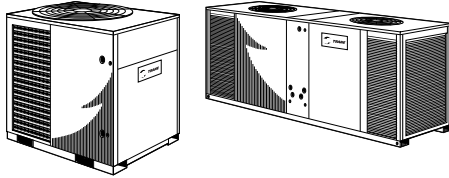




It's Hard To Stop A Trane.®

# Odyssey with Symbio™ Heat Pumps Three Phase - 6-20, R-410A



TWA – 6-20 Tons

- Symbio™ controls (standard)
- (1) Scroll compressor (TWA072-120A)
- (2) Scroll compressors (TWA072-240D) with independent refrigerant circuits
- Single point power
- Compressor motor overload protection
- Compressor discharge temperature limit switch
- Control transformer
- High and low pressure cut-out switches
- Demand Defrost Control
- Internal pressure relief valves
- Electrical phase reversal protection
- Holding charge (Dry Nitrogen)
- Copper tube, aluminum plate fin coils
- Low ambient cooling to 50°F as shipped
- Low ambient cooling to 0°F with accessory head pressure control
- Mounting/lifting rails under base
- UL listed
- 5-year compressor warranty
- 1-year limited parts warranty
- Optional Extended Warranties

## Model Number Description – Heat Pump Condenser

**Digit 1-3 – Unit Function**  
TWA = Split System Heat Pump

**Digit 4-6 – Tonnage**  
072 = 6 Tons (60Hz)  
090 = 7.5 Tons (60Hz)  
120 = 10 Tons (60Hz)  
180 = 15 Tons (60Hz)  
240 = 20 Tons (60Hz)

**Digit 7 – Refrigerant**  
4 = R-410A

**Digit 8 – Voltage**  
3 = 208-230VAC - 3 PH (60Hz)  
4 = 460VAC - 3 PH (60Hz)  
W = 575VAC - 3 PH (60Hz)

K = 380VAC - 3 PH (60Hz)

**Digit 9 – Refrigeration Circuit/Stage**  
A = 1 Compressor/1 Line/1 Stage (Single)  
D = 2 Compressors/2 Line/2 Stage (Duals)

**Digit 10 – Major Design Sequence**  
A = Current Design Sequence

**Digit 11 – Minor Design Sequence**  
A = Current Design Sequence

**Digit 12-13 – Service Digits**

**Digit 14 – Efficiency Generation**  
B = Generation B

**Digit 15 – Controls**  
S = Symbio™

**Digit 16 – None**

0 = Not Used

**Digit 17 – Coil Protection**

1 = Standard Coil w/ Hail Guard

3 = Black Epoxy Pre-Coated Condenser Coil with Hail Guard (FIN/TUBE)

**Digit 18-20 – None**

0 = Not Used

**Digit 21 – Communications Options**

0 = No Option

1 = BACnet® BAS Communications

2 = LonTalk® Communications Interface (LCI)

**Digit 22-40 – None**

0 = Not Used

**Table LSH-1-A – TWA Split System Heat Pumps – Single Compressor with Single Refrigerant Circuits – R-410 Refrigerant**

Model Number	Power Supply	AHRI Net Cooling Cap. (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound <sup>Ⓢ</sup> Rating	MCA*	Max. Fuse*	Connection Size (in)	
			H	W	L					OD Gas	OD Liq.
TWA07243A	208-230/3/60	78,000	45	45	38	360	84	31	50	1 <sup>3</sup> / <sub>8</sub>	1/2
TWA09043A	208-230/3/60	90,000	45	45	38	382	83	34	50	1 <sup>3</sup> / <sub>8</sub>	1/2
TWA12043A	208-230/3/60	123,000	52.1	55	42	495	90	46	70	1 <sup>3</sup> / <sub>8</sub>	1/2
TWA07244A	460/3/60	78,000	45	45	38	360	84	15	25	1 <sup>3</sup> / <sub>8</sub>	1/2
TWA09044A	460/3/60	90,000	45	45	38	382	83	18	30	1 <sup>3</sup> / <sub>8</sub>	1/2
TWA12044A	460/3/60	123,000	52.1	55	42	495	90	25	40	1 <sup>3</sup> / <sub>8</sub>	1/2
TWA0724WA	575/3/60	78,000	45	45	38	360	84	11	15	1 <sup>3</sup> / <sub>8</sub>	1/2
TWA0904WA	575/3/60	90,000	45	45	38	382	83	13	20	1 <sup>3</sup> / <sub>8</sub>	1/2
TWA1204WA	575/3/60	123,000	52.1	55	42	495	90	22	35	1 <sup>3</sup> / <sub>8</sub>	1/2

**Table LSH-1-B – TWA Split System Heat Pumps – Dual Compressors with Two Sets of Refrigerant Circuits – R-410 Refrigerant**

