



HIGH EFFICIENCY 16 SEER TWO-STAGE HEAT PUMP WITH OBSERVER™ COMMUNICATING CONTROL SYSTEM

2 THRU 5 TONS SPLIT SYSTEM

208/230 Volt, 1-phase, 60 Hz
REFRIGERATION CIRCUIT

- Copeland Scroll® Ultratech™ compressors on all models
- Crankcase Heater factory installed
- Suction line accumulator factory installed
- Bi-flow filter-drier included for field installation
- Integrated solid state control with Time-Temperature Defrost
- High and low pressure switches
- Discharge gas thermostat
- Copper tube / aluminum fin coil

PERFORMANCE

- Self configuring installation capabilities with Observer Communicating Wall Control
- Outdoor temperature sensor factory installed
- Ball Bearing PSC Fan Motors on all models
- High performance compressor sound shield standard
- Isolation compressor grommets

EASY TO INSTALL AND SERVICE

- Text based diagnostics with Observer Communicating Wall Control
- Only 2 control wires required from communicating indoor unit to condenser
- Easy access service valves on all models
- Innovative control box design
- External high and low refrigerant service ports
- Only two screws to access control panel
- Factory charged with R-410A refrigerant

BUILT TO LAST

- High gloss, baked-on powder coat finish over galvanized steel
- Post-painted (black) coil fins
- Coated, weather-resistant cabinet screws
- Coated inlet grille with 3/8" (10mm) spacing for extra protection (hail guard)
- Corner posts for extra strength and style

WARRANTY*

- 10 year No Hassle Replacement™ limited warranty
- 5 year parts limited warranty (including compressor and coil)
 - With timely registration, an additional 5 year parts limited warranty (including compressor and coil)

* Applies to original purchaser/homeowner, some limitations may apply. See Warranty certificate for complete details.



TSTAT0101SC
(Order Separately)



This product has been designed and manufactured to meet ENERGY STAR criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow the manufacturer's refrigerant charging and air flow instructions. Failure to confirm proper charge and airflow may reduce energy efficiency and shorten equipment life.

