



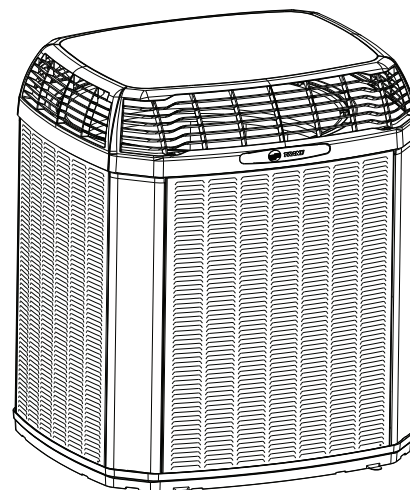
Product Data

TRANE Link Variable Speed Heat Pumps

5TWV0X24A1000A/B
5TWV0X36A1000A/B
5TWV0X48A1000A/B
5TWV0X60A1000A/B



The Diagnostics Mobile App is available by scanning a QR code above, the one located inside this unit or by searching for the Trane or American Standard Diagnostics App in your App Store®. This system must include a A/T HUI2360A200U thermostat and a TSYS2C60A2VVU system controller to operate and is Link communicating only.



Note: *Graphics in this document are for representation only. Actual model may differ in appearance.*



Mechanical Specification Options

General

This unit is designed to operate at outdoor ambient temperatures from 55° F to 120° F in cooling. From — 0° F to 66° F in heating (heat pumps only). Only AHRI approved indoor matches are approved for use with these models.

TRANE Link Air Conditioners

This outdoor unit contains the TRANE Link Air Conditioners digital communication with Plug-n-Play set up.

Casing

Unit casing is constructed of heavy gauge. G60 galvanized steel and painted with a weather-resistant powder paint on all louvered panels and prepaint on all other panels. Corrosion and weatherproof CMBP-G30 DuraTuff™ base.

WeatherGuard™ II Top Shields Unit.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor inverter drive and high and low pressure switches. A factory supplied, field installed filter is standard.

Compressor

Inverter driven compressor with variable output capacities. Noise enclosure minimizes sound levels. Compressor protections reduce operating speed and current draw to maintain operation while protecting the compressor.

Condenser Coil

The Spine Fin™ outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

SeaCoast Shield.

Low Ambient Cooling

As manufactured, this system has built in freeze protection that will allow cooling operation below 55°F but will reduce capacity or shut down completely to prevent operation under adverse conditions.

Comfort Control

This system must include a A/T HUI2360A200U thermostat and a TSYS2C60A2VVU system controller to operate and is Link communicating only.



