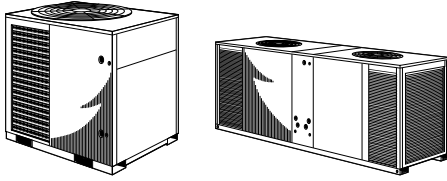


BUILT TO A HIGHER STANDARD

American Standard
HEATING & AIR CONDITIONING

Split System Cooling, Single Circuit Three Phase – 6-25 Tons, R-410A



TTA – 6-25 Tons

- ReliaTel™ controls option
- (1) Scroll compressor (TTA072-120A)
- (2) Scroll compressors (TTA072-240D) 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
- Liquid line filter drier, factory installed
- Electrical phase reversal protection
- Internal pressure relief valves
- Holding charge (Dry Nitrogen)
- All Aluminum microchannel coil
- 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 — Cooling Condenser

Digit 1–3 — Unit Function
TTA = Split System Cooling

Digit 4–6 — Tonnage
072 = 6 Tons (60Hz)
090 = 7.5 Tons (60Hz)
120 = 10 Tons (60Hz)
150 = 12.5 Tons (60Hz)
180 = 15 Tons (60Hz)
240 = 20 Tons (60Hz)
300 = 25 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)
C = 2 Compressors/1 Line/2 Stage (Manifold)

Digit 10 — Major Design Sequence

A = Current Design Sequence

Digit 11 — Minor Design Sequence

B = Current Design Sequence

Digit 12–13 — Service Digits

Digit 14 — Efficiency Generation

A = Generation A

Digit 15 — Controls

E = Electromechanical
R = ReliaTel™

Digit 16 — None

0 = Not Used

Digit 17 — Coil Protection

0 = Standard Coil
1 = Standard Coil w/ Hail Guard
4 = Complete Coat Condenser Coil (MCHE)
5 = Complete Coat Condenser Coil with Hail Guard (MCHE)

Digit 18–20 — None

0 = Not Used

Digit 21 — Communications Options

0 = No Option
2 = LonTalk® Communications Interface (LCI)

Digit 22–40 — None

0 = Not Used

Table LSC-1-A — TTA Split System Cooling — Single Compressor — R-410 Refrigerant

Model Number	Power Supply	AHRI Net Cooling Cap. (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound [Ⓞ] Rating	MCA*	Max. Fuse*	Connection Size (in)	
			H	W	L					OD Gas	OD Liq.
TTA07243A	208-230/3/60	76,000	46	45	38	324	84	28	45	1 ¹ / ₈	1 ¹ / ₂
TTA09043A	208-230/3/60	94,000	45	45	38	342	83	34	50	1 ³ / ₈	1 ¹ / ₂
TTA07244A	460/3/60	76,000	46	45	38	324	84	12	20	1 ¹ / ₈	1 ¹ / ₂
TTA09044A	460/3/60	94,000	45	45	38	342	83	17	25	1 ³ / ₈	1 ¹ / ₂
TTA0724WA	575/3/60	76,000	46	45	38	324	84	9	15	1 ¹ / ₈	1 ¹ / ₂
TTA0904WA	575/3/60	94,000	45	45	38	342	83	13	20	1 ³ / ₈	1 ¹ / ₂

Table LSC-1-B — TTA Split System Cooling — Dual Manifolder Compressors with Single Refrigerant Circuits — R-410 Refrigerant

Model Number	Power Supply	AHRI Net Cooling Cap. (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound [Ⓞ] Rating	MCA*	Max. Fuse*	Connection Size (in)	
			H	W	L					OD Gas	OD Liq.
TTA12043C	208-230/3/60	122,000	45	55	42	473	91	41	50	1 ³ / ₈	1 ¹ / ₂
TTA18043C	208-230/3/60	184,000	51.1	96	48	806	93	67	90	1 ⁵ / ₈	5 ⁵ / ₈
TTA24043C	208-230/3/60	250,000	51.1	96	48	879	94	98	125	1 ⁵ / ₈	5 ⁵ / ₈
TTA30043C	208-230/3/60	296,000	57.1	96	48	1013	94	102	125	2 ¹ / ₈	5 ⁵ / ₈
TTA12044C	460/3/60	122,000	45	55	42	473	91	20	25	1 ³ / ₈	1 ¹ / ₂
TTA18044C	460/3/60	184,000	51.1	96	48	806	93	32	40	1 ⁵ / ₈	5 ⁵ / ₈
TTA24044C	460/3/60	250,000	51.1	96	48	879	94	47	60	1 ⁵ / ₈	5 ⁵ / ₈
TTA30044C	460/3/60	296,000	57.1	96	48	1013	94	49	60	2 ¹ / ₈	5 ⁵ / ₈
TTA1204WC	575/3/60	122,000	45	55	42	473	91	15	20	1 ³ / ₈	1 ¹ / ₂
TTA1804WC	575/3/60	184,000	51.1	96	48	806	93	37	50	1 ⁵ / ₈	5 ⁵ / ₈
TTA2404WC	575/3/60	250,000	51.1	96	48	879	94	39	50	1 ⁵ / ₈	5 ⁵ / ₈
TTA3004WC	575/3/60	296,000	57.1	96	48	1013	94	42	50	2 ¹ / ₈	5 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.

