

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

PERMIT ISSUED

| | | | | | |
|---|--|---|------------------------------|-----------------------------------|----------------------------|
| Location of Construction: 54 EVERGREEN DR | Owner Name: IMMUCELL CORPORATION | Owner Address: 56 EVERGREEN DR | Permit No: 07-0011 | Issue Date: JAN 12 2007 | CBL: 329 A003001 |
| Business Name: | Contractor Name: Air Temp | Contractor Address: 11 Wallace Ave South Portland | Phone: 2077742300 | | |
| Lessee/Buyer's Name | Phone: | Permit Type: HVAC | Zone: I-M | | |

| | | | | | |
|--|---|--|--|---------------------------|--|
| Past Use: Commercial | Proposed Use: Commercial Install a York gas furnace | Permit Fee: \$370.00 | Cost of Work: \$35,000.00 | CEO District: 5 | |
| Proposed Project Description: Install a York gas furnace | | FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied NIPAS4 | INSPECTION: Use Group: U Type: HVAC JAN 12 2007 | | |
| | | Signature: Greg C... | Signature: [Signature] | | |
| | | PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) | | | |
| | | Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied | | | |
| | | Signature: _____ Date: _____ | | | |

| | | | | |
|---|--|--|---|--|
| Permit Taken By: dmartin | Date Applied For: 01/02/2007 | Zoning Approval | | |
| <ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. | | Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 1/3/07 | Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: | Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: |

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

| | | | |
|---|---------|------|-------|
| SIGNATURE OF APPLICANT | ADDRESS | DATE | PHONE |
| RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE | | DATE | PHONE |

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|------------------------------|--|----------------------------|
| Permit No: 07-0011 | Date Applied For: 01/02/2007 | CBL: 329 A003001 |
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|---|--|---|---------------------------------|
| Location of Construction: 54 EVERGREEN DR | Owner Name: IMMUCELL CORPORATION | Owner Address: 56 EVERGREEN DR | Phone: |
| Business Name: | Contractor Name: Air Temp | Contractor Address: 11 Wallace Ave South Portland | Phone: (207) 774-2300 |
| Lessee/Buyer's Name | Phone: | Permit Type: HVAC | |

| | |
|---|--|
| Proposed Use: Commercial Install a York gas furnace | Proposed Project Description: Install a York gas furnace |
|---|--|

Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 01/03/2007

Note: **Ok to Issue:**

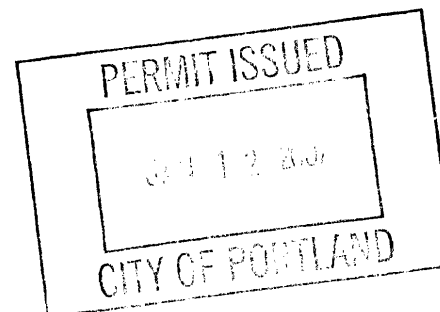
Dept: Building **Status:** Approved **Reviewer:** Tammy Munson **Approval Date:** 01/12/2007

Note: **Ok to Issue:**

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 01/05/2007

Note: **Ok to Issue:**

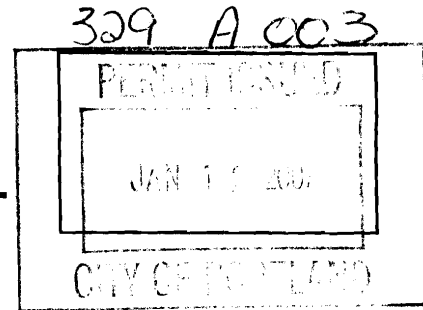
1) Install shall comply with NFPA 54





FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location 56 Evergreen dr. Use of Building Office Date 12/20/06
 Name and address of owner of appliance ImmuCell
56 Evergreen dr. Portland ME
 Installer's name and address Airtemp 11 Wallace Ave S. Portland ME 04106
 Telephone 774-7300

Location of appliance:

- Basement Floor
 Attic Roof

Type of Fuel:

- Gas Oil Solid

Appliance Name: Liebert / Savage York

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
 Solid Fuel # _____
 Oil # _____
 Gas # _____
 Other _____

Type of Chimney:

- Masonry Lined
 Factory built _____
 Metal
 Factory Built U.L. Listing # _____
 Direct Vent
 Type _____ UL# _____

Type of Fuel Tank

- Oil
 Gas

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

COST OF WORK \$35,000

Permit fee \$370.