Product Specifications

Heat Pump Models

OUTDOOR UNIT ^{(a) (b)}	5TWV0X24A1000A	5TWV0X24A1000B	5TWV0X36A1000A	5TWV0X36A1000B
POWER CONNS. – V/PH/HZ ^(c)	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	19	19	26	26
BR. CIR. PROT. RTG. – REC/MAX. (AMPS)	30	20/30	40	30/40
COMPRESSOR	ROTARY	ROTARY	SCROLL	SCROLL
NO. USED – NO. SPEEDS	1-VARIABLE	1-VARIABLE	1-VARIABLE	1-VARIABLE
MRC	17.8	17.8	18	18
FACTORY INSTALLED				
START COMPONENTS ^(d)	NA	NA	NA	NA
INSULATION/SOUND BLANKET	YES	YES	YES	YES
COMPRESSOR HEAT	YES	YES	YES	YES
OUTDOOR FAN				
DIA. (IN.) – NO. USED	23-1	23-1	27.5-1	27.5-1
TYPE DRIVE – NO. SPEEDS	DIRECT-VARIABLE	DIRECT-VARIABLE	DIRECT-VARIABLE	DIRECT-VARIABLE
NO. MOTORS – HP	1-1/3	1-1/3	1-1/2	1-1/2
MOTOR SPEED R.P.M.	200-1200	200-1200	200-1200	200-1200
VOLTS/PH/HZ	245-385/3/60	245-385/3/60	245-385/3/60	245-385/3/60
MOC	1.5	1.5	2.3	2.3
OUTDOOR COIL – TYPE	SPINE FIN	SPINE FIN	SPINE FIN	SPINE FIN
ROWS – F.P.I.	1-24	1-24	1-24	1-24
FACE AREA (SQ. FT.)	19.77	19.77	30.8	30.8
TUBE SIZE (IN.)	3/8	3/8	3/8	3/8
REFRIGERANT	R-454B	R-454B	R-454B	R-454B
LBS. – R-454B (O.D. UNIT) ^(e)	6 LB-8 OZ	6 LB-8 OZ	9 LB-8 OZ	9 LB-8 OZ
FACTORY SUPPLIED	YES	YES	YES	YES
RATED LINE SIZE – IN. O.D. GAS ^(f)	1/2	1/2	5/8	5/8
RATED LINE SIZE – IN. O.D. LIQ. ^(f)	5/16	5/16	5/16	5/16
CHARGING SPECIFICATIONS				
SUBCOOLING	10°	10°	8°	8°
DIMENSIONS				
CRATED (IN.)	50 x 30 x 33	50 x 30 x 33	55 x 35 x 38	55 x 35 x 38
WEIGHT				
SHIPPING (LBS.)	211	211	248	248
NET (LBS.)	192	192	222	222

^(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

^(b) Rated in accordance with AHRI standard 270/275.

^(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

^(d) NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

^(e) This value approximate. For more precise value see unit nameplate.

^(f) The maximum length of refrigerant lines from outdoor to indoor varies depending on application. See Installer's Guide Table 4 for allowable applications.



Product Specifications

Heat Pump Models

OUTDOOR UNIT ^{(a) (b)}	5TWV0X48A1000A	5TWV0X48A1000B	5TWV0X60A1000A	5TWV0X60A1000B
POWER CONNS. – V/PH/HZ ^(c)	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	32	32	43	40
BR. CIR. PROT. RTG. – REC/MAX. (AMPS)	50	35/50	60	40/60
COMPRESSOR	SCROLL	SCROLL	ROTARY	ROTARY
NO. USED – NO. SPEEDS	1-VARIABLE	1-VARIABLE	1-VARIABLE	1-VARIABLE
MRC	22.4	22.4	46.1	46.1
FACTORY INSTALLED				
START COMPONENTS ^(d)	NA	NA	NA	NA
INSULATION/SOUND BLANKET	YES	YES	YES	YES
COMPRESSOR HEAT	YES	YES	YES	YES
OUTDOOR FAN				
DIA. (IN.) – NO. USED	27.5-1	27.5-1	27.5-1	27.5-1
TYPE DRIVE – NO. SPEEDS	DIRECT-VARIABLE	DIRECT-VARIABLE	DIRECT-VARIABLE	DIRECT-VARIABLE
NO. MOTORS – HP	1-1/2	1-1/2	1-1/2	1-1/2
MOTOR SPEED R.P.M.	200-1200	200-1200	200-1200	200-1200
VOLTS/PH/HZ	245-385/3/60	245-385/3/60	245-385/3/60	245-385/3/60
MOC	2.3	2.3	2.3	2.3
OUTDOOR COIL – TYPE	SPINE FIN	SPINE FIN	SPINE FIN	SPINE FIN
ROWS – F.P.I.	2-24	2-24	2-24	2-24
FACE AREA (SQ. FT.)	30.8	30.8	30.8	30.8
TUBE SIZE (IN.)	3/8	3/8	3/8	3/8
REFRIGERANT	R-454B	R-454B	R-454B	R-454B
LBS. – R-454B (O.D. UNIT) ^(e)	11 LB-0 OZ	11 LB-0 OZ	11 LB-10 OZ	11 LB-10 OZ
FACTORY SUPPLIED	YES	YES	YES	YES
RATED LINE SIZE – IN. O.D. GAS ^(f)	7/8	7/8	3/4	3/4
RATED LINE SIZE – IN. O.D. LIQ. ^(f)	5/16	5/16	5/16	5/16
CHARGING SPECIFICATIONS				
SUBCOOLING	8°	8°	8°	8°
DIMENSIONS				
CRATED (IN.)	55 x 35 x 38	55 x 35 x 38	55 x 35 x 38	55 x 35 x 38
WEIGHT				
SHIPPING (LBS.)	268	268	306	306
NET (LBS.)	242	242	280	280