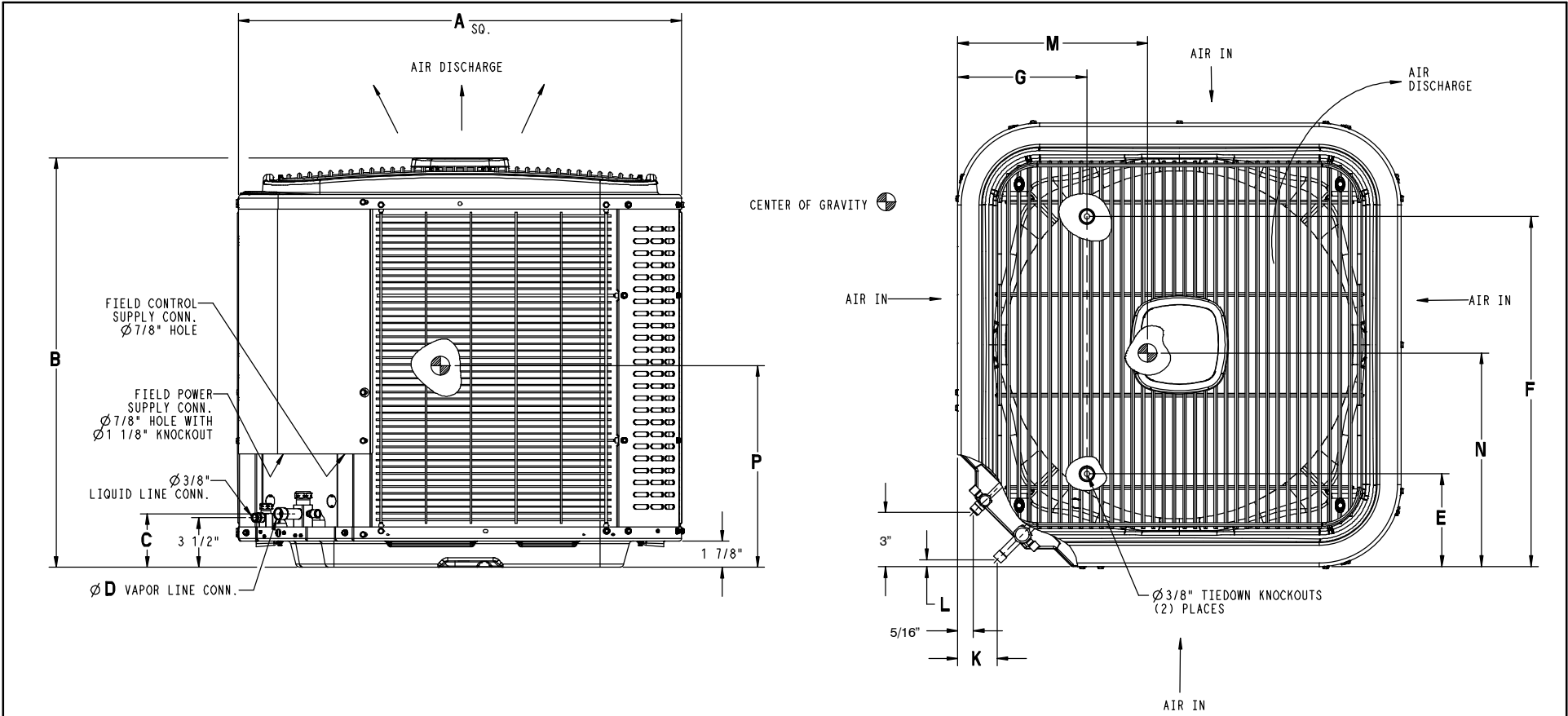


Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.

Model Number	Size (tons)	Nominal Btu/hr	Min. Circuit Ampacity	Max. Fuse or Breaker	Operating Dimensions height x width x depth in. (mm)	Ship / Operating Weight lbs. (kg)
TCH624GKA1	2	24,000	16.4	25	40-1/4 x 35 x 35 (1023 x 889 x 889)	292 / 249 (132 / 113)
TCH624GKA3	2	24,000	16.2	25	40-1/4 x 35 x 35 (1023 x 889 x 889)	292 / 249 (132 / 113)
TCH636GKA1	3	36,000	21.8	35	40-1/4 x 35 x 35 (1023 x 889 x 889)	313 / 270 (142 / 123)
TCH636GKA2	3	36,000	23.7	40	40-1/4 x 35 x 35 (1023 x 889 x 889)	313 / 270 (142 / 123)
TCH648GKA1	4	48,000	34.8	50	40-1/4 x 35 x 35 (1023 x 889 x 889)	345 / 302 (157 / 137)
TCH648GKA2	4	48,000	29.8	50	40-1/4 x 35 x 35 (1023 x 889 x 889)	345 / 302 (157 / 137)
TCH660GKA1	5	60,000	30.1	50	47-1/16 x 35 x 35 (1196 x 889 x 889)	369 / 323 (167 / 147)
TCH660GKA2	5	60,000	37.5	60	47-1/16 x 35 x 35 (1196 x 889 x 889)	369 / 323 (167 / 147)

