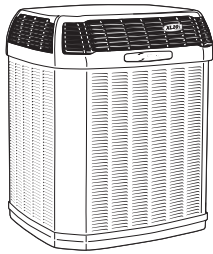




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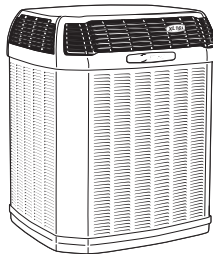
Split System Heat Pumps Single Phase – 1½-5 Tons



XL20i

Table SH-1-A — XL20i R-410A Split System Heat Pump — Single Phase with ComfortLink™ II ①②③

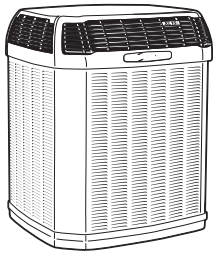
Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					OD Gas	OD Liq.
4TWZ0024A1000C	200/230/1/60	24,000	54	37	34	390	70	14	20	5/8	3/8
4TWZ0036B1000A	200/230/1/60	36,000	54	37	34	395	72	20	30	3/4	3/8
4TWZ0048B1000A	200/230/1/60	48,000	54	37	34	480	76	26	40	3/4	3/8
4TWZ0060A1000C	200/230/1/60	60,000	54	37	34	480	76	31	50	3/4	3/8



XL16i

Table SH-1-B — XL16i R-410A Split Heat Pump

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					Gas	Liq.
4TWX6024G1000A	208/230/1/60	24,000	50	37	34	305	72	15	25	5/8	3/8
4TWX6036E1000A	208/230/1/60	36,000	54	37	34	307	72	22	35	3/4	3/8
4TWX6048G1000A	208/230/1/60	48,000	54	37	34	360	72	27	45	7/8	3/8
4TWX6060E1000B	208/230/1/60	60,000	54	37	34	361	74	39	60	1 1/8	3/8



XL15i

Table SH-1-C — XL15i R-410A Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					Gas	OD Liq.
4TWX5018B1000A	208/230/1/60	18,000	37	33	30	190	72	9	15	5/8	3/8
4TWX5024B1000A	208/230/1/60	24,000	40	33	30	242	72	11	15	5/8	3/8
4TWX5030B1000A	208/230/1/60	30,000	42	37	34	283	72	15	25	3/4	3/8
4TWX5036B1000A	208/230/1/60	36,000	42	37	34	293	72	18	30	3/4	3/8
4TWX5042B1000A	208/230/1/60	41,500	46	37	34	300	73	23	40	3/4	3/8
4TWX5049E1000B	208/230/1/60	48,000	54	37	34	364	72	28	50	7/8	3/8
4TWX5061G1000A	208/230/1/60	60,000	54	37	34	365	74	36	60	1 1/8	3/8

① Must use TCONT900 or TZONE950 control with communicating systems.

② BAYACHP024A required for 24 volt mode.

③ Because of limited capabilities, please refer to the product ratings for approved combinations.

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

** Rated in accordance with AHRI Standard 270-2008.

Split System Heat Pumps



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Split System Heat Pumps Single Phase – 1½-5 Tons

Split System Heat Pumps

Table SH-2-A — Features

	XL20i (4TWZ0)	XL16i (4TWX6)	XL15i (4TWX5)
• SEER up to	19.00	18.00	16.25
• HSPF up to.....	10.00	9.5	9.7
• Climateuff™ compressor	2	1	✓
• Number of stages.....	2	2	1
• ComfortLink™ II system.....	✓	—	—
• Charge Assist™ fast/accurate charging every time	✓	—	—
• Comfort-R™ mode approved.....	✓	✓	✓
• DuraTuff™ base, fast complete drain, weatherproof	✓	✓	✓
• Quick-Sess™ cabinet, service access & refrigerant connections with full coil protection.....	✓	✓	✓
• Spine Fin™ coil.....	✓	✓	✓
• Weatherguard™ II top.....	✓	✓	✓
• Electronic Expansion Valve (EEV)	✓	✓	—
• Compressor sound enclosure	✓	—	✓
• Compressor sump heat - factory installed	✓	✓	✓
• Factory supplied charge	R-410A	R-410A	R-410A
• Glossy corrosion resistant finish	✓	✓	✓
• High pressure switch.....	✓	✓	✓
• Low pressure switch.....	✓	✓	✓
• Liquid line filter drier - factory installed.....	✓	✓	✓
• Start kit - factory installed.....	✓	—	1½-3,5
• Seacoast shield - factory installed	✓	✓	✓
• Tarpaulin gray cabinet.....	✓	✓	✓
• 12-year registered limited warranty on compressor, 10-year on outdoor coil & all other functional parts^④ (Residential Use)^③	✓	✓	✓
• Extended warranties available	✓	✓	✓