LSC-1

Effective 1/1/21

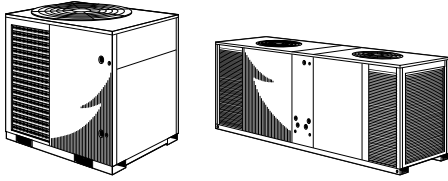
14-1011-38

Light Commercial
Split System Cooling

BUILT TO A HIGHER STANDARD[®]

American Standard[®]
HEATING & AIR CONDITIONING

Split System Cooling, Dual Circuit Three Phase – 6-25 Tons, R-410A



TTA – 6-25 Tons

- ReliaTel™ controls option
- (2) Manifolded scroll compressors
- 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
- Electrical phase reversal protection
- Internal pressure relief valves
- Holding charge (Dry Nitrogen)
- All aluminum microchannel coil
- 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 — Cooling Condenser

Digit 1–3 — Unit Function

TTA = Split System Cooling

Digit 4–6 — Tonnage

090 = 7.5 Tons (60Hz)

120 = 10 Tons (60Hz)

180 = 15 Tons (60Hz)

240 = 20 Tons (60Hz)

Digit 7 — Refrigerant

4 = R410A

Digit 8 — Voltage

3 = 208-230VAC - 3 PH (60Hz)

4 = 460VAC - 3 PH (60Hz)

Digit 9 — Refrigeration Circuit/Stage

D = 2 Compressors/2 Line/2 Stage (Duals)

Digit 10 — Major Design Sequence

A = Current Design Sequence

Digit 11 — Minor Design Sequence

B = Current Design Sequence

Digit 12–13 — Service Digits

Digit 14 — Efficiency Generation

A = Generation A

Digit 15 — Controls

E = Electromechanical

Digit 16 — None

0 = Not Used

Digit 17 — Coil Protection

0 = Standard Coil

Digit 18-20 — None

0 = Not Used

Digit 21 — Communications Options

0 = No Option

Digit 22-40 — None

0 = Not Used

Table LSC-2-B — TTA Split System Cooling — 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 [Ⓢ] Rating	MCA*	Max. Fuse*	Connection Size (in)	
			H	W	L					OD Gas	OD Liq.
TTA07243D	208-230/3/60	75,000	45	45	38	344	91	23	30	7/8	1/2
TTA09043D	208-230/3/60	91,000	45	45	38	380	91	33	45	1 1/8	1/2
TTA12043D	208-230/3/60	116,000	45	55	42	436	91	41	50	1 1/8	1/2
TTA15043D	208-230/3/60	150,000	52.1	55	42	504	93	55	70	1 1/8	1/2
TTA18043D	208-230/3/60	186,000	51.1	96	48	806	93	66	90	1 3/8	1/2
TTA24043D	208-230/3/60	244,000	51.1	96	48	872	94	87	110	1 3/8	1/2
TTA07244D	460/3/60	75,000	45	45	38	344	91	14	20	7/8	1/2
TTA09044D	460/3/60	91,000	45	45	38	380	91	15	20	1 1/8	1/2
TTA12044D	460/3/60	116,000	45	55	42	436	91	20	25	1 1/8	1/2
TTA15044D	460/3/60	150,000	52.1	55	42	504	93	26	35	1 1/8	1/2
TTA18044D	460/3/60	186,000	51.1	96	48	806	93	32	40	1 3/8	1/2
TTA24044D	460/3/60	244,000	51.1	96	48	872	94	40	50	1 3/8	1/2
TTA0724WD	575/3/60	75,000	45	45	38	344	91	10	15	7/8	1/2
TTA0904WD	575/3/60	91,000	45	45	38	380	91	11	15	1 1/8	1/2
TTA1204WD	575/3/60	116,000	45	55	42	436	91	14	15	1 1/8	1/2
TTA1504WD	575/3/60	150,000	52.1	55	42	504	93	19	25	1 1/8	1/2
TTA1804WD	575/3/60	186,000	51.1	96	48	806	93	25	30	1 3/8	1/2
TTA2404WD	575/3/60	244,000	51.1	96	48	872	94	31	40	1 3/8	1/2

Ⓢ 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.