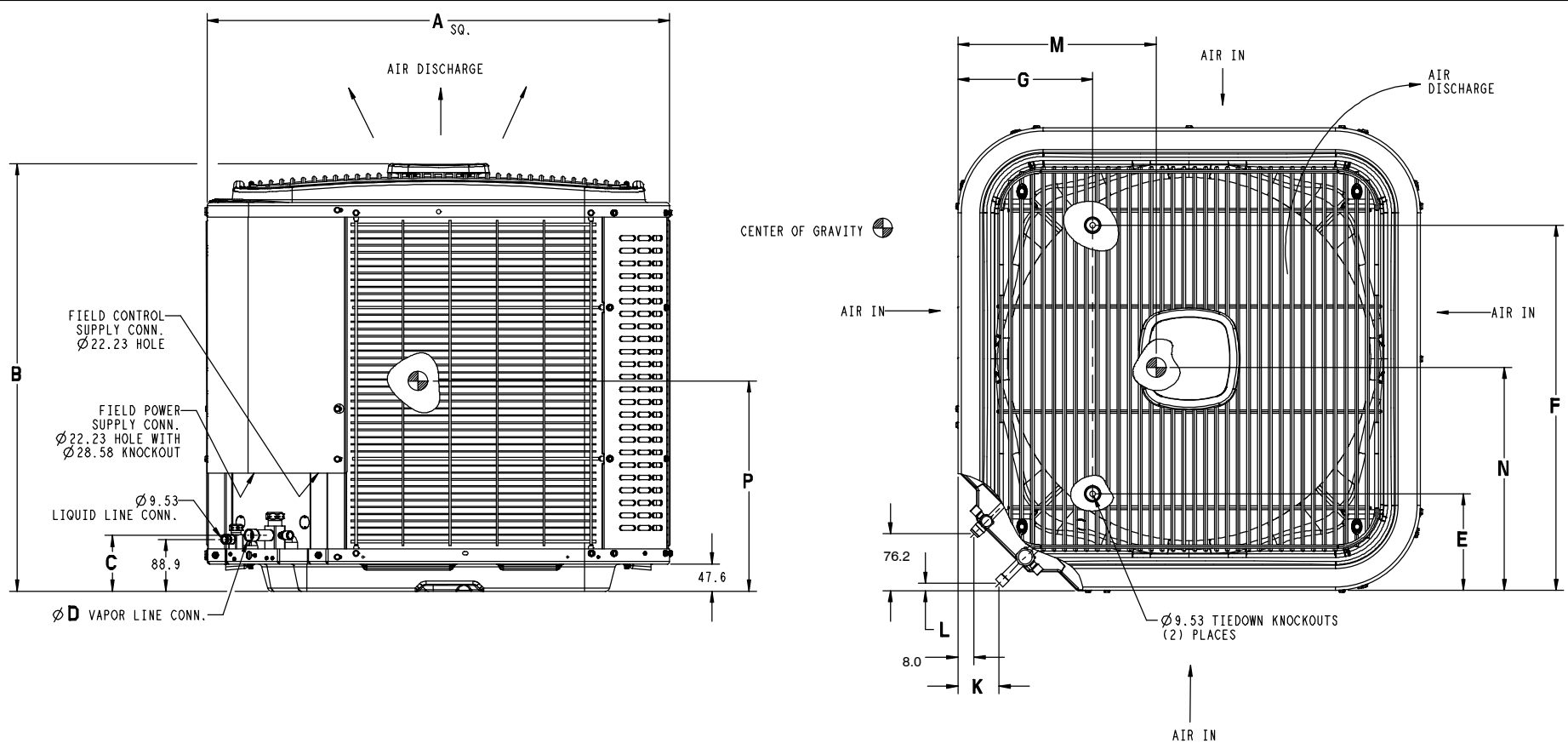
OUTDOOR UNIT MODEL NUMBER IDENTIFICATION GUIDE (single phase)											
Digit Position:	1	2	3	4	5, 6	7	8	9	10	11	12
Example Part Number:	T	C	H	6	24	G	K	A	2	0	0
T = Tempstar Mainline BRANDING											
C = Communicating KEY CHARACTERISTIC											
A = Air Conditioner H = Heat Pump TYPE											
6 = 16 SEER 7 = 17 SEER 8 = 18 SEER 9 = 19 SEER NOMINAL EFFICIENCY											
24 = 24,000 BTUH = 2 tons 36 = 36,000 BTUH = 3 tons 48 = 48,000 BTUH = 4 tons 60 = 60,000 BTUH = 5 tons NOMINAL CAPACITY											
G = Coil Guard Grille FEATURES											
K = 208-230-1-60 VOLTAGE											
Sales Code											
Engineering Revision											
Extra Digit											
Extra Digit											

ACCESSORIES PART NUMBER IDENTIFICATION GUIDE									
Digit Position:	1	2	3	4	5	6, 7	8, 9	10, 11	
Example Part Number:	N	A	S	A	0	01	01	CH	
N = Non-Branded									
A = Accessory PRODUCT GROUP									
S = Split System (AC & HP) KIT USAGE									
A = Original B = 2nd Generation MAJOR SERIES									
0 = Generic or Not Applicable 2 = R-22 4 = R-410A REFRIGERANT									
Product Identifier Number									
Package Quantity									
Type of Kit (Example: CH = Crankcase Heater)									