Table SH-2-B — Optional Accessories

Model Number	Description	Shipping Weight	XL20i (4TWZ0)	XL16i (4TWX6)	XL15i (4TWX5)
AY28X084.....	Evaporator defrost control kit	1	—	—	✓
BAYACHP024A.....	24 Volt Wiring Harness	1	✓	—	—
BAYCAKT001.....	Charge Assist™ Solenoid Kit.....	3	✓	—	—
BAYECMT023.....	Extreme Conditions Mounting Kit (Base 2/3)	2	—	—	—
BAYECMT004.....	Extreme Conditions Mounting Kit (Base 4)	2	✓	✓	✓
BAYISLT101.....	Rubber Isolators.....	1	✓	✓	✓
BAYKSKT260.....	Start kit (Scroll).....	1	—	✓	3½-4
BAYLEGS002.....	Snow Legs - Base and Cap 6" High (Black)	1	✓	✓	✓
BAYLEGS003.....	4" Extension (Black)	1	✓	✓	✓
BAYVDTA003.....	Vertical Discharge Air Kit Base 3	10	—	—	—
BAYVDTA004.....	Vertical Discharge Air Kit Base 4	10	✓	✓	✓
TAYASCT501A ^{①②}	Anti-Short Cycle Timer	2	—	—	✓
PAI00309 ^④	Heresite Spraypaint.....	1	✓	✓	✓

Comfort Controls — See Comfort Controls/Zone Sensors Section

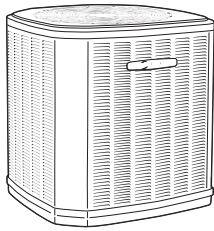
- ① Do not use with programmable thermostats.
- ② Activated on Power Off.
- ③ Registered Limited Warranty terms are available when you register within 60 days of installation. You can register online at trane.com or by phone at 800-554-6413; otherwise Trane Base Limited Warranty terms will apply. Base Limited Warranty information on specific products can be found on Comfortsite.com.
- ④ Used for additional seacoast corrosion protection. Refer to bulletin number UN-SVB11A-EN for application information.

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



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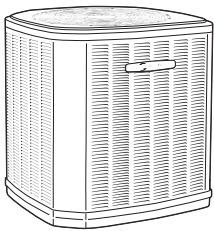
Split System Heat Pumps Single Phase – 1½-5 Tons



XR16

Table SC-3-A — XR16 R-410A Split System Heat Pump -- Single Phase

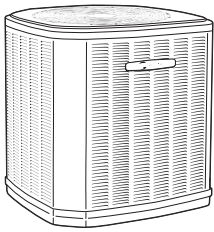
Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					OD Gas	OD Liq.
4TWR6024A1000B	208/230/1/60	24,000	41	37	34	272	72	15	25	5/8	3/8
4TWR6036A1000B	208/230/1/60	36,000	45	37	34	274	72	22	35	3/4	3/8
4TWR6048A1000A	208/230/1/60	48,000	45	37	34	329	73	27	45	3/4	3/8
4TWR6060A1000A	208/230/1/60	60,000	45	37	34	330	74	37	60	1¼	3/8



XR15

Table SH-3-B — XR15 R-410A Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					OD Gas	OD Liq.
4TWR5018G1000A	208/230/1/60	18,000	29	33	30	204	75	9	15	5/8	3/8
4TWR5024G1000A	208/230/1/60	24,000	33	33	30	236	75	11	15	5/8	3/8
4TWR5030G1000A	208/230/1/60	30,000	33	37	34	273	75	15	25	3/4	3/8
4TWR5036G1000A	208/230/1/60	36,000	33	37	34	261	75	18	30	3/4	3/8
4TWR5042G1000A	208/230/1/60	41,500	37	37	34	277	75	23	40	3/4	3/8
4TWR5049E1000B	208/230/1/60	48,000	45	37	34	331	75	28	50	7/8	3/8
4TWR5061E1000B	208/230/1/60	60,000	45	37	34	332	75	36	60	1½	3/8



XR13

Table SH-3-C — XR13 R-410A Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					OD Gas	OD Liq.
4TWR3018C1000A	208/230/1/60	17,000	29	33	30	189	76	9	15	5/8	3/8
4TWR3024C1000A	208/230/1/60	23,000	29	33	30	191	76	12	20	5/8	3/8
4TWR3030C1000A	208/230/1/60	28,500	33	33	30	221	76	15	25	3/4	3/8
4TWR3036B1000A	208/230/1/60	34,500	33	37	34	261	75	18	30	3/4	3/8
4TWR3042B1000A	208/230/1/60	40,500	33	37	34	253	75	26	45	3/4	3/8
4TWR3048B1000A	208/230/1/60	46,500	37	37	34	269	76	28	50	7/8	3/8
4TWR3060B1000A	208/230/1/60	58,500	41	37	34	284	76	34	60	7/8	3/8