(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

(b) Rated in accordance with AHRI standard 270/275.

(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

(d) NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

(e) This value approximate. For more precise value see unit nameplate.

(f) The maximum length of refrigerant lines from outdoor to indoor varies depending on application. See Installer's Guide Table 4 for allowable applications.



Sound Data

Model	Mode	Speed	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power [dB]							
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
5TWV0X24A	Cool	Min	52	64.2	48.8	52.0	52.3	44.6	37.1	34.2	33.7
	Cool	Max	64	69.5	62.6	59.5	64.4	59.5	50.5	47.0	42.4
	Heat	Min	51	61.4	45.8	50.9	49.9	44.9	39.2	37.6	38.0
	Heat	Max	71	73.9	70.7	68.7	70.0	67.2	59.9	55.2	49.8
5TWV0X36A	Cool	Min	53	63.6	51.2	52.5	51.5	48.2	43.4	34.7	38.3
	Cool	Max	69	82.2	70.3	68.3	65.6	65.5	58.3	53.3	48.9
	Heat	Min	55	63.8	52.9	55.9	53.4	49.1	44.4	40.4	42.1
	Heat	Max	74	79.0	77.8	75.0	71.8	69.9	63.3	59.5	53.7
5TWV0X48A	Cool	Min	56	64.8	54.6	56.2	53.6	52.4	47.4	38.0	33.0
	Cool	Max	73	79.7	74.4	72.7	71.3	68.4	63.7	58.2	49.8
	Heat	Min	57	64.8	54.9	56.4	53.6	51.3	48.7	45.5	40.1
	Heat	Max	75	82.1	75.5	74.5	72.2	69.7	65.4	61.2	52.8
5TWV0X60A	Cool	Min	63	62.1	56.5	60.2	61.7	61.6	45.4	37.4	38.2
	Cool	Max	74	75.5	74.2	73.1	73.5	68.6	63.6	59.2	51.8
	Heat	Min	61	64.6	56.0	57.4	58.2	59.1	46.4	42.6	39.2
	Heat	Max	73	87.3	77.8	72.0	71.2	67.2	63.3	60.4	52.1

Note: Rated in accordance with AHRI Standard 270.



Optional Accessories:

Rubber Isolator Kit	BAYISLT101
Snow Leg — Base & Cap 4" High	BAYLEGS002
Snow Leg — 4" Extension	BAYLEGS003
SmartCharge™ Tool	BAYCAKT002
Extreme Condition Mounting Kit	BAYECMT023
Refrigerant Lineset ^(a)	

^(a) 25, 30, 35 and 50 foot linesets available. For a complete listing of lineset options available from equipment or supply stores, refer to the Trane Residential and Light Commercial Product Handbook.

