

TABULAR DATA SHEET

Outdoor Split System Air Conditioner 1.5 – 2 Ton

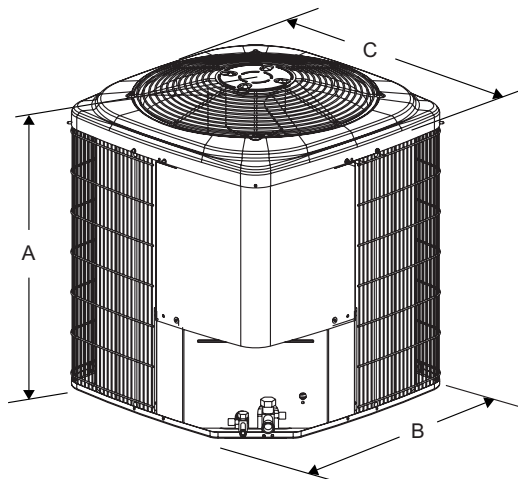
MODELS: TCGD18 - 24*X
13 SEER – R-22, 1 PHASE

Physical and Electrical Data

MODEL		TCGD18S21S2X(H)	TCGD24S21S2X(H)
Unit Supply Voltage		208-230V, 1 ϕ , 60Hz	208-230V, 1 ϕ , 60Hz
Normal Voltage Range ¹		187 to 252	187 to 252
Minimum Circuit Ampacity		8.5	13.2
Max. Overcurrent Device Amps ²		15	20
Min. Overcurrent Device Amps ³		15	15
Compressor Type		Recip	Recip
Compressor Amps	Rated Load	6.4	9.9
	Locked Rotor	36	54
Crankcase Heater		No	No
Fan Motor Amps	Rated Load	0.5	0.8
Fan Diameter Inches		18	18
Fan Motor	Rated HP	1/12	1/8
	Nominal RPM	1100	1075
	Nominal CFM	1550	1850
Coil	Face Area Sq. Ft.	9.7	9.7
	Rows Deep	1	1
	Fin / Inches	23	23
Liquid Line Set OD (Field Installed)		3/8	3/8
Vapor Line Set OD (Field Installed)		5/8	3/4
Unit Charge (Lbs. - Oz.) ⁴		3-1	3-9
Charge Per Foot, Oz.		0.66	0.68
Operating Weight Lbs.		130	130
Models with "H" on the end of the model number have a factory installed start kits.			

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. The Unit Charge is correct for the outdoor unit, matched indoor coil and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.

All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.



Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A ¹	B	C	Liquid	Vapor
18	28	23-1/2	23-1/2	3/8"	3/4"
24	28	23-1/2	23-1/2		

1. Including Fan Guard.

System Charge for Various Matched Systems		
Outdoor Unit	TCGD18S21S2X(H)	TCGD24S21S2X(H)
Required Orifice or TXV ^{1,2}	0.052 / 2A	0.059 / 0.061 / 2A
Factory Charge, lbs-oz	3-1	3-9
Indoor Coil ^{3,4}	Additional Charge, Oz	
FC/MC/PC/UC18A2A	0	–
FC/MC/PC/UC18B2A	0	–
FC/MC/PC/UC24A2A	5	–
FC/MC/PC/UC24B2A	5	–
FC/MC/PC32A2A	–	3
FC/MC/PC35B2A	–	3
FC/MC/PC35C2A	–	3
FC/MC/PC/UC36A2A	–	0
FC/MC/PC/UC36B2A	–	0
FC/MC/PC/UC36C2A	–	0
FC/MC/PC37A2A	–	7
FC/MC/PC43B2C	–	–
FC/MC/PC43C2C	–	–
FC/MC/PC/UC48C2C	–	–
FC/MC/PC/UC48D2C	–	–
FC/MC62D2C	–	–
HC18A2A	0	–
HC30A2A	–	0
HC36B2A	–	3
HC42C2C	–	–
AHP18B2A	0	–
AHP24B2A	2	–
AHP30B2A	–	3
AHP36C2A	–	–
AHP42C2C	–	–
AHP/SHP60D2C	–	–
AV24B2A	2	–
AV36C2A	–	7
AV/SV48D2C	–	–
FC/MC/PC/UC18A3X	52 + 0	–
FC/MC/PC/UC18B3X	52 + 0	–
FC/MC/PC/UC24A3X	52 + 5	–

System Charge for Various Matched Systems		
Outdoor Unit	TCGD18S21S2X(H)	TCGD24S21S2X(H)
Required Orifice or TXV ^{1,2}	0.052 / 2A	0.059 / 0.061 / 2A
Factory Charge, lbs-oz	3-1	3-9
Indoor Coil ^{3,4}	Additional Charge, Oz	
FC/MC/PC/UC24B3X	52 + 5	–
FC/MC/PC32A3X	–	61 + 3
FC/MC/PC35B3X	–	61 + 3
FC/MC/PC35C3X	–	61 + 3
FC/MC/PC/UC36A3X	–	59 + 0
FC/MC/PC/UC36B3X	–	59 + 0
FC/MC/PC/UC36C3X	–	59 + 0
FC/MC/PC37A3X	–	61 + 7
FC/MC/PC43B3X	–	61 + 7
FC/MC/PC43C3X	–	61 + 7
FC/MC/PC/UC48C3X	–	–
FC/MC/PC/UC48D3X	–	–
FC/MC62D3X	–	–
HC18A3X	52 + 0	–
HC30A3X	–	59 + 0
HC36B3X	–	61 + 3
HC42C3X	–	61 + 7
AHP18B3X	52 + 0	–
AHP24B3X	52 + 0	–
AHP30B3X	–	61 + 3
AHP36C3X	–	–
AHP42C3X	–	–
AHP/SHP60D3X	–	–
AV24B3X	52 + 2	–
AV36C3X	–	61 + 7
AV/SV48D3X	–	–
F4FP024	52 + 0, 2A + 0	–
F4FP036	–	61 + 1, 2A + 2
F4FP040	–	–
F5FP048	–	–
F5FP060	–	–
F4FV060	–	–

FOOTNOTES:

1. For applications requiring a TXV use 1TVM series kit.
2. Approved orifice shipped with outdoor unit.
3. Systems matched with furnace or air handlers not equipped with blower-off delays may require blower Time Delay Kit 2FD06700224.
4. PC coils cannot be used in downflow or horizontal applications. FC coils cannot be used in horizontal applications.

PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and 15 feet of interconnecting line tubing.
2. Verify the TXV or orifice and additional charge required for specific evaporator coil in the system using the above table.
3. Additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in Physical and Electrical Data Table.
4. For TXV match charge weight needs to be weighed in for specific coil match and lineset length.
5. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + adder for evaporator + adder for line set.

IMPORTANT

This model requires a start kit for TXV matches. Model with "H" on the end of the model number have factory installed start kit. Model without an "H" refer to tech guide for kit number reference.

