

Model Nomenclature Residential

Outdoor Units

Refrigerant Type _____
 2 = R-22
 4 = R-410A

A, T = American Standard _____

Product Type _____
 6, W = Split Heat Pump
 7, T = Split Cooling

Product Family _____
 V = Variable Speed M or B = Basic
 Z = Leadership – Two Stage A = Light Commercial
 X = Leadership C = Commercial
 R = Replacement/Retail L = Side Discharge

Family SEER _____
 3 = 13 6 = 16 0 = 20
 4 = 14 7 = 17
 5 = 15 8 = 18
 9 = 19

Split System Connections 1-6 Tons _____
 0 = Braze

Nominal Capacity in 1000s of BTUs _____

Major Design Modifications _____

Power Supply _____
 1 = 200-230/1/60 or 208-230/1/60
 3 = 200-230/3/60
 4 = 460/3/60

Secondary Function _____

Minor Design Modifications _____

Unit Parts Identifier _____

Accessories

Denotes: Accessories _____

Accessories Type (Example: BAYCURB, AY, ASY) _____

ASCT = Anti-Cycle Timer	LOAM = Low Ambient Controls
BARM = Barometric Relief	LPKT = L.P. Kit
BASE = Subbase	LSDR = Low Static Drive
BRZQ = Coupling Kit Adaptors	NXKT = NOx Rod Accessory Kit
CCHT = Crankcase Heater	PANL = Panel
CLE = Coil Enclosures	PLNM = Plenum
CURB = Roof Curb	PLUS = Add-on Heat Pump
DMPR = Damper	REFLN = Refrigerant Lines
DNFLW = Downflow Conversion Kit	RLAY = Relay
ECMT = Extreme Mounting Kit	SEAC = Sea Coast Kit
ECON = Economizer	SENS = Sensor
ENTH = Enthalpy Control	SPEK = Single Power Entry Kit
FLTR = Filter	STAT = Thermostat
GARD = Coil Guard	TBKT = Thru Base Utility Kit
GRLE = Return Air Grill	TEST = Test Accessory
HALT = High Altitude Kit	TFMR = Transformer
HGBP = Hot Gas Bypass Control	TWIN = Twinning Kits
HSMT = High Static Motor	TXVA = Cooling —
HTRA = Electric Heater	Bleed/Non Bleed Kits
	TXVH = Heat Pump
	Non Bleed Kits
ISLT = Isolator	UTIL = Curb Ext. Kit
KSKT = Start Accessory Kit	VENT = Termination Kit
LEGS = Snow Legs	WAR = Warranty
LEGSCAP = Leveling Caps	WATR = Hydronic Heat Coils
LIFT = Lifting Lug Kit	WRKT = Wire Kit
	2STG = 2 Stage Gas

Major Design Change _____
 Numbers Are Sequentially Assigned Except For Electric Heaters.
 On Electric Heaters Digit 8 Is Used To Identify Voltage And Digit 9
 And 10 Are Used To Identify Capacity In KW's.

Minor Design Change _____
 Accessory To Unit Match-up (When Required)

Service Digit - Not Orderable _____

ForeFront Air Handler

Brand _____
 T = American Standard
 G = Good (American Standard Branded)

Product Type _____
 A = Air Handler
 E = Air Handler

Convertability _____
 M = Multi-poise 4-way
 F = Upflow Front Return, 3-way
 T = 3-way

Product Tier _____
 2 = Good, Entry Level Feature Set
 4 = Better, Retail Replacement Mid Effy.
 5 = Better, Entry Level High Effy., Multi-Speed
 7 = Best, Retail Replacement High Effy.,
 Variable-Speed
 8 = Best, Retail Ultimate High Effy.,
 Variable-Speed
 9 = Best, Comm/24V Variable-Speed
 G = Best, Geothermal

Major Design Change _____

No Descriptor _____
 0 = Air Handler / Coil

Size (Footprint) _____
 A = 17.5 x 21.8
 B = 21.3 x 21.8
 C = 23.5 x 21.8

Cooling Size: Air Handler or Coil _____
 0-9 = AH Coil - 1000 BTU's (18, 24, 30, 36, 42, 48, 60)

Airflow Type & Capability _____
 S = Standard Effy PSC, 1-5 - nom. Tonnage (cfm/ton)
 M = Mid Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
 H = High Effy Variable, 1-5 - nom. Tonnage (cfm/ton)
 V = High Effy Variable, 1-5 - nom. Tonnage (cfm/ton)

Power Supply _____
 1 = 208-230/1/60

System Control Type _____
 S = Standard - 24 VAC
 C = CLII 13.8 VDC
 D = Dual (24 VAC / CLII 13.8 VDC) and Epoxy Coated Coil Fins
 E = Epoxy Coated Coil Fins

Minor Design Change _____

Service Digit - Not Orderable _____

ForeFront Air Handler Electric Heaters

Brand _____
 B = Both Brands

Product Type _____
 AY = Accessory

Heat Type _____
 E = Electric Heater

Product Tier _____
 A = TAM9, TAM4, GAM5, TAMGB
 E = TAM8, TAM7
 C = GAF2

Size (Footprint) _____
 A-C = Minimum Cabiner Width

Size (Footprint) _____
 A-C = Maximum Cabiner Width

Electric Heat Input _____
 Electric Heat kW

Connection _____
 BK = Breaker
 LG = Lugs

Power Supply _____
 1 = 208-230/1/60
 A = 200/1/50
 3 = 208-230/3/60

Major Design Modification _____

Minor Design Modification _____

Service Digit - Not Orderable _____

For complete equipment / combination selections,
 installation instructions and warranty information,
 please refer to Product Data/Ratings and/or Installers
 Guides and Limited Warranty Handbooks.

Model Nomenclature Residential

Air Handler - Residential

Brand
T = American Standard

Product Type
E = Metal Cabinet
M = Metal Over Hot Water Heater

Convertability
M = Multi-poise 4-way

Product Tier
3 = Entry Level Multi-Speed
4 = Entry Level Multi-Speed
5 = Entry Level High Efficiency
6 = Entry Level Variable Speed
8 = Entry Level Comm/24V Variable Speed

Major Design Change

No Descriptor
0 = Air Handler / Coil

Size (Footprint) (W x D)
A = 20.5 x 15.0
B = 18.5 x 21.1 (TEM), 22.0 x 19.0 (TMM)
C = 23.5 x 21.1
D = 26.5 x 21.1

Cooling Size: Air Handler or Coil
0-9 = AH Coil - 1000 BTU's (18, 24, 30, 36, 42, 48, 60)

Airflow Type & Capability
S = Standard Effy, 1-5 - nom. Tonnage (cfm/ton)
M = Mid Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
H = High Effy Variable, 1-5 - nom. Tonnage (cfm/ton)
V = High Effy Variable, 1-5 - nom. Tonnage (cfm/ton)

Power Supply
1 = 208-230/1/60

System Control Type
S = Standard - 24 VAC
C = CLII 13.8 VDC
D = Dual (24 VAC / CLII 13.8 VDC)

Minor Design Change

Service Digit - Not Orderable

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
T E M 4 A 0 B 3 6 S 3 1 S A A

Air Handler/ Electric Furnace Heaters

Accessory

Heater

Power Supply
1 = Single Phase
3 = Three Phase

Series/Family
3 = 2/4TEH Models Only
4 = 4TEC / Legacy
5 = TEM Models Only

Heater KW

Electrical Connection

000 = Pig Tails Only
BRK = Circuit Breaker
PDC = Pull Disconnect
RBR = Recessed Breaker-TVF018, TVF024, 14" Deep only
RPD = Recessed Pull Disconnect-TVF018, TVF024, 14" Deep only

Minor Design Change

1 2 3 4 5 6 7 8 9 10 11 12 13 14
B A Y H T R 1 4 1 5 B R K A

Air Handler

Refrigerant Type
4 = R-410A

Model Type
FWC = Convertible
FWH = Convertible with Constant Torque ECM Motor
FWM = Stud Mount with Factory Installed Electric Heat
FWD = Furr-Down Uncased with Factory Installed Electric Heat
FWF = Furr-Down Cased with Factory Installed Electric Heat

Insulation
A = Standard
F = R4.2 Insulation

Capacity
Nominal Capacity in 1000's (BTUH)

Major Design Change

Power Supply
1 = Single Phase

Electrical Connection
0 = Pig Tails
D = Pull Disconnect

Electric Heater
00 = No heater
05 = 5 KW
08 = 8 KW
10 = 10 KW
15 = 15 KW
20 = 20 KW

Minor Design Change

Service Digit - Not Orderable

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
4 F W C A 0 2 4 A 1 0 0 0 A A

Model Nomenclature Residential

Gas Furnaces

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A U D 1 B 0 8 0 A 9 H 3 1 A A

Furnace Configuration

AU = Upflow/Horizontal
AD = Downflow/Horizontal

Type

E = 80% Induced Draft Standard
D = 80% Induced Draft Premium
C = 90% Condensing Standard
X = 90% Condensing Premium
H = 95% Condensing Premium

Number of Heating Stages

1 = Single Stage
2 = Two Stage
3 = Three Stage
M = Modulating

Cabinet Width

A = 14.5" Cabinet Width
B = 17.5" Cabinet Width
C = 21.0" Cabinet Width
D = 24.5" Cabinet Width

Heating Input in 1000's (BTUH)

080 = 80,000 BTUH

Major Design Change

Voltage

9 = 115 Volts / 60 Hertz / Natural Gas
A = 115 Volts / 50 Hertz / Natural Gas
C = 115 Volts / Natural Gas with Communicating System Control
F = 115 Volts / Natural Gas with Integrated Electronic Filter
D = 115 Volts / Natural Gas with Communicating System Control and Integrated Electronic Filter

Air Capacity for Cooling

Standard PSC	Variable Speed	High Efficiency
24 = 2 Tons	V3 = 3 Tons	H3 = 3 Tons
36 = 3 Tons	V4 = 4 Tons	H4 = 4 Tons
42 = 3.5 Tons	V5 = 5 Tons	H5 = 5 Tons
45 = 4 Tons		
48 = 4 Tons		
54 = 5 Tons		
60 = 5 Tons		
72 = 6 Tons		

Draft Inducer Speeds

1 = Single Speed
2 = Two Speed
V = Variable Speed

Minor Design Change

Service Digit - Not Orderable

S-Series Furnaces

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
S 8 B 1 B 0 8 0 U 2 P S A A A

Level

S = Series

AFUE

8 = 80%
9 = 90% or Higher

Blower

B = Base model PSC
P = PSC
X = CTM
V = Variable Speed

Gas Valve Stages

1 = Single Stage
2 = 2 Stage
M = Modulating

Cabinet Width

A = 14.5"
B = 17.5"
C = 21"
D = 24.5"

BTU Input

080 = 80,000 BTUH

Poise Options

U = 3 Way
D = Dedicated Downflow
M = 4 Way Poise

Air Capacity for Cooling (in nominal tons)

2 = 2 Tons
3 = 3 Tons
4 = 4 Tons
5 = 5 Tons

Inducer Type

P = PSC
X = CTM
V = Variable Speed

Communicating Capability

S = 24 Volt
C = Communicating System Control

Major Design Change

Minor Design Change

Service Digit - Not Orderable

**Model Nomenclature
Residential****Heat Pump/
Cooling Coils**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Refrigerant Type _____ 4 = R-410A	4	T	X	C	B	0	3	6	A	C	3	H	C	A	A
Series _____ T = Premium (Cooling and HP) N = Premium (Cooling and HP) P = Premium High Efficiency - Dedicated position (Cooling and HP) C = Standard (Cooling Only) F = Entry Level (Cooling Only) G = Entry Level (Cooling and HP) M = Entry Level (Cooling and HP)	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Coil Design _____ X = Direct Expansion Evaporator Coil	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Coil Feature _____ C = Cased A Coil A = Uncased A Coil F = Cased Horizontal Flat Coil	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Coil Width (Cased/Uncased) _____ A = 14.5" / 13.3" B = 17.5" / 16.3" C = 21.0" / 19.8" D = 24.5" / 23.3" H = 10.5"	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Refrigerant Line Coupling / Airflow Configuration _____ 0 = Brazed U = Upflow only, convertible to Horizontal Left D = Downflow only, convertible to Horizontal Right	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Nominal Capacity in 1000's (BTUH) / Model Number Distinguisher _____	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Major Design Change _____	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Efficiency _____ C = Standard S = High Efficiency (derived from 10 SEER products) Z = High Efficiency (TXV modulates to 50%)	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Refrigerant Control _____ 3 = TXV - Non-Bleed 6 = FCCV (Flow Control/Check Valve)	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Coil Circuitry _____ H = Heat Pump C = Cooling	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Airflow Configuration _____ A = Upflow U = Upflow / Downflow D = Downflow R = Downflow / Horizontal Right H = Horizontal Left/Right C = Convertible - Upflow, Downflow, Left or Right	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Minor Design Change _____	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Service Digit - Not Orderable _____	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

Model Nomenclature Residential

American Standard AccuClean™ Whole Home Air Cleaner

Brand _____

Filtration _____

ifD _____

Size _____

Furnace Upflow	Furnace Downflow	Air Handler
145 = 14.5"	14D = 14.5"	215 = 21.5"
175 = 17.5"	17D = 17.5"	235 = 23.5"
210 = 21.0"	21D = 21.0"	260 = 26.0"
245 = 24.5"	24D = 24.5"	

Major Design Series _____

Power Supply _____
L = Low Voltage

Application _____
AH000 = Air Handler
FR000 = Furnace

Minor Design _____

Service Sequence Not Orderable _____

TXV Kits

Refrigerant _____

Accessory _____

Accessory Type _____
TXV Kit

Compatibility _____
Cooling & Heat Pump Compatible

Flow Control _____
3 = TXV - Non Bleed

Major Design Change _____
B = Internally Mounted (Mechanical Fittings)
C = Internally Mounted (Mechanical Fittings)
D = Internally Mounted (Mechanical Fittings)

Minimum Nominal Capacity in 000's BTU's _____

Maximum Nominal Capacity in 000's BTU's _____

Minor Design Change _____

Service Digit - Not Orderable _____

Perfect Fit™ Air Cleaner

Filter _____

Filter Type _____
M = Media, 5 Inch, 1 Inch

Product Dimension _____
145 = 14.5 Inch Furnace Width 215 = 21.5 Inch Air Handler Width
175 = 17.5 Inch Furnace Width 235 = 23.5 Inch Air Handler Width
210 = 21.0 Inch Furnace Width 260 = 26.0 Inch Air Handler Width
245 = 24.5 Inch Furnace Width