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

** Rated in accordance with AHRI Standard 270-2008.

Split System Heat Pumps



It's Hard To Stop A Trane.®

Split System Heat Pumps Single Phase – 1½-5 Tons

Split System Heat Pumps

Table SH-4-A — Features

	XR15 (4TWR5)	XR13 (4TWR3)	XR16 (4TWR6)
• SEER up to	16.00	14.50	18.00
• HSPF up to	9.5	8.50	9.5
• Climatuff™ compressor	✓	✓	1
• Comfort-R™ mode approved	✓	✓	✓
• DuraTuff™ base, fast complete drain, weatherproof	✓	✓	✓
• Quick-Sess™ cabinet, service access & refrigerant connections with full coil protection	✓	✓	✓
• Spine Fin™ coil	✓	✓	✓
• Compressor sound enclosure	2½-3½	1½-2,3	—
• Compressor sump heat - factory installed	✓	—	✓
• Factory supplied charge	R-410A	R-410A	R-410A
• Glossy corrosion resistant finish	✓	✓	✓
• High pressure switch	✓	✓	✓
• Low pressure switch	✓	✓	✓
• Internal high / low pressure & temperature protection	✓	✓	—
• Liquid line filter drier - factory installed	✓	✓	✓
• Start kit - factory installed	1½-3,5	1½-3	—
• Tarpaulin gray cabinet	✓	✓	✓
• 10-year registered limited warranty on compressor, outdoor coil & all other functional parts (Residential Use)³	✓	✓	✓
• Extended warranties available	✓	✓	✓

Table SH-4-B — Optional Accessories

Model Number	Description	Shipping Weight			
AY28X084.....	Evap. Defrost Control Kit	1.....	✓	✓	—
BAYCCHT300	Crankcase Heater Kit	1.....	—	1½-3	—
BAYCCHT301	Crankcase Heater Kit	1.....	—	3½-5	—
BAYECMT023	Extreme Conditions Mounting Kit (Base 2/3).....	2.....	—	1½-2½	—
BAYECMT004	Extreme Conditions Mounting Kit (Base 4).....	2.....	✓	3-5	✓
BAYISLT101	Rubber Isolators.....	1.....	✓	✓	✓
BAYKSKT260	Start Kit (Scroll)	1.....	3½-4	3½-5	✓
BAYLEGS002	Snow Legs - Base and Cap 6" High (Black)	1.....	✓	✓	✓
BAYLEGS003	4" Extension (Black)	1.....	✓	✓	✓
BAYLOAM103	Low Ambient Kit	1.....	✓④	✓	—
BAYSDEN001	Single Cylinder Compressor Enclosures	8.....	1½-2	—	—
BAYSDEN003	Small Scroll Compressor Enclosures.....	8.....	—	2½-4	—
BAYSDEN004	Large Scroll Compressor Enclosures	8.....	049,061	5	—
BAYSEAC001	Seacoast Kit	1.....	✓	✓	—
TAYASCT501A①②	Anti-Short Cycle Timer	2.....	✓	✓	✓
PAI00309⑤.....	Heresite Spraypaint.....	1.....	✓	✓	✓

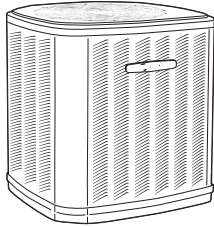
Comfort Controls — See Comfort Controls/Zone Sensors Section

- ① Do not use with programmable thermostats.
- ② Activated on Power Off.
- ③ Registered Limited Warranty terms are available when you register within 60 days of installation. You can register online at trane.com or by phone at 800-554-6413; otherwise Trane Base Limited Warranty terms will apply. Base Limited Warranty information on specific products can be found on Comfortsite.com.
- ④ For operation to 20°F outdoor ambient.
- ⑤ Used for additional seacoast corrosion protection. Refer to bulletin number UN-SVB11A-EN for application information.



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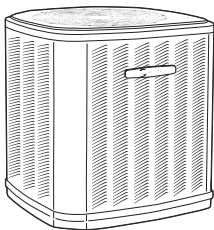
Split System Heat Pumps Single Phase – 1½-5 Tons



XB14
(March Production)

Table SH-5-A — XB14 R-410A Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					OD Gas	OD Liq.
4TWB4018G1000B	208/230/1/60	18,000	29	33	30	204	76	9	15	5/8	3/8
4TWB4024G1000B	208/230/1/60	24,000	33	33	30	236	76	11	15	5/8	3/8
4TWB4030G1000B	208/230/1/60	30,000	33	37	34	273	78	15	25	3/4	3/8
4TWB4036G1000B	208/230/1/60	36,000	33	37	34	261	76	18	30	3/4	3/8
4TWB4042G1000B	208/230/1/60	41,500	37	37	34	278	76	23	40	3/4	3/8
4TWB4049E1000C	208/230/1/60	48,000	45	37	34	331	76	28	50	7/8	3/8
4TWB4061E1000C	208/230/1/60	60,000	45	37	34	332	76	36	60	1 1/8	3/8



XB13

Table SH-5-B — XB13 R-410A Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					OD Gas	OD Liq.
4TWB3018C1000A	208/230/1/60	17,000	29	33	30	189	79	9	15	5/8	3/8
4TWB3024C1000A	208/230/1/60	23,000	29	33	30	191	81	12	20	5/8	3/8
4TWB3030C1000A	208/230/1/60	28,500	33	33	30	221	80	15	25	3/4	3/8
4TWB3036B1000B	208/230/1/60	34,500	33	37	34	261	79	18	30	3/4	3/8
4TWB3042B1000B	208/230/1/60	40,500	33	37	34	253	80	26	45	3/4	3/8
4TWB3048B1000B	208/230/1/60	46,500	37	37	34	269	78	28	50	7/8	3/8
4TWB3060B1000B	208/230/1/60	58,500	41	37	34	284	78	34	60	7/8	3/8

* Information subject to change. Please confirm with current Product Data/Service Facts for current factory production.
** Rated in accordance with AHRI Standard 270-2008.