General Data

AHRI STANDARD 210/240 RATING CONDITIONS

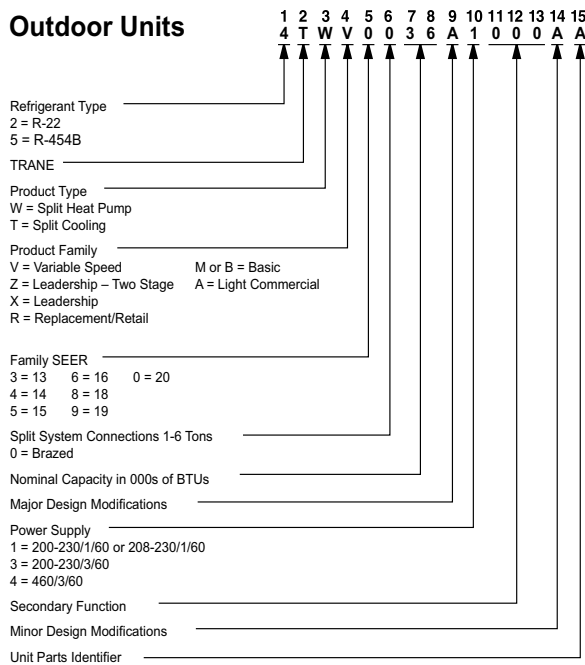
- Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB entering indoor coil.
- Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- Rated indoor airflow for heating is the same as for cooling.

AHRI STANDARD 270 RATING CONDITIONS — (Noise rating numbers are determined with the unit in cooling operation) Standard Noise Rating number is at 95°F outdoor air.