Product Development Sequence _____
B = 5" Expandable Media

Voltage _____
1 = 240V 9 = 140V

Product Description _____
AH = Air Handler
FR = Furnace

Minor Design Change _____

Service Digit - Not Orderable _____

Perfect Fit™ Filter Accessories

Business Unit _____

Accessory _____

Filter _____

Product Type _____
AH = Air Handler
FR = Furnace

Size _____
EX = Expandable

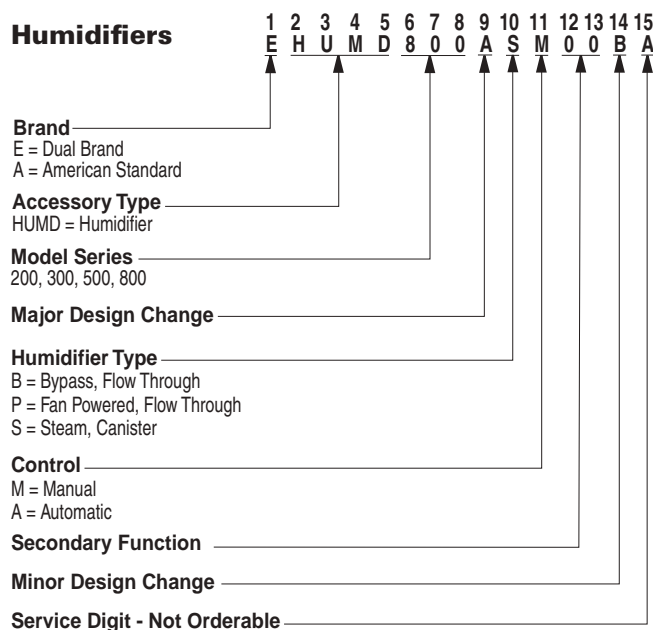
Type _____
M = Media, 5 Inch

Quantity _____
1 = 1 2 = 2 4 = 4 D = Dozen

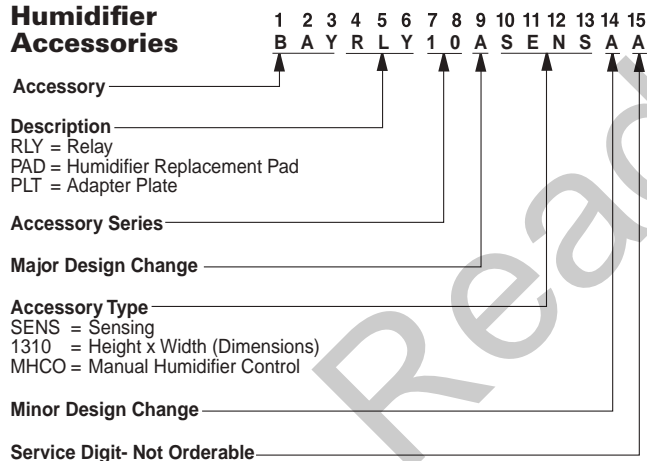
Minor Design Change _____

Model Nomenclature Residential

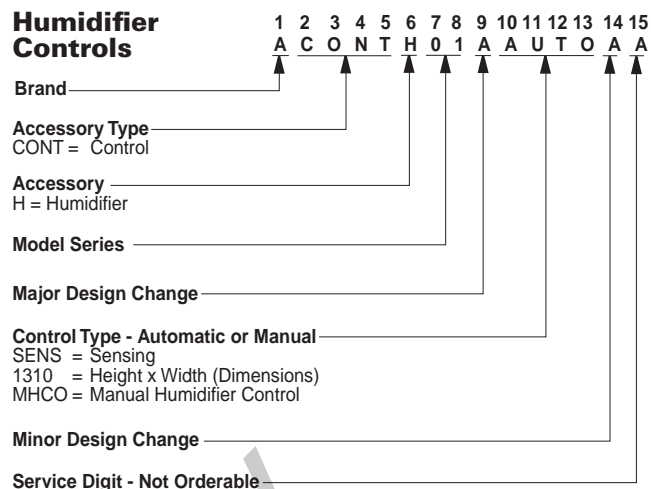
Humidifiers



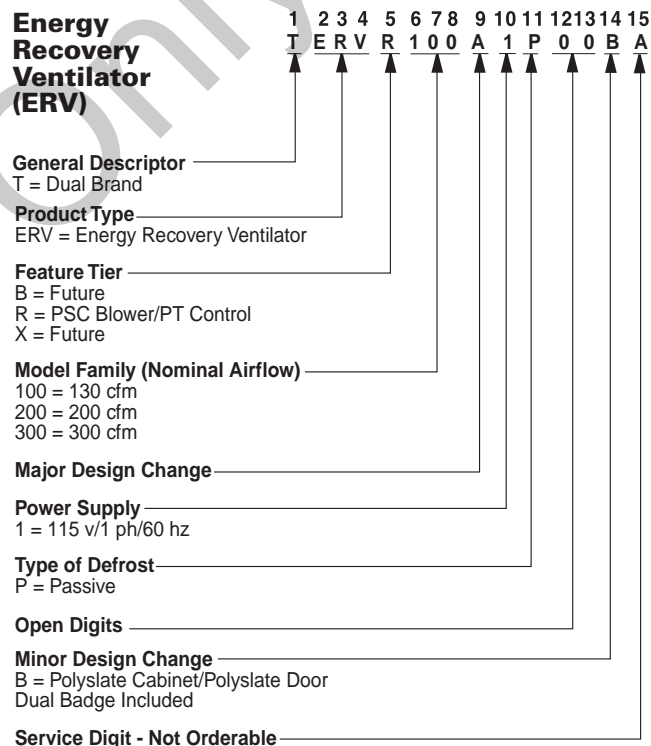
Humidifier Accessories



Humidifier Controls



Energy Recovery Ventilator (ERV)



Model Nomenclature Residential

Packaged Units

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	4	Y	C	X	3	0	4	2	A	3	0	8	0	A	A
Refrigerant 4 = R-410A															
Type Y = Gas Electric W = Heat Pump D = Dual Fuel T = Air Conditioner															
Configuration C = Convertible H = Horizontal (only)															
Model Tier C = Entry Level X = Upgrade Y = Premium Z = Leadership - (2-Stage)															
Efficiency Tier 3 = 13 SEER 4 = 14 SEER 5 = 15 SEER 6 = 16 SEER															
Capacity in 1000's (BTUH) 018 042 024 048 030 060 036															
Major Design Change															
Voltage & Phase 1 = 230V 1 Phase 3 = 230V 3 Phase 4 = 460V 3 Phase															
Gas Heat Input (MBTU/H) 000 (AC or HP) 075 040 096 064 120															
Minor Design Change															
Service Digit - Not Orderable															

**Packaged Units
(Pre-410A Refrigerant)**

	1	2	3	4	5	6	7	8	9	10	11	12
	Y	C	X	0	3	6	G	1	M	0	A	0
Product Type TC = Cooling, Electric Heat WC = Heat Pump Packaged YC = Gas Electric DC = Heat Pump with Gas Heat												
Airflow Configuration D = Downflow Y = Super High Efficiency H, K = Horizontal Z = Ultra High Efficiency C = Convertible X = High Efficiency												
Cooling Capacity in 1000's (BTUH) 018 = 1 1/2 Tons 060 = 5 Tons 024 = 2 Tons 150 = 12 1/2 Tons 030 = 2 1/2 Tons 180 = 15 Tons 036 = 3 Tons 210 = 17 1/2 Tons 042 = 3 1/2 Tons 240 = 20 Tons 048 = 4 Tons 300 = 25 Tons												
Commercial High Efficiency Units 151 = 12 1/2 Tons 181 = 15 Tons 211 = 17 1/2 Tons 241 = 20 Tons 301 = 25 Tons												
Major Design Change F = Impact - Side by Side - Ft. Smith Only B = Over/Under - Ft. Smith Only G = Impact Plus - Side by Side - Ft. Smith Only												
Electrical Characteristics 1 = 208-230/1/60 3 = 208-230/3/60 4 = 460/3/60												
Secondary Capacity And/Or Factory-Installed Options 00 = No Heat, No Options LO = Low Heating Capacity MO = Medium Heating Capacity HO = High Heating Capacity												
Minor Design Change												
Service Digit - Not Orderable												

Model Nomenclature Residential

Controls

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A Z O N E 9 5 0 A C 5 2 Z A A

Brand

A = American Standard
Z = Unbranded

Accessory Type

CONT = Control (thermostat)
ZONE = Control (zoning)

Model Series**Major Design Modifications****Control Platform**

M = Mechanical
N = Non-programmable Electronic (Digital Display)
F = Five/Two Programmable Electronic (Digital Display)
S = Seven Day Programmable Electronic (Digital Display)
C = Communicating
W = Wireless

Heating Stages**Cooling Stages****Equipment Application**

A = AC / Heat (Gas or Electric)
G = AC / Heat (Gas)
E = AC / Heat (Electric)
H = Heat Pump
M = Multi-Application - AC / Heat (Gas/Elec) / Heat Pump
D = Dual Fuel, Heat Pump, or AC and Heat (Gas/Elec)
C = Communicating
Z = Zoning - Universal application - 3 wire Communicating zone control of AC or Heat (Gas/Elec) and Dual Fuel Heat Pump
U = Universal Application - Communicating Control of AC/Heat (Gas/Elec) / Dual Fuel Heat Pump

Minor Design Change**Service Digit****Zone
Dampers**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Z D A M P R D M A 0 0 1 2 A A

Brand

Z = Zoning

Damper**Model Series**

RD = Round
RR = Retro-Fit Round
SM = Side Mount Rectangular
BM = Bottom Mount Rectangular

Modulating Damper (24 Volt, 60 Sec. Timing)**Major Design Modifications****Dimensions**

0012 = 12" Round
1014 = 10" X 14" Rectangular (motor mounted on 2nd dimension)

Minor Design Change**Service Digit**

Model Nomenclature Residential

**Ductless
Indoor Unit****Refrigerant**
4 = R-410A**Unit Type**
M = Indoor Unit
U = Pro Series**Functional Type**
X = Heat Pump Inverter
Y = Cooling Only Inverter**Configuration Indoor Unit**
W = High Wall Unit
D = Ceiling Concealed Unit
C = Cassette Unit
F = Floor Console Unit
X = Convertible (Floor/Ceiling) Mount
L = Cassette Panel Cover**Efficiency Tier**
16 = 16 Series
65 = 65 Series
85 = 85 Series
20 = Pro Series
22 = 22 Series
27 = 27 Series
38 = 38 Series**Nominal Capacity (Btu/h x 1,000)**
09 = 9,000 Btu/h 24 = 24,000 Btu/h 48 = 48,000 Btu/h
12 = 12,000 Btu/h 30 = 30,000 Btu/h
18 = 18,000 Btu/h 36 = 36,000 Btu/h
21 = 21,000 Btu/h 42 = 42,000 Btu/h**Major Development Sequence**
A, B, C, etc. = Major Development Sequence**Electric Power Supply Characteristics**
1 = 208-230/60/1
L = 115/60/1**Reserved for Future Use**
0 = Not Currently Used**Regional Markets Served (1:1 Systems)**
N = North America Market**Reserved for Future Use**
0 = Not Currently Used**Minor Design Sequence**
A, B, C, etc. = Minor Design Sequence**Service Digit**
A, B, C, etc. = Service Digit Sequence**Ductless
Outdoor Unit****Refrigerant**
4 = R-410A**Brand**
T = Outdoor Unit**Functional Type**
X = Heat Pump Inverter
Y = Cooling Only Inverter**Configuration Outdoor Unit**
K = Single Refrigerant Circuit
M = Multiple Refrigerant Circuits
U = Pro Series**Efficiency Tier**
16 = 16 Series
65 = 65 Series
85 = 85 Series
20 = Pro Series
22 = 22 Series
27 = 27 Series
38 = 38 Series**Nominal Capacity (Btu/h x 1,000)**
09 = 9,000 Btu/h 24 = 24,000 Btu/h 48 = 48,000 Btu/h
12 = 12,000 Btu/h 30 = 30,000 Btu/h
18 = 18,000 Btu/h 36 = 36,000 Btu/h
21 = 21,000 Btu/h 42 = 42,000 Btu/h**Major Development Sequence**
A, B, C, etc. = Major Development Sequence**Electric Power Supply Characteristics**
1 = 208-230/60/1
L = 115/60/1**Reserved for Future Use**
0 = Not Currently Used**Regional Markets Served (1:1 Systems)
or Number of Refrigerant Ports
(Multi-Split Systems)**
N = North America Market
2 = Two Port System
3 = Three Port System
4 = Four Port System
5 = Five Port System**Reserved for Future Use**
0 = Not Currently Used**Minor Design Sequence**
A, B, C, etc. = Minor Design Sequence**Service Digit**
A, B, C, etc. = Service Digit Sequence

Model Nomenclature Residential

**American Standard
AccuFlex™ Commercial
"C" Series**

	1	2	3	4	5	6	7-8	9	10	11	12	13	14	15
	4	T	U	K	4	5	18	A	1	0	N	0	B	A
Refrigerant _____ 4 = R-410A	↑													
Product Type _____ M = Mini split indoor Unit T = Mini split outdoor unit		↑												
System Type _____ U = C Series Universal Match			↑											
Configuration Type _____ C = Traditional 4 way square cassette indoor unit D = Ducted Indoor Unit K = Outdoor unit M = Vertical ducted indoor unit S = Circular round cassette indoor unit W = High wall indoor unit				↑										
Type _____ 4 = Heat Pump L = Low ambient cooling					↑									
Connection Type _____ 5 = Flare						↑								
Nominal Capacity _____ 12 = 12,000 Btu/h 18 = 18,000 Btu/h 24 = 24,000 Btu/h 30 = 30,000 Btu/h 36 = 36,000 Btu/h 42 = 42,000 Btu/h 48 = 48,000 Btu/h							↑							
Major development sequence _____ A = First development sequence B = Second development sequence								↑						
Electric power supply characteristics _____ 1 = 208-230/60/1									↑					
Reserved for future use _____ 0 = Standard										↑				
Miscellaneous digit _____ N = North America market (mini split models)											↑			
Reserved for future use _____ 0 = Standard												↑		
Minor Design Sequence _____ A = First design sequence B = Second design sequence													↑	
Service digit (not used for ordering) _____ A = First sequence B = Second sequence														↑

Model Nomenclature Residential

VRF Mini Outdoor Unit

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	4	T	V	H	0	0	4	8	B	1	0	0	N	B
Refrigerant														
4 = R-410A														
Brand Name														
T = Mini-Split Outdoor Unit														
System Type														
V = Variable Refrigerant Flow														
Functional Type Outdoor Unit														
H = Heat Pump, DC Inverter (VRF)														
R = Heat Recovery (3-pipe), DC Inverter (VRF)														
Special Application														
0 = Standard														
Nominal Capacity (Btu/h x 1,000)														
036 = 36,000 Btu/h														
120 = 120,000 Btu/h														
048 = 48,000 Btu/h														
144 = 144,000 Btu/h														
053 = 60,000 Btu/h														
168 = 168,000 Btu/h														
072 = 72,000 Btu/h														
192 = 192,000 Btu/h														
096 = 96,000 Btu/h														
Major Development Sequence														
B = Second Development Sequence														
C = Third Development Sequence														
Electric Power Supply Characteristics														
1 = 208-230/60/1														
3 = 208-230/60/3														
4 = 460/60/3														
Reserved for Future Use														
0 = Not Currently Used														
Reserved for Future Use														
0 = Not Currently Used														
Region of Sale														
N = North America (UL or ETL)														
Minor Design Sequence														
A = First Minor Design Sequence														
B = Second Design Sequence														

VRF Outdoor Unit

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	4	T	V	R	0	0	9	6	B	3	0	0	N	B
Refrigerant														
4 = R-410A														
Brand Name														
T = Mini-Split Outdoor Unit														
System Type														
V = Variable Refrigerant Flow														
Functional Type Outdoor Unit														
H = Heat Pump, DC Inverter (VRF)														
R = Heat Recovery (3-pipe), DC Inverter (VRF)														
Special Application														
0 = Standard														
L = ProHeat														
Nominal Capacity (Btu/h x 1,000)														
036 = 36,000 Btu/h														
120 = 120,000 Btu/h														
048 = 48,000 Btu/h														
144 = 144,000 Btu/h														
053 = 60,000 Btu/h														
168 = 168,000 Btu/h														
072 = 72,000 Btu/h														
192 = 192,000 Btu/h														
096 = 96,000 Btu/h														
Major Development Sequence														
B = Second Development Sequence														
C = Third Development Sequence (Next Generation)														
Electric Power Supply Characteristics														
1 = 208-230/60/1														
3 = 208-230/60/3														
4 = 460/60/3														
Reserved for Future Use														
0 = Not Currently Used														
Reserved for Future Use														
0 = Not Currently Used														
Region of Sale														
N = North America (UL or ETL)														
Minor Design Sequence														
A = First Design Sequence														
B = Second Design Sequence														
C = Third Design Sequence														