Dimensions Inches (English)

Model TCH6	A	B	C	D	E	F	G	K	L	M	N	P	Minimum Mounting Pad Size	Crated Dimensions L x W x H
24GKA1	35	40-1/4	3-3/4	3/4	6-9/16	28-7/16	9-1/8	2-13/16	1/2	15-3/4	16-1/2	16-1/2	35 x 35	36-1/8 x 39-1/4 x 46-1/8
24GKA3	35	40-1/4	3-3/4	3/4	6-9/16	28-7/16	9-1/8	2-13/16	1/2	17-1/4	18	18	35 x 35	36-1/8 x 39-1/4 x 46-1/8
36GKA1	35	40-1/4	3-7/8	7/8	6-9/16	28-7/16	9-1/8	2-15/16	5/8	15-3/4	17	17	35 x 35	36-1/8 x 39-1/4 x 46-1/8
36GKA2	35	40-1/4	3-7/8	7/8	6-9/16	28-7/16	9-1/8	2-15/16	5/8	17	18-1/2	18-3/4	35 x 35	36-1/8 x 39-1/4 x 46-1/8
48GKA2	35	40-1/4	3-7/8	7/8	6-9/16	28-7/16	9-1/8	2-15/16	5/8	17-1/2	18-1/4	20	35 x 35	36-1/8 x 39-1/4 x 46-1/8
48GKA1	35	40-1/4	3-7/8	7/8	6-9/16	28-7/16	9-1/8	2-15/16	5/8	16-3/4	14	14	35 x 35	36-1/8 x 39-1/4 x 46-1/8
60GKA1	35	47-1/16	3-7/8	7/8	6-9/16	28-7/16	9-1/8	2-15/16	5/8	17-1/4	18-1/4	18-1/4	35 x 35	36-1/8 x 39-1/4 x 50-13/16
60GKA2	35	47-1/16	3-7/8	7/8	6-9/16	28-7/16	9-1/8	2-15/16	5/8	16-1/2	17-1/8	21	35 x 35	36-1/8 x 39-1/4 x 50-13/16



Dimensions mm (SI Metric)

Model TCH6	Dimensions mm (SI Metric)												Minimum Mounting Pad Size	Crated Dimensions L x W x H
	A	B	C	D	E	F	G	K	L	M	N	P		
24GKA1	889	1023	96	19	166	723	231	71	13	400	426	419	889 x 889	918 x 998 x 1172
24GKA3	889	1023	96	19	166	723	231	71	13	438	457	457	889 x 889	918 x 998 x 1172
36GKA1	889	1023	98	22	166	723	231	75	16	400	426	432	889 x 889	918 x 998 x 1172
36GKA2	889	1023	98	22	166	723	231	75	16	432	470	476	889 x 889	918 x 998 x 1172
48GKA1	889	1023	98	22	166	723	231	75	16	426	413	356	889 x 889	918 x 998 x 1172
48GKA2	889	1023	98	22	166	723	231	75	16	445	464	508	889 x 889	918 x 998 x 1172
60GKA1	889	1196	98	22	166	723	231	75	16	438	413	464	889 x 889	918 x 998 x 1290
60GKA2	889	1196	98	22	166	723	231	75	16	419	435	533	889 x 889	918 x 998 x 1290

