

# SPECIFICATIONS

## TITAN II SERIES

THE ULTIMATE COOLING MACHINE




Reference		Hz	Capacity		
			MBH	kW	Ton
AP.BDQTF40QH	Cooling	50/60	36.2	10.6	3.014
AP.BDQTF40QYQH	Heating	50/60	39.8	11.7	3.327
AP.BDQTF50QH	Cooling	50/60	43.8	12.8	3.640
AP.BDQTF50QYQH	Heating	50/60	49.6	14.5	4.123
AP.BDQTF68QH	Cooling	50/60	60.0	17.6	5.004
AP.BDQTF68QYQH	Heating	50/60	63.9	18.7	5.317
AP.BDQT81QH	Cooling	50/60	71.0	20.8	5.914
AP.BDQT81QYQH	Heating	50/60	78.2	22.9	6.512
AP.BDQT95QH	Cooling	50/60	80.2	23.5	6.682
AP.BDQT95QYQH	Heating	50/60	87.3	25.6	7.279
AP.BDQT108QH	Cooling	50/60	98.7	28.9	8.218
AP.BDQT108QYQH	Heating	50/60	104.4	30.6	8.701
AP.BDQTF125QH	Cooling	50/60	98.7	28.9	8.218
AP.BDQTF125QYQH	Heating	50/60	116.3	34.1	9.696
AP.BDQTF145QH	Cooling	50/60	128.3	37.6	10.691
AP.BDQTF145QYQH	Heating	50/60	133.3	39.1	11.118
AP.BDQTF160QH	Cooling	50/60	144.0	42.2	11.999
AP.BDQTF160QYQH	Heating	50/60	152.3	44.6	12.682
AP.BDQTF190QH	Cooling	50/60	168.3	49.3	14.018
AP.BDQTF190QYQH	Heating	50/60	165.1	48.4	13.762
AP.BDQTF220QH	Cooling	50/60	193.4	56.7	16.122
AP.BDQTF220QYQH	Heating	50/60	206.2	60.4	17.174
AP.BDQTF250QH	Cooling	50/60	223.8	65.6	18.653
AP.BDQTF250QYQH	Heating	50/60	234.9	68.8	19.563
AP.BDQTF290QH	Cooling	50/60	247.9	72.6	20.643
AP.BDQTF290QYQH	Heating	50/60	269.6	79.0	22.463
AP.BDQTF320QH	Cooling	50/60	290.4	85.1	24.198
AP.BDQTF320QYQH	Heating	50/60	310.6	91.0	25.875
AP.BDQTF380QH	Cooling	50/60	334.8	98.1	27.894
AP.BDQTF380QYQH	Heating	50/60	350.0	102.6	29.174
AP.BDQTF435QH	Cooling	50/60	388.1	113.7	32.330
AP.BDQTF435QYQH	Heating	50/60	404.6	118.5	33.695
AP.BDQTF480QH	Cooling	50/60	416.8	122.1	34.719
AP.BDQTF480QYQH	Heating	50/60	445.0	130.4	37.079
AP.BDQTF510QH	Cooling	50/60	445.8	130.6	37.135
AP.BDQTF510QYQH	Heating	50/60	477.6	139.9	39.780
AP.BDQTF570QH	Cooling	50/60	497.5	145.8	41.458
AP.BDQTF570QYQH	Heating	50/60	522.3	153.0	43.505
AP.BDQTF640QH	Cooling	50/60	561.5	164.5	46.775
AP.BDQTF640QYQH	Heating	50/60	580.6	170.1	48.367
AP.BDQTF700QH	Cooling	50/60	606.8	177.8	50.557
AP.BDQTF700QYQH	Heating	50/60	648.1	189.9	53.997
AP.BDQTF760QH	Cooling	50/60	663.7	194.5	55.305
AP.BDQTF760QYQH	Heating	50/60	681.1	199.6	56.755
AP.BDQTF800QH	Cooling	50/60	738.4	216.4	61.532
AP.BDQTF800QYQH	Heating	50/60	760.4	222.8	63.352
AP.BDQTF890QH	Cooling	50/60	820.9	240.5	68.385
AP.BDQTF890QYQH	Heating	50/60	838.1	245.6	69.835
AP.BDQTF960QH	Cooling	50/60	883.8	259.0	73.645
AP.BDQTF960QYQH	Heating	50/60	906.0	265.5	75.494
AP.BDQTF1020QH	Cooling	50/60	958.1	280.7	79.816
AP.BDQTF1020QYQH	Heating	50/60	933.9	273.6	77.797
AP.BDQTF1140QH	Cooling	50/60	1046.0	306.5	87.152
AP.BDQTF1140QYQH	Heating	50/60	1034.6	303.1	86.185
AP.BDQTF1340QH	Cooling	50/60	1250.1	366.3	104.156
AP.BDQTF1340QYQH	Heating	50/60	1197.3	350.8	99.748
AP.BDQTF1520QH	Cooling	50/60	1387.7	406.6	115.615
AP.BDQTF1520QYQH	Heating	50/60	1297.8	380.3	108.136