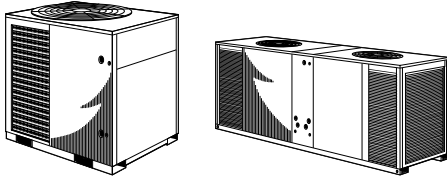
LSC-2

Effective 1/1/21

14-1011-38

Light Commercial
Split System Cooling

Split System Cooling Three Phase – 6-25 Tons, R-22



TTA – 6-25 Tons

- 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
- Electrical phase reversal protection
- Internal pressure relief valves
- Holding charge (Dry Nitrogen)
- All aluminum microchannel coil
- 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
- **1-year limited parts warranty**
- **Optional Extended Warranties**

Model Number Description — Cooling Condenser

Digit 1–3 — Unit Function

TTA = Split System Cooling

Digit 4–6 — Tonnage

090 = 7.5 Tons (60Hz)

120 = 10 Tons (60Hz)

180 = 15 Tons (60Hz)

240 = 20 Tons (60Hz)

Digit 7 — Refrigerant

2 = R-22

Digit 8 — Voltage

3 = 208-230VAC - 3 PH (60Hz)

4 = 460VAC - 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

B = Current Design Sequence

Digit 11 — Minor Design Sequence

A = Current Design Sequence

Digit 12–13 — Service Digits

Digit 14 — Efficiency Generation

A = Generation A

Digit 15 — Controls

E = Electromechanical

Digit 16 — None

0 = Not Used

Digit 17 — Coil Protection

0 = Standard Coil

Digit 18-20 — None

0 = Not Used

Digit 21 — Communications Options

0 = No Option

Digit 22-40 — None

0 = Not Used

Table LSC-3-A — TTA Split System Cooling - Single Compressors with Single Refrigerant Circuits - R-22 Refrigerant

Model Number	Power Supply	AHRI Net Cooling Cap. (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound ^① Rating	MCA*	Max. Fuse*	Connection Size (in)	
			H	W	L					OD Gas	OD Liq.
TTA09023A	208-230/3/60	90,000	45	45	38	328	83	31	50	1 ³ / ₈	1/2
TTA12023A	208-230/3/60	120,000	45	55	42	405	90	43	70	1 ³ / ₈	1/2
TTA09024A	460/3/60	90,000	45	45	38	328	83	15	25	1 ³ / ₈	1/2
TTA12024A	460/3/60	120,000	45	55	42	405	90	22	35	1 ³ / ₈	1/2

Table LSC-3-B — TTA Split System Cooling - Dual Compressors with Dual Refrigerant Circuits - R-22 Refrigerant

Model Number	Power Supply	AHRI Net Cooling Cap. (BTUH)	Uncrated Dimensions(in.)			Shipping Weight (lbs.)	Sound ^① Rating	MCA*	Max. Fuse*	Connection Size (in)	
			H	W	L					OD Gas	OD Liq.
TTA18023D	208-230/3/60	180,000	51.1	96	48	776	83	60	80	1 ³ / ₈	1/2
TTA24023D	208-230/3/60	240,000	51.1	96	48	922	90	78	100	1 ³ / ₈	1/2
TTA18024D	460/3/60	180,000	51.1	96	48	776	83	30	40	1 ³ / ₈	1/2
TTA24024D	460/3/60	240,000	51.1	96	48	922	90	40	50	1 ³ / ₈	1/2

① 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.