VRF Indoor Unit

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	4	T	V	D	0	0	1	8	B	1	0	0	N	B
Refrigerant														
4 = R-410A														
Brand Name														
T = Mini-Split Outdoor Unit														
System Type														
V = Variable Refrigerant Flow														
Configuration Type														
A = High Pressure Static Duct Type														
B = Mini 4-Way Cassette														
C = 4-Way Cassette														
D = Mid Pressure Static Duct Type														
E = 1-Way Cassette														
F = Floor standing														
L = Slim Duct Type (Low Pressure)														
M = Convertible Ducted														
N = Dedicated Outside Air Units														
S = Circular Cassettes														
X = Convertible Floor/Ceiling														
W = High Wall Type														
Reserved for Future Use														
0 = Not Currently Used														
Nominal Capacity (Btu/h x 1,000)														
007 = 7,000 Btu/h														
030 = 30,000 Btu/h														
009 = 9,000 Btu/h														
036 = 36,000 Btu/h														
012 = 12,000 Btu/h														
048 = 48,000 Btu/h														
015 = 15,000 Btu/h														
076 = 76,000 Btu/h														
018 = 18,000 Btu/h														
096 = 96,000 Btu/h														
024 = 24,000 Btu/h														
Major Development Sequence														
A = First Design Sequence														
C = Second Design Sequence														
D = Fourth Design Sequence														
Electric Power Supply Characteristics														
1 = 208-230/60/1														
Reserved for Future Use														
0 = Not Currently Used														
Reserved for Future Use														
0 = Not Currently Used														
Region of Sale														
N = North America (UL or ETL)														
Minor Design Sequence														
A = First Design Sequence														
B = Second Design Sequence														

For complete equipment / combination selections, installation instructions and warranty information, please refer to Product Data/Ratings and/or Installers Guides and Limited Warranty Handbooks.

Model Nomenclature Light Commercial

Commercial Condensing Units Cooling and Heat Pump

	1	2	3	4	5	6	7	8	9	10	11	12
	T	T	A	0	9	0	D	3	H	R	B	0

Product Type _____
 TTA = Split Cooling TWA = Split Heat Pump

Nominal Gross Cooling Capacity (MBh) _____
Cooling **Heat Pump**
 090 = 7 1/2 Tons 090 = 7 1/2 Tons
 120 = 10 Tons 120 = 10 Tons
 150 = 12 1/2 Tons 180 = 15 Tons
 180 = 15 Tons 240 = 20 Tons
 240 = 20 Tons 300 = 25 Tons

Compressor _____
 D = Single Compressor (R-410A)
 E = Dual Compressors (R-410A)
 F = Dual Manifolded Compressors (R-410A)

Electrical Characteristics _____
 3 = 208 - 230/3/60 4 = 460/3/60 W=575/3/60

Factory-Installed Options _____
 0 = No Hail Guard
 H = Hail Guard

Factory-Installed Options _____
 0 = Packed Stock, No Options
 S = Epoxy Coil
 R = ReliaTel™
 T = ReliaTel™ with Epoxy Coil

Minor Design Change _____

Service Digit - Not Orderable _____

Air Handler - Commercial

	1	2	3	4	5	6	7	8	9	10	11	12
	T	W	E	0	9	0	D	1	0	0	A	0

Product Type _____
 TW = Cooling/Heat Pump

Airflow Type _____
 E = Convertible – Upflow/Horizontal Only

Nominal Gross Cooling Capacity (MBh) _____
 060 = 5 Tons 180 = 15 Tons
 090 = 7 1/2 Tons 240 = 20 Tons
 120 = 10 Tons 300 = 25 Tons
 150 = 12 1/2 Tons

Refrigeration Circuits _____
 D = Single Circuit
 E = Dual Circuit, R-410A

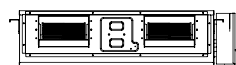
Electrical Characteristics _____
 1 = 208-230/1/60
 3 = 208-230/3/60
 4 = 460/3/60

Factory Installed Options _____
 00 = Packed Stock (No Options), Standard Motor - Electromechanical
 03 = 2 speed VFD Standard Motor - Electromechanical Controls
 04 = 2 speed VFD Oversized Motor - Electromechanical Controls
 R3 = SZVAV VFD Standard Motor - ReliaTel Controls™
 R4 = SZVAV VFD Oversized Motor - ReliaTel Controls™

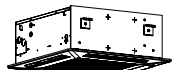
Minor Design Change _____

Service Digit - Not Orderable _____

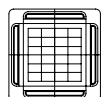
American Standard AccuFlex™ VRF Indoor Units

Table DU-12-A — R-410A VRF HSP (High Static Pressure) Duct^{①④}**4TVA00**

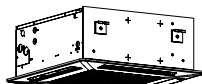
Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	FLA*	MOP*	Line Size (in)	
			W	D	H					Gas	Liq.
4TVA0076B100NB	208-230/1/60	76,000	48.8	40.9	18.5	218.3	41-45	4.75	15	3/4	3/8
4TVA0096B100NB	208-230/1/60	96,000	48.8	40.9	18.5	218.3	43-48	7.38	15	7/8	3/8

Table DU-12-B — R-410A VRF Mini Four-Way Cassette^①**4TVB00**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	FLA*	MOP*	Line Size (in)	
			W	D	H					Gas	Liq.
4TVB0005B100NC	208-230/1/60	5,000	22.8	22.8	9.8	30.9	26-34	0.22	15	1/2	1/4
4TVB0007B100NC	208-230/1/60	7,500	22.8	22.8	9.8	30.9	26-34	0.22	15	1/2	1/4
4TVB0009B100NC	208-230/1/60	9,500	22.8	22.8	9.8	30.9	26-34	0.22	15	1/2	1/4
4TVB0012B100NC	208-230/1/60	12,000	22.8	22.8	9.8	30.9	31-36	0.24	15	1/2	1/4
4TVB0018B100NC	208-230/1/60	18,000	22.8	22.8	9.8	30.9	34-40	0.34	15	1/2	1/4
4TVB0020B100NC	208-230/1/60	20,000	22.8	22.8	9.8	30.9	35-41	0.38	15	1/2	1/4

**TVEPANPC4****Cassette Cover Panels^③**

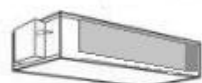
Model Number	Description	Matches Cassette HP Model(s)
PNL4WAYMINI23A.....	Cover Panel 23.3 x 23.3 x 1.97	4TVB0005B - 4TVB0020B

Table DU-12-C — R-410A VRF Four-Way Cassette^①**4TVC00**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	FLA*	MOP*	Line Size (in)	
			W	D	H					Gas	Liq.
4TVC0009B100ND	208-230/1/60	9,000	33	33	8	40.8	31-34	0.32	15	1/2	1/4
4TVC0012B100ND	208-230/1/60	12,000	33	33	8	40.8	31-34	0.32	15	1/2	1/4
4TVC0018B100ND	208-230/1/60	18,000	33	33	8	40.8	31-34	0.32	15	1/2	1/4
4TVC0024B100ND	208-230/1/60	24,000	33	33	8	40.8	34-36	0.38	15	1/2	1/4
4TVC0030B100ND	208-230/1/60	30,000	33	33	11.3	50.7	30-39	0.63	15	5/8	3/8
4TVC0036B100ND	208-230/1/60	36,000	33	33	11.3	50.7	33-40	0.70	15	5/8	3/8
4TVC0048B100ND	208-230/1/60	48,000	33	33	11.3	50.7	39-44	0.94	15	5/8	3/8

Cassette Cover Panels^③

Model Number	Description	Matches Cassette HP Model(s)
TVEPANPC4NUSET	Cover Panel 37.4 x 37.4 x 1.8	4TVC009B, 0018B, 0024B, 0030B, 00036B & 0048B

Table DU-12-D — R-410A VRF MSP (Medium Static Pressure) Duct^①**4TVD00-C**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	FLA*	MOP*	Line Size (in)	
			W	D	H					Gas	Liq.
4TVD0007C100ND	208-230/1/60	7,500	45.3	18.9	12.6	103.6	26-36	1.10	15	1/2	1/4
4TVD0009C100ND	208-230/1/60	9,500	45.3	18.9	12.6	103.6	26-36	1.10	15	1/2	1/4
4TVD0012C100ND	208-230/1/60	12,000	45.3	18.9	12.6	103.6	30-39	1.10	15	1/2	1/4
4TVD0015C100ND	208-230/1/60	15,000	45.3	18.9	12.6	103.6	32-41	1.10	15	1/2	1/4
4TVD0018C100ND	208-230/1/60	18,000	45.3	18.9	12.6	103.6	35-42	1.10	15	1/2	1/4
4TVD0024C100ND	208-230/1/60	24,000	47.3	25.6	14.2	144.4	30-36	4.30	15	5/8	3/8
4TVD0027C100ND	208-230/1/60	27,000	47.3	25.6	14.2	144.4	30-38	4.30	15	5/8	3/8
4TVD0030C100ND	208-230/1/60	30,000	47.3	25.6	14.2	144.4	31-38	4.30	15	5/8	3/8
4TVD0036C100ND	208-230/1/60	36,000	47.3	25.6	14.2	148.8	35-41	4.30	15	5/8	3/8
4TVD0048C100ND	208-230/1/60	48,000	47.3	25.6	14.2	148.8	36-42	4.30	15	5/8	3/8
4TVD0054C100ND	208-230/1/60	54,000	47.3	25.6	14.2	148.8	40-45	⑤	15	5/8	3/8

① Nominal capacity based on 25 ft. of equivalent refrigerant piping with 0 ft. level difference

- Cooling: Indoor temperature 80°F DB, 67°F WB/Outdoor temperature 95°F DB, 75°F WB

- Heating: Indoor temperature 70°F DB, 60°F WB/Outdoor temperature 47°F DB, 43°F WB

② Sound pressure was measured in a dead room. Actual noise level may be different depending on installation conditions.

③ Cassette panel must be ordered separately.

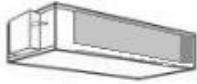
④ Optional internal condensate drain pump must be ordered separately if gravity drain is not possible

⑤ Refer to unit nameplate for MCA value

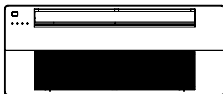
* Information subject to change. Please confirm with current Product Data for current factory production.

All VRF systems shall be selected using VRF Select software

American Standard AccuFlex™ VRF Indoor Units

**4TVD00-D****Table DU-13-A — R-410A VRF Mid-Static Ducted Indoor Unit^①**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVD0007D100NA	208-230/1/60	7,000	33.4	27.6	9.8	69.4	22-26	1.375	15	1/2	1/4
4TVD0009D100NA	208-230/1/60	9,000	33.4	27.6	9.8	69.4	22-26	1.375	15	1/2	1/4
4TVD0012D100NA	208-230/1/60	12,000	33.4	27.6	9.8	69.4	22-26	1.375	15	1/2	1/4
4TVD0015D100NA	208-230/1/60	15,000	33.4	27.6	9.8	69.4	22-26	1.375	15	1/2	1/4
4TVD0018D100NA	208-230/1/60	18,000	33.4	27.6	9.8	69.4	22-29	1.375	15	1/2	1/4
4TVD0024D100NA	208-230/1/60	24,000	47.2	27.6	9.8	89.3	30-39	1.875	15	5/8	3/8
4TVD0027D100NA	208-230/1/60	30,000	47.2	27.6	9.8	89.3	34-40	1.875	15	5/8	3/8
4TVD0030D100NA	208-230/1/60	36,000	47.2	27.6	9.8	89.3	35-40	1.875	15	5/8	3/8
4TVD0036D100NA	208-230/1/60	42,000	51.2	27.6	11.8	99.2	32-38	2.500	15	5/8	3/8
4TVD0048D100NA	208-230/1/60	48,000	51.2	27.6	11.8	99.2	35-41	2.500	15	5/8	3/8

**4TVE00****Table DU-13-B — R-410A VRF Slim One-Way Cassette^①**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVE0007B100NC	208-230/1/60	7,500	38.2	16.2	5.3	29.8	23-27	0.29	15	1/2	1/4
4TVE0009B100NC	208-230/1/60	9,500	38.2	16.2	5.3	29.8	24-29	0.32	15	1/2	1/4
4TVE0012B100NC	208-230/1/60	12,000	38.2	16.2	5.3	29.8	27-35	0.35	15	1/2	1/4

Cassette Cover Panels^③

Model Number	Description	Matches Cassette HP Model(s)
TVEPANPC1NUSET	Cover Panel 46.5 x 18.2 x 1.0	4TVE007B, 009B & 012B

Table DU-13-C — R-410A VRF Concealed / Recessed Floor Standing Indoor Unit^①

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVF0006B10RNA	208-230/1/60	6,000	37.1	8.6	23.6	50.7	20-23	0.2	15	1/2	1/4
4TVF0009B10RNA	208-230/1/60	9,000	37.1	8.6	23.6	50.7	21-26	0.22	15	1/2	1/4
4TVF0012B10RNA	208-230/1/60	12,000	37.1	8.6	23.6	50.7	27-37	0.24	15	1/2	1/4
4TVF0018B10RNA	208-230/1/60	18,000	48.1	8.6	23.6	62.8	32-40	0.53	15	1/2	1/4
4TVF0024B10RNA	208-230/1/60	24,000	48.1	8.6	23.6	62.8	32-40	0.53	15	5/8	3/8

Table DU-13-D — R-410A VRF Cabinet Style Floor Standing Indoor Unit^①

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVF0006B10CNA	208-230/1/60	6,000	46.0	8.6	23.6	57.3	20-23	0.2	15	1/2	1/4
4TVF0009B10CNA	208-230/1/60	9,000	46.0	8.6	23.6	57.3	21-26	0.22	15	1/2	1/4
4TVF0012B10CNA	208-230/1/60	12,000	46.0	8.6	23.6	57.3	27-37	0.24	15	1/2	1/4
4TVF0018B10CNA	208-230/1/60	18,000	57.0	8.6	23.6	69.4	32-40	0.53	15	1/2	1/4
4TVF0024B10CNA	208-230/1/60	24,000	57.0	8.6	23.6	69.4	32-40	0.53	15	5/8	3/8

① Nominal capacity based on 25 ft. of equivalent refrigerant piping with 0 ft. level difference

- Cooling: Indoor temperature 80°F DB, 67°F WB/Outdoor temperature 95°F DB, 75°F WB

- Heating: Indoor temperature 70°F DB, 60°F WB/Outdoor temperature 47°F DB, 43°F WB

② Sound pressure was measured in a dead room. Actual noise level may be different depending on installation conditions.

③ Cassette panel must be ordered separately.

* Information subject to change. Please confirm with current Product Data for current factory production.