Notes: 1) Ratings Are Gross Capacities - For Net Capacities, Deduct Evaporator Blower Motor Heat.  
 2) Cooling Mode: At 80 °F (DB), 67 °F (WB) Air on Evaporator And 95°F Ambient Air Temperature on Condenser.  
 3) Heating Mode: At 70 °F (DB) Air on Evaporator And 45°F Ambient Air Temperature on Condenser.  
 4) Model AP.BDQTF-40Q & 50Q are not offered for installation in US region.

# SPECIFICATIONS



## TITAN SERIES

THE ULTIMATE COOLING MACHINE



### 50 Hz

Model	Comp. Qty	Condenser Coil			Condenser Fan Motor HP (Qty)	Evaporator Blower			Evaporator Coil		Air Filter	R410A Charge		Approx. Unit Weight lbs	Sound Pressure Level ±2 dB(A)
		Face Area ft <sup>2</sup>	Row/ FPI			Standard Size (Qty)	Mtr. Max HP (Qty)	Fan Min-Max Cfm	Face Area ft <sup>2</sup>	Row/ FPI	Size Inches (Qty)	Lbs Per System (Qty)			
			Cooling Only	Heat Pump								Cooling Only	Heat Pump		
AP.BDQTF40QH	1	7.2	2/16	3/12	1/5(1)	241-181 (1)	0.4(1)	920 1800	3.1	3/12	20x25x1(1)	5.6(1)	8.4(1)	600	62
AP.BDQTF50QH	1	8.3	2/14	3/12	1/5(1)	241-241 (1)	0.4(1)	1100 2200	3.7	3/12	20x25x1(1)	6.4(1)	9.7(1)	650	62
AP.BDQTF68QH	1	8.3	2/12	2/12	5/8(1)	270-270 (1)	1.0(1)	1400 2800	4.7	3/12	16x25x1(1) 20x25x1(1)	6.6(1)	6.9(1)	1100	66
AP.BDQT81QH	1	9.4	2/14	3/12	5/8(1)	270-270 (1)	1.0(1)	1550 3100	5.2	3/12	16x25x1(1) 20x25x1(1)	7.5(1)	11.1(1)	1200	66
AP.BDQT95QH	1	10.9	2/16	3/12	5/8(1)	270-270 (1)	1.0(1)	1550 3100	5.2	4/12	16x25x1(1) 20x25x1(1)	8.6(1)	13.2(1)	1300	66
AP.BDQT108QH	1	14.2	2/16	3/12	5/8(1)	270-270 (2)	1.0(2)	1850 3600	6.1	4/12	20x25x1(2)	11.0(1)	16.9(1)	1500	66
AP.BDQTF125QH	1	14.2	3/14	3/12	5/8(1)	270-270 (2)	1.0(2)	2000 3900	6.6	4/12	20x25x1(2)	16.0(1)	19.2(1)	1600	67
AP.BDQTF145QH	1	16.3	3/16	3/12	5/8(1)	270-270 (2)	1.0(2)	2600 5100	8.5	4/12	20x25x1(2)	18.6(1)	22.7(1)	1750	67
AP.BDQTF160QH	1	19.5	2/16	3/12	5/8(2)	15x15 (1)	4.0(1)	3500 7000	11.7	3/12	20x20x2(2) 20x25x2(2)	15.2(1)	23.0(1)	1700	69
AP.BDQTF190QH	1	19.5	3/12	3/12	5/8(2)	15x15 (1)	4.0(1)	3500 7000	11.7	4/12	20x20x2(2) 20x25x2(2)	22.3(1)	23.4(1)	1800	70
AP.BDQTF220QH	2	19.5	3/16	4/12	5/8(2)	15x15 (1)	5.5(1)	3700 7300	12.3	4/12	20x20x2(2) 20x25x2(2)	11.3(2)	15.5(2)	1900	69
AP.BDQTF250QH	2	27.4	3/16	4/12	5/8(2)	18x13 (1)	5.5(1)	4400 8700	14.6	4/12	25x25x2(4)	15.5(2)	21.4(2)	2100	71
