# A7HP19V

Variable Capacity | Omniguard® Coil | R-454B | 60HZ

RESIDENTIAL PRODUCT SPECIFICATIONS

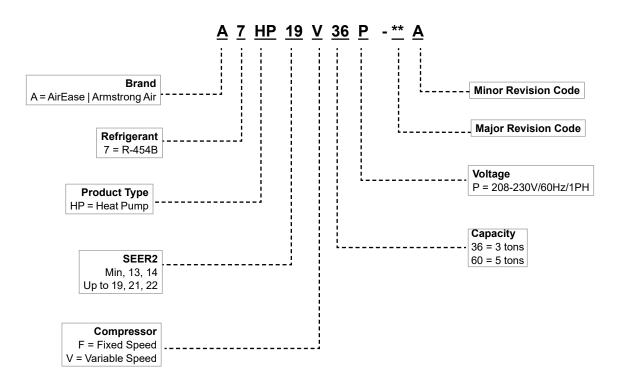
2 to 5 Tons



Comfort Sync® A3 Smart Wi-Fi Communicating Thermostat (Not Furnished)



# MODEL NUMBER IDENTIFICATION



# **FEATURE HIGHLIGHTS**

- 1. Outdoor Coil Fan
- 2. Omniguard® Coil
- 3. High Capacity Suction Line Drier
- 4. Pressure Transducer
- 5. Four-Way Reversing Valve
- 6. Variable Capacity Rotary Compressor
- 7. DC Inverter Control
- 8. Communicating Control
- 9. Heavy Gauge Steel Cabinet
- 10. Louvered Coil Protection
- 11. Refrigerant Line Connections and Access



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# APPROVALS AND WARRANTY

#### **APPROVALS**

- AHRI Standard 210-240-2023 certified
- AHRI Certified system match-ups and expanded ratings, visit www.alliedratings.com
- NOTE AHRI certified ratings are based on the following control conditions:
- A Comfort Sync® A3 Communicating thermostat matched with a "communicating" indoor unit.
- Any conventional non-communicating thermostat matched with a conventional "non-communicating" indoor unit.
- ENERGY STAR® Certified
- Sound rated to AHRI Standard 270-2008 test conditions
- Rated According to U.S. Department of Energy (DOE) test procedures
- Unit and components ETL, NEC and CEC bonded for grounding to meet safety standards for servicing
- ETL certified (U.S. and Canada)
- ISO 9001 Registered Manufacturing Quality System

#### **WARRANTY**

- 10-year limited warranty on all parts, extended warranty available.
- Warranty provides for a total of 10-years of limited warranty.
- Coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty).
- Warranty must be registered online within 60 days of installation to qualify for 10-year coverage.
- Unregistered equipment defaults to 5-year coverage.
- See full warranty at www.alliedair.com for terms, conditions, and exclusions.

#### **FEATURES**

# **APPLICATIONS**

- 2 through 5 tons
- Sound levels as low as 61 dBA
- Heating operation down to –15°F
- Single-phase power supply
- · Applicable to indoor air handlers or gas furnaces with indoor add-on coils
- · Shipped completely factory assembled, piped and wired
- **NOTE** When heat pumps are used with gas furnaces, a dual-fuel compatible thermostat or zone control system with dual-fuel capabilities must be used (order separately).
- **NOTE** Installer must set outdoor unit, connect refrigerant lines and make electrical connections to complete job.

#### REFRIGERATION SYSTEM

#### R-454B Refrigerant

- Low GWP (Global Warming Potential)
- Zero ODP (Ozone Depletion Potential)
- Low Toxicity/Lower Flammability A2L
- Unit is factory pre-charged
- **NOTE** Total system refrigerant charge is dependent on outdoor unit size, indoor unit size and refrigerant line length.
- NOTE Refer to the unit-mounted charging sticker to determine correct amount of charge required.