PHYSICAL DATA					
Model Size		24	36	48	60
Nominal Cooling Capacity (BTU/hr)		24,000	36,000	48,000	60,000
SEER Rating‡		17.0	17.0	16.0	16.0
Sound Rating**, High Stage (dBA)		72	73	72	72
Low Stage (dBA)		68	70	71	72
PSC Fan Motor HP		1/12	1/12	1/4	1/4
Fan RPM		800	800	825	825
Fan CFM		3200	3200	4350	5000
Coil Face Area (ft ²)		25.15	25.15	25.15	30.18
Coil Rows – fins per inch		2–20	2–20	2–20	2–20
Low Pressure Switch	Open Pressure	23 ± 5 PSIG	23 ± 5 PSIG	23 ± 5 PSIG	23 ± 5 PSIG
	Close Pressure	55 ± 5 PSIG	55 ± 5 PSIG	55 ± 5 PSIG	55 ± 5 PSIG
Hi Pressure Switch	Open Pressure	670 ± 10 PSIG	670 ± 10 PSIG	670 ± 10 PSIG	670 ± 10 PSIG
	Close Pressure	470 ± 25 PSIG	470 ± 25 PSIG	470 ± 25 PSIG	470 ± 25 PSIG
Liquid Line Connection Size in. (mm)		3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)
Vapor Line Connection Size in. (mm)		3/4 (19)	7/8 (22)	7/8 (22)	7/8 (22)
Recommended Line Set Liquid Tube Diameter in. (mm)		3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)
Recommended Line Set Vapor Tube Diameter in. (mm)*		3/4 (19)*	7/8 (22)*	1–1/8 (29)*	1–1/8 (29)*
* Recommended Vapor Tube Line size is for standard installations. These recommendations may not apply to “Long Line” installations. When the total equivalent line length exceeds 80 feet (24.4m) or there is more than 20 feet (6.1m) vertical separation between indoor and outdoor units, consult the Long Line Application Guideline document before purchasing/installing line sets.					
Factory Charge R–410A lbs. (kg)		13.07 (5.93)	13.70 (6.21)	13.73(6.23)	14.78 (6.70)
Required Subcooling °F (°C)		10 (5.6)	13 (7.2)	12 (6.7)	11 (6.1)
Outdoor Unit Factory Piston Size (used in Outdoor Unit for heating mode)		46	55	61	67

ELECTRICAL DATA (208–230–1–60, voltage range 197V – 253V)								
Model Size	24GKA1	24GKA3	36GKA1	36GKA2	48GKA1	48GKA2	60GKA1	60GKA2
Minimum Circuit Ampacity – MCA (amps)	16.4	16.2	21.8	23.7	34.8	29.8	30.1	37.5
Maximum OverCurrent Protective device – MOCP (amps)	25	25	35	40	50	50	50	60
Compressor RLA (Rated Load Amps)	12.7	12.5	16.7	18.5	26.9	22.8	23.0	28.8
LRA (Locked Rotor Amps)	52.0	58.3	82.0	83.0	96.0	104.0	118.0	152.9
Fan Motor FLA (Full Load Amps)	0.5	0.6	0.9	0.6	1.3	1.3	1.4	1.5

‡ Highest sales volume tested combination.

**Sound Rating tested in accordance with AHRI Standard 270–95 (not listed with AHRI).

R-410A COOLING CAPACITY LOSS FOR VARIOUS LINE LENGTHS & TUBE DIAMETERS											
Unit Nominal Size (Btuh)	Maximum Liquid Line Diameter (OD) in.(mm)	Vapor Line Diameters (OD) in. (mm)	Cooling Capacity Loss (%) at Total Equivalent Line Length, feet (m)								
			26-50 (7.9-15.2)	51-80 (15.5-24.4)	81-100 (24.7-30.5)	101-125 (30.8-38.1)	126-150 (38.4-45.7)	151-175 (46.0-50.3)	176-200 (53.6-60.0)	201-225 (61.3-68.6)	226-250 (68.9-76.2)
24 2-Stage HP	3/8 (10)	5/8 (16)	0	1	1	2	3	3	4	4	5
		3/4 (19)	0	1	1	1	1	1	1	1	1
36 2-Stage HP		5/8 (16)	1	2	4	5	6	7	9	10	11
		3/4 (19)	0	0	1	1	2	2	3	3	4
		7/8 (22)	0	0	-	-	-	-	-	-	-
48 2-Stage HP		3/4 (19)	1	2	2	3	4	5	6	7	7
		7/8 (22)	0	1	1	2	2	2	3	3	4
		1-1/8 (29)	0	0	-	-	-	-	-	-	-
60 2-Stage HP		3/4 (19)	1	2	4	5	6	8	9	10	11
		7/8 (22)	0	1	2	2	3	4	4	5	5
		1-1/8 (29)	0	0	-	-	-	-	-	-	-

Standard Length – 80 ft. (24.4m) or less total equivalent length.