AP.BDQTF290QH	2	27.4	4/16	5/12	5/8(2)	18x13 (1)	7.5(1)	5000 10000	16.7	4/12	25x25x2(4)	20.6(2)	26.5(2)	2400	71
AP.BDQTF320QH	2	37.5	3/14	4/12	5/8(3)	18x18 (1)	7.5(1)	5850 11600	19.4	4/12	16x25x2(2) 20x25x2(4)	21.2(2)	29.0(2)	2900	71
AP.BDQTF380QH	2	37.5	4/14	5/12	5/8(3)	18x18 (1)	10.0(1)	6700 13400	22.6	4/12	16x20x2(3) 20x20x2(6)	27.9(2)	35.9(2)	3000	72
AP.BDQTF435QH	3	40.0	4/16	5/12	5/8(3)	450x450 (1)	15.0(1)	7000 14000	23.3	4/12	16x20x2(3) 20x20x2(6)	20.0(3)	25.8(2)	3100	72
AP.BDQTF480QH	3	48.3	3/14	4/12	5/8(4)	500x500 (1)	10.0(1)	8900 17900	29.7	3/12	20x20x2(2) 20x25x2(5) 25x25x2(2)	18.3(3)	24.9(2)	4000	73
AP.BDQTF510QH	3	48.3	3/16	4/12	5/8(4)	500x500 (1)	15.0(1)	8900 17900	29.7	3/16	20x20x2(2) 20x25x2(5) 25x25x2(2)	17.9(2) 19.0(1)	23.2(2) 28.3(1)	4300	73
AP.BDQTF570QH	3	48.3	4/14	5/12	5/8(4)	500x500 (1)	20.0(1)	8900 17900	29.7	4/14	20x20x2(2) 20x25x2(5) 25x25x2(2)	24.1(3)	30.5(3)	4400	74
AP.BDQTF640QH	4	65.3	3/12	3/12	1 1/2(4)	560x560 (1)	15.0(1)	10000 20000	33.4	4/10	20x20x2(4) 20x25x2(8)	38.8(2)	40.7(2)	6500	79
AP.BDQTF700QH	4	65.3	3/14	4/12	1 1/2(4)	560x560 (1)	20.0(1)	10000 20000	33.4	4/14	20x20x2(4) 20x25x2(8)	36.3(1) 41.3(1)	48.8(1) 55.9(1)	6650	79
AP.BDQTF760QH	4	65.3	4/12	4/12	1 1/2(4)	560x560 (1)	20.0(1)	10400 20800	34.7	4/14	20x20x2(4) 20x25x2(8)	50.2(2)	52.6(2)	6750	79
AP.BDQTF800QH	5	94.0	3/16	4/12	1 1/2(4)	630x630 (1)	20.0(1)	13500 27000	45.1	4/14	20x20x2(4) 20x25x2(9) 25x25x2(2)	43.1(2) 24.0(1)	58.2(2) 32.6(1)	7000	79
AP.BDQTF890QH	5	94.0	4/14	5/12	1 1/2(4)	630x630 (1)	20.0(1)	14000 28000	46.9	4/14	20x20x2(4) 20x25x2(9) 25x25x2(2)	53.6(1) 59.7(1) 29.5(1)	65.4(1) 77.8(1) 40.3(1)	7100	79
AP.BDQTF960QH	6	94.0	4/16	5/12	1 1/2(4)	630x630 (1)	25.0(1)	14500 29000	48.6	4/14	20x20x2(4) 20x25x2(9) 25x25x2(2)	48.0(3)	61.6(3)	7250	79
AP.BDQTF1020QH	6	123.0	3/16	4/12	1 1/2(6)	710x710 (1)	25.0(1)	16600 33300	55.6	4/12	20x20x2(12) 20x25x2(8)	43.0(2) 53.2(1)	59.4(2) 74.8(1)	8350	81
AP.BDQTF1140QH	6	123.0	4/14	5/12	1 1/2(6)	710x710 (1)	25.0(1)	19000 38300	63.9	4/12	20x25x2(20)	62.5(3)	80.1(3)	9400	81
AP.BDQTF1340QH	8	129.0	4/16	5/12	1 1/2(6)	800x800 (1)	30.0(1)	21600 43300	72.2	4/12	20x20x2(8) 20x25x2(16)	46.9(3) 60.2(1)	63.6(3) 66.0(1)	10400	81
AP.BDQTF1520QH	8	129.0	4/16	5/12	1 1/2(6)	800x800 (1)	40.0(1)	21600 43300	72.2	5/12	20x20x2(8) 20x25x2(16)	51.1(4)	65.1(1)	11000	82