# Outdoor Coil Fan

- · Direct drive fan
- ECM motor
- · Vertical air discharge
- Totally enclosed fan motor
- Ball bearings
- · Inherently protected
- PVC (polyvinyl chloride) coated steel fan guard

# 2 Omniguard<sup>®</sup> Coil

- Enhanced aluminum alloy tube/enhanced fin coil
- · Superior corrosion resistance
- Ripple-edged aluminum fins
- Aluminum tube construction
- · Lanced fins for maximum fin surface exposure
- Fin collars grip tubing for maximum contact area
- Flared shoulder tubing connections
- Factory tested under high pressure
- Entire coil is accessible for cleaning

#### **Expansion Valve - Outdoor Unit**

- Designed and sized specifically for use in heat pump system
- Sensing bulb is located on the line between reversing valve and the coil
- Senses suction temperature during the heating cycle
- · Factory installed and piped

# **REFRIGERATION SYSTEM (continued)**

## **Discharge Temperature Switch**

- Shuts off unit if operating conditions cause the compressor discharge line temperature to rise above setpoint
- Protects compressor from excessive pressure / temperature
- · Automatic reset when temperature drops below setpoint

# 3 High Capacity Suction Line Drier

- · Factory installed in the suction line
- Drier traps moisture or dirt that could contaminate the system
- · 100% molecular-sieve, bead type drier

# 4 High Pressure Transducer

- · Protects the system from high pressure conditions
- Automatic reset

#### **Low Pressure Transducer**

- · Shuts off unit if suction pressure falls below setting
- Provides loss of charge and freeze-up protection
- · Auto-reset

# 5 Four-Way Reversing Valve

- Rapid changeover of refrigerant flow direction from cooling to heating and vice versa
- Operates on pressure differential between outdoor unit and indoor coil
- · Factory installed

## **Optional Accessories**

# **Check/Expansion Valve Kits**

- · Field installed on indoor units (if required)
- See TXV Usage table
- Chatleff-style fitting

#### Freezestat

- Senses suction line temperature
- Cycles compressor off when suction line temperature falls below freezestat setpoint
- Opens at 29°F and closes at 58°F
- Installs on or near the discharge line of the evaporator or on the suction line

NOTE - The A7HP19V is a variable capacity heat pump utilizing variable speed compressor technology. With the variable speed compressor and variable pumping capacity, additional consideration must be given to refrigerant piping sizing and application.

Please refer to the Installation Instructions or Service Literature for Line Set Requirements and Refrigerant Piping Guidelines.

# **INDOOR REFRIGERANT DETECTION SYSTEM (RDS)**

- Complies with UL 60335-2-40 approved standard
- · Required for all systems using R-454B refrigerant
- · Factory or field installed on all indoor units
- Consists of a RDS refrigerant detection sensor and a mitigation control in the indoor unit
- Ensures safe operation for systems equipped with R-454B refrigerant
- Indoor sensor will detect any R-454B refrigerant
- If R-454B refrigerant is detected, the refrigerant detection system will stop compressor operation and operate the blower to reduce concentrations in the conditioned space
- Once safe levels are reached the HVAC system will resume normal operation
- Refer to indoor unit Product Specifications documents for additional details



# Variable Capacity Rotary Compressor

- Rotary compressor
- High volumetric efficiency
- Uniform suction flow
- · Constant discharge flow
- Quiet operation
- Low gas pulses during compression reduces operational sound levels
- · Compressor motor is internally protected from excessive current and temperature
- · Compressor is installed in the unit on resilient rubber mounts for vibration free operation

# **Rotary Compressor Operation**

- Rotary compressor has a cylindrical chamber
- · A roller is mounted to the motor shaft and is offset to rotate in the center of the chamber
- · Two spring-loaded vanes sweep the sides of the chamber as the roller rotates
- Roller touches the chamber at a point between the intake and the discharge ports as the roller rotates
- While rotating, the roller draws vapor into the chamber through the intake port
- Vapor is trapped in the space between the chamber wall, the vane, and the point of contact between the roller and the chamber
- As the next vane passes the contact point vapor is compressed
- The space becomes smaller compressing the vapor as the roller rotates
- Vapor is discharged through the discharge port