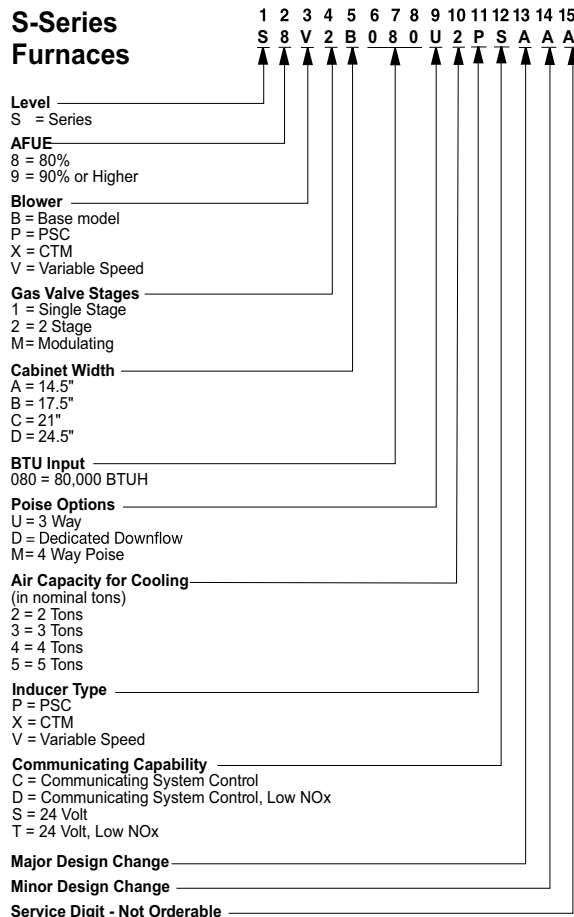


Model Nomenclature

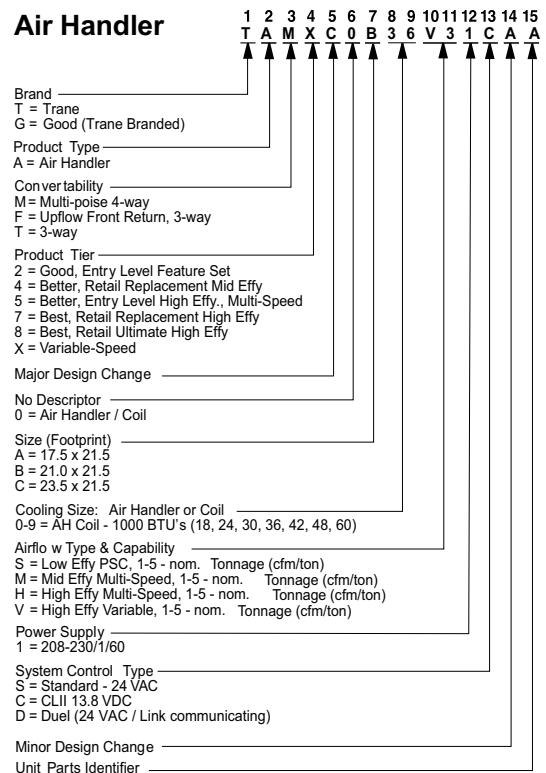
Outdoor Units



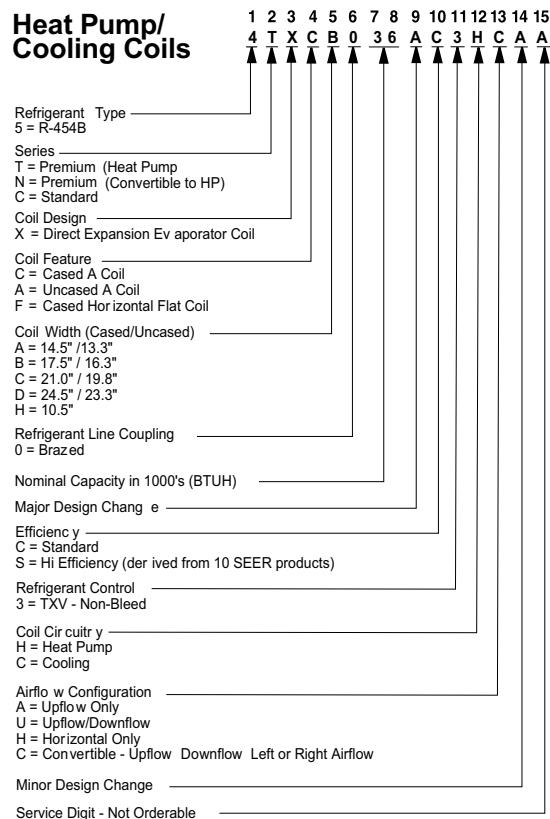
S-Series Furnaces