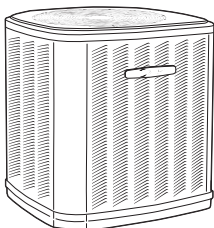


Table SH-5-C — R-22 Split System Dry Ship Replacement Heat Pump

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					OD Gas	OD Liq.
2TWB3018A1000C	208/230/1/60	17,000	33	29	26	182	74	8	15	5/8	1/4
2TWB3024A1000C	208/230/1/60	23,000	33	29	26	195	79	12	20	3/4	5/16
2TWB3030A1000C	208/230/1/60	28,500	37	33	30	225	79	13	20	3/4	5/16
2TWB3036A1000C	208/230/1/60	34,500	37	37	34	297	79	19	30	7/8	3/8
2TWB3042A1000C	208/230/1/60	40,500	41	37	34	312	80	21	35	7/8	3/8
2TWB3048A1000C	208/230/1/60	46,500	41	37	34	313	78	25	40	1 1/8	3/8
2TWB3060A1000C	208/230/1/60	58,500	41	37	34	291	79	33	50	1 1/8	3/8

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



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Split System Heat Pumps Single Phase – 1½-5 Tons

Split System Heat Pumps

Table SH-6-A — Features

	XB14 (4TWB4)	XB13 (4TWB3)	XB13 (2TWB3)
• SEER up to	15.00	14.00	13.00
• HSPF up to	9.0	8.5	7.7
• Climatuff™ compressor	✓	✓	✓
• Comfort-R™ mode approved	✓	✓	✓
• DuraTuff™ base, fast complete drain, weatherproof	✓	✓	✓
• Quick-Sess™ cabinet, service access & refrigerant connections with full coil protection	✓	✓	✓
• Spine Fin™ coil	✓	✓	✓
• Compressor sound enclosure	3	3	3-4
• Compressor sump heat - factory installed	✓	—	—
• Refrigerant - (R-22 not factory supplied)	R-410A	R-410A	R-22
• Glossy corrosion resistant finish	✓	✓	✓
• High pressure switch	✓	✓	—
• Low pressure switch	3½-5	3½-5	✓
• Liquid line filter drier - factory installed	✓	✓	✓
• Polyslate gray cabinet	✓	✓	✓
• Start kit - factory installed	1½-3,5	1½-3	1½-4
• 10-year registered limited warranty on compressor, outdoor coil & all other functional parts (Residential Use) ③	✓	✓	—
• 5-year registered limited warranty on compressor, 1-year on outdoor coil & all other functional parts (Residential Use) ③	—	—	✓
• Extended warranties available	✓	✓	✓

Table SH-6-B — Optional Accessories

Model Number	Description	Shipping Weight			
AY28X084	Evaporator Defrost Control HP	1	✓	✓	✓
BAYCCHT300	Crankcase Heater Kit (Recip)	1	1½-3	1½-3	1½-4
BAYCCHT302	Crankcase Heater Kit (Scroll)		3½-5	3½-5	5
BAYECMT023	Extreme Conditions Mounting Kit (Base 2/3)	2	—	1½-2½	1½-2½
BAYECMT004	Extreme Conditions Mounting Kit (Base 4)	2	✓	3-5	3-5
BAYISLT101	Rubber Isolators	1	✓	✓	✓
BAYKSKT260	Start Kit (Scroll)	1	3½-4	3½-5	5
BAYLEGS002	Snow Legs - Base and Cap 6" High (Black)	1	✓	✓	✓
BAYLEGS003	.4" Extension (Black)	1	✓	✓	✓
BAYLOAM103	Low Ambient Kit	1	✓④	✓	✓
BAYSDEN001	Single Cylinder Compressor Enclosures	8	1½-2½	1½ to 2½	1½-2½
BAYSDEN003	Small Scroll Compressor Enclosures	8	3½-5	3½-4	—
BAYSDEN004	Large Scroll Compressor Enclosures	8	—	5	5
BAYSEAC001	Seacoast Kit	1	✓	✓	✓
TAYASCT501A①②	Anti-short cycle timer	2	✓	✓	✓
PAI00309⑤	Heresite Spraypaint	1	✓	✓	✓

Comfort Controls — See Comfort Controls/Zone Sensors Section

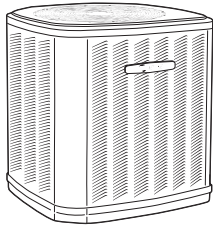
- ① Do not use with programmable thermostats.
- ② Activated on Power Off.
- ③ Registered Limited Warranty terms are available when you register within 60 days of installation. You can register online at trane.com or by phone at 800-554-6413; otherwise Trane Base Limited Warranty terms will apply. Base Limited Warranty information on specific products can be found on Comfortsite.com.
- ④ For operation to 20°F outdoor ambient.
- ⑤ Used for additional seacoast corrosion protection. Refer to bulletin number UN-SVB11A-EN for application information.