#### **Compressor Crankcase Heater**

- Protects against refrigerant migration that can occur during low ambient operation
- Factory Installed

#### Compressor Sound Dampening System

- Polyethylene compressor
- 2 inch thick batt fiberglass insulation
- · All open edges sealed with one-inch wide hook and loop fastening tape

#### Optional Accessories

## **Compressor Low Ambient Cut-Off Switch**

 Non-adjustable switch (low ambient cut-out) prevents compressor operation when outdoor temperature is below 35°F

# **CONTROLS**



# **DC Inverter Control**

- · Converts AC line voltage into filtered variable DC voltage
- Provides continuous compressor operation, while adjusting the capacity according to indoor temperature
- · Adjusts compressor output in increments as small as 1%
- · The accurate sensing of the cooling or heating load prevents frequent changes in capacity and ensures efficient, economical operation



- Power Factor Correction (PFC) circuit monitors the DC bus for high, low and abnormal voltage conditions to protect the compressor
- Two LEDS (red and green) indicate inverter operating status and aid in troubleshooting
- Noise filter reduces unwanted electromagnetic interference (EMI)
- The inverter reactor (mounted separately) adds inductance to the line between the inverter and the compressor to limit current rise and protect the compressor

# **CONTROLS** (continued)



# 8 Communicating Control

 Advanced control communicates information about various operating parameters in the heat pump to the Communicating Thermostats to constantly maintain the highest level of comfort, performance and efficiency available



- Connections for connecting a conventional heating/ cooling thermostat are also provided on the control
- Auto Configuration On start-up the control automatically sends a description of the unit to the Communicating Thermostat to automatically configure the features available
- Control also features:
  - Seven-Segment Display Shows information about outdoor unit type and capacity and also displays alerts for common fault conditions (electrical and mechanical)
  - Low Voltage Protection Prevents compressor operation when voltage is not within the specified
  - · High and low pressure switch monitoring with provisions for lockout
  - Five-Strike lockout protection protects compressor
  - Liquid line temperature and sensor monitoring
  - EEPROM storage of all local configurations
  - · Non-volatile memory storage of 100 alarm codes with display of last 10 codes for troubleshooting
  - Built-in low-ambient control

NOTE - Two RAST connectors for a conventional heating/cooling thermostat are also provided for connecting to the control. A two-stage or singlestage thermostat can be used.

#### **Low Ambient Operation**

 Cooling Mode - The heat pump can operate down to 0°F outdoor air temperature in the cooling mode

NOTE - A freezestat is recommended for extra protection during low ambient cooling operation.

# **Heating Mode (Low Temperature Protection)**

- Outdoor unit will not operate in the heating mode when the outdoor temperature is at or below – 4°F
- If the unit is operating and the outdoor temperature drops below – 4°F, the unit will continue to operate until the room thermostat is satisfied or the outdoor temperature drops to -15°F

# Climate IQ™ Technology

- · Optimizes dehumidification settings for specific climates to improve home comfort during cooling or heating operation
- Monitors regional weather conditions and automatically removes excess humidity when necessary

# **Communicating Thermostat Settings: Cooling Mode**

- Three climate settings are available:
  - Dry The system supplies higher indoor airflow at all compressor capacities, increasing efficiency by operating at a higher sensible to total ratio
  - Moderate The system supplies indoor airflow that balances efficiency and comfort
  - Humid The system supplies lower indoor airflow at all compressor capacities, improving humidity removal by operating at a lower sensible to total ratio

## **Heating Mode**

- Two climate settings are available:
  - Normal Heats the home with the highest efficiency
  - Comfort System reduces indoor airflow, increasing supply air temperature
- Climate IQ (Auto) Dry, Normal, Basic and Humid modes are automatically set based on the difference between the measured relative humidity and the relative humidity setting
- All modes are selected on the Communicating Thermostat