- Notes: 1) Evaporator blower motor for 40Q to 145Q is 220/240-1-50Hz and direct drive.  
 2) Condenser fan motors voltage is 220/240-1-50Hz for model 40Q to 50Q.  
 3) Sound Pressure Level is calculated based on nominal airflow at external static pressure of 0.5" WG (Model 40-145) / 1.5 WG (Model 160-1520), 3m (9.8ft) distance away from unit at free field. Unit supply and return are assumed to be entirely insulated. The actual sound at field could be affected by the supply and return duct break out noise.  
 4) Minimum-maximum voltage is 380V to 440V.

# SPECIFICATIONS

# TITAN II SERIES



## 60 Hz

THE ULTIMATE COOLING MACHINE

Model	Comp.	Condenser Coil			Condenser Fan Motor HP (Qty)	Evaporator Blower			Evaporator Coil		Air Filter	R410A Charge		Approx. Unit Weight lbs	Sound Pressure Level ±2 dB(A)
	Qty	Face Area ft <sup>2</sup>	Row/ FPI			Standard Size (Qty)	Mtr. Max HP	Fan Min-Max Cfm	Face Area ft <sup>2</sup>	Row/ FPI	Size Inches (Qty)	Lbs Per System (Qty)			
			Cooling Only	Heat Pump								Cooling Only	Heat Pump		
AP.6BDQTF40QH	1	7.2	2/16	3/12	1/5 (1)	DD9/9 (1)	0.6(1)	920 1800	3.1	3/12	20x25x1 (1)	3.7(1)	5.5(1)	600	62
AP.6BDQTF50QH	1	8.3	2/14	3/12	1/5 (1)	DD9/9 (1)	1.0(1)	1100 2200	3.7	3/12	20x25x1 (1)	5.6(1)	8.4(1)	650	62
AP.6BDQTF68QH	1	8.3	2/12	2/12	5/8 (1)	DD9/9 (1)	1.0(1)	1400 2800	4.7	3/12	16x25x1 (1) 20x25x1 (1)	6.4(1)	9.7(1)	1100	66
AP.6BDQT81QH	1	9.4	2/14	3/12	5/8 (1)	DD9/9 (2)	0.6(2)	1550 3100	5.2	3/12	16x25x1 (1) 20x25x1 (1)	6.6(1)	6.9(1)	1200	66
AP.6BDQT95QH	1	10.9	2/16	3/12	5/8 (1)	DD9/9 (2)	0.6(2)	1550 3100	5.2	4/12	16x25x1(1) 20x25x1 (1)	7.5(1)	11.1(1)	1300	66
AP.6BDQT108QH	1	14.2	2/16	3/12	5/8 (1)	DD9/9 (2)	1.0(2)	1850 3600	6.1	4/12	20x25x1 (2)	8.6(1)	13.2(1)	1500	66
AP.6BDQTF125QH	1	14.2	3/14	3/12	5/8 (1)	DD9/9 (2)	1.0(2)	2000 3900	6.6	4/12	20x25x1 (2)	11.0(1)	16.9(1)	1600	67