Applications in this area are long line. Accessories are required as shown recommended on the AC & HP R410A Split System Long Line Applications Guideline.

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit.

- Applications in this area are not recommended due to insufficient oil return.

TESTED AHRI COMBINATION RATINGS*

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory. www.ahridirectory.org

Additional ratings and system combinations can be accessed via the Tempstar database at:

<http://www.icpeqp.com/AHRIratings/ratings.aspx?Brand=Tempstar>

Or scan this QR code:



COOLING & HEATING PERFORMANCE FOR COMBINATION RATINGS Indoor Models																	
AHRI STANDARD RATINGS																	
Unit Size	Indoor Model *Model Tested	Furnace Model	Cooling						Heating								
			Capacity		SEER	EER	ID CFM		High Temp				Low Temp				HSPF
			High	Low			High	Low	Capacity		COP		Capacity		COP		
					High	Low			High	Low	High	Low	High	Low	High	Low	
TCH624GKA1	*FVM4X24****		23800	20200	16.5	13.0	700	560	25400	17700	3.82	3.82	15300	9500	2.72	2.18	9.0
TCH624GKA3	*FVM4X24****		24000	21000	17.0	13.0	700	560	25000	17900	3.90	3.84	15300	10100	2.74	2.32	9.0
TCH636GKA1	*FVM4X60****		36400	28600	17.0	13.2	1050	840	35600	23800	4.06	4.06	22200	12200	2.94	2.28	9.5
TCH636GKA2	*FVM4X60****		36400	30800	17.0	13.3	1050	840	35800	25200	4.06	4.10	22600	15300	3.00	2.60	9.5
TCH648GKA1	*FVM4X48****		46500	38000	16.0	12.5	1400	1120	47000	33200	3.60	3.80	29400	20200	2.78	2.54	9.0
TCH648GKA2	*FVM4X48****		47000	39000	16.0	12.5	1400	1120	47000	33000	3.68	3.70	29200	19400	2.72	2.34	9.0
TCH660GKA1	*FCM4X60****		56500	45500	15.7	12.5	1750	1400	58000	41000	3.78	3.86	36600	25000	2.78	2.48	9.1
TCH660GKA2	*FVM4X60****		56500	46000	16.0	12.5	1750	1400	58000	39500	3.72	3.76	36000	23400	2.76	2.38	9.0

ENERGY STAR compliance for combinations with all three: SEER 14.50 or higher and EER 12.00 or higher and HSPF 8.2 or higher.

* AHRI = Air Conditioning, Heating & Refrigeration Institute

EERA — Energy Efficiency Ratio – 'A' conditions – 80°F (26.6°C) indoor db/67°F (19.4°C) indoor wb & 95°F (35° C) outdoor wb.

SEER — Seasonal Energy Efficiency Ratio

NOTES:

1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.
2. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for central air conditioners. Ratings for other combinations are determined under DOE computer simulation procedures.
3. Determine actual CFM values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.
4. Do not apply with capillary tube coils as performance and reliability are significantly affected.

EXPANDED COOLING PERFORMANCE RATINGS For GKA100 Outdoor / Indoor Models

For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org. New ratings may be listed online before Specification Sheets are updated.

High Cool, TCH624GKA100 Outdoor With FVM4X24**** Indoor Cooling

Table with columns for Outdoor Ambient Temperature (75, 85, 95, 105, 115) and Entering Indoor Temperature (57, 62, 63, 67, 72). Rows include CFM, MBh†, S/T‡, AMPS*, HI PR, and LO PR for models 600, 650, and 700.

Low Cool, TCH624GKA100 Outdoor With FVM4X24**** Indoor Cooling

Table with columns for Outdoor Ambient Temperature (75, 85, 95, 105, 115) and Entering Indoor Temperature (57, 62, 63, 67, 72). Rows include CFM, MBh†, S/T‡, AMPS*, HI PR, and LO PR for models 480, 520, 560, and 640.