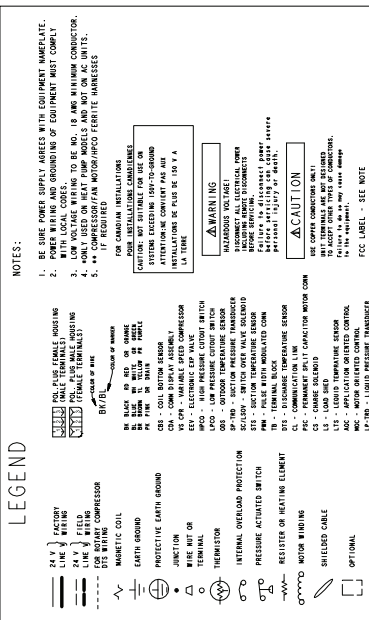


Air Handler



Heat Pump/ Cooling Coils

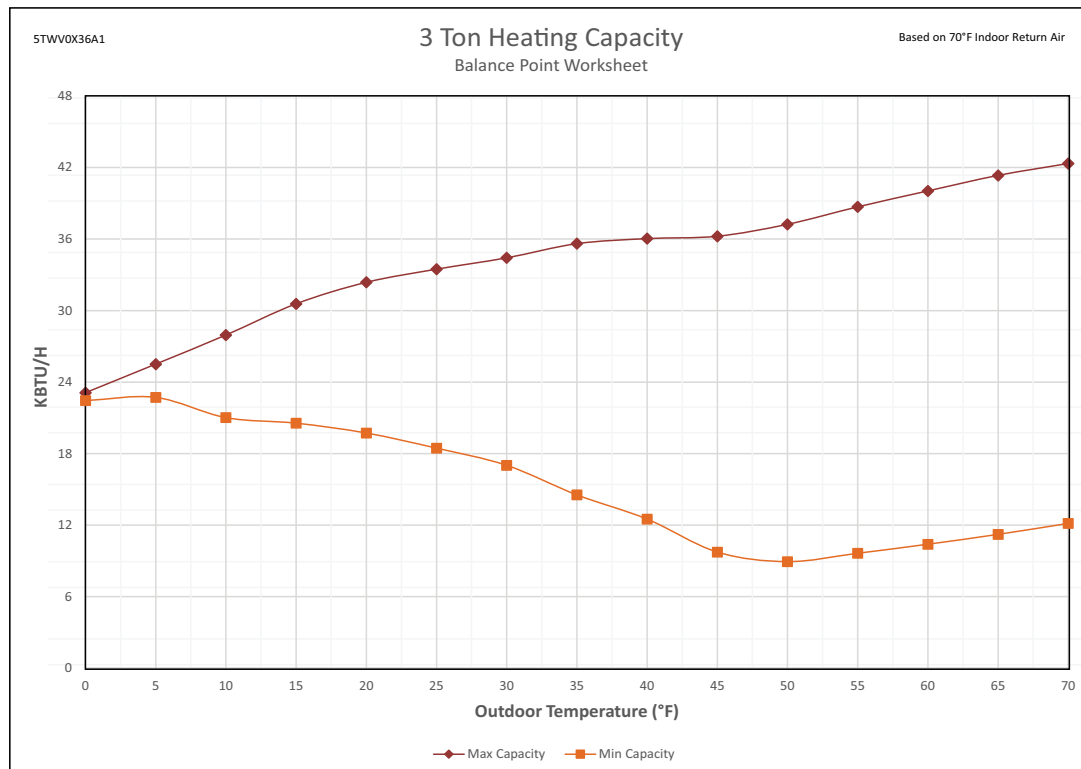
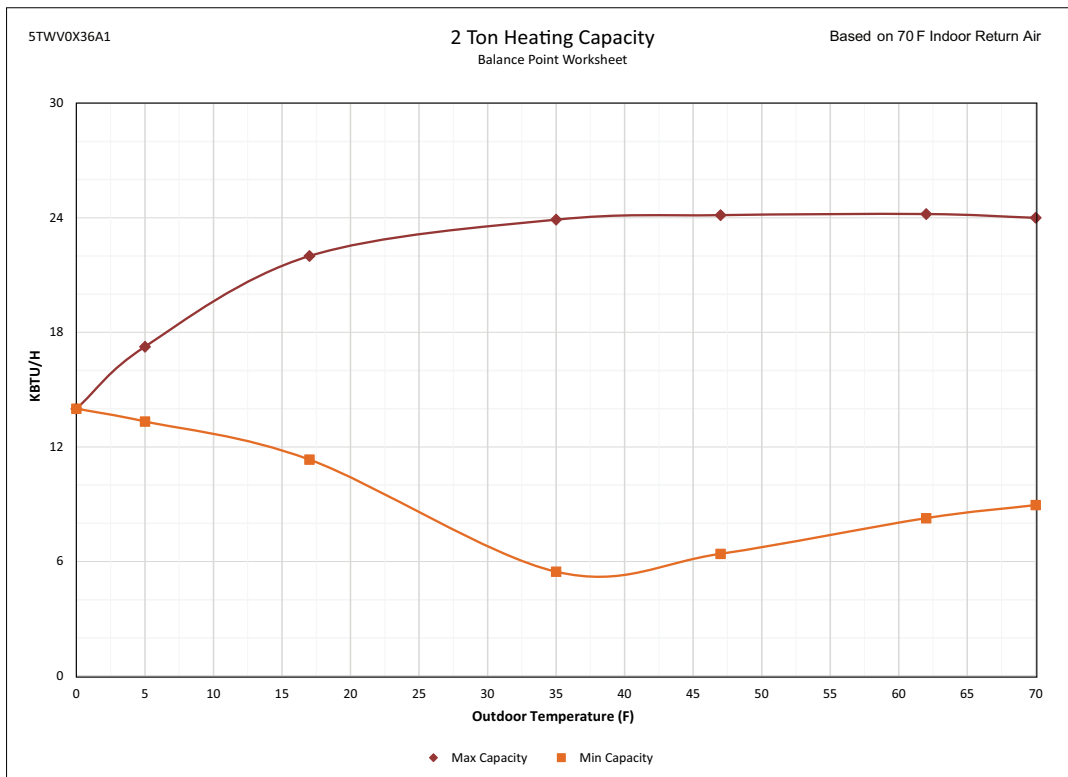