All VRF systems shall be selected using VRF Select software

American Standard AccuFlex™ VRF Indoor Units

Table DU-14-A — R-410A VRF Slim Duct^{①④}

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVL0007B100NC	208-230/1/60	7,500	35.4	23.6	7.8	62.8	21-26	0.40	15	1/2	1/4
4TVL0009B100NC	208-230/1/60	9,500	35.4	23.6	7.8	62.8	23-27	0.50	15	1/2	1/4
4TVL0012B100NC	208-230/1/60	12,000	35.4	23.6	7.8	62.8	27-29	0.64	15	1/2	1/4
4TVL0018B100NC	208-230/1/60	18,000	43.3	23.6	7.8	76.0	31-36	1.18	15	1/2	1/4
4TVL0024B100NC	208-230/1/60	24,000	43.3	23.6	7.8	76.0	33-38	1.23	15	5/8	3/8
4TVL0030B100NC	208-230/1/60	30,000	51.2	27.2	11.6	103.6	34-37	1.00	15	5/8	3/8
4TVL0036B100NC	208-230/1/60	36,000	51.2	27.2	11.6	103.6	34-37	1.32	15	5/8	3/8
4TVL0048B100NC	208-230/1/60	48,000	51.2	27.2	11.6	107.0	36-39	1.75	15	5/8	3/8

**4TVL00****Table DU-14-B — R-410A VRF Dedicated Outside Air Units^{①⑤}**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVN0072A100NA	208-230/1/60	72,000	53.1	35.2	17.8	198.4	989	47	2.6	15	3/4
4TVN0096A100NA	208-230/1/60	96,000	53.1	35.2	17.8	198.4	1236	47	1.4	15	7/8

**Table DU-14-C — R-410A Single Zone System Circular Cassette HP - Single Phase, 1-1/2 to 4 Ton^{①②③}**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	FLA*	MOP*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVS0009B100NA	208-230/1/60	9,000	37.2	37.2	11.0	46.3	29-33	0.18	15	1/2	1/4
4TVS0012B100NA	208-230/1/60	12,000	37.2	37.2	11.0	46.3	29-33	0.18	15	1/2	1/4
4TVS0018B100NA	208-230/1/60	18,000	37.2	37.2	14.4	46.3	29-33	0.18	15	5/8	1/4
4TVS0024B100NA	208-230/1/60	24,000	37.2	37.2	14.4	46.3	32-38	0.28	15	5/8	3/8
4TVS0030B100NA	208-230/1/60	30,000	37.2	37.2	14.4	52.9	36-40	0.42	15	5/8	3/8
4TVS0036B100NA	208-230/1/60	36,000	37.2	37.2	14.4	52.9	38-43	0.57	15	5/8	3/8
4TVS0048B100NA	208-230/1/60	48,000	37.2	37.2	14.4	52.9	39-44	0.57	15	5/8	3/8

Cassette Cover Panel (must be ordered separately)

Model Number	Color	Description - Dimensions	Matches Cassette HP Model(s)	Weight (lbs)
PNLRNDCASS001S	White	Square Cover Panel 39.4 x 39.4 x 2.3	4TVS0009B - 4TVS0048B	7.9
PNLRNDCASS001R	White	Round Cover Panel 41.3 (diameter) x 3.7	4TVS0009B - 4TVS0048B	5.9
PNLRNDCASS001S	Black	Square Cover Panel 39.4 x 39.4 x 2.6	4TVS0009B - 4TVS0048B	7.9
PNLRNDCASS001R	Black	Round Cover Panel 41.3 (diameter) x 3.7	4TVS0009B - 4TVS0048B	5.9

Table DU-14-D — R-410A VRF High Wall^{①④}

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVW0007B100NC	208-230/1/60	7,500	32.5	7.5	11.3	24.3	27-31	0.32	15	1/2	1/4
4TVW0009B100NC	208-230/1/60	9,500	32.5	7.5	11.3	24.3	27-31	0.32	15	1/2	1/4
4TVW0012B100NC	208-230/1/60	12,000	32.5	7.5	11.3	24.3	29-37	0.38	15	1/2	1/4
4TVW0018B100NC	208-230/1/60	18,000	41.9	8.6	11.8	34.2	38-44	0.45	15	1/2	1/4
4TVW0020B100NC	208-230/1/60	20,000	41.9	8.6	11.8	34.2	38-44	0.48	15	1/2	1/4
4TVW0024B100NC	208-230/1/60	23,200	41.9	8.6	11.8	34.2	38-45	0.50	15	5/8	3/8

① Nominal capacity based on 25 ft. of equivalent refrigerant piping with 0 ft. level difference

- Cooling: Indoor temperature 80°F DB, 67°F WB/Outdoor temperature 95°F DB, 75°F WB

- Heating: Indoor temperature 70°F DB, 60°F WB/Outdoor temperature 47°F DB, 43°F WB

② Sound pressure was measured in a dead room. Actual noise level may be different depending on installation conditions.

③ Optional internal condensate drain pump must be ordered separately if gravity drain is not possible.

④ External condensate pump, if necessary, is available through sales.

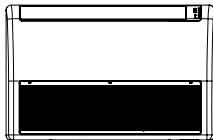
⑤ Only applicable with VRF heat pumps.

* Information subject to change. Please confirm with current Product Data for current factory production.

American Standard AccuFlex™ VRF Indoor Units

**4TVW00****Table DU-15-A — R-410A VRF High Wall^{①④}**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVW0005D100NA	208-230/1/60	5,000	29.5	9.7	9.8	17.9	24-28	0.18	15	1/2	1/4
4TVW0007D100NA	208-230/1/60	7,000	29.5	9.7	9.8	17.9	25-33	0.20	15	1/2	1/4
4TVW0009D100NA	208-230/1/60	9,000	29.5	9.7	9.8	18.1	25-36	0.25	15	1/2	1/4
4TVW0012D100NA	208-230/1/60	12,000	32.5	10.3	10.3	21.6	30-37	0.26	15	1/2	1/4
4TVW0015D100NA	208-230/1/60	15,000	32.5	10.3	10.3	21.6	34-41	0.41	15	1/2	1/4
4TVW0018D100NA	208-230/1/60	18,000	41.9	11.6	11.9	32.2	33-39	0.39	15	1/2	1/4
4TVW0024D100NA	208-230/1/60	24,000	41.9	11.6	11.9	32.2	36-44	0.54	15	3/8	5/8
4TVW0027D100NA	208-230/1/60	27,000	41.9	11.6	11.9	32.2	40-47	0.73	15	3/8	5/8
4TVW0030D100NA	208-230/1/60	30,000	50.4	9.9	13.6	40.8	42-49	0.68	15	3/8	5/8

**4TVX00****Table DU-15-B — R-410A VRF Ceiling Suspended (Floor)^{①③④}**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^②	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVX0018B100NB ^④	208-230/1/60	18,000	39.4	7.9	25.5	56.2	34-40	0.53	15	1/2	1/4
4TVX0024B100NB ^④	208-230/1/60	24,000	39.4	7.9	25.5	56.2	40-44	0.60	15	5/8	3/8

① Nominal capacity based on 25 ft. of equivalent refrigerant piping with 0 ft. level difference

- Cooling: Indoor temperature 80°F DB, 67°F WB/Outdoor temperature 95°F DB, 75°F WB

- Heating: Indoor temperature 70°F DB, 60°F WB/Outdoor temperature 47°F DB, 43°F WB

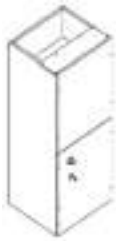
② Sound pressure was measured in a dead room. Actual noise level may be different depending on installation conditions.

③ EEV kit is required and must be ordered as a separate item.

④ External condensate pump, if necessary, is available through sales.

* Information subject to change. Please confirm with current Product Data for current factory production.

American Standard AccuFlex™ VRF Indoor Units

**Table DU-16-A — R-410A Convertible Ducted Air Handling Unit**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in) W D H	Shipping Weight (lbs)	MCA @240V	Max Fuse @240V (A)	Line Size (in) OD Gas OD Liq.
4TVM0009C100NB	208-240/1/60	9,000	35.4 18.8 10.3	72.8	0.9	15	1/2 1/4
4TVM0012C100NB	208-240/1/60	12,000	35.4 18.8 10.3	72.8	0.9	15	1/2 1/4
4TVM0018C100NB	208-240/1/60	15,000	45.3 18.8 12.6	89.3	0.9	15	1/2 1/4

Table DU-16-B — Electric Heaters for 4TVM-C

Model Number	Heater Model Number	Electric Heater				Minimum Circuit Ampacity (MCA)		Maximum Overcurrent Protection (MCOP)		Min. Wire Size (AWG)
		Circuit Breaker Quantity	kW	Amperes (A)						
				208 V	240 V	208 V	240 V	208 V	240 V	
4TVM0009C100NB	No Heater	N/A	N/A	N/A	N/A	1.04	0.9	15	15	14
4TVM0012C100NB	4TVMCK3KWHTR001	1	3	10.82	12.5	14.56	16.53	15	20	12
4TVM0018C100NA	No Heater	N/A	N/A	N/A	N/A	1.04	0.9	15	15	14
	4TVMCK3KWHTR001	1	3	10.85	12.5	14.56	16.53	15	20	12
	4TVMCK5KWHTR001	1	5	18.03	20.83	23.57	26.94	25	30	10

Table DU-16-C — R-410A Convertible Ducted Air Handling Unit

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in) W D H	Shipping Weight (lbs)	MCA*	Max. Fuse*	Line Size (in) OD Gas OD Liq.
4TVM0024B100NB	208-230/1/60	24,000	35.4 18.8 10.3	72.8	1.75	15	1/2 1/4
4TVM0030B100NB	208-230/1/60	30,000	35.4 18.8 10.3	72.8	1.88	15	5/8 3/8
4TVM0036B100NB	208-230/1/60	36,000	45.3 18.8 12.6	89.3	1.88	15	5/8 3/8
4TVM0042B100NB	208-230/1/60	42,000	45.3 18.8 12.6	89.3	2.00	15	5/8 3/8
4TVM0048B100NB	208-230/1/60	48,000	45.3 18.8 12.6	89.3	2.00	15	5/8 3/8
4TVM0060B100NB	208-230/1/60	60,000	45.3 18.8 12.6	89.3	2.00	15	5/8 3/8

Note: Must be used with 4TVCTRLAHU0001A Controller for 4TVM

Table DU-16-D — Controller for 4TVM

4TVCTRLAHU0001A 208-230/1/60 Use with 4TVM0024B-0060B 15.0 5.0 11.0 11.0 Must be ordered as a separate item.

Table DU-16-E — Electric Heaters for 4TVM-B

Model Number	Power Supply (Volts/Phase/Hz)	Nominal Capacity Heating @ 240 volts				Nominal Capacity Heating @ 208 volts			
		Circuit 1 kW	Circuit 1 BTUH	Circuit 2 kW	Circuit 2 BTUH	Circuit 1 kW	Circuit 1 BTUH	Circuit 2 kW	Circuit 2 BTUH
BAYHTR1504	208-230/60/1	3.84	13100			2.88	9800		
BAYHTR1505	208-230/60/1	4.8	16400			3.6	12300		
BAYHTR1508	208-230/60/1	7.68	26200			5.76	19700		
BAYHTR1510	208-230/60/1	9.6	32800			7.2	24600		
BAYHTR1515	208-230/60/1	9.6	32800	4.8	16400	7.2	24600	3.6	12300
BAYHTR1519	208-230/60/1	9.6	32800	9.6	32800	7.2	24600	7.2	24600
BAYHTR1520	208-230/60/1	9.6	32800	9.6	32800	7.2	24600	7.2	24600
BAYHTR3510	208-230/60/1	9.6	32800			7.2	24600		
BAYHTR3515	208-230/60/1	14.4	49200			10.8	36900		

This page indicates available products, however, specific applications including 4TVM Indoor units with VRF outdoor systems shall be validated through VRF select.

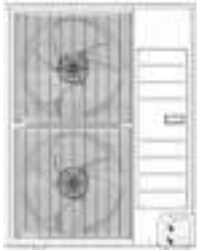
Electric heater selections shall be validated by the unit nameplate, a listing of approved heaters may be obtained in product data catalog VRF-PRC024*-EN.
(*will be A, B, C, etc. indicating the most current version).

Electrical Branch Circuits shall be validated by the unit nameplate data. This data is also listed in the product data catalog VRF-PRC024*-EN.

Printed literature is updated periodically; however, product change and development may dictate a unit nameplate change; in all cases, the unit nameplate values rule.

For complete equipment / combination selections,
installation instructions and warranty information,
please refer to Product Data/Ratings and/or Installers
Guides and Limited Warranty Handbooks.

American Standard AccuFlex™ VRF Indoor Units


Table DU-17-A — R-410A Mini VRF 208~230V Single Phase Heat Pump

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH) ①③	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ②	MCA*	MOP	Line Size (in)	
			W	D	H					OD	OD Liq.
4TVH0036B100NC	208-230/1/60	38,000	37	13	47.6	231.5	50	23	40	5/8	3/8
4TVH0048B100NC	208-230/1/60	48,000	37	13	47.6	231.5	51	29	50	5/8	3/8
4TVH0053B100NC	208-230/1/60	53,000	37	13	47.6	238	53	34	50	3/4	3/8

This document is designed a quick reference guide, please consult VRF Select for all systems selections and the latest product data catalogue(s) for diagrams and final electrical data.

① Nominal capacity based on 25 ft. of equivalent refrigerant piping with 0 ft. level difference

- Cooling: Indoor temperature 80°F DB, 67°F WB/Outdoor temperature 95°F DB, 75°F WB

- Heating: Indoor temperature 70°F DB, 60°F WB/Outdoor temperature 47°F DB, 43°F WB

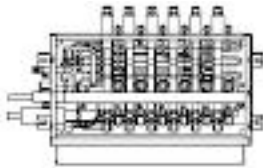
② Sound pressure was measured in a dead room. Actual noise level may be different depending on installation conditions.

③ Rated per AHRI Unitary Small HP Standard 210/240

Table DU-17-B — Optional outdoor unit accessory

Model	Description
Number	
TVGARD003A	Hail Guard for 4TVH0036B100NC / 4TVH0048B100NC / 4TVH0053B100NC

American Standard AccuFlex™ VRF Mode Control Unit (MCU)



4MCUCUY6N (6 port unit)

Table DU-17-C — R-410A VRF Mode Control Unit (MCU) ①②③

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Max Capacity BTUH	Uncrated Dimensions (in)			Shipping Weight (lbs)	No. Of Ports	MCA	MOP
			L	W	H				
4MCUCUY2NCE000	208-230/1/60	192,000	32.6	7.9	18.5	63.9	2	0.63	15
4MCUCUY4NCE000	208-230/1/60	120,000	32.6	7.9	18.5	63.9	4	0.63	15
4MCUCUY6NCE000	208-230/1/60	180,000	32.6	7.9	18.5	70.5	6	0.63	15

① The MCA and MOP listed for the MCU applies to the MCU only.

② If the MCU is used to distribute high voltage power to the indoor units, the electrical branch circuit size and overcurrent protection device rating shall be calculated using the adopted National Electrical Code (NECA 70E) per the Authority Having Jurisdiction (AHJ). The maximum current draw through the MCU and overcurrent protection device shall not exceed 15 AMPS.

③ Must use 4MCUCY style MCU's with 4TVP water source VRF units when using heat recovery option.