AP.6BDQTF145QH	1	16.3	3/16	3/12	5/8 (1)	DD9/9 (2)	1.0(2)	2600 5100	8.5	4/12	20x25x1 (2)	16.0(1)	19.2(1)	1750	67
AP.6BDQTF160QH	1	19.5	2/16	3/12	5/8 (2)	15x15 (1)	4.0(1)	3500 7000	11.7	3/12	20x20x2 (2) 20x25x2 (2)	18.6(1)	22.7(1)	1700	69
AP.6BDQTF190QH	1	19.5	3/12	3/12	5/8 (2)	15x15 (1)	4.0(1)	3500 7000	11.7	4/12	20x20x2 (2) 20x25x2 (2)	15.2(1)	23.0(1)	1800	70
AP.6BDQTF220QH	1	19.5	3/16	4/12	5/8 (2)	15x15 (1)	5.5(1)	3700 7300	12.3	4/12	20x20x2 (2) 20x25x2 (2)	22.3(1)	23.4(1)	1900	69
AP.6BDQTF250QH	2	27.4	3/16	4/12	5/8 (2)	18x13 (1)	5.5(1)	4400 8700	14.6	4/12	25x25x2 (4)	11.3(2)	15.5(2)	2100	71
AP.6BDQTF290QH	2	27.4	4/16	5/12	5/8 (2)	18x13 (1)	7.5(1)	5000 10000	16.7	4/12	25x25x2 (4)	15.5(2)	21.4(2)	2400	71
AP.6BDQTF320QH	2	37.5	3/14	4/12	5/8 (3)	18x18 (1)	7.5(1)	5850 11600	19.4	4/12	16x25x2 (2) 20x25x2(4)	20.6(2)	26.5(2)	2900	71
AP.6BDQTF380QH	2	37.5	4/14	5/12	5/8 (3)	18x18 (1)	10.0(1)	6700 13400	22.6	4/12	16x20x2 (3) 20x20x2 (6)	21.2(2)	29.0(2)	3000	72
AP.6BDQTF435QH	2	40.0	4/16	5/12	5/8 (3)	450x450 (1)	15.0(1)	7000 14000	23.3	4/12	16x20x2 (3) 20x20x2 (6)	27.9(2)	35.9(2)	3100	72
AP.6BDQTF480QH	3	48.3	3/14	4/12	5/8 (4)	500x500 (1)	10.0(1)	8900 17900	29.7	3/12	20x20x2 (2) 20x25x2 (5) 25x25x2 (2)	20.0(3)	25.8(3)	4000	73
AP.6BDQTF510QH	3	48.3	3/16	4/12	5/8 (4)	500x500 (1)	15.0(1)	8900 17900	29.7	3/16	20x20x2 (2) 20x25x2 (5) 25x25x2 (2)	18.3(3)	24.9(3)	4300	73
AP.6BDQTF570QH	3	48.3	4/16	5/12	5/8 (4)	500x500 (1)	20.0(1)	8900 17900	29.7	4/14	20x20x2 (2) 20x25x2 (5) 25x25x2 (2)	17.9(2) 19.0(1)	23.2(2) 28.3(1)	4400	74
AP.6BDQTF640QH	3	65.3	3/12	3/12	1 1/2 (4)	560x560 (1)	15.0(1)	10000 20000	33.4	4/10	20x20x2 (4) 20x25x2 (8)	24.1(3)	30.5(3)	6500	79
AP.6BDQTF700QH	4	65.3	3/14	4/12	1 1/2 (4)	560x560 (1)	20.0(1)	10000 20000	33.4	4/14	20x20x2 (4) 20x25x2 (8)	38.8(2)	40.7(2)	6650	79