#### **Defrost Mode**

- Enables a demand defrost cycle whenever system heating performance falls below optimum levels
- Clean-sweep defrost provides a more thorough defrost, reducing the number of cycles during heating operation

# **Outdoor Air Temperature Sensor**

- Used with Communicating Thermostats
- · Sensor allows thermostat to display outdoor temperature
- Sensor is auto-detected when connected to thermostat

# **Optional Accessories**

## **Indoor Blower Off Delay Relay**

 Delays the indoor blower-off time during the cooling cycle

# CONTROLS (continued)

NOTE - The A7HP19V Heat Pump can be used with a branded Communicating Thermostat matched with a "communicating" indoor unit, or a conventional non-communicating thermostat matched with a "non-communicating" indoor unit.

| Thermostat                               | Model No. | Indoor Unit Type  |  |
|--|-----------|-------------------|--|
| Communicating                            | A3        | Communicating     |  |
| Non-Communicating Conventional thermosta |           | Non-Communicating |  |

# **Optional Accessories**

Comfort Sync® A3 Ultra-Smart Communicating

#### **Thermostat**

- Recognizes and connects to all branded Communicating products to automatically configure and control the heating/cooling system (based on user-specified settings) for the highest level of comfort, performance and efficiency
- Recognizes model and serial number information for branded Communicating products to simplify system setup
- Smart Room Sensors can be added to the system
- Smart home automation compatible with Amazon Alexa<sup>®</sup> Google Assistant
- · Sends service alerts and reminders
- Thermostat App features Wi-Fi remote temperature monitoring and adjustment through a home wireless network apps for smartphones or tablets
- Technician App allows installer to manage systems in the home
- Simple easy-to-use touchscreen allows complete system configuration
- · Scheduled maintenance alerts, system warnings and troubleshooting are also displayed on thermostat screen
- Easy to read 7 inch high definition color display (measured diagonally)
- Conventional outdoor units (not Communicating) can easily be added and controlled by the A3 Thermostat
- Installer setup screens allow quick and simple system configuration without a manual, Installer can also run tests on complete system or individual components for easy maintenance and troubleshooting
- Serial communications bus (RSBus), with less wiring than a conventional heating/cooling system, allows system communication
- Uses standard 4-wire unshielded thermostat wiring
- · High Definition Color Display with Subbase and wallplate furnished for easy installation

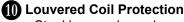
#### **CABINET**



- Heavy-gauge steel construction
  - Pre-painted cabinet finish
  - Louvered heavy gauge steel panels surround unit on all four sides
  - Control box is conveniently located with all controls factory wired
  - Corner patch plate allows access to compressor components
  - Drainage holes are provided in base section for moisture removal

# **Zinc-Coated Steel Unit Base**

 Durable zinc-coated base section resists rust and corrosion



- Steel louvered panels provides complete coil protection
- Panels may be completely removed



- Refrigerant Line Connections, **Electrical Inlets and Service** 
  - · Sweat connection vapor and liquid lines
  - · Located on corner of unit cabinet
  - Vapor valve can be fully shut off, while liquid valve may be front seated to manage refrigerant charge while servicing system
  - Refrigerant line connections and field wiring inlets are located in one central area of the cabinet
  - See dimension drawing

#### **Braze-Free/Press Fitting Flexibility**

· Units can accommodate braze-free or press fittings for installation versatility