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Signature of Installer [Signature]

Approved with Conditions

- See attached letter or requirement

51388

**SMALL SYSTEMS
MINI-MATE 2 1 & 1.5 TON
SPLIT SYSTEMS
ENGINEERING SPECIFICATION SHEET**

Project Name: IMMUCELL
Date: Nov 16, 2006
Reference No.: Q00936697
Submitted By: Shaun Dobbins

Model Number: MMD18E-PHS00 Qty: 2
Condensing Model Number: PFH020A-PL3 Qty: 2

ELECTRICAL SUPPLY REQUIREMENTS

Module: 208/230 Volts, 1 Phase, 60 Hertz, 31.2 Full Load Amps, 39.1 Wire Sizing Amps
Condensing Module: 208/230 Volts, 1 Phase, 60 Hertz, 10.7 Full Load Amps, 13.0 Wire Sizing Amps

NET CAPACITY DATA

- 72°F
- 50%RH
- Total – High Speed: 17700
Low Speed: 17200
- Sensible – High Speed: 14800
Low Speed: 13300

EVAPORATOR FAN

- Fan Motor Horsepower: 0.2
- Air Volume – High Speed: 750 CFM
Low Speed: 600 CFM
- External Static Pressure: .3 Inches of Water

REHEAT SECTION

- SCR Reheat: 16125 BTUH Includes Fan Motor

HUMIDIFIER SECTION

- Steam Generator – Capacity: 2.5 lbs/hr , 0.88 kW

CONDENSING SECTION

- Design Ambient: 95°F
- Outdoor Lee-Temp Propeller Condensing Unit

OPTIONAL EQUIPMENT

- Sweat Adapter Kit
- Supply and Return Grille Kit
- Disconnect Switch

SUBMITTAL DATA SHEET



CONDENSING HIGH EFFICIENCY DOWNFLOW/HORIZONTAL MODULATING GAS FURNACES MODELS: PC9*DH

| | | | | | |
|-------------------|--|------|--------------|-----------|---------------|
| JOB NAME: | | | LOCATION: | | |
| PURCHASER: | | | ORDER NO.: | | |
| ENGINEER: | | | | | |
| SUBMITTED TO: | | FOR: | REF: | APPROVAL: | CONSTRUCTION: |
| SUBMITTED BY: | | | DATE: | | |
| UNIT DESIGNATION: | | | SCHEDULE NO. | MODEL NO. | |

PRODUCT DATA

Heating Performance

Input Capacity _____ MBH
 Output Capacity _____ MBH
 Air Temp. Rise _____ °F

Supply Air Blower Performance

Total Supply Air _____ CFM
 Total External Static Pressure _____ IWG
 Blower Speed (circle) _____ HI MH ML L
 Motor Rating _____ HP

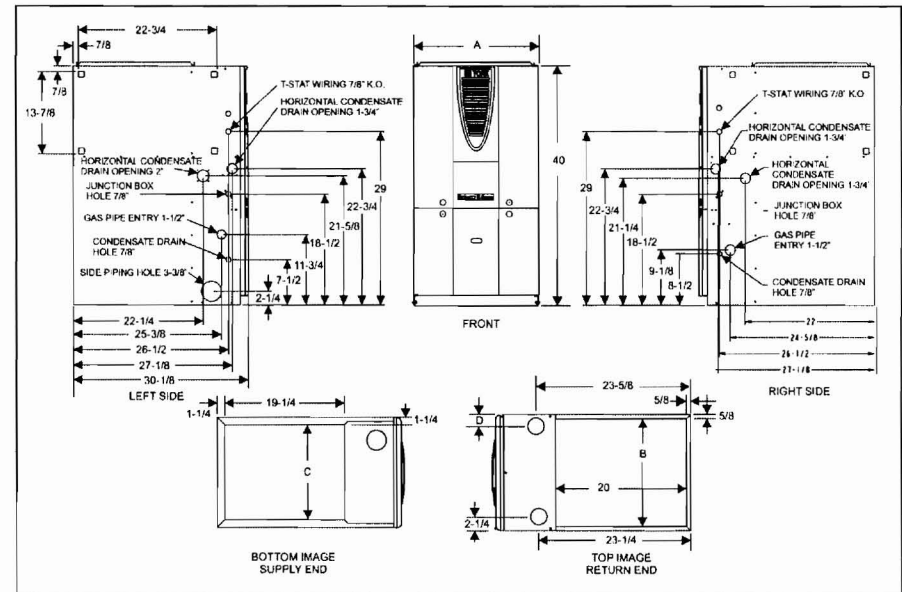
Electrical Data

Power Supply _____
 Total Unit Ampacity _____ AMPS
 Minimum Wire Size _____ AWG
 Maximum Overcurrent Device
 Fuses Circuit Breaker _____ AMPS