AP.6BDQTF760QH	4	65.3	4/12	4/12	1 1/2 (4)	560x560 (1)	20.0(1)	10400 20800	34.7	4/14	20x20x2 (4) 20x25x2 (8)	36.3(1) 41.3(1)	48.8(1) 55.9(1)	6750	79
AP.6BDQTF800QH	4	94.0	3/16	4/12	1 1/2 (4)	630x630 (1)	20.0(1)	13500 27000	45.1	4/14	20x20x2 (4) 20x25x2 (9) 25x25x2 (2)	50.2(2)	52.6(2)	7000	79
AP.6BDQTF890QH	5	94.0	4/14	5/12	1 1/2 (4)	630x630 (1)	20.0(1)	14000 28000	46.9	4/14	20x20x2 (4) 20x25x2 (9) 25x25x2 (2)	43.1(2) 24.0(1)	58.2(2) 32.6(1)	7100	79
AP.6BDQTF960QH	6	94.0	4/16	5/12	1 1/2 (4)	630x630 (1)	25.0(1)	14500 29000	48.6	4/14	20x20x2 (4) 20x25x2 (9) 25x25x2 (2)	53.6(1) 59.7(1) 29.5(1)	65.4(1) 77.8(1) 40.3(1)	7250	79
AP.6BDQTF1020QH	6	123.0	3/16	4/12	1 1/2 (6)	710x710 (1)	25.0(1)	16600 33300	55.6	4/12	20x20x2(12) 20x25x2 (8)	48.0(3)	61.6(3)	8350	81
AP.6BDQTF1140QH	6	123.0	4/14	5/12	1 1/2 (6)	710x710	25.0(1)	19000 38300	63.9	4/12	20x25x2(20)	43.0(2) 53.2(1)	59.4(2) 74.8(1)	9400	81
AP.6BDQTF1340QH	8	129.0	4/16	5/12	1 1/2 (6)	800x800 (1)	30.0(1)	21600 43300	72.2	4/12	20x20x2 (8) 20x25x2(16)	46.9(3) 43.0(1)	63.6(3) 59.4(1)	10400	81
AP.6BDQTF1520QH	8	129.0	4/16	5/12	1 1/2 (6)	800x800 (1)	40.0(1)	21600 43300	72.2	5/12	20x20x2 (8) 20x25x2(16)	46.9(3) 60.2(1)	63.6(3) 66.0(1)	11000	82

- Notes: 1) Evaporator Blower motor for 6AP.BDQSF40Q to 6AP.BDQSF145Q is 220/240-1-60Hz and direct drive.  
 2) Condenser fan motors voltage is 220/240-1-60Hz for model 40P to 50P.  
 3) Sound Pressure Level is calculated based on nominal airflow at external static pressure of 0.5" WG (Model 40-145) / 1.5 WG (Model 160-1520), 3m (9.8ft) distance away from unit at free field. Unit supply and return are assumed to be entirely insulated. The actual sound at field could be affected by the supply and return duct break out noise.  
 4) Model AP.BDQTF-40Q & 50Q are not offered for installation in US region.