| SPECIFICATIONS  | 3   |                 |            |              |            |
|---|---|-----------------|------------|--------------|------------|
| Size  |   | 036             |            | 0            | 60         |
| Nominal Tonnage   |   | 2 Ton Mode      | 3 Ton Mode | 4 Ton Mode   | 5 Ton Mode |
| Sound Rating Number R                                   | ange dBA                                    | 62-70           | 61-72      | 67-76        | 66-78      |
| Connections   | Liquid line (OD) - in.                      | 3/8             | 3/8        | 3/8          | 3/8        |
| (Sweat)   | Vapor line (OD) - in.                       | 3/4             | 7/8        | 7/8          | 1-1/4      |
| Compressor Type   |   | Variable Rotary |            |              |            |
| <b>Refrigerant</b> <sup>1</sup> R-454B charge furnished |   | 7 lbs 15 ozs    |            | 8 lbs 13 ozs |            |
| Indoor Unit Expansion V                                 | alve (TXV)                                  | 26Z70           | 26Z70      | 26Z71        | 26Z72      |
| Outdoor   | Net face area - ft. <sup>2</sup> Outer coil | 16              | .33        | 23           | .36        |
| Coil  | Inner coil                                  | 15.68           |            | 22           | .76        |
|   | Tube diameter - in.                         | 5/16            |            | 5/16         |            |
|   | Rows  | :               | 2          | 2            |            |
|   | Fins - in.                                  |                 | 22         | 22           |            |
| Outdoor   | HP  | P 1/3           |            | 1/3          |            |
| Fan   | Diameter - in.                              | 22              |            | 22           |            |
| Blades  |   | 4               |            | 4            |            |
|   | Cfm   |                 |            | 3907         |            |
|   | Rpm   |                 |            |              | 41         |
|   | 284   |                 | 425        |              |            |
| Shipping Data - Ibs.                                    | 215 272                                     |                 | 72         |              |            |
| ELECTRICAL DA   | TA  |                 |            |              |            |
|   | Line voltage data (Volts-Phase-Hz)          | 208/230-1-60    |            |              |            |
| <sup>2</sup> Maximum o                                  | 35  |                 | 60         |              |            |
| <sup>3</sup> Minimum circuit ampacity (MCA)             |   | 23              |            | 39.2         |            |
| Compressor  | Input amps                                  |                 |            | 28.5         |            |
| Fan Motor   | an Motor Full load amps                     |                 | 2.6 3.6    |              | .6         |
| OPTIONAL CONTROLS - ORDER SEPARATELY                    |   |                 |            |              |            |
| A3 Smart Wi-Fi Thermos                                  | tat 1.841226                                | •               | •          | •            | •          |
| <sup>4</sup> Discharge Air Tempera                      | ture Sensor 88K38                           | •               | •          | •            | •          |
| OPTIONAL ACCESSORIES - ORDER SEPARATELY                 |   |                 |            |              |            |
| Freezestat  | 3/8 in. <b>93G35</b>                        | •               | •          | •            | •          |
| Indoor Blower Off Delay                                 | Relay 58M81                                 | •               | •          | •            | •          |

 $\ensuremath{\mathsf{NOTE}}$  - Extremes of operating range are plus 10% and minus 5% of line voltage.

<sup>&</sup>lt;sup>1</sup> Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the Installation Instructions for information about line set length and additional refrigerant charge required.

<sup>&</sup>lt;sup>2</sup> HACR type breaker or fuse.

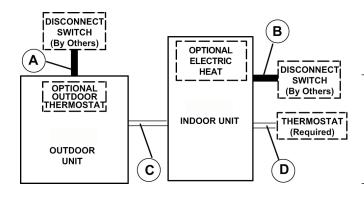
<sup>&</sup>lt;sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

 $<sup>^{\</sup>rm 4}$  Used with the A3 Smart Wi-Fi Thermostat for optional service diagnostics.

#### **EXPANDED SOUND DATA** Octave Band Sound Power Levels dBA, re 10-12 Watts <sup>1</sup>Sound <sup>2</sup> Estimated Sound Pressure Level at Center Frequency - HZ Rating Distance From Unit (dBA at distance in ft.) 1 Size Number 125 250 1000 2000 4000 8000 3 5 500 10 15 50 (dBA) 024 Min. 68.1 61.0 60.2 46.2 62 54 50 44 41 28 56.2 50.9 54.5 024 Max. 71.8 68.8 69.3 62.4 58.0 57.5 55.7 70 62 58 52 49 36 62.2 48.9 036 Min. 68.4 56.8 53.1 51.7 54.1 61 53 49 43 40 27 036 Max. 74 68.8 70.2 65.6 60.9 62.8 59.3 72 64 60 54 51 38 048 Min. 68.8 65.9 68.0 58.8 58.0 52.0 52.8 67 59 55 49 46 33 048 Max. 72.4 74.2 74.9 70.5 68.3 66.3 58.5 76 68 64 58 55 42 66 54 060 Min. 69.1 63.8 66.1 56.5 54.6 52.0 52.4 58 48 45 32 060 Max. 82.3 74.3 75.8 73.0 69.8 68.0 58.7 78 70 66 60 57 44

NOTE - The octave sound power data does not include tonal correction.