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



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Split System Heat Pumps Three Phase – 2½-5 Tons



4TWA3

Table SH-7-A — 4TWA3 R-410A Split System Heat Pump — Three Phase

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	D					OD Gas	OD Liq.
4TWA3030A3000C	200/230/3/60	30,000	37	33	30	233	80	11	15	¾	¾
4TWA3036A3000C	200/230/3/60	36,000	37	37	34	264	79	16	25	¾	¾
4TWA3042B3000A	208/230/3/60	40,500	33	37	34	248	80	18	30	¾	¾
4TWA3048A3000A	208/230/3/60	46,500	37	37	34	263	78	18	30	7/8	¾
4TWA3060B3000A	208/230/3/60	58,500	41	37	34	280	78	20	35	7/8	¾
4TWA3030A4000C	460/3/60	30,000	37	33	30	231	80	5	15	¾	¾
4TWA3036A4000C	460/3/60	36,000	37	37	34	263	79	7	15	¾	¾
4TWA3042B4000A	460/3/60	40,500	33	37	34	248	80	8	15	¾	¾
4TWA3048A4000A	460/3/60	46,500	37	37	34	263	78	8	15	7/8	¾
4TWA3060B4000A	460/3/60	58,500	41	37	34	280	78	10	15	7/8	¾

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

** Rated in accordance with AHRI Standard 270-2008.

Split System Heat Pumps



It's Hard To Stop A Trane.®

Split System Heat Pumps Three Phase – 2½-5 Tons

Split System Heat Pumps

Table SH-8-A — Features

	4TWA3
• SEER up to	15.00
• HSPF up to	8.50
• Climatuff™ compressor	✓
• Comfort-R™ mode approved	✓
• DuraTuff™ base, fast complete drain, weatherproof	✓
• Quick-Sess™ cabinet, service access & refrigerant connections with full coil protection	✓
• Spine Fin™ coil	✓
• Compressor sump heat - factory installed	✓
• Factory supplied charge	R-410A
• Glossy corrosion resistant finish	✓
• Internal high / low pressure & temperature protection	✓
• Liquid line filter drier - factory installed	✓
• Low pressure switch	✓
• High pressure switch	✓
• Polyslate gray cabinet	✓
• 5-year registered limited warranty on compressor, outdoor coil & 1-year on all other functional parts (Commercial Use)	✓
• 5-year registered limited warranty on compressor, outdoor coil & 5-year on all other functional parts (Residential Use)	✓
• Extended warranties available	✓

Table SH-8-B — Optional Accessories

Model Number	Description	Shipping Weight	
AY28X084.....	Evaporator Defrost Control HP.....	1	✓
BAYECMT023	Extreme Conditions Mounting Kit (Base 2/3)	2	2½
BAYECMT004	Extreme Conditions Mounting Kit (Base 4)	2	3-5
BAYISLT101	Rubber Isolators	1	✓
BAYLEGS002	Snow Legs - Base and Cap 6" High (Black).....	1	✓
BAYLEGS003	4" Extension (Black)	1	✓
BAYLOAM103	Electronic Head Pressure Control.....	1	✓
BAYSDEN001	Single Cylinder Compressor Enclosures.....	8	2½
BAYSDEN003	Small Scroll Compressor Enclosures.....	8	3-4
BAYSDEN004	Large Scroll Compressor Enclosures.....	8	5
BAYSEAC001	Seacoast Kit	1	✓
TAYASCT501A①②	Anti-Short Cycle Timer	2	✓
PAI00309③	Heresite Spraypaint.....	1	✓

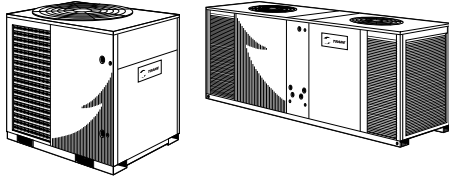
Comfort Controls — See Comfort Controls/Zone Sensors Section

- ① Do not use with programmable thermostats.
- ② Activated on Power Off.
- ③ Used for additional seacoast corrosion protection. Refer to bulletin number UN-SVB11A-EN for application information.



It's Hard To Stop A Trane.®

Split System Heat Pumps Three Phase – 6-20 Tons, R-410A



TWA – 6-20 Tons

- ReliaTel™ controls (standard)
- (1) Scroll compressor (TWA073-120D)
- (2) Scroll compressors (TWA180-240E) 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
- Liquid line filter drier, factory installed
- Service valves with pressure taps
- 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 (TWA073D, TWA090D, TWA120D, TWA180E)
- 1-year compressor warranty (TWA240E)
- 1-year limited parts warranty
- Optional Extended Warranties

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

Compressor Type

D = Single Compressor/Single Refrigerant Circuit, R-410A
E = Dual Compressor/Dual Refrigerant Circuit, R-410A

Factory-Installed Options

OR = ReliaTel™ Controls
OT = ReliaTel™ Controls and Black Epoxy Coated Coil
OU = ReliaTel™ Controls with LonTalk® Communication Interface (RLCI)
OW = ReliaTel™ Controls with LonTalk® Communication Interface (RLCI) and Black Epoxy Coated Coil

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

Compressor Type

D = Single Compressor/Single Refrigerant Circuit, R-410A
E = Dual Compressor/Dual Refrigerant Circuit, R-410A