Table DU-17-D — R-410A VRF Next Generation Mode Control Units (MCU) 3-Phase ①②③

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Max Capacity BTUH	Uncrated Dimensions (in)			Shipping Weight (lbs)	No. Of Ports	MCA	MOP
			L	W	H				
4MCUTV1A548B1A	208-230/3/60	54,000	13.2	16.1	7.8	24.25	1	2.0	15
4MCUTV2A548B1A	208-230/3/60	108,000	28.7	18.4	7.8	46.29	2	2.0	15
4MCUTV4A548B1A	208-230/3/60	216,000	28.7	18.4	7.8	54.10	4	2.0	15
4MCUTV6A548B1A	208-230/3/60	216,000	28.7	18.4	7.8	62.80	6	2.0	15

① Do not mix Generation 1 MCU's and Next Generation MCU's in a VRF Heat Recovery System.

② Do not use Next Generation MCU's with 4TVP Water Source Systems.

③ Indoor units over 54,000 BTUH, requires port pairing. Currently, these Y connectors are available as KIT Numbers. Order KIT18189 and KIT18190 for each set of ports required to be paired.

MCU Model	Sound Level		Main Port Connections			Series Port Connections			Indoor Unit Port Connections	
	Standard Operation	Mode Chang- ing	Liquid	Suction	Hot Gas	Liquid	Suction	Hot Gas	Liquid	Gas
			OD"	OD"	OD"	OD"	OD"	OD"	OD"	OD"
4MCUTV1A548B1A	33.0	50.0	3/8"	7/8"	3/4"	N/A	N/A	N/A	3/8"	5/8"
4MCUTV2A548B1A	34.0	50.0	5/8"	1-1/8"	1-1/8"	5/8"	1-1/8"	1-1/8"	3/8"	5/8"
4MCUTV4A548B1A	36.0	50.0	5/8"	1-1/8"	1-1/8"	5/8"	1-1/8"	1-1/8"	3/8"	5/8"
4MCUTV6A548B1A	36.0	50.0	5/8"	1-1/8"	1-1/8"	5/8"	1-1/8"	1-1/8"	3/8"	5/8"

American Standard AccuFlex™ VRF Water Source Units


Table DU-18-A — R-410A VRF 208-230V Water Source Heat Pump / Heat Recovery Single Modules^③

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)		
			W	D	H					OD Gas	OD Liq.	HOT Gas
4TVP0072B300NB	208-230/3/60	72,000	30.2	21.5	39.4	353	48	16.0	25	3/4	3/8	5/8
4TVP0072B300NB	208-230/3/60	96,000	30.2	21.5	39.4	353	48	23.0	40	7/8	3/8	3/4
4TVP0120B300NB	208-230/3/60	120,000	30.2	21.5	39.4	353	50	30.0	50	1 1/8	1/2	7/8
4TVP0192B300NB	208-230/3/60	192,000	43.2	21.5	39.4	529	61	39.6	50	1 1/8	5/8	1 1/8

Table DU-18-B — R-410A VRF 460V Water Source Heat Pump / Heat Recovery Single Modules^③

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)		
			W	D	H					OD Gas	OD Liq.	HOT Gas
4TVP0072B400NB	460/3/60	72,000	30.2	21.5	39.4	368	48	10.0	15	3/4	3/8	5/8
4TVP0096B400NB	460/3/60	96,000	30.2	21.5	39.4	368	48	11.0	15	7/8	3/8	3/4
4TVP0120B400NB	460/3/60	120,000	30.2	21.5	39.4	368	50	15.6	25	1 1/8	1/2	7/8
4TVP0192B400NB	460/3/60	192,000	43.2	21.5	39.4	545	61	26.2	35	1 1/8	5/8	1 1/8

This document is designed as a quick reference guide, please consult VRF Select for all systems selections and the latest product data catalogue(s) for diagrams and final electrical data.

① Sound pressure was measured in a dead room. Actual noise level may be different depending on installation conditions.

② Information subject to change. Please confirm with current Product Data for current factory production.

③ Use only 4MCUCUY (1st Generation MCU's) with 4TVP Water Source Units.

American Standard AccuFlex™ VRF Outdoor Units

Table DU-19-A — R-410A VRF 208~230V Heat Pump Single Modules^③

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVH0072B300NB	208-230/3/60	72,000	34.6	30.1	66.7	461	60	28.0	35	3/4	3/8
4TVH0096B300NB	208-230/3/60	96,000	50.9	30.1	66.7	666	61	37.8	50	7/8	3/8
4TVH0120B300NB	208-230/3/60	120,000	50.9	30.1	66.7	666	61	43.0	50	1 1/8	1/2
4TVH0144B300NB	208-230/3/60	144,000	50.9	30.1	66.7	699	62	52.6	70	1 1/8	1/2
4TVH0168B300NC	208-230/3/60	168,000	50.9	30.1	66.7	754	63	66.0	80	1 1/8	5/8
4TVH0192B300NC	208-230/3/60	192,000	50.9	30.1	66.7	772	64	73.0	90	1 1/8	5/8

Table DU-19-B — R-410A VRF 208~230V Heat Recovery Single Modules^③

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)		
			W	D	H					OD Gas	OD Liq.	HOT Gas
4TVR0072B300NB	208-230/3/60	72,000	34.6	30.1	66.7	465	60	28.0	35	3/4	3/8	5/8
4TVR0096B300NB	208-230/3/60	96,000	50.9	30.1	66.7	679	61	37.8	50	7/8	3/8	3/4
4TVR0120B300NB	208-230/3/60	120,000	50.9	30.1	66.7	679	61	43.0	50	1 1/8	1/2	7/8
4TVR0144B300NB	208-230/3/60	144,000	50.9	30.1	66.7	714	62	52.6	70	1 1/8	1/2	7/8
4TVR0168B300NC	208-230/3/60	168,000	50.9	30.1	66.7	770	63	66.0	80	1 1/8	5/8	7/8
4TVR0192B300NC	208-230/3/60	192,000	50.9	30.1	66.7	778	64	73.0	90	1 1/8	1/2	1 1/8

Table DU-19-C — R-410A VRF 460V Heat Pump Single Modules^③

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVH0072B400NB	460/3/60	72,000	34.6	30.1	66.7	472	60	16.4	20	3/4	3/8
4TVH0096B400NB	460/3/60	96,000	50.9	30.1	66.7	582	61	19.0	25	7/8	3/8
4TVH0120B400NB	460/3/60	120,000	50.9	30.1	66.7	582	61	21.7	30	1 1/8	1/2
4TVH0144B400NB	460/3/60	144,000	50.9	30.1	66.7	714	62	26.4	40	1 1/8	1/2
4TVH0168B400NC	460/3/60	168,000	50.9	30.1	66.7	757	63	33.0	40	1 1/8	5/8
4TVH0192B400NC	460/3/60	192,000	50.9	30.1	66.7	774	64	37.0	50	1 1/8	5/8

Table DU-19-D — R-410A VRF 460V Heat Recovery Single Modules^③

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)		
			W	D	H					OD Gas	OD Liq.	HOT Gas
4TVR0072B400NB	460/3/60	72,000	34.6	30.1	66.7	481	60	16.4	20	3/4	3/8	5/8
4TVR0096B400NB	460/3/60	96,000	50.9	30.1	66.7	595	61	19.0	25	7/8	3/8	3/4
4TVR0120B400NB	460/3/60	120,000	50.9	30.1	66.7	595	61	21.7	30	1 1/8	1/2	7/8
4TVR0144B400NB	460/3/60	144,000	50.9	30.1	66.7	734	62	26.4	40	1 1/8	1/2	7/8
4TVR0168B400NC	460/3/60	168,000	50.9	30.1	66.7	770	63	33.0	40	1 1/8	1/2	7/8
4TVR0192B400NC	460/3/60	192,000	50.9	30.1	66.7	788	64	37.0	50	1 1/8	1/2	1 1/8

This document is designed a quick reference guide, please consult VRF Select for all systems selections and the latest product data catalogue(s) for diagrams and final electrical data.

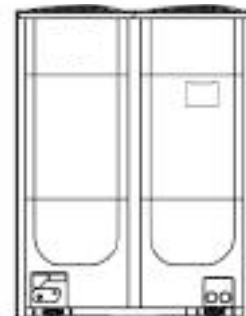
① Sound pressure was measured in a dead room. Actual noise level may be different depending on installation conditions.

② Information subject to change. Please confirm with current Product Data for current factory production.

③ If using 4TVR-B heat recovery units with Next Generation MCU's, the main board and hub board must be changed. Board is available through parts and supplies.



DU-19



American Standard AccuFlex™ VRF Outdoor Units

Table DU-20-A — R-410A VRF 208–230V Next Generation Heat Pump Single Modules

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncratered Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVH0072C300NA	208-230/3/60	72,000	34.6	30.1	66.7	426	60	28.0	35	3/4	3/8
4TVH0096C300NA	208-230/3/60	96,000	50.9	30.1	66.7	624	61	37.8	50	7/8	3/8
4TVH0120C300NA	208-230/3/60	120,000	50.9	30.1	66.7	624	61	43.0	50	1 1/8	1/2
4TVH0144C300NA	208-230/3/60	144,000	50.9	30.1	66.7	657	62	52.6	70	1 1/8	1/2
4TVH0168C300NA	208-230/3/60	168,000	50.9	30.1	66.7	717	63	66.0	80	1 1/8	5/8
4TVH0192C300NA	208-230/3/60	192,000	50.9	30.1	66.7	734	64	73.0	90	1 1/8	5/8

Table DU-20-B — R-410A VRF 208–230V Next Generation Heat Recovery Single Modules

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncratered Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)		
			W	D	H					OD Gas	OD Liq.	HOT Gas
4TVR0072C300NA	208-230/3/60	72,000	34.6	30.1	66.7	426	60	28.0	35	3/4	3/8	5/8
4TVR0096C300NA	208-230/3/60	96,000	50.9	30.1	66.7	624	61	37.8	50	7/8	3/8	3/4
4TVR0120C300NA	208-230/3/60	120,000	50.9	30.1	66.7	624	61	43.0	50	1 1/8	1/2	7/8
4TVR0144C300NA	208-230/3/60	144,000	50.9	30.1	66.7	667	62	52.6	70	1 1/8	1/2	7/8
4TVR0168C300NA	208-230/3/60	168,000	50.9	30.1	66.7	717	63	66.0	80	1 1/8	5/8	7/8
4TVR0192C300NA	208-230/3/60	192,000	50.9	30.1	66.7	734	64	73.0	90	1 1/8	5/8	1 1/8

Table DU-20-C — R-410A VRF 460V Next Generation Heat Pump Single Modules

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncratered Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVH0072C400NA	460/3/60	72,000	34.6	30.1	66.7	426	60	16.4	20	3/4	3/8
4TVH0096C400NA	460/3/60	96,000	50.9	30.1	66.7	624	61	19.0	25	7/8	3/8
4TVH0120C400NA	460/3/60	120,000	50.9	30.1	66.7	624	61	21.7	30	1 1/8	1/2
4TVH0144C400NA	460/3/60	144,000	50.9	30.1	66.7	657	62	26.4	40	1 1/8	1/2
4TVH0168C400NA	460/3/60	168,000	50.9	30.1	66.7	717	63	33.0	40	1 1/8	5/8
4TVH0192C400NA	460/3/60	192,000	50.9	30.1	66.7	734	64	37.0	50	1 1/8	5/8

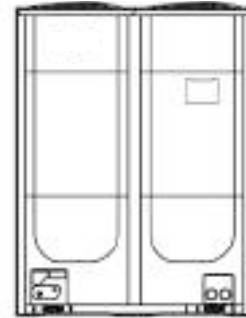
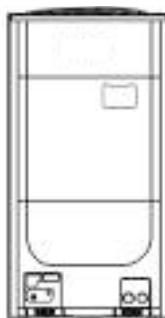
Table DU-20-D — R-410A VRF 460V Next Generation Heat Recovery Single Modules

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncratered Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)		
			W	D	H					OD Gas	OD Liq.	HOT Gas
4TVR0072C400NA	460/3/60	72,000	34.6	30.1	66.7	426	60	16.4	20	3/4	3/8	5/8
4TVR0096C400NA	460/3/60	96,000	50.9	30.1	66.7	624	61	19.0	25	7/8	3/8	3/4
4TVR0120C400NA	460/3/60	120,000	50.9	30.1	66.7	624	61	21.7	30	1 1/8	1/2	7/8
4TVR0144C400NA	460/3/60	144,000	50.9	30.1	66.7	657	62	26.4	40	1 1/8	1/2	7/8
4TVR0168C400NA	460/3/60	168,000	50.9	30.1	66.7	717	63	33.0	40	1 1/8	5/8	7/8
4TVR0192C400NA	460/3/60	192,000	50.9	30.1	66.7	734	64	37.0	50	1 1/8	5/8	1 1/8

This document is designed a quick reference guide, please consult VRF Select for all systems selections and the latest product data catalogue(s) for diagrams and final electrical data.

① Sound pressure was measured in a dead room. Actual noise level may be different depending on installation conditions.

② Information subject to change. Please confirm with current Product Data for current factory production.



American Standard AccuFlex™ VRF Outdoor Units

Table DU-21-A — R-410A AccuFlex™ VRF ProHeat 208~230V Heat Pump Single Modules

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TVHL072B300NA	208-230/3/60	72,000	50.9	30.1	66.7	657	60	50.0	60	3/4	3/8
4TVHL096B300NA	208-230/3/60	96,000	50.9	30.1	66.7	726	61	70.0	80	7/8	3/8

Table DU-21-B — R-410A AccuFlex™ VRF ProHeat 208~230V Heat Recovery Single Modules

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)		
			W	D	H					Gas	Liq.	HOT Gas
4TVRL072B300NA	208-230/3/60	72,000	50.9	30.1	66.7	667	60	50.0	60	3/4	3/8	5/8
4TVRL096B300NA	208-230/3/60	96,000	50.9	30.1	66.7	741	61	70.0	80	7/8	3/8	3/4

Table DU-21-C — R-410A AccuFlex™ VRF ProHeat 460V Heat Pump Single Modules

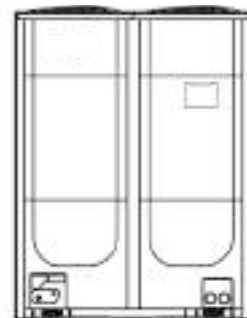
Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)	
			W	D	H					Gas	Liq.
4TVHL072B400NA	460/3/60	72,000	50.9	30.1	66.7	664	60	28.0	35	3/4	3/8
4TVHL096B400NA	460/3/60	96,000	50.9	30.1	66.7	728	61	38.0	45	7/8	3/8

Table DU-21-D — R-410A AccuFlex™ VRF ProHeat 460V Heat Recovery Single Modules

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level ^①	MCA ^②	MOP ^②	Line Size (in)		
			W	D	H					Gas	Liq.	HOT Gas
4TVRL072B400NA	460/3/60	72,000	50.9	30.1	66.7	683	60	28.0	35	3/4	3/8	5/8
4TVRL096B400NA	460/3/60	96,000	50.9	30.1	66.7	743	61	38.0	45	7/8	3/8	3/4

This document is designed a quick reference guide, please consult VRF Select for all systems selections and the latest product data catalogue(s) for diagrams and final electrical data.

- ① Sound pressure was measured in a dead room. Actual noise level may be different depending on installation conditions.
 ② Information subject to change. Please confirm with current Product Data for current factory production.