Model Number	Power Supply	AHRI Net Cooling Cap. (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound <sup>Ⓢ</sup> Rating	MCA*	Max. Fuse*	Connection Size (in)	
			H	W	L					OD Gas	OD Liq.
TWA07243D	208-230/3/60	77,000	45	55	42	413	84	27	35	7/8	1/2
TWA09043D	208-230/3/60	94,000	45	55	42	466	83	33	45	1 <sup>1</sup> / <sub>8</sub>	1/2
TWA12043D	208-230/3/60	120,000	52.1	55	42	478	90	46	70	1 <sup>1</sup> / <sub>8</sub>	1/2
TWA18043D	208-230/3/60	192,000	51.1	96	48	874	93	66	90	1 <sup>1</sup> / <sub>8</sub>	1/2
TWA24043D	208-230/3/60	250,000	51.1	96	48	1003	94	86	110	1 <sup>3</sup> / <sub>8</sub>	5/8
TWA07244D	460/3/60	77,000	45	55	42	413	84	15	20	7/8	1/2
TWA09044D	460/3/60	94,000	45	55	42	466	83	15	20	1 <sup>1</sup> / <sub>8</sub>	1/2
TWA12044D	460/3/60	120,000	52.1	55	42	478	90	20	25	1 <sup>1</sup> / <sub>8</sub>	1/2
TWA18044D	460/3/60	192,000	51.1	96	48	874	93	32	40	1 <sup>1</sup> / <sub>8</sub>	1/2
TWA24044D	460/3/60	250,000	51.1	96	48	1003	94	46	60	1 <sup>3</sup> / <sub>8</sub>	5/8
TWA0724WD	575/3/60	77,000	45	55	42	413	84	10	15	7/8	1/2
TWA0904WD	575/3/60	94,000	45	55	42	466	83	11	15	1 <sup>1</sup> / <sub>8</sub>	1/2
TWA1204WD	575/3/60	120,000	52.1	55	42	478	90	15	20	1 <sup>1</sup> / <sub>8</sub>	1/2
TWA1804WD	575/3/60	192,000	51.1	96	48	874	93	25	30	1 <sup>3</sup> / <sub>8</sub>	1/2
TWA2404WD	575/3/60	250,000	51.1	96	48	1003	94	35	45	1 <sup>3</sup> / <sub>8</sub>	5/8

Ⓢ Sound rating shown is tested in accordance with ARI Standard 270 or 370.

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

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



It's Hard To Stop A Trane.®

# Odyssey with Symbio™ Heat Pump Accessories Three Phase – 6-20 Tons, R-410A

Light Commercial Split System Heat Pumps

**Table LSH-2-A – TWA Accessories**

Model	Used With
<b>Rubber Isolators</b>	
BAYISLT005* (black)	TWA072, TWA090, TWA120
BAYISLT009* (red)	TWA180
BAYISLT010* (green)	TWA240
<b>Steel Spring Isolators</b>	
BAYISLT023* (red)	TWA072, TWA090, TWA120
BAYISLT024* (black)	TWA180
BAYISLT025* (yellow)	TWA240
<b>Service Valve Kit</b>	
BAYVALV001*	TWA0724*A, TWA1204*A
BAYVALV002*	TWA0904*A
BAYVALV003*	TWA0724*D, TWA0904*D, TWA1204*D
BAYVALV006*	TWA01804*D, TWA2404*D
<b>Low Ambient – On/Off Fan Control (External mount, small cabinets)① ② ③</b>	
BAYLOAMS10** (External Mount, small cabinets)④	(all voltages) TWA072**A, TWA090**A
BAYLOAMS20* (Internal mount, large cabinets)	(all voltages) TWA120, TWA180, TWA240
<b>Transducer Kit for Head Pressure Control (BAYLOAM335, 336, 435, 436, W36)</b>	
BAYLOTR001*⑤	TWA072**D, TWA090**D, TWA120**D
<b>LonTalk Communications Interface⑥</b>	
BAYLTCI005*	All Models

- ① Cycles fan on/off (no modulating).
- ② When BAYLOAM is used, the Evaporator Defrost Control (EDC) must be disabled in the Symbio 700 controller configuration.
- ③ Kit mounts external to the outdoor unit and operates by sensing ambient and liquid line temperatures.
- ④ BAYLOTR001\* required when modulating BAYLOAMS10\* kits used with units that have 2 compressors (dual circuit) and 1 condenser fan.
- ⑤ BAYLOTR001 required when modulating BAYLOAM kits used with units that have 2 compressors (dual circuit) and 1 condenser fan.
- ⑥ Field Installed LonTalk interface requires installation of Symbio control board with Advanced Diagnostic (not included).

**Table LSH-2-B – Controls**

Model Number	Description	Used With
BAYLTCI005*	LonTalk® Communication Interface (LCI)	TWA072-TWA240