#### FIELD WIRING



#### A- Two Wire Power

**B**- Two or Three Wire Power (size to heater capacity)

#### **C - Communicating Thermostat:**

- Four Wire, 18AWG (RSBus)

#### C - Conventional Thermostat:

- Eight Wire Low Voltage, 18AWG
- Ten Wire Low Voltage, 18AWG with Optional Outdoor Thermostat

#### **D** - Communicating Thermostat:

- Four Wire, 18 to 22AWG (RSGBus) standard thermostat cable for terminals (R, C, I+, I-).

#### **D** - Conventional Thermostat:

- Twelve Wire Low Voltage, 18AWG
- Fourteen Wire Low Voltage, 18AWG with Optional Outdoor Thermostat

NOTE - All wiring must conform to NEC or CEC and local electrical codes.

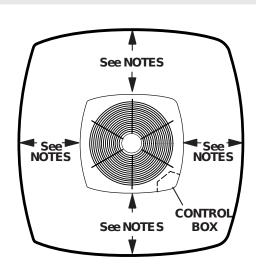
NOTE - Refer to the A3 Installation Instructions for optional wiring connections for communicating thermostats.

NOTE - Field wiring is not furnished.

# **INSTALLATION CLEARANCES**

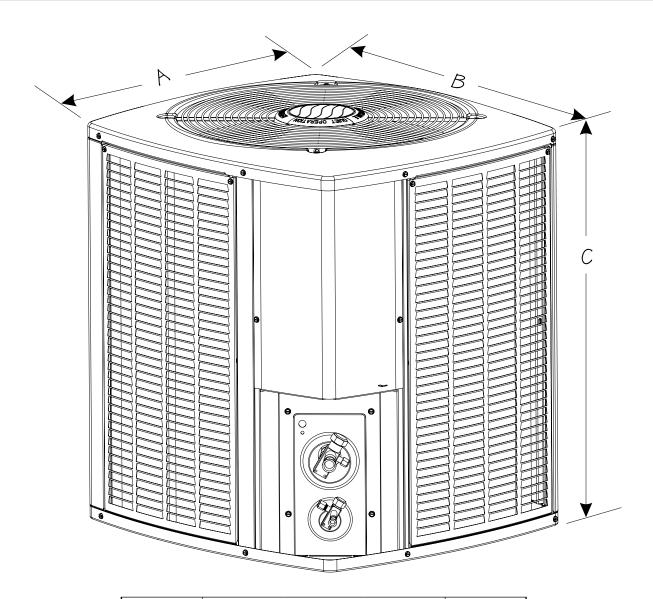
# NOTES:

- Service Clearance 30 in. (762 mm) on one of the sides adjacent to the Control Box.
- One of other three sides must be 36 in. (914 mm).
- One of the two remaining sides may be 12 in. (305 mm).
- The remaining side may be 6 in. (152 mm).
- 48 in. (1219 mm) clearance required on top of unit
- 24 in. (610 mm) required between two units



<sup>1</sup> Tested according to AHRI Standard 270-2008 test conditions. Sound rating Number is the overall A-Weighted Sound Power Level (LwA), dBA (100 Hz to 10,000 Hz).