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur. * System amps are total of indoor and outdoor amps ‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree above 80 F †† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db

EXPANDED COOLING PERFORMANCE RATINGS For GKA100 Outdoor / Indoor Models

For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org. New ratings may be listed online before Specification Sheets are updated.

High Cool, TCH636GKA100 Outdoor With FVM4X60**** Indoor Cooling

Table with columns for CFM, indoor temperatures (57-72 F), and outdoor ambient temperatures (75, 85, 95, 105, 115 F). Rows include MBh†, S/T‡, AMPS*, HI PR, and LO PR for models 900, 975, 1050, and 1200.

Low Cool, TCH636GKA100 Outdoor With FVM4X60**** Indoor Cooling

Table with columns for CFM, indoor temperatures (57-72 F), and outdoor ambient temperatures (75, 85, 95, 105, 115 F). Rows include MBh†, S/T‡, AMPS*, HI PR, and LO PR for models 720, 780, 840, and 960.

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur. * System amps are total of indoor and outdoor amps ‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree above 80 F †† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db

EXPANDED COOLING PERFORMANCE RATINGS For GKA100 Outdoor / Indoor Models

For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org.
New ratings may be listed online before Specification Sheets are updated.

High Cool, TCH648GKA100 Outdoor With FVM4X48**** Indoor Cooling

Table with columns for Outdoor Ambient Temperature (75, 85, 95, 105, 115) and Entering Indoor Temperature (57, 62, 63††, 67, 72). Rows include CFM, MBH†, S/T‡, AMPS*, HI PR, and LO PR for models 1200, 1300, 1400, and 1600.

Low Cool, TCH648GKA100 Outdoor With FVM4X48**** Indoor Cooling

Table with columns for Outdoor Ambient Temperature (75, 85, 95, 105, 115) and Entering Indoor Temperature (57, 62, 63††, 67, 72). Rows include CFM, MBH†, S/T‡, AMPS*, HI PR, and LO PR for models 960, 1040, 1120, and 1280.

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set.
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
* System amps are total of indoor and outdoor amps
‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree above 80 F
†† At TVA rating indoor condition (75 F db/ 63 F wb). All other indoor air temperatures are at 80 F db

EXPANDED COOLING PERFORMANCE RATINGS For GKA300 Outdoor / Indoor Models

For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org. New ratings may be listed online before Specification Sheets are updated.

High Cool, TCH624GKA300 Outdoor With FVM4X24**** Indoor Cooling

Table with columns for CFM, Outdoor Ambient Temperature (75, 85, 95, 105, 115), and Entering Indoor Temperature (57, 62, 63††, 67, 72) for various indoor models (MBh†, S/T‡, AMPS*, HI PR, LO PR).

Low Cool, TCH624GKA300 Outdoor With FVM4X24**** Indoor Cooling

Table with columns for CFM, Outdoor Ambient Temperature (75, 85, 95, 105, 115), and Entering Indoor Temperature (57, 62, 63††, 67, 72) for various indoor models (MBh†, S/T‡, AMPS*, HI PR, LO PR).

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur. * System amps are total of indoor and outdoor amps ‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btu/h per 1000 cfm of indoor coil air from MBhxS/T for each degree below 80 F, or add 835 Btu/h per 1000 cfm of indoor coil air from MBhxS/T for each degree above 80 F †† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db

EXPANDED COOLING PERFORMANCE RATINGS For GKA200 Outdoor / Indoor Models

For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org.
New ratings may be listed online before Specification Sheets are updated.

High Cool, TCH636GKA200 Outdoor With FVM4X60**** Indoor Cooling

Table with columns for CFM, outdoor ambient temperature (75, 85, 95, 105, 115), and entering indoor temperature (57, 62, 63††, 67, 72). Rows include performance metrics for models 900, 975, 1050, and 1200 (MBh†, S/T‡, AMPS*, HI PR, LO PR).

Low Cool, TCH636GKA200 Outdoor With FVM4X60**** Indoor Cooling

Table with columns for CFM, outdoor ambient temperature (75, 85, 95, 105, 115), and entering indoor temperature (57, 62, 63††, 67, 72). Rows include performance metrics for models 7200, 780, 840, and 960 (MBh†, S/T‡, AMPS*, HI PR, LO PR).