American Standard AccuFlex™ VRF Outdoor Units

Controls

Family	Description	Model Number
Integrated System Management	VRF Enterprise Management Software	TVCTRLTSTP3P00
Building Management System Gateways	VRF System Controller +BACnet	TVRCTRLSCBB17A0
Centralized Control Systems	VRF System TouchScreen Control	TVCTRLTCMA300A
	VRF Mode Select Switch	TVCTRLTCMC2000
Zone Controllers	VRF Wireless Remote Control	TVCTRLTRDH00UA
	VRF Wireless Remote Control for Circular Cassettes (4TVS)	TVCREMOTE0001A
	VRF Wired Control	TVCTRLTWRWD02A
	VRF Simple Wired Touch Control	TVCTRLTWR0002A
	VRF Duct Signal Receiver & Wire	TVCTRLTRKA10N0
Interface Modules	VRF External Contact Interface Module	TVCTRLTIMB14A0
Sensors	VRF Ext. Room Temp Sensor	TVCTRLTRWTA000
Utility Kits	VRF Technician Utilities	TVCTRLTIMC0300

EEV Kits

Table for use with 4TVX models.

EEV Type	EEV Model Number	QTY OF INDOOR UNITS		
		4TVX0018B100NB		4TVX0024B100NB
Single Port EEV	4EEVEVA32SA000	1	or	1
Two Port EEV	4EEVXDA32K200A	0	and	2
	4EEVXDA32K200A	1	and	1
	4EEVXDA32K200A	2	and	0
Three Port EEV	4EEVXDA32K300A	0	and	3
	4EEVXDA32K300A	1	and	2
	4EEVXDA32K300A	2	and	1
	4EEVXDA32K300A	3	and	0

American Standard AccuFlex™ VRF Unit Accessories

Accessories

Family	Description	Model Number
Indoor Y-Joint	VRF Y-Joint <51MBh	4YDK1509B0051A
	VRF Y-Joint 51-138MBh	4YDK2512B0138A
	VRF Y-Joint 138-160MBh	4YDK2812B0160A
	VRF Y-Joint 160-240MBh	4YDK2815B0240A
	VRF Y-Joint 240-336MBh	4YDK3419B0336A
	VRF Y-Joint 336-468MBh	4YDK4119B0468A
	VRF Y-Joint >468MBh	4YDK4422B0999A
Indoor Y-Joint (High Pressure Gas for HR)	VRF Y-Joint HR ≤80MBh	4YDK1500B0080A
	VRF Y-Joint HR 80-240MBh	4YDK2500B0240A
	VRF Y-Joint HR 240-468MBh	4YDK3100B0468A
	VRF Y-Joint HR >468MBh	4YDK3800B0999A
Outdoor Y-Joint (Outdoor Connection)	Outdoor VRF Y-Joint ≤468MBh	4TDK3819B0000A
	Outdoor VRF T-Joint HR ≤468MBh	4TDK3100B0000A
Header Joint	VRF Header Joint 4Units <160MBh	4HJK2512B0159A
	VRF Header Joint 8Units ≤240MBh	4HJK3115B0241A
	VRF Header Joint 8Units >240MBh	4HJK3819B0998A
MCU-Kit	VRF MCU Kit up to 6 IDU	4MCUCUY6NCE000*
	VRF MCU Kit up to 4 IDU	4MCUCUY4NCE000*
	VRF MCU Kit 2 IDU HSP Only	4MCUCUY2NCE000*
	VRF Next Generation MCU Kit - 1 port	4MCUTV1A548B1A
	VRF Next Generation MCU Kit - 2 port	4MCUTV2A548B1A
	VRF Next Generation MCU Kit - 4 port	4MCUTV4A548B1A
	VRF Next Generation MCU Kit - 6 port	4MCUTV6A548B1A
4MCUTV Y Connectors	3/8" MCU Liquid Port Y Connector	KIT18189
	5/8" MCU Vapor Port Y Connector	KIT18190
EEV Kits (For Wall-mounted & Ceiling indoor unit)	VRF EEV Kit 1Unit 17-31MBh (4TVX0018-24)	4EEVEVA32SA000
	VRF EEV Kit 2Unit 17-31MBh (4TVX0018-24)	4EEVXDA32K200A
	VRF EEV Kit 3Unit 17-31MBh (4TVX0018-24)	4EEVXDA32K300A
Drain Pump	VRF Drain Pump Slim Duct	CONDPUMPXVLB01
	VRF Drain Pump HSP 76.8/96MBh	CONDPUMPXVHB01
	VRF Drain Pump High Wall & Ceiling	CONDPUMPAHWP01
Cassette Panel	VRF Cassette Panel Slim 1Way	TVEPANPC1NUSET
	VRF Cassette Panel Mini 4Way	PNL4WAYMINI23A
	VRF Cassette Panel 4Way	TVEPANPC4NUSET
Hail Guards	4TVH/4TVR0072B	TVGARD001A
	4TVH/4TVR0096B-192B, 4TV*L ProHeat	TVGARD002A
	4TVH0036B, 4TVH0048B, 4TVH0053B	TVGARD003A

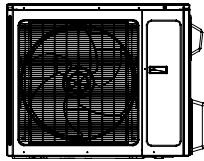
* Note: For application with Water Source Heat Recovery only (4TVP)

Table DU-23-A — R-410A VRF Software

VRF Select	PC Windows Based	Download from www.ASDealerNet.com
Technician Utility Software	PC Windows Based	Download from www.ASDealerNet.com

Ductless Single Zone System

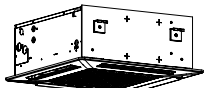
Pro Series Single Phase – 1½ - 4 Tons

**4TXU20****Table DU-24-A — Pro Series R-410A Single Zone System HP — Single Phase, 1½ to 4 Ton^{①②}**

Outdoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level**	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4TXU2018A10N0A	208-230/1/60	17,100	37.6	15.6	27.6	115.0	56	17	25	1/2	1/4
4TXU2024A10N0A	208-230/1/60	23,800	38.6	16.8	31.1	163.0	57	24	40	5/8	3/8
4TXU2030A10N0A	208-230/1/60	28,200	38.6	16.8	31.1	170.0	58	24	40	5/8	3/8
4TXU2036A10N0A	208-230/1/60	34,000	43.6	17.3	43.3	223.0	63	29	45	5/8	3/8
4TXU2042A10N0A	208-230/1/60	39,500	37.7	16.2	53.1	232.0	61	31	50	5/8	3/8
4TXU2048A10N0A	208-230/1/60	48,000	37.7	16.2	53.1	254.0	59	45	70	5/8	3/8

**4UXD20****Table DU-24-B — Pro Series R-410A Single Zone System Duct HP - Single Phase, 1½ to 4 Ton^{①②③}**

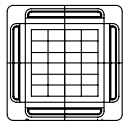
Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level**	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4UXD2018A10N0A	208-230/1/60	18,000	40.8	28.4	10.5	83.8	28-40		15	1/2	1/4
4UXD2024A10N0A	208-230/1/60	24,000	50.4	22.0	10.6	86.0	40-47		15	5/8	3/8
4UXD2030A10N0A	208-230/1/60	30,000	50.4	22.0	10.6	86.0	40-47		15	5/8	3/8
4UXD2036A10N0A	208-230/1/60	36,000	48.3	30.5	11.4	116.9	44-53		15	5/8	3/8
4UXD2042A10N0A	208-230/1/60	42,000	48.3	30.5	11.4	116.9	44-53		15	5/8	3/8
4UXD2048A10N0A	208-230/1/60	48,000	52.8	29.5	13.8	143.3	45-55		15	5/8	3/8

**4UXC20****Table DU-24-C — Pro Series R-410A Single Zone System Cassette HP - Single Phase, 1½ to 4 Ton^{①②③}**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level**	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4UXC2018A10N0A	208-230/1/60	18,000	26.2	23.5	9.4	52.9	37-47		15	1/2	1/4
4UXC2024A10N0A	208-230/1/60	24,000	36.1	33.1	9.4	83.8	38-47		15	5/8	3/8
4UXC2030A10N0A	208-230/1/60	30,000	36.1	33.1	12.6	97.0	40-49		15	5/8	3/8
4UXC2036A10N0A	208-230/1/60	36,000	36.1	33.1	12.6	97.0	43-51		15	5/8	3/8
4UXC2042A10N0A	208-230/1/60	42,000	36.1	33.1	12.6	97.0	43-51		15	5/8	3/8
4UXC2048A10N0A	208-230/1/60	48,000	35.8	35.8	11.4	110.2	41-53		15	5/8	3/8

Cassette Cover Panels (must be ordered separately)

Model Number	Description	Matches Cassette HP Model(s)
4UXL2018A10N0A	Cover Panel 26.4 x 26.4 x 2.0	4UXC2018A
4UXL2042A10N0A	Cover Panel 37.4 x 37.5 x 2.4	4UXC2024A - 4UXC2042A
4UXL2048A10N0A	Cover Panel 40.9 x 40.9 x 2.6	4UXC2048A

**4UXL20****Table DU-24-D — Pro Series R-410A Single Zone System Floor/Ceiling HP - Single Phase, 1½ to 4 Ton^{①②③}**

Indoor Model Number	Power Supply (Volts/Phase/Hz)	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in)			Shipping Weight (lbs)	Sound Pressure Level**	MCA*	Max. Fuse (A)*	Line Size (in)	
			W	D	H					OD Gas	OD Liq.
4UXX2018A10N0A	208-230/1/60	18,000	48.0	27.6	8.9	105.8	32-44		15	1/2	1/4
4UXX2024A10N0A	208-230/1/60	24,000	48.0	27.6	8.9	110.3	40-49		15	5/8	3/8
4UXX2030A10N0A	208-230/1/60	30,000	55.9	27.6	9.6	123.5	38-49		15	5/8	3/8
4UXX2036A10N0A	208-230/1/60	36,000	55.9	27.6	9.6	123.5	46-54		15	5/8	3/8
4UXX2042A10N0A	208-230/1/60	42,000	55.9	27.6	9.6	127.9	47-55		15	5/8	3/8
4UXX2048A10N0A	208-230/1/60	48,000	66.9	27.6	9.6	149.9	46-56		15	5/8	3/8

**4UXX20**

① Refer to the AHRI Directory for certified combinations and product performance.

② Outdoor unit must be matched with one of the three corresponding indoor units listed. These are one-to-one matched systems

③ Indoor units and outdoor units are powered from separate branch circuits

* Information subject to change. Please confirm with current Product Data/Service Facts for current factory production.

** Sound Pressure Level @3.3 ft. dB (A)

Ductless Single Zone System

Pro Series Single Phase – 1½ - 4 Tons

Table DU-25-A — Features

	4TXU20 Single Zone up to 20 SEER
• R410-A refrigerant.....	✓
• Nominal capacity 18-48 MBH	✓
• Cooling efficiency up to 20 SEER	✓
• Heating efficiency range 9-10 HSPF.....	✓
• Heat Pump	✓
• Crankcase Heater	✓
• Pan Heater	✓
• Low sound level.....	✓
• Blue fin anti-corrosion treatment	✓
• ETL and AHRI listed.....	✓
• Sleep mode function	✓
• Memory reset function	✓
• Low ambient heating and cooling to 0°F.....	✓
• Improved air quality with active carbon and catechin filters	✓
• Registered limited warranty 5-year on all other functional parts ①.....	✓
• Optional extended warranties available through third parties	✓

① Registered Limited Warranty terms are available when these products are registered within 60 days of installation. Registration can be done online at americanstandardair.com or by phone at 800-554-8005; otherwise American Standard Heating & Air Conditioning's Base Limited Warranty terms will apply. Base Limited Warranty information on specific products can be found on ASDealerNet.com.

Table DU-25-B —Optional Outdoor Unit Accessories

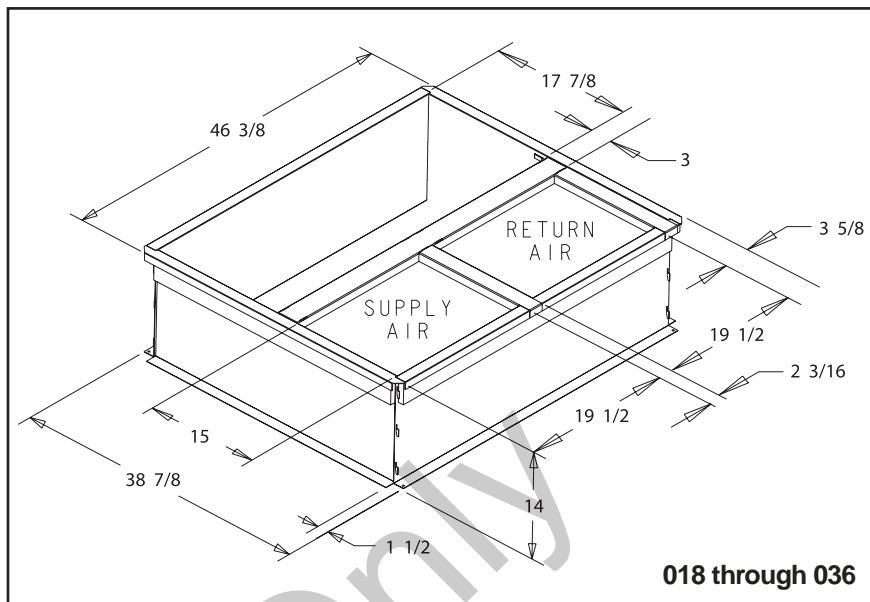
Model Number	Description	4TXU20 Single Zone up to 20 SEER
TAYREFLN560	Lineset Kit 1/4 x 1/2 - 25'	✓
TAYREFLN565	Lineset Kit 1/4 x 1/2 - 35'	✓
TAYREFLN570	Lineset Kit 1/4 x 1/2 - 50'	✓
TAYREFLN955	Lineset Kit 3/8 x 5/8 - 25'	✓
TAYREFLN960	Lineset Kit 3/8 x 5/8 - 35'	✓
TAYREFLN965	Lineset Kit 3/8 x 5/8 - 50'	✓
TAYREFLN970	Lineset Kit 3/8 x 5/8 - 100'	✓

Table DU-25-C —Optional Indoor Unit Accessories

Model Number	Description	4UXD20 Single Zone Indoor up to 20 SEER	4UXC20 Single Zone Indoor up to 20 SEER	4UXX20 Single Zone Indoor up to 20 SEER
AREMOTE2AHANDAA	Wireless controller.....	✓	✓	✓
TREWIRE2AHANDAA	Wired controller (shipped with, noted here for reorder reference).....	✓	✓	✓
AREPROG2AHANDAA	Programmable Wired controller	✓	✓	✓

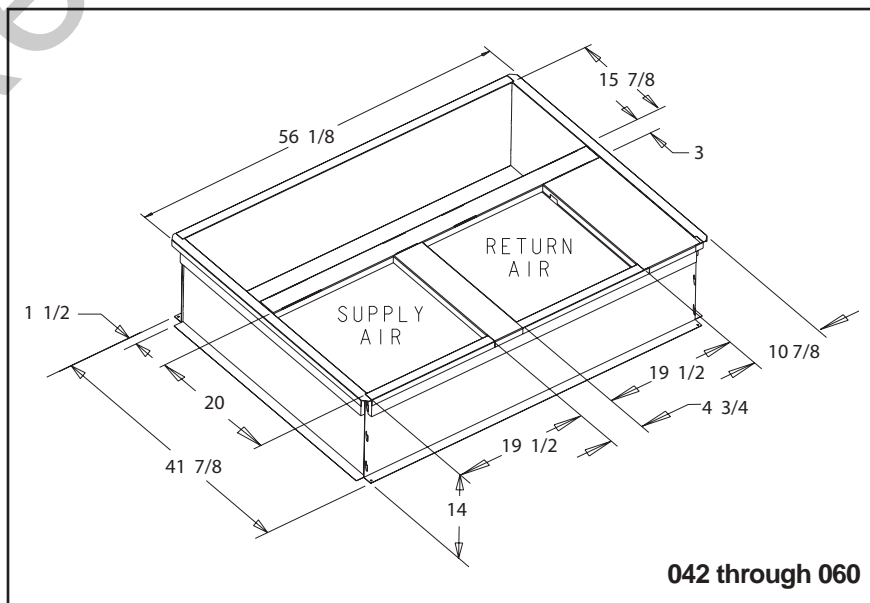
Roof Curbs

BAYCURB050A FULL PERIMETER ROOF MOUNTING CURB OUTLINE

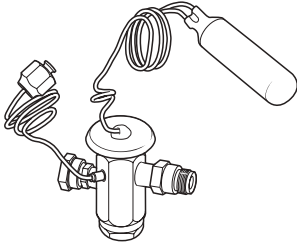


Full Perimeter BAYCURB050A	Full Perimeter BAYCURB051A
4TCY4024-036	4TCY4042-060
4TCX3018-036/4TCC3018-036	4TCX3042-060/4TCC3042-060
4WCZ6036/4DCZ6036	4WCZ6048-060/4DCZ6048-060
4WCY4024-036/4DCY4024-036	4WCY4042-060/4DCY4042-060
2/4WCX3018-036/2/4WCC3018-036	2/4WCX3042-060/2/4WCC3042-060
4YCZ6036	4YCZ6048-060
4YCY4024-036	4YCY4042-060
2/4YCX3018-036/2/4YCC3018-036	2/4YCX3042-060/2/4YCC3042-060

BAYCURB051A FULL PERIMETER ROOF MOUNTING CURB OUTLINE



Thermal Expansion Valves



**Expansion Valve TXV
Cooling/Heat Pump Kit**

General Information

This Thermostatic Expansion Valve Kit may be used on any indoor air handler or coil that is equipped with a current thermostatic expansion valve with an internal check valve and mechanical fittings. This kit can be used on split system heat pumps and air conditioning systems.