<sup>&</sup>lt;sup>2</sup> Estimated sound pressure level at distance based on AHRI Standard 275-2010 method for equipment located on the ground, roof, or on side of building wall with no adjacent reflective surface within 9.8 feet. Sound pressure levels will increase based on changes to assumptions. For other applications, refer to AHRI Standard 275.



| Model No   | Dimensions (Inch) |             |              | Shipping<br>Weight (lbs.) |
|------------|-------------------|-------------|--------------|---------------------------|
|            | A - (Width)       | B - (Depth) | C - (Height) |                           |
| A7HP19V36P | 29.38             | 31.25       | 33.75        | 215                       |
| A7HP19V60P | 29.38             | 31.25       | 43.75        | 272                       |

## **TXV USAGE**

All coils and air handlers are shipped with a factory installed TXV. In most cases, no substitution is needed. If a different size TXV is required, it will be listed in the "TXV SUBSTITUTION" table by size. The correct TXV must be ordered separately and field installed.

| Size | Order Number |
|------|--------------|
| 024  | 26Z70        |
| 036  | 26Z70        |
| 048  | <b>26Z71</b> |
| 060  | 26Z72        |

# AHRI STANDARD 210-240-2023

Cooling or heating capacities are net values, including the effects of blower motor heat, and do not include supplementary heat. Power input is the total power input to the compressor(s) and fan(s), plus any controls and other items required as part of the system for normal operation.

Units which do not have an indoor air-circulating blower furnished as part of the model, i.e., split system with indoor coil only, is established by subtracting from the total cooling capacity 1250 Btu/h per 1,000 cfm, and by adding the same amount to the heating capacity.

Total power input for both heating and cooling is increased by 365 W per 1,000 cfm of indoor air circulated.

#### TXV SUBSTITUTION - R-454B

A general guide for replacing the factory installed R-454B TXV if the indoor unit (coil/air handler) is larger or smaller than the outdoor unit.

| <b>Outdoor Unit</b> |      | <b>Indoor Unit</b> |       | Indoor           | Indoor             |  |
|---------------------|------|--------------------|-------|------------------|--------------------|--|
| Size                | Tons | Size               | Tons  | TXV<br>Furnished | TXV<br>Replacement |  |
| 024                 | 2    | 42                 | 3.5   | 26Z71            | 26Z70              |  |
| 024                 | 2    | 48                 | 4     | 26Z71            | 26Z70              |  |
| 024                 | 2    | 49                 | 4     | 26Z71            | 26Z70              |  |
| 024                 | 2    | 50/60              | 4/5   | 26Z71            | 26Z70              |  |
| 024                 | 2    | 51/61              | 4/5   | 26Z71            | 26Z70              |  |
| 024                 | 2    | 60                 | 5     | 26Z72            | 26Z70              |  |
| 036                 | 3    | 42                 | 3.5   | 26Z71            | 26Z70              |  |
| 036                 | 3    | 48                 | 4     | 26Z71            | 26Z70              |  |
| 036                 | 3    | 49                 | 4     | 26Z71            | 26Z70              |  |
| 036                 | 3    | 50/60              | 4/5   | 26Z71            | 26Z70              |  |
| 036                 | 3    | 51/61              | 4/5   | 26Z71            | 26Z70              |  |
| 036                 | 3    | 60                 | 5     | 26Z72            | 26Z70              |  |
| 048                 | 4    | 30/36              | 2.5/3 | 26Z70            | 26Z71              |  |
| 048                 | 4    | 36                 | 3     | 26Z70            | 26Z71              |  |
| 048                 | 4    | 60                 | 5     | 26Z72            | 26Z71              |  |
| 060                 | 5    | 50/60              | 4/5   | 26Z71            | 26Z72              |  |
| 060                 | 5    | 51/61              | 4/5   | 26Z71            | 26Z72              |  |
|                     | •    |                    |       | •                | •                  |  |

#### **TXV Ranges:**

- **26Z70** 1.5 to 3 ton systems Use on 3 ton (036) and lower systems.
- **26Z71** 3.5-4 ton systems Use on 4 ton (048) and down to 3.5 ton (042) systems.
- 26Z72 5 ton systems Use on 5 ton (060) systems only.









Visit us at <u>www.alliedair.com</u> Contact us at 1-800-448-5872