Unit Weight

Total Unit Weight _____ LBS

DIMENSIONS - INCHES



CLEARANCES

DOWNFLOW

| | |
|-------------|----|
| Top | 1 |
| Front | 3 |
| Vent Pipe | 0 |
| Rear | 0 |
| L & R Sides | 0 |
| Bottom | 1* |

HORIZONTAL

| | |
|-------------|--|
| Top | 0 |
| Front | 3 |
| Vent Pipe | 0 |
| Rear | 0 |
| L & R Sides | 1 |
| Bottom | May be applied directly on a combustible floor |

* Combustible floor base or A/C coil required for use on combustible floor

| Models | CFM | CABINET SIZE | CABINET DIMENSION | | | | |
|----------------|------|--------------|-------------------|---------|---------|---------|---------|
| | | | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) |
| PC9B12N060DH11 | 1200 | B | 17-1/2 | 16-1/4 | 15 | 1-3/4 | 2-3/8 |
| PC9B12N080DH11 | 1200 | B | 17-1/2 | 16-1/4 | 15 | 1-3/4 | 2-3/8 |
| PC9C16N080DH11 | 1600 | C | 21 | 19-3/4 | 18-1/2 | 2-1/8 | 2-3/4 |
| PC9C16N100DH11 | 1600 | C | 21 | 19-3/4 | 18-1/2 | 2-1/8 | 2-3/4 |
| PC9C20N100DH11 | 2000 | C | 21 | 19-3/4 | 18-1/2 | 2-1/8 | 2-3/4 |
| PC9D20N120DH11 | 2000 | D | 24-1/2 | 23-1/4 | 22 | 2-1/2 | 3 |



ISO 9001
 Certified Quality
 Management System

FEATURES

- Compact, easy to install, ideal height 40" cabinet.
- May be installed as either two-pipe (direct vent) or single-pipe vent (using indoor combustion air)
- Blower-off delay for cooling SEER improvement.
- Easy to connect power/control wiring.
- Built-in, high level self diagnostics with fault code display.
- Low unit amp requirement for easy replacement application.
- Integrated control module for reliable, economical operation.
- Insulated blower compartment for quiet operation.
- Electronic Hot Surface Ignition saves fuel cost with increased dependability and reliability.
- Induced combustion system with inshot main burners for quiet, efficient operation.
- No special vent termination kit required.
- 100% shut off main gas valve for extra safety.
- ECM High-efficiency, direct drive motor with large, quiet blower.
- 24V, 40 VA control transformer and blower relay supplied for add-on cooling.
- Hi-tech tubular aluminized steel primary heat exchanger.
- Secondary (condensing) heat exchanger of 29-4C high-grade stainless steel.
- Timed on, adjustable off blower capability for maximum comfort.
- Internal vent coupling for maximum serviceability.
- Independent door removal for greater durability and ease of access.
- 3-way transition facilitates fresh air piping.
- Modulating heating operation includes:
 - Modulating gas valve
 - Modulating inducer operation

FIELD INSTALLED ACCESSORIES

PROPANE (LP) CONVERSION KIT -

1NP0680 - All units

This accessory conversion kit may be used to convert natural gas (N) units for propane (LP) operation. Conversions must be made by qualified distributor or dealer personnel.

CONCENTRIC VENT TERMINATION -

1CT0302 (2")

1CT0303 (3")

CONDENSATE NEUTRALIZER KIT - 1HT0901

Neutralizer cartridge has a 1/2" plastic tube fittings for installation in the drain line. Calcium carbonate refill media is also available from the Source 1 Parts (p/n 026-30228-000).

SIDEWALL VENT TERMINATION -

1HT0901 (2")

For use through rooftop, sidewall. Allows combustion air to enter and exhaust to exit through single common hole. Eliminates unsightly elbows for a cleaner installation.

COMBUSTIBLE FLOOR BASE -

1CB0317 - 17 1/2" Cabinet

1CB0321 - 21" Cabinet

1CB0324 - 24-1/2" Cabinet

COIL TRANSITION -

1TK0917 - 17 1/2" Cabinet

1TK0921 - 21" Cabinet

1TK0924 - 24-1/2" Cabinet

Required in downflow applications when using G*FD series coils.