Thermostatic Expansion Valve Kits can be field installed to fit a variety of sizes and combinations of air handlers or coils and outdoor units to optimize performance.

This TXV kit will normally be used when a different refrigerant is going to be used in the air handler or coil than what is indicated on the unit name plate. The TXV type must always match the refrigerant type used in the outdoor unit.

Kit Identification

The first character in the kit model number indicates the type of refrigerant that the valve can be used with. Example a 2AYTXVH3D1830A is an R-22 valve.

The "3" in the eighth digit in the model number identifies the valve as a non-bleed TXV. When this TXV kit is installed with an outdoor unit that contains a reciprocating compressor, the outdoor unit must be equipped with a hard start kit if not factory installed. If the outdoor unit contains a scroll compressor, the installation of a hard start kit may be required.

Inspection

Check carefully for any shipping damage. Any such damage must be reported and claims made against the transportation company immediately. Any missing parts should be reported to your supplier at once and replaced with authorized parts only.

Table AC/IN-2-A Cooling/Heat Pump Non-Bleed TXV Kits- Dual Direction Flow-TXA/C-BC Coils

R-410 Model Number	R-22 Model Numbers	Used With 13 SEER Coils
4AYTXVH3D1831A	2AYTXVH3C1818A	2/4TXC, TXA018
4AYTXVH3D1831A	2AYTXVH3C2425A	2/4TXC, TXA024,025
4AYTXVH3D1831A	2AYTXVH3C3031A	2/4TXC, TXA031
4AYTXVH3D3343A	—4TXC, 4TXA-032	
4AYTXVH3D3343A	2AYTXVH3C3337A	2/4TXC, TXA036,037
4AYTXVH3D3343A	2AYTXVH3C4243A	2/4TXC, TXA042,043
4AYTXVH3D4863A	—4TXC, 4TXA-044	
4AYTXVH3D4863A	2AYTXVH3C4850A	2/4TXC, TXA048,049,050
4AYTXVH3D4863A	2AYTXVH3C5463A	2/4TXC, TXA060,061,064

Table AC/IN-2-B Cooling/Heat Pump Non-Bleed TXV Kits- Dual Direction Flow

R-410 Model Number	R-22 Model Number	Used With Horizontal Flat Coils
4AYTXVH3D1831A	2AYTXVH3C1818A	2/4TXF-018
4AYTXVH3D3343A	2AYTXVH3C3337A	2/4TXF-033
4AYTXVH3D3343A	2AYTXVH3C4243A	2/4TXF-041
4AYTXVH3D4863A	2AYTXVH3C5463A	2/4TXF-054
4AYTXVH3D4863A	2AYTXVH3C5463A	2/4TXF-063

Table AC/IN-2-C Cooling/Heat Pump Non-Bleed TXV Kits- Dual Direction Flow-TXA/C-AS Coils

R-410 Model Number	R-22 Model Number	Used With AS Aluminum Coils
4AYTXVH3B2531A	2AYTXVH3B2531A	2/4TXA, TXC-025
4AYTXVH3B2531A	2AYTXVH3B2531A	2/4TXA, TXC-031
4AYTXVH3B3654A	2AYTXVH3B3637A	2/4TXA, TXC-036
4AYTXVH3B3654A	2AYTXVH3B3637A	2/4TXA, TXC-037
4AYTXVH3B3654A	2AYTXVH3B5454A	2/4TXA, TXC-054
4AYTXVH3B6165A	2AYTXVH3B6565A	2/4TXA, TXC-065

Table AC/IN-2-D Cooling/Heat Pump Non-Bleed TXV Kits – Dual Direction Flow 4NXX/4NXC

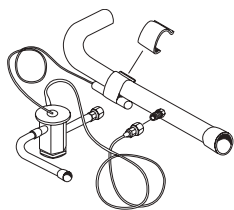
R-22 Number	Used With 4NXX & 4NXC Coils
2AYTXVH3E1824AA	4NXX, NXC – 018 - 024
2AYTXVH3E2536AA	4NXX, NXC – 025 - 036
2AYTXVH3E6363AA	4NXC - 063

Table AC/IN-2-E Cooling/Heat Pump Non-Bleed TXV Kits- Dual Direction Flow

R-410 Number	R-22 Numbers	Used With Air Handlers
4AYTXVH3D1830A	2AYTXVH3D1830A	2TFB-018-030
4AYTXVH3D1831A	2AYTXVH3D1830A	2TFB-036
4AYTXVH3D1831A	2AYTXVH3D1830A	2/4TFE-025
4AYTXVH3D1831A	2AYTXVH3D1830A	2/4TEC-018-030
—	2AYTXVH3D3636A	2/4TEC-036
4AYTXVH3D3642A	—	2/4TEC-036-042
—	2AYTXVH3D4260A	2/4TEC-042-060
4AYTXVH3D4863A	—	2/4TEC-048-060
4AYTXVH3D1831A	2AYTXVH3D1830A	2/4TEH-018-030
—	2AYTXVH3D3636A	4TEH-036
4AYTXVH3D3642A	—	2TEH-036-042
—	2AYTXVH3D4260A	4TEH-042-060
4AYTXVH3D4863A	—	2TEH-048-060
4AYTXVH3D1800A	2AYTXVH3D1830A	2/4TGB-018
4AYTXVH3D1830A	2AYTXVH3D1830A	2/4TGB-025
4AYTXVH3D1831A	2AYTXVH3D1830A	2/4TGB-030
4AYTXVH3D3600A	2AYTXVH3D1830A	2/4TGB-036
4AYTXVH3D3343A	2AYTXVH3D4260A	2/4TGB-042
4AYTXVH3D4863A	2AYTXVH3D4260A	2/4TGB-048
4AYTXVH3D3642A	2AYTXVH3D4260A	2/4TEE-039
4AYTXVH3D4863A	2AYTXVH3D4260A	2/4TEE-048-064

For complete equipment / combination selections, installation instructions and warranty information, please refer to Product Data/Ratings and/or Installers Guides and Limited Warranty Handbooks.

Thermal Expansion Valves



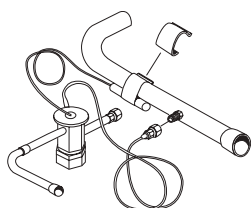
**Expansion Valve TXV
Cooling Kit**

Table AC/IN-3-A — Cooling Bleed TXV Kits – Single Direction Flow

Model Number	Used With AC Units	Liquid Line Connection Dia. I.D. (In.)	Gas Line Connection Dia. I.D. (In.)	Shipping Weight (lbs.)	Refrigerant
TAYTXVA0B5C	1-1½ Ton	1/4	5/8	2	R-22
TAYTXVA0C5C	2-2½ Ton	5/16	3/4	2	R-22
TAYTXVA0E5C	3-3½ Ton	3/8	7/8	2	R-22
TAYTXVA0G5C	4 Ton	3/8	1 1/8	2	R-22
TAYTXVA0H5C	5-6 Ton	3/8	1 1/8	2	R-22

Table AC/IN-3-B — Cooling Non-Bleed TXV Kits – Single Direction Flow

Model Number	Used With AC Units	Liquid Line Connection Dia. I.D. (In.)	Gas Line Connection Dia. I.D. (In.)	Shipping Weight (lbs.)	Refrigerant
TAYTXVA0B3C	1-1½ Ton	1/4	5/8	2	R-22
TAYTXVA0C3C	2-2½ Ton	5/16	3/4	2	R-22
TAYTXVA0E3C	3-3½ Ton	3/8	7/8	2	R-22
TAYTXVA0G3C	4 Ton	3/8	1 1/8	2	R-22
TAYTXVA0H3C	5-6 Ton	3/8	1 1/8	2	R-22



**Expansion Valve TXV
Heat Pump Kit***

Table AC/IN-3-C — Heat Pump Non- Bleed TXV Kits (also for cooling) – Dual Direction Flow

Model Number	Used With AC Units	Liquid Line Connection Dia. I.D. (In.)	Gas Line Connection Dia. I.D. (In.)	Shipping Weight (lbs.)	Refrigerant
TAYTXVH0B3C	1-1½ Ton	1/4	5/8	3	R-22
TAYTXVH0C3C	2-2½ Ton	5/16	3/4	3	R-22
TAYTXVH0E3C	3-3½ Ton	3/8	7/8	3	R-22
TAYTXVH0G3C	4 Ton	3/8	1 1/8	3	R-22
TAYTXVH0H3C	5-6 Ton	3/8	1 1/8	3	R-22

Table AC/IN-3-D — Cooling/Heat Pump Non-Bleed TXV Kits - Dual Direction Flow*

Model Number	Used With AC Units	Liquid Line Connection Dia. I.D. (In.)	Gas Line Connection Dia. I.D. (In.)	Shipping Weight (lbs.)	Refrigerant
TAYTXVH0D3C	2½ -3 Ton	3/8	1 1/8	2	R-22
TAYTXVH0G3C	4-5 Ton	3/8	1 1/8	2	R-22

Table AC/IN-3-E — R-410A Heat Pump Non-Bleed TXV Kits (also for cooling) - Dual direction flow

Model Number	Used With HP/AC Units	Liquid Line Connection Dia. I.D. (In.)	Gas Line Connection Dia. I.D. (In.)	Shipping Weight (lbs.)	Refrigerant
4AYTXVH3A1830A	1½-2½ Ton	5/16 ^①	3/4 ^②	2	R-410A
4AYTXVH3A3654A	3-4 Ton	3/8	7/8 ^③	2	R-410A
4AYTXVH3A6060A	5 Ton	3/8	7/8	2	R-410A

① 1 1/2 ton requires 1/4" liquid line; reducer fittings provided.

② 1 1/2 ton requires 1/2" suction line, 2 ton requires 5/8; reducer fittings provided.

③ 3 & 3 1/2 ton requires 3/4" suction line; reducer fitting provided.

* Used with TXH coils only where approved for use with 2 compressor systems.

Notes:

- Use in place of FCCV (Above) on air handlers and coils
- Match TXV kit size to outdoor nominal cooling capacity
- Braze field connections

Equipment Date Identification

1980 – 2009

The nine digit serial numbers on all American Standard central air conditioning and heating products are employed to identify the year and fiscal week of product manufacture.

Year of manufacture First digit..... **M124X04CF**
 Fiscal week of manufacture..... Second and third digit **M124X04CF**
 Day of week of manufacture..... Fourth digit **M124X04CF**
 Consecutive order of production Last Five digits **M124X04CF**

Exception – Accessories are an exception to the nine digit serial number assignment and may have only three digits to indicate date code. Coils which have only three digits to indicate date code are an exception to the nine digit serial number assignment.

Year	Residential, ID & OD ^① Light Commercial Products & Compressors	Ducane Oil ^① Horizontal Gas Furnaces ^②	Year	Residential, ID & OD ^① Light Commercial Products & Compressors	Ducane Oil ^① Horizontal Gas Furnaces ^②	Year	Residential, ID & OD ^① Light Commercial Products & Compressors	Ducane Oil ^① Horizontal Gas Furnaces ^②
1980	O, A	L	1997	M	97	2014	14	—
1981	T	M	1998	N	98	2015	15	—
1982	U	N	1999	P	99	2016	16	—
1983	W	9	2000	R	—	2017	17	—
1984	X	Q	2001	Z	—	2018	18	—
1985	Y	85	2002	2	—	2019	19	—
1986	S	86	2003	3	—			
1987	B	87	2004	4	—			
1988	C	88	2005	5	—			
1989	D	89	2006	6	—			
1990	E	90	2007	7	—			
1991	F	91	2008	8	—			
1992	G	92	2009	9 or 09	—			
1993	H	93	2010	10	—			
1994	J	94	2011	11	—			
1995	K	95	2012	12	—			
1996	L	96	2013	13	—			

- ① Beginning with 1/1/96 (L01) Ducane oil furnace production uses same date code method as gas furnace. Prior to 1/1/96 Ducane serial number used last four digits = date code, example HA1234569540 1995, 40th week.

Example: 123456-**8 5 4 0**

Year of manufacture 8 5 Fiscal week of manufacture 4 0

- ② Dedicated horizontal gas furnaces, production ceased after introduction of convertible furnaces.
2010

Digit	Description	Current Digit Value Options
1 ST	Second to Last integer of the current calendar year	1 through 9 and blank space, Blank Space used when 0 (zero)
2 ND	Last integer of the current calendar year	0 through 9
3 RD	Fiscal Week (Tens numeral)	0 through 5
4 TH	Fiscal Week (Units numeral)	0 through 9
5 TH	Day of the Week	1 through 7
6 TH	Time Stamp	A through Z and 0 through 9, excluding I, O, Q, V, Y, and Z
7 TH	Time Stamp	A through Z and 0 through 9, excluding I, O, Q, V, Y, and Z
8 TH	Time Stamp	A through Z and 0 through 9, excluding I, O, Q, V, Y, and Z
9 TH	Assembly Line Designator	A through Z and 0 through 9, excluding I, O, Q, V, Y, and Z
10 TH	Plant Code	A, D, F, G, H, V, Y, X

Plant Codes: (starting around 1995)	
A = Monterrey	
D = Springhill, LA (used to be the last character of a 10 digit serial on Ft. Smith products when they were sold commercially back in the late 1980's)	
F = Tyler, TX	
G = Trenton, NJ	
H = Ft. Smith, AR	
L = Lynn Haven, FL	
V = Vidalia, GA	
X = Sourced products	

For complete equipment / combination selections, installation instructions and warranty information, please refer to Product Data/Ratings and/or Installers Guides and Limited Warranty Handbooks.

