr>
<td>Right Side (Condenser Coil)</td>
<td>60°</td>
</tr>
<tr>
<td>Below Unit²</td>
<td>60°</td>
</tr>
<tr>
<td>Above Unit³</td>
<td>10' with 36&quot; Maximum Horizontal Overhang (For Condenser Air Discharge)</td>
</tr>
</tbody>
</table>

1. Locate unit so that the vent air outlet hood is at least:
   - Three (3) feet above any forced air inlet located within 10 horizontal feet (excluding those integral to the unit).
   - Four (4) feet below, 4 horizontal feet from, or 1 foot above any door or gravity air inlet into the building.
   - Four (4) feet from electric meters, gas meters, regulators and relief equipment.
2. Units (Applicable in U.S.A. only) may be installed on combustible floors made from wood or class A, B or C roof covering material.
3. Units may be installed outdoor. Overhanging structures or shrubs should not obstruct condenser air discharge outlet.

Note: A 1" clearance must be provided between any combustible material and the supply air ductwork for a distance of 3 feet from the unit. The products of combustion must not be allowed to accumulate within a confined space and recirculate.
For Cooling Only and All Heating Applications

NOTE: The above unit drawing (40 Ton Units) shows the 15” condenser extension dimension in the plan view. The base dimension stays the same on all models.
NOTES

REFER TO THE UNIT TECHNICAL GUIDE FOR THE LIST OF STANDARD FEATURES
ATTACHED □   NOT ATTACHED □