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set.
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
* System amps are total of indoor and outdoor amps
‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btu/h per 1000 cfm of indoor coil air from MBhxS/T for each degree below 80 F, or add 835 Btu/h per 1000 cfm of indoor coil air from MBhxS/T for each degree above 80 F
†† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db

EXPANDED HEATING PERFORMANCE RATINGS For GKA300 Outdoor / Indoor Models

For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org.
New ratings may be listed online before Specification Sheets are updated.

High Heat TCH624GKA300 Size Outdoor With FVM4X24**** Indoor Heating

Outdoor Ambient Temperature - Degrees F, Dry Bulb

-3 7 17 27 37 47 57 67

Entering Indoor Temperature - Degrees F, Dry Bulb

Table with columns for CFM, indoor temperature (65, 70, 75), and outdoor temperature (-3, 7, 17, 27, 37, 47, 57, 67). Rows include performance metrics (MBht, T/R, AMPS*, HI PR, LO PR) for capacities 600, 650, 700, and 800.

Low Heat TCH624GKA300 Size Outdoor With FVM4X24**** Indoor Heating

Outdoor Ambient Temperature - Degrees F, Dry Bulb

-3 7 17 27 37 47 57 67

Entering Indoor Temperature - Degrees F, Dry Bulb

Table with columns for CFM, indoor temperature (65, 70, 75), and outdoor temperature (-3, 7, 17, 27, 37, 47, 57, 67). Rows include performance metrics (MBht, T/R, AMPS*, HI PR, LO PR) for capacities 460, 520, 560, and 640.

† Total capacities are net (I.D blower heat added) system capacities based on 25' line set.
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
* System amps are total of indoor and outdoor amps
T/R - Temp Rise is based on 25' line set.
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in Temp Rise may occur.

ACCESSORY USAGE GUIDELINES			
Accessory	REQUIRED FOR LOW AMBIENT COOLING APPLICATIONS (16 SEER Product Only) (Below 55°F / 12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS*	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles/3.22km)
Compressor Start Assist Capacitor and Relay	NO	No	No
Crankcase Heater	Yes, Standard	Yes, Standard	No
Liquid Line Solenoid Valve	No	See Long Line Applications Guideline	No
Support Feet	Recommended	No	Recommended
Hard Shutoff TXV	Yes (Standard with factory approved indoor unit)	Yes (Standard with factory approved indoor unit)	Yes (Standard with factory approved indoor unit)
Evaporator Freeze Thermostat	Yes	No	No
Low-Ambient Pressure Switch	Yes	No	No
Isolation Relay	Yes	No	No

* For tubing line sets between 80 and 200 ft. (24.38 and 60.96 m) and/or 20 ft. (6.09 m) vertical differential, refer to Long Line Applications Guideline.

ACCESSORIES			
Part Number	Description	Used On GKA100 Model Size	Used On GKA200/300 Model Size
NASA001LS	Liquid Line Solenoid Valve, HP, R-22 or R-410A	ALL	ALL
NASA001TD	Time Delay Relay, Indoor Blower	ALL	ALL
NASA001SF	Support Feet, 4" (102mm) tall	ALL	ALL
NASA00106SS	Snow Stand Kit	ALL	ALL
NASA010SC	Hard Start Kit (Capacitor & Relay)	24	N/A
NASA011SC	Hard Start Kit (Capacitor & Relay)	36	N/A
NASA012SC	Hard Start Kit (Capacitor & Relay)	48	24, 36
NASA013SC	Hard Start Kit (Capacitor & Relay)	60	N/A
NASA015SC	Hard Start Kit (Capacitor & Relay)	N/A	48, 60
NASA001FS	Evaporator Freeze Thermostat	N/A	ALL
NASA401LA	Low Ambient Kit (Pressure Switch) R-410A	N/A	ALL
NASA00101IK	Isolation Relay Kit	N/A	ALL
WALL CONTROL			
TSTAT0101SC	Observer™ Self Configuring Communicating Wall Control	ALL	ALL