Refrigerant Line Sets

Table AC/IN-5-A — Refrigerant Line Sets

Model Number	Gas Line ^{①②} Dia. O.D.	Liquid Line Dia. O.D. Length	Shipping Weight
TAYREFLN325	7/8	3/8 25	20
TAYREFLN330	7/8	3/8 30	24
TAYREFLN340	7/8	3/8 40	30
TAYREFLN350	7/8	3/8 50	39
TAYREFLN725	3/4	3/8 25	19
TAYREFLN730	3/4	3/8 30	22
TAYREFLN740	3/4	3/8 40	28
TAYREFLN750	3/4	3/8 50	35
TAYREFLN950	5/8	3/8 50	30

① Gas line 90° bend one end.

② Gas line insulation 3/4" thickness.

Note: Contains a holding charge of Nitrogen.

Read Only

Refrigerant HFC 410A (R-410A)

Tables contain no allowances for vertical lift!

Table AC/IN-6-A — Liquid Line Selection Table for R-410A Single Speed Systems

Maximum Allowable Liquid Line Pressure Drop = 50 PSI
 Subtract .43 PSI for each foot of Liquid Lift (if any)
 Do Not Exceed this value when selecting Liquid Line.

Tube O.D.	Rated BTUH	Pressure Drop (PSI) For Total Equivalent Length											
		20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	220'	240'
1/4"	15000	4.5	9.0	13.6	18.1	22.6	27.1	31.6	36.2	40.7	45.2	49.7	—
	18000	6.3	12.6	18.8	25.1	31.4	37.7	44.0	—	—	—	—	—
	24000	15.4	30.8	46.2	—	—	—	—	—	—	—	—	—
5/16"	15000	1.2	2.4	3.5	4.7	5.9	7.1	8.3	9.4	10.6	11.8	13.0	14.2
	18000	1.6	3.3	4.9	6.6	8.2	9.8	11.5	13.1	14.8	16.4	18.0	19.7
	24000	2.8	5.5	8.3	11.0	13.8	16.6	19.3	22.1	24.8	27.6	30.4	33.1
	30000	4.1	8.3	12.4	16.6	20.7	24.8	29.0	33.1	37.3	41.4	45.5	49.7
	36000	5.8	11.6	17.3	23.1	28.9	34.7	40.5	46.2	—	—	—	—
3/8"	24000	1.0	1.9	2.9	3.8	4.8	5.8	6.7	7.7	8.6	9.6	10.6	11.5
	30000	1.4	2.9	4.3	5.8	7.2	8.6	10.1	11.5	13.0	14.4	15.8	17.3
	36000	2.0	4.0	6.1	8.1	10.1	12.1	14.1	16.2	18.2	20.2	22.2	24.2
	42000	2.7	5.3	8.0	10.6	13.3	16.0	18.6	21.3	23.9	26.6	29.3	31.9
	48000	3.4	6.8	10.2	13.6	17.0	20.4	23.8	27.2	30.6	34.0	37.4	40.8
1/2"	60000	5.1	10.3	15.4	20.6	25.7	30.8	36.0	41.1	46.3	—	—	—
	42000	.5	1.1	1.6	2.2	2.7	3.2	3.8	4.3	4.9	5.4	5.9	6.5
	48000	.7	1.4	2.0	2.7	3.4	4.1	4.8	5.4	6.1	6.8	7.5	8.2
1/2"	60000	1.0	2.1	3.1	4.2	5.2	6.2	7.3	8.3	9.4	10.4	11.4	12.5

Note 1: A blank space indicates a pressure drop of over 50 PSI.

Note 2: Other existing sources of pressure drop, (solenoid valves, etc.) must be considered.

Note 3: A vertical run with a heat pump system always results in a liquid lift (heating or cooling).

Note 4: The smallest liquid line diameter that results in a total liquid line pressure drop of 50 PSI or less results in the most reliable system (fewer pounds of R-410A).

Note 5: It is recommended to place units where 1/2" liquid line is not required due to the increased refrigerant volume imposed by the larger liquid line.

Note 6: At the time this manual was printed all outdoor units were rated with 3/8" liquid line.

Table AC/IN-6-B — Allowable Vapor Line Diameters and BTUH Loss (R-410A Single Speed Systems)

Nominal Tons	Tube O.D. (Inches)	Press. Drop PSI/100 Ft.	BTUH Loss For Equivalent Length										
			40'	60'	80'	100'	120'	140'	160'	180'	200'	220'	240'
1.0	1/2	5.0	70	160	250	340	430	520	610	700	790	880	970
	5/8	1.5	20	50	73	100	130	155	180	210	235	265	290
1.5	1/2	10.8	173	410	640	875	1110	1340	1575	1810	2040	2275	2510
	5/8	3.1	50	120	185	250	320	385	450	520	585	655	720
	3/4	1.2	20	45	70	95	125	150	175	200	225	255	280
2.0	5/8	5.4	115	270	430	585	740	895	1050	1205	1360	1515	1670
	3/4	2.0	45	100	160	215	275	330	390	445	505	560	620
2.5	5/8	8.2	220	515	810	1110	1400	1695	1990	2290	2585	2880	3175
	3/4	3.0	80	190	295	405	515	620	730	840	945	1055	1160
	7/8	1.3	35	80	130	175	220	270	315	365	410	455	505
3.0	5/8	11.7	380	885	1390	1895	2400	2905	3410	3915	4425	4930	—
	3/4	4.3	140	325	510	700	880	1070	1255	1440	1625	1810	2000
	7/8	1.9	60	145	225	310	390	470	555	635	720	800	880
3.5	3/4	5.8	220	510	805	1095	1390	1680	1975	2265	2560	2850	3140
	7/8	2.5	95	220	345	475	600	725	850	975	1105	1230	1355
4.0	3/4	7.4	320	745	1170	1600	2025	2450	2875	3305	3730	4155	4580
	7/8	3.2	140	325	510	690	875	1060	1245	1430	1615	1795	1980
	1-1/8③	.9	40	90	145	195	245	300	350	400	455	505	555
5.0	3/4	11.5	620	1450	2280	3105	3935	4760	5590	6415	7245	8073	8900
	7/8	4.9	265	615	970	1325	1675	2030	2380	2735	3080	3440	3795
	1-1/8	1.3	70	165	255	350	445	540	630	725	820	915	1005

Note 1: Shaded value indicates more than 10% capacity loss.

Note 2: Blank space indicates more than 15% capacity loss.

Note 3: Only approved for cooling units, do not use 1 1/8" vapor lines on heat pumps less than 5 ton.

Note 4: If linear length exceeds 150 feet, add 2 ounces of approved compressor oil per every 10 feet in excess of 150 feet. (Example: if the actual line length is 170 feet, add 4 ounces of oil to the system)

**This page contains limited data to fully determine if the application will work or to select required accessories.
 Please refer to publication 14-4050-01 for complete details and examples.**

Refrigerant Piping Information for Two Stage Split Systems

Table AC/IN-7-A — Allowable Vapor and Liquid Line Diameters for Two Stage, Single Compressor Split Systems

Rated Line Sizes	Line Sizes		Service Valve Connection Size		Max Line & Lift Lengths	
	Vapor Line	Liquid Line	Vapor Line Connection	Liquid Line Connection	TOTAL Max Line Length (ft)	Max Lift (ft)
2 Ton HP	5/8"	3/8"	5/8"	3/8"	150'	50'
3 Ton HP	3/4"	3/8"	3/4"	3/8"	80'	25'
4 Ton HP	7/8"	3/8"	7/8"	3/8"	150'	50'
5 Ton HP	1-1/8"	3/8"	1-1/8"	3/8"	80'	25'

Alternate Line Sizes	Line Sizes		Service Valve Connection Size		Max Line & Lift Lengths	
	Vapor Line	Liquid Line	Vapor Line Connection	Liquid Line Connection	TOTAL Max Line Length (ft)	Max Lift (ft)
2 Ton HP	5/8"	3/8"	5/8"	3/8"	150'	50'
	3/4"	3/8"			80'	25'
3 Ton HP	5/8"	3/8"	3/4"	3/8"	150'	50'
	7/8"	3/8"			80'	25'
4 Ton HP	3/4"	3/8"	7/8"	3/8"	150'	50'
5 Ton HP	3/4"	3/8"	1-1/8"	3/8"	150'	50'
	7/8"	3/8"			150'	50'

Rated Line Sizes	Line Sizes		Service Valve Connection Size		Max Line & Lift Lengths	
	Vapor Line	Liquid Line	Vapor Line Connection	Liquid Line Connection	TOTAL Max Line Length (ft)	Max Lift (ft)
2 Ton AC	5/8", 3/4"	3/8"	5/8"	3/8"	150'	50'
3 Ton AC	5/8", 3/4", 7/8"	3/8"	3/4"	3/8"	150'	50'
4 Ton AC	3/4", 7/8"	3/8"	7/8"	3/8"	150'	50'
5 Ton AC	3/4", 7/8", 1-1/8"	3/8"	1-1/8"	3/8"	150'	50'

See Application Bulletin SS-APB011-EN

Table AC/IN-7-B — Equivalent Length (Ft.) of Non-Ferrous Valves and Fittings (Brazed)

O.D. Tube Size (Inches)	Globe Valve	Angle Valve	Short Radius Ell	Long Radius Ell	Tee Line Flow	Tee Branch Flow
1/2"	70	24	4.7	3.2	1.7	6.6
5/8"	72	25	5.7	3.9	2.3	8.2
3/4"	75	25	6.5	4.5	2.9	9.7
7/8"	78	28	7.8	5.3	3.7	12.0
1-1/8"	87	29	2.7	1.9	2.5	8.0
1-3/8"	102	33	3.2	2.2	2.7	10.0
1-5/8"	115	34	3.8	2.6	3.0	12.0

Information for this chart extracted by permission from A.R.I. Refrigerant Piping Data, page 28.

* For smaller sizes, use 1/2" values.

This page contains limited data to fully determine if the application will work or to select required accessories. Please refer to publication SS-APG006-EN for complete details and examples.

For complete equipment / combination selections, installation instructions and warranty information, please refer to Product Data/Ratings and/or Installers Guides and Limited Warranty Handbooks.

Split Systems with Variable Speed Compressor

Subcooling Charging

Subcooling Charging in Cooling Above 55°F Outdoor Ambient Temperature

The manufacturer has always recommended installing American Standard approved matched indoor and outdoor systems.

All split systems are AHRI rated with TXV or EEV indoor systems.

The benefits of installing approved indoor and outdoor split systems are maximum efficiency, optimum performance and the best overall reliability.

The following charging methods are therefore prescribed for systems with indoor TXVs or EEVs.

1. Subcooling (in the cooling mode) is the only recommended method of charging between 55° and 120° ambient temperatures.
2. When charging for ambient temperatures above 120°, charge to 10° subcooling. It is important to return when outdoor ambient temperature is between 55° and 120° to verify system charge per these instructions.
3. For best results—the indoor temperature should be kept between 70° to 80°. Add system heat if needed.
4. Locate the designated subcooling target from the unit nameplate.
5. Run the system using the Charging Mode-Cooling test mode found in the 950 control. This is the only approved method for setting the system charge level. To access Charge Mode-Cooling from the 950 control home screen go to:
 - ▶ Menu
 - ▶ Service
 - ▶ Technician Access (hold for 5 seconds)
 - ▶ Proceed
 - ▶ Test Mode
 - ▶ Variable Speed
 - ▶ Charging Mode-Cooling and follow the on-screen prompts. Charging Mode-Cooling and follow the on-screen prompts.
6. At startup, or any time charge is removed or added, the system must be operated for a minimum of (20) minutes to stabilize before accurate measurements can be made.
7. Measure Liquid Line Temperature and Refrigerant Pressure at service valves.
8. Determine total refrigerant line length, and height (lift) if indoor section is above the condenser. Follow the Subcool Charging Corrections Table to calculate additional subcooling target value.
9. Locate your liquid line temperature in the left column of the table, and the intersecting liquid line gage pressure under the subcool selection column. Add refrigerant to raise the pressure to match the table, or remove refrigerant to lower the pressure. Always wait (20) minutes for the system conditions to stabilize before adjusting charge again.
10. When system is correctly charged, you can refer to System Pressure Curves to verify typical performance.

Table AC/IN-8-A — 024 Units

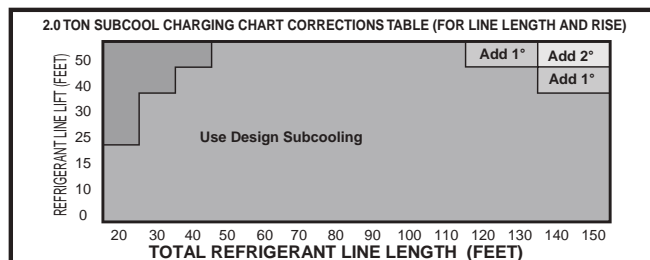


Table AC/IN-8-B — 036 Units

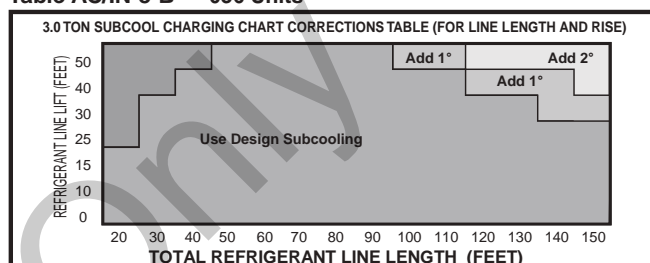


Table AC/IN-8-C — 048 Units

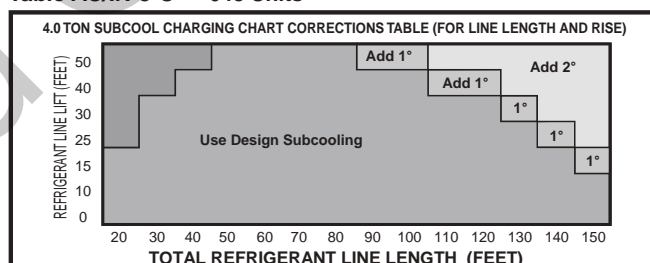
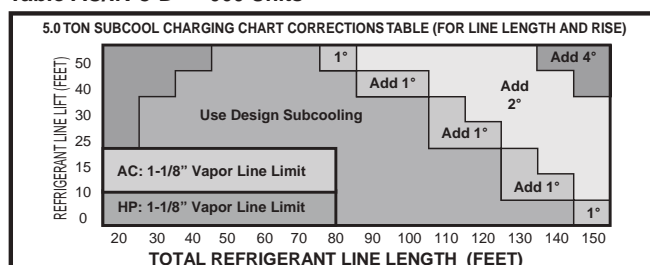


Table AC/IN-8-D — 060 Units



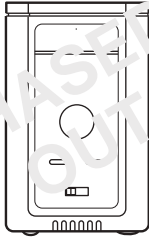
NOTE: 150 ft. length is approved ONLY with 7/8" vapor lines.

BUILT TO A HIGHER STANDARD™

American Standard®

HEATING & AIR CONDITIONING

Programmable Comfort Controls for ReliaTel™ Units



ASYSTAT800A

ASYSTAT800A

- Wall mounted remote space sensor
- For use with ASYSTAT090A, ASYSTAT092A, and ASYSTAT093A programmable thermostats