R-454B REFRIGERANT CHARGING CHART		
LIQUID TEMP (°F)	DESIGN SUBCOOLING (°F)	LIQUID GAGE PRESSURE (PSI)
8	9	101
10	11	121
12	13	141
14	15	161
16	17	181
18	19	201
20	21	221
22	23	241
24	25	261
26	27	281
28	29	301
30	31	321
32	33	341
34	35	361
36	37	381
38	39	401
40	41	421
42	43	441
44	45	461
46	47	481
48	49	501
50	51	521
52	53	541
54	55	561
56	57	581
58	59	601
60	61	621
62	63	641
64	65	661
66	67	681
68	69	701
70	71	721
72	73	741
74	75	761
76	77	781
78	79	801
80	81	821
82	83	841
84	85	861
86	87	881
88	89	901
90	91	921
92	93	941
94	95	961
96	97	981
98	99	1001

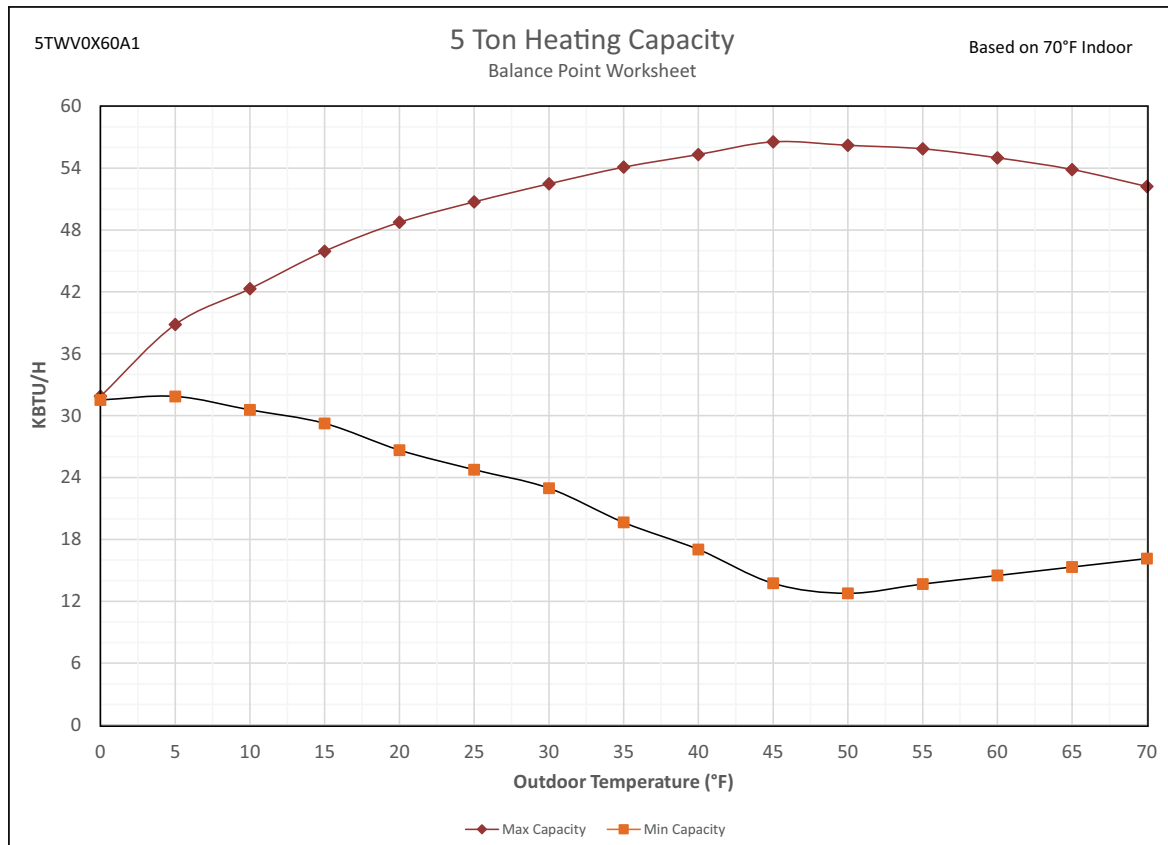
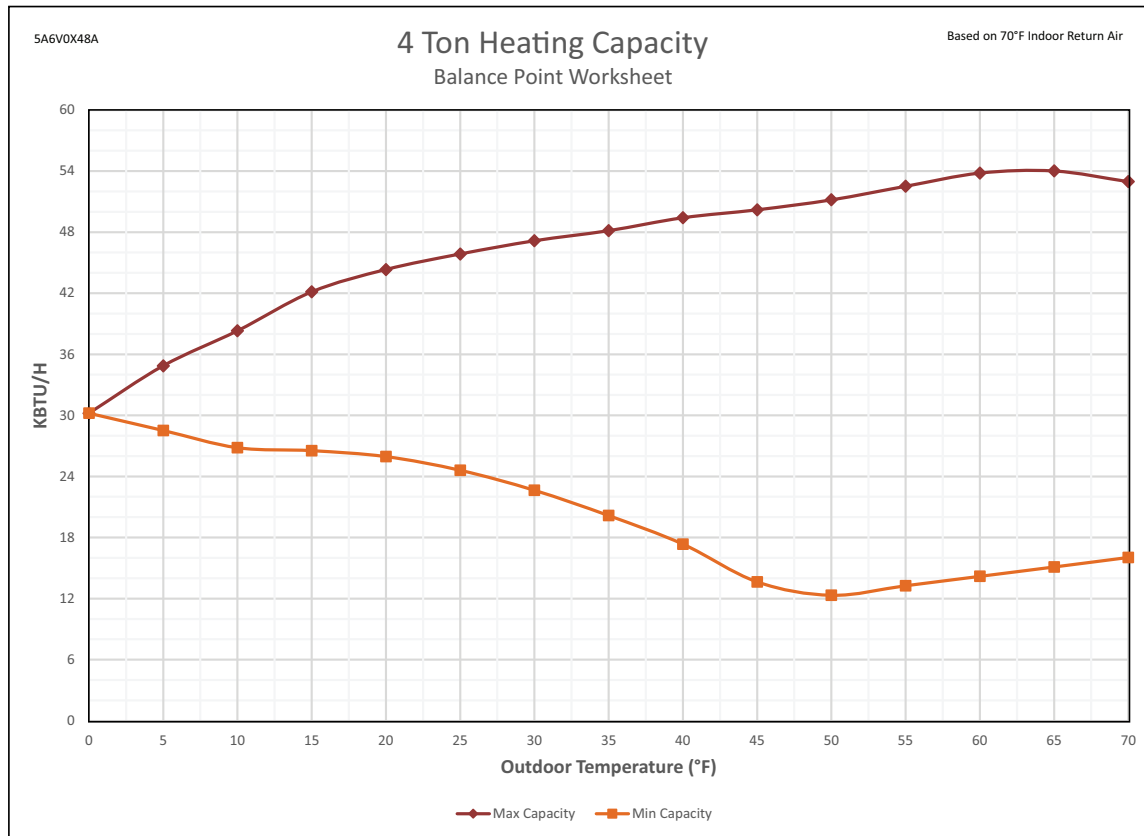


Balance Point Heat Capacity Worksheets





Balance Point Heat Capacity Worksheets





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