Split System Cooling – R-410A Accessories Three Phase – 6-25 Tons

Table LSC-4-A — TTA Accessories

Model	Used With
Coil (Hail/Vandal) Guard	
BAYGARD058*	TTA072, TTA090
BAYGARD059*	TTA120
BAYGARD060*	TTA150
BAYGARD061*	TTA180, TTA240
BAYGARD062*	TTA300
Universal Hot Gas Bypass Kit	
BAYHGBP010*	All models
Rubber Isolators	
BAYISLT004* (blue)	TTA072, TTA090
BAYISLT005* (black)	TTA120
BAYISLT009* (red)	TTA150, TTA180
BAYISLT010* (green)	TTA240, TTA300
Steel Spring Isolators	
BAYISLT023* (red)	TTA072, TTA090, TTA120**A
BAYISLT024* (black)	TTA120**C/D, TTA150, TTA180
BAYISLT025* (yellow)	TTA240, TTA300
Service Valve Kit	
BAYVALV001	TTA0724*A, TTA0904*A, TTA1204*C
BAYVALV003	TTA0724*D, TTA0904*D, TTA1204*D
BAYVALV004	TTA1504*D
BAYVALV005	TTA1804*D, TTA2404*D
BAYVALV007	TTA1804*C, TTA2404*C
BAYVALV008	TTA3004*C
Low Ambient — On/Off Fan Control (External mount, small cabinets)^{① ② ③}	
BAYLOAMU01* (External Mount, small cabinets) ^④	(all voltages) TTA072, TTA090
BAYLOAMU02* (Internal mount, large cabinets)	(all voltages) TTA120, TTA150, TTA180, TTA240, TTA300
Head Pressure Control^②	
BAYLOAM335* (208–230V, 0.5 HP, Hi-Eff Motor)	TTA072*3A, TTA090*3A
BAYLOAM336* (208–230V, 1 HP, Hi-Eff Motor)	TTA120*3A/C/D, TTA150*3D, TTA180*3C/D, TTA240*3C/D, TTA300*3C
BAYLOAM337* (208-230 V, 0.5HP, Hi-Eff motor)	TTA072*3D, TTA090*3D
BAYLOAM435*(380-460V, 0.5HP Hi-Eff Motor)	TTA072*4A, TTA090*4A
BAYLOAM436*(380-460V, 1 HP Hi-Eff Motor)	TTA120*4A/C/D, TTA150*4D, TTA180*4C/D, TTA240*4C/D, TTA300*4C
BAYLOAM437*(380-460V, 0.5 HP Hi-Eff Motor)	TTA072*4D, TTA090*4D
BAYLOAMW36* (575V, 1 HP, Hi-Eff Motor)	TTA120*WA/C/D, TTA150*WD, TTA180*WC/D, TTA240*WC/D, TTA300*WC
Transducer Kit for Head Pressure Control (BAYLOAM335, 336, 435, 436, W36)	
BAYLOTR001* ^⑤	TTA120**D, TTA150**D
Trane Communication (3/4 Communications Interface)	
BAYICSI003*	All Models
LonTalk Communications Interface^⑤	
BAYLTCI002*	All Models

① Cycles fan on/off (no modulating).

② Quantity of 1 required for each fan (2 total for ton and larger).

③ ReliaTel™ requires onboard EDC function to be disabled when BAYLOAM is used, remove OA sensor from terminal J8-1&2

④ Kit mounts external to the outdoor unit and operates by sensing ambient and liquid line temperatures.

⑤ BAYLOTR001 required when modulating BAYLOAM kits used with units that have 2 compressors (dual circuit) and 1 condenser fan.

Split System Cooling Three Phase - 6-25 Tons

Table LSC-5-A — ReliaTel™ Control Options

Model Number	Description	Used With
BAYSENS107	Zone Sensor, Set Point Adj, Fan, System, EH, ED	TTA072-TTA300 with ReliaTel™ Controls
BAYSENS109	Zone Sensor, 2 Set Point Adj, Fan, System, EH, ED	TTA072-TTA300 with ReliaTel™ Controls
BAYSENS119	Digital Programmable Zone Sensor	TTA072-TTA300 with ReliaTel Controls
BAYSENS135	Digital Non-Programmable Zone Sensor	TTA072-TTA300 with ReliaTel Controls
BAYSENS106	Zone Sensor, Set Point, Fan, System	TTA072-TTA300 with ReliaTel™ Controls
BAYSENS108	Zone Sensor, 2 Set Point, Fan, System	TTA072-TTA300 with ReliaTel™ Controls
BAYSENS110	Zone Sensor, 2 Set Point, Fan, System, ED	TTA072-TTA300 with ReliaTel™ Controls

Table LSC-5-B — Electromechanical Control Options

Model Number	Description	Used With
TCONT102AN11AA	1H/1C Non-Programmable Thermostat	TTA072A, TTA090A
TCONT103AN21HA	2H/1C Non-Programmable Thermostat	TTA072A, TTA090A
TCONT402AN32DA	3H/2C Non-Programmable Thermostat	ALL
TCONT202AS11MA	1H/1C Programmable Thermostat	TTA072A, TTA090A
TCONT302AS42DA	4H/2C Touchscreen Programmable Thermostat	ALL
TCONT303AS42DA	4H/2C Touchscreen Programmable Thermostat, Humidity Sensor	ALL
BAYSTAT814A	Picot Smart Thermostat	ALL

6 - 25 Tons with ReliaTel™ Controls

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.

① Denotes features lost from utilizing standard conventional stat.