Factory-Installed Options

HR = Hail Guard and ReliaTel™ Controls
HT = Hail Guard and ReliaTel™ Controls with Black Epoxy Coated Coil
HU = Hail Guard and ReliaTel™ Controls with LonTalk® Communication Interface (RLCI)
HW = Hail Guard and ReliaTel™ Controls with LonTalk® Communication Interface (RLCI) and Black Epoxy Coated Coil

Table SH-9-A — TWA Split System Heat Pumps — Single Compressors with Single Refrigerant Circuits — R-410 Refrigerant

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in.)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	L					OD Gas	OD Liq.
TWA073D30RA	208-230/3/60	78,000	39	36	42	382	84	31.1	40	1 1/8	1/2
TWA090D30RA	208-230/3/60	90,000	39	36	42	394	83	34.4	45	1 3/8	5/8
TWA120D30RA	208-230/3/60	120,000	45	40	52	509	90	42.6	60	1 3/8	1/2
TWA073D40RA	460/3/60	78,000	39	36	42	382	84	14.9	20	1 1/8	1/2
TWA090D40RA	460/3/60	90,000	39	36	42	394	83	17.9	25	1 3/8	5/8
TWA120D40RA	460/3/60	120,000	45	40	52	509	90	23.4	30	1 3/8	1/2
TWA073DW0RA	575/3/60	78,000	39	36	42	382	84	11.6	15	1 1/8	1/2
TWA090DW0RA	575/3/60	90,000	39	36	42	394	83	14.7	20	1 3/8	5/8
TWA120DW0RA	575/3/60	120,000	45	40	52	509	90	17.4	25	1 3/8	1/2

Table SH-9-B — TWA Split System Heat Pumps — Dual Compressors with Two Sets of Refrigerant Circuits — R-410 Refrigerant

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions (in.)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	L					OD Gas	OD Liq.
TWA180E30RA	208-230/3/60	180,000	46	45	95	898	93	66.3	80	1 3/8	1/2
TWA240E30RA	208-230/3/60	246,000	46	45	95	981	94	86.1	100	1 3/8	5/8
TWA180E40RA	460/3/60	180,000	46	45	95	898	93	33.4	40	1 3/8	1/2
TWA240E40RA	460/3/60	246,000	46	45	95	981	94	45.5	50	1 3/8	5/8
TWA180EW0RA	575/3/60	180,000	46	45	95	898	93	27.4	30	1 3/8	1/2
TWA240EW0RA	575/3/60	246,000	46	45	95	981	94	34.8	40	1 3/8	5/8

① Sound rating show is tested in accordance with ARI Standard 270 or 370.

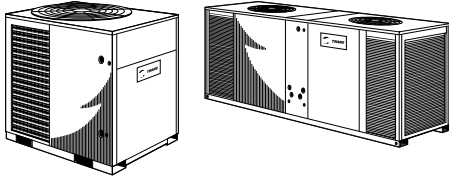
* Information subject to change. Please confirm with current Product Data/Service Facts for current factory production.

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.®

Split System Heat Pumps Three Phase – 6-20 Tons, R-410A



TWA – 6-20 Tons

- ReliaTel™ controls (standard)
- (1) Scroll compressor (TWA073-120D)
- (2) Scroll compressors (TWA180-240E) 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
- Liquid line filter drier, factory installed
- Service valves with pressure taps
- 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 (TWA073D, TWA090D, TWA120D, TWA180E)
- 1-year compressor warranty (TWA240E)
- 1-year limited parts warranty
- Optional Extended Warranties

Split System Heat Pumps

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

Compressor Type

- D = Single Compressor/Single Refrigerant Circuit, R-410A
- E = Dual Compressor/Dual Refrigerant Circuit, R-410A

Factory-Installed Options

- OR = ReliaTel™ Controls
- OT = ReliaTel™ Controls and Black Epoxy Coated Coil
- OU = ReliaTel™ Controls with LonTalk® Communication Interface (RLCI)
- OW = ReliaTel™ Controls with LonTalk® Communication Interface (RLCI) and Black Epoxy Coated Coil

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

Compressor Type

- D = Single Compressor/Single Refrigerant Circuit, R-410A
- E = Dual Compressor/Dual Refrigerant Circuit, R-410A

Factory-Installed Options

- HR = Hail Guard and ReliaTel™ Controls
- HT = Hail Guard and ReliaTel™ Controls with Black Epoxy Coated Coil
- HU = Hail Guard and ReliaTel™ Controls with LonTalk® Communication Interface (RLCI)
- HW = Hail Guard and ReliaTel™ Controls with LonTalk® Communication Interface (RLCI) and Black Epoxy Coated Coil

Table SH-10-A — TWA Split System Heat Pumps - Single Compressors with Single Refrigerant Circuits - R-22 Refrigerant

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound ^① Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	L					OD Gas	OD Liq.
TWA090A30RG	208-230/3/60	90,000	39	36	42	394	83	31.1	45	1 ³ / ₈	5 ⁵ / ₈
TWA120A30RG	208-230/3/60	120,000	45	40	52	509	90	42.6	60	1 ³ / ₈	1 ¹ / ₂
TWA090A40RG	460/3/60	90,000	39	36	42	394	83	15.2	25	1 ³ / ₈	5 ⁵ / ₈
TWA120A40RG	460/3/60	120,000	45	40	52	509	90	21.9	30	1 ³ / ₈	1 ¹ / ₂