INTAKE/VENT SIZING - TWO PIPE SYSTEM

| MAXIMUM ELBOWS AND VENT LENGTHS - TWO PIPE SYSTEM | | | | | | | | | | |
|--|-----------------------------|----------------------------------|----|----|----|-----|-----|-----|-----|---------------------------|
| Models Input BTUH | Pipe Size Inches | Maximum Number of Elbows* | | | | | | | | Minimum Length |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 60,000 | 2 | 60 | 55 | 50 | 45 | 40 | 35 | 25 | 15 | 5 |
| 60,000 | 3 | 85 | 80 | 75 | 70 | 65 | 60 | 50 | 40 | 5 |
| 80,000/1200 | 2 | 60 | 55 | 50 | 45 | 40 | 35 | 25 | 15 | 5 |
| 80,000/1200 | 3 | 85 | 80 | 75 | 70 | 65 | 60 | 50 | 40 | 5 |
| 80,000/1600 | 2 | 55 | 50 | 45 | 40 | 35 | 30 | 20 | 10 | 5 |
| 80,000/1600 | 3 | 80 | 75 | 70 | 65 | 60 | 55 | 45 | 35 | 5 |
| 100,000/1600 | 2 | 25 | 20 | 15 | 10 | N/A | N/A | N/A | N/A | 5 |
| 100,000/2000 | 3 | 80 | 75 | 70 | 65 | 60 | 55 | 45 | 35 | 5 |
| 120,000 | 3 | 55 | 50 | 45 | 40 | 35 | 25 | 15 | N/A | 5 |

*Three elbows (two in vent pipe and one in the air intake pipe) are already accounted for and need not be included in the elbow count from the Table above).

NOTES: _____

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260132-YSD-C-0606
Supersedes: 260132/036-23010-001 Rev. B (0406)

**Unitary
Products
Group**

**5005
York
Drive**

**Norman
OK
73069**

SUBMITTAL DATA SHEET



AFFINITY SPLIT SYSTEM AIR CONDITIONER UNITS
13 SEER 1-1/2, 2, 2-1/2, 3, 3-1/2, 4 & 5 TON
MODELS: CZB018 THRU 060

| | | | | | |
|-------------------|------|--------------|------------|---------------|--|
| JOB NAME: | | | LOCATION: | | |
| PURCHASER: | | | ORDER NO.: | | |
| ENGINEER: | | | | | |
| SUBMITTED TO: | FOR: | REF: | APPROVAL: | CONSTRUCTION: | |
| SUBMITTED BY: | | | DATE: | | |
| UNIT DESIGNATION: | | SCHEDULE NO. | | MODEL NO. | |

PRODUCT DATA

Cooling Performance

Total Capacity _____ MBH
 Outdoor Design Temp _____ °F

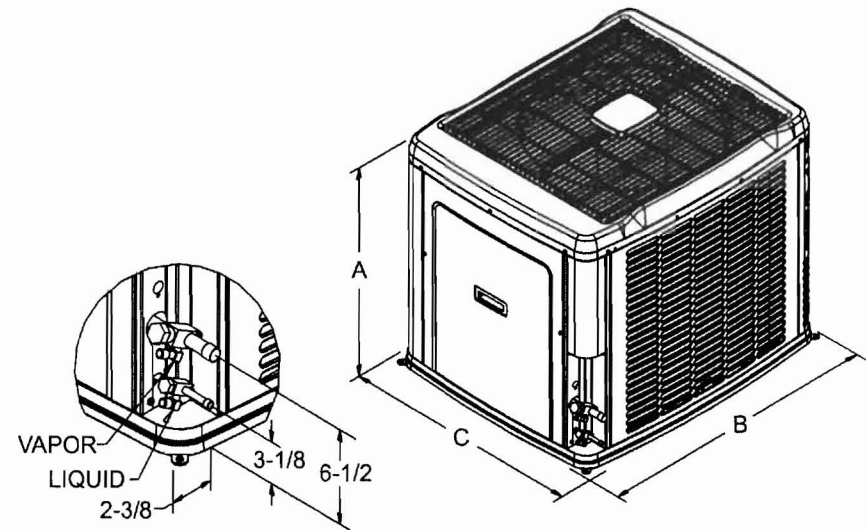
Electrical Data

Power Supply _____ / _____ / _____
 Total Unit Ampacity _____ AMPs
 Power Input Req _____ KW
 Minimum Wire Size _____ AWG
 Overcurrent Device
 Fuses Circuit Breaker