Table SH-10-B — TWA Split System Heat Pumps - Dual Compressors with Dual Refrigerant Circuits - R-22 Refrigerant

Model Number	Power Supply	Nom. Cap. Cooling (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound ^① Rating	MCA*	Max. Fuse*	Line Size (in)	
			H	W	L					OD Gas	OD Liq.
TWA180B30RG	208-230/3/60	180,000	46	45	95	898	93	60.4	80	1 ³ / ₈	5 ⁵ / ₈
TWA240B30RG	208-230/3/60	240,000	46	45	95	981	94	77.7	100	1 ³ / ₈	1 ¹ / ₂
TWA180B40RG	460/3/60	180,000	46	45	95	898	93	29.5	40	1 ³ / ₈	5 ⁵ / ₈
TWA240B40RG	460/3/60	240,000	46	45	95	981	94	39.9	50	1 ³ / ₈	1 ¹ / ₂

① Sound rating show 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.



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Split System Heat Pumps – Accessories Three Phase – 6-20 Tons, R-410A

Table SH-11-A — R-410A Optional Accessories

Model Number	Description	Used With
Coil Guard		
BAYGARD058A	Hail/Vandal Guard	TWA 073D,090D
BAYGARD060A	Hail/Vandal Guard	TWA120D
BAYGARD061A	Hail/Vandal Guard	TWA180E,240E
Isolators		
BAYISLT005A	Rubber Isolator Floor (black)	TWA073D-TWA120D
BAYISLT009A	Rubber Isolator Floor (red)	TWA180E
BAYISLT010A	Rubber Isolator Floor (green)	TWA240E
BAYISLT023A	Steel Spring Isolator Floor (red)	TWA073D, TWA090D, TWA120D
BAYISLT024A	Steel Spring Isolator Floor (black)	TWA180E
BAYISLT025A	Steel Spring Isolator Floor (yellow)	TWA240E
Low Ambient		
BAYLOAMU01A ①②③⑤	On/Off Fan Control Mounted in External Enclosure (small cabinets)	TWA073D-090D (all voltages)
BAYLOAMU02A②③⑤	On/Off Fan Control Mounted in Unit Control Box (large cabinets)	TWA120D-240E (all voltages)
BAYLOAM335A③④	Modulating ICM Head Pressure Control w/ 208-230V 0.5 HP Hi-Eff Motor (internal mount)	TWA073D, TWA090D3
BAYLOAM336A③④	Modulating ICM Head Pressure Control w/ 208-230V 1 HP Hi-Eff Motor (internal mount)	TWA120D3
BAYLOAM435A③④	Modulating ICM Head Pressure Control w/ 460V 0.5 HP Hi-Eff Motor (internal mount)	TWA073D4, TWA090D4
BAYLOAM436A③④	Modulating ICM Head Pressure Control w/ 460V 1.0 HP Hi-Eff Motor (internal mount)	TWA120D4
BAYLOAMW36A③④	Modulating ICM Head Pressure Control w/ 575V 1.0 HP Hi-Eff Motor (internal mount)	TWA120DW
Trane Communication Interface		
BAYICSI003A	Comm 3/4 Communications Interface	TWA073D-TWA240E
LonTalk® Communications Interface		
BAYLTCI002B	LonTalk® Communications Interface	TWA073D-TWA240E
BACnet™ Communications Interface		
BAYBCIR001A	BACnet (BCI-R) Communications Interface	All
Time Delay Relay		
BAYRLAY002	Time Delay Relay	TWA090D-TWA240E
BAYRLAY005	Heat Pump interlock relay	All TWA Units with BAYLOAM Application Requirements
Wire Kit		
BAYWRKT003A⑥	Heat Pump configuration wiring harness	TWA180E, TWA240E

- ① Kit mounts external to the outdoor unit and operates by sensing ambient and liquid line temperatures.
- ② Cycles fan on/off, (no modulating).
- ③ Quantity of 1 required for each fan (2 total for TTA/TWA180-240).
- ④ Heat pumps require BAYRLAY005 when modulating BAYLOAM kits are selected.
- ⑤ ReliaTel™ requires onboard EDC function to be disabled when BAYLOAM is used, remove OA sensor from terminal J8-1&2.
- ⑥ Used on Dual circuit HP condensers with a field installed LCI card for independent mechanical heating operation configuration.

Split System Heat Pumps



It's Hard To Stop A Trane.

Split System Heat Pumps Three Phase – 6-20 Tons

Split System Heat Pumps

Table SH-12-A — ReliaTel™ Control Options

Model Number	Description	Used With
BAYSENS107A	Zone Sensor, Set Point Adj, Fan, System, EH, ED	TWA073-TWA240
BAYSENS109A	Zone Sensor, 2 Set Point Adj, Fan, System, EH, ED	TWA073-TWA240
BAYSENS119A	Digital programmable Zone Sensor	TWA073-TWA240
BAYSENS135A	Digital non-programmable Zone Sensor	TWA073-TWA240
BAYSENS050A	Wireless non-programmable Zone Sensor	TWA073-TWA240
BAYSENS106A	Zone Sensor, Set Point, Fan, System	TWA073-TWA240
BAYSENS108A	Zone Sensor, 2 Set Point, Fan, System	TWA073-TWA240
BAYSENS110A	Zone Sensor, 2 Set Point, Fan, System, ED	TWA073-TWA240

Table SH-12-B — Controls

Model Number	Description	Used With
BAYICSI003A	Trane Communication Interface (TCI)	TWA073_0R/0T - TWA240_0R/0T
BAYLTCI002B	LonTalk® Communication Interface (LCI)	TWA073_0R/0T - TWA240_0R/0T



It's Hard To Stop A Trane.®

6 - 20 Tons with ReliaTel™ Controls TWA073, TWA090, TWA120, TWA180, TWA240 Protection/Operation Timings and Features

Anti Short Cycle Timer (ASCT) Function — Provides a three (3) minute minimum “ON” time and a three (3) minute minimum “OFF” time for compressors, enhances compressor reliability by ensuring proper oil return. **Standard**

Built In Fan Delay Relay (FDR) Function — Provides custom indoor fan timing sequences for the different types of equipment, enhancing efficiency and reliability. **Standard**

Built In Night Set Back and Unoccupied Functions① — When using a standard dual setpoint/auto change over Zone Sensor Module (ZSM), this function is enabled by applying a short across terminal J6-11 and J6-12. Sets cooling setpoint up a minimum of 7°F, sets heating setpoint back a minimum of 7°F, and forces fan operation to automatic. **(requires time clock accessory or field supplied/ installed switch or contacts).**

Built In “TEST” Mode — Aids in quick verification of system and control operation, exercises both hardware and software (no special tools required). **Standard**

Built In Unoccupied Mode① — When using a standard single setpoint/manual change over Zone Sensor Module (ZSM), this function is enabled by applying a short across terminal J6-11 and J6-12. Forces fan operation to automatic. **(requires time clock accessory or field supplied/installed switch or contacts).**

Direct Digital Control (DDC)① — Proportional Integral (PI) control. Proportional – sets corrective action proportional to deviation from setpoint. Integral – fine tunes the rate of corrective action proportional to the error (results in superior space temperature control). **Standard**

Increased Reliability — Fewer components (moving electro-mechanical parts), less likelihood of equipment down time or failure. **Standard**

Integral Electric Heat Staging① — Stages electric heaters “OFF” and “ON”, eliminating the use of outdated sequencers. **Standard**

Intelligent Fallback① — A built in Default Control provides adaptive operation, which allows the equipment to continue to operate, providing comfort in the event of certain component failures. Also, allows emergency operation without a Zone Sensor Module (ZSM). **Standard**

Low Ambient Start Timer (LAST) Function — Bypasses low pressure control when a compressor starts, eliminating nuisance compressor lock outs. **Standard**

Lower Installation Cost — Using a standard Zone Sensor Module (ZSM), control voltage wiring may be run up to five (5) times further than any electromechanical system, with no increase in wire gauge. Example: Electromechanical System – 30 feet maximum using 22 gauge wire. Micro Control System – 150 feet using 22 gauge wire. **Standard**

On Board Diagnostics① — Assist with equipment troubleshooting, if a problem occurrence should take place. **Standard**

Remote Sensing① — All standard Zone Sensor Modules (ZSMs) have remote sensing capabilities, typically achieved by using an expensive program-mable thermostat and remote sensor with electromechanical equipment. **Accessory (requires use of remote sensor).**

Space Temperature Averaging① — All standard Zone Sensor Modules (ZSMs) have space temperature averaging capabilities, typically achieved by using an expensive programmable thermostat and minimum of four (4) remote sensors with electromechanical equipment. **Averaging with ReliaTel™ can be achieved with two (2) sensors.**

Time Delay Relay (TDR) Function — Provides an incremental staging delay between compressors, minimizes equipment current inrush and consumption by keeping compressors from starting simultaneously. **Standard**

Low Pressure and High Pressure Compressor Lockout — 3 trips will lockout control.

When the ReliaTel™ RTRM Thermostat Interface is used, equipment operation differs significantly. The basic equipment protection features remain intact, and the following features and benefits are lost:

- Direct Digital Control (DDC) – Proportional Integral (PI) control is lost, equipment is controlled by a thermostat or generic building automation system device.
- Intelligent Fall back is lost, if a failure occurs in the device controlling the equipment, operation will cease.
- Installation is more costly, with the addition of a thermostat or generic control, the control wiring size must be increased.
- Remote Sensing capabilities are lost, unless generic control being applied can accomplish this.
- Space Temperature Averaging capabilities are lost, unless generic control being applied can accomplish this.
- Built In Night Set Back and Unoccupied functions are lost, unless generic control being applied can accomplish this.
- Built In Unoccupied Mode is lost, unless generic control being applied can accomplish this.

Demand Defrost — Defrosts only if needed, not based on time like most other systems, optimizing and lowering operating costs.

① Denotes features lost from utilizing standard conventional stat.