Unit Weight

Unit Weight _____ LBS

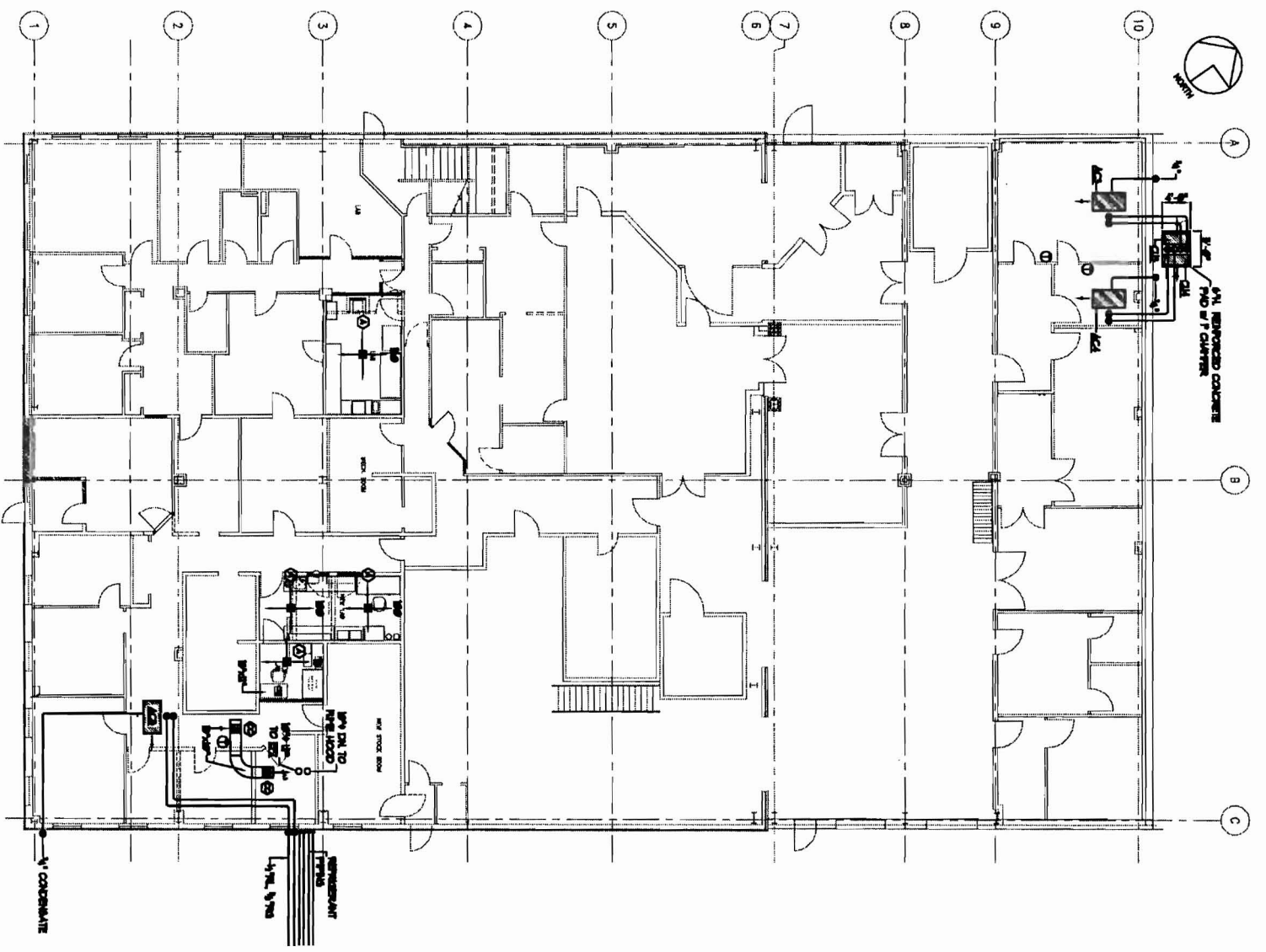
DIMENSIONS - INCHES



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

| Unit Model | Dimensions (Inches) | | | Refrigerant Connection Service Valve Size | |
|------------|---------------------|----|----|---|-------|
| | A | B | C | Liquid | Vapor |
| 018 | 29-1/2 | 37 | 31 | 3/8" | 3/4" |
| 024 | 29-1/2 | 37 | 31 | | |
| 030 | 33-1/2 | 37 | 31 | | |
| 036 | 33-1/2 | 37 | 31 | | |
| 042 | 39-1/2 | 37 | 31 | 7/8" | |
| 048 | 39-1/2 | 37 | 31 | | |
| 060 | 39-1/2 | 37 | 31 | | |





A

B

C

10

9

8

7
6

5

4

3

2

1

4\"/>

4\"/>

4\"/>

4\"/>

