



PERFORMANCE DATA

NWC15 Water Cooled Chiller

Table 1-1 Performance Data - NWC15 Water Cooled Chiller

		Entering Condenser Water Temperature																			
		65						70						75							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	17.1	9.2	21.5	40.9	12.1	51.2	10.8	16.6	9.8	19.7	39.8	11.5	49.7	10.1	16.1	10.4	18.1	38.7	10.9	48.3	9.5
44	17.7	9.2	22.2	42.4	12.9	53.1	11.5	17.2	9.8	20.4	41.2	12.3	51.5	10.8	16.7	10.4	18.7	40.1	11.7	50.1	10.1
46	18.3	9.3	23.0	44.0	13.8	55.0	12.3	17.8	9.8	21.1	42.8	13.1	53.5	11.5	17.3	10.4	19.4	41.6	12.5	52.0	10.8
48	19.0	9.3	23.8	45.7	14.8	57.1	13.1	18.5	9.9	21.8	44.4	14.0	55.4	12.3	18.0	10.5	20.0	43.1	13.3	53.9	11.5

		Entering Condenser Water Temperature																			
		80						85						90							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	15.7	11.0	16.6	37.6	10.4	47.0	8.9	15.2	11.6	15.3	36.5	9.9	45.6	8.3	14.7	12.3	14.0	35.4	9.3	44.2	7.8
44	16.2	11.0	17.2	39.0	11.1	48.7	9.5	15.8	11.7	15.8	37.9	10.5	47.3	8.9	15.3	12.3	14.5	36.7	10.0	45.9	8.3
46	16.8	11.0	17.8	40.4	11.8	50.5	10.1	16.4	11.7	16.4	39.2	11.2	49.0	9.5	15.9	12.4	15.1	38.1	10.6	47.6	8.9
48	17.5	11.1	18.4	41.9	12.6	52.4	10.8	16.9	11.7	16.9	40.6	12.0	50.8	10.1	16.5	12.4	15.6	39.5	11.4	49.4	9.5

		Entering Condenser Water Temperature																			
		95						100						105							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	14.3	13.0	12.9	34.3	8.8	42.9	7.3	13.8	13.8	11.8	33.2	8.3	41.4	6.8	13.3	14.7	10.7	32.0	7.8	40.0	6.3
44	14.8	13.1	13.3	35.6	9.4	44.5	7.8	14.3	13.8	12.2	34.4	8.9	43.0	7.2	13.8	14.7	11.1	33.2	8.3	41.5	6.7
46	15.4	13.1	13.8	36.9	10.1	46.1	8.3	14.9	13.8	12.6	35.7	9.5	44.6	7.7	14.3	14.7	11.5	34.4	8.9	43.0	7.2
48	15.9	13.1	14.3	38.3	10.7	47.8	8.8	15.4	13.9	13.1	37.0	10.1	46.3	8.2	14.9	14.7	11.9	35.7	9.5	44.7	7.7

Notes:

1. Rated in accordance with ARI Standard 550/590-2010 with
 - Water-side fouling factor allowance of 0.0001 hr-ft²-°F/BTU for evaporator and 0.00025 hr-ft²-°F/BTU for condenser.
 - Test tolerance at full load for capacity, input power and EER = ± 5%.
2. Ratings are based on a 10°F temperature drop in evaporator and a 10°F temperature rise in condenser.
3. Flow = Water-side flowrate in gpm.
4. 100% of the condenser flow will pass through single condensers on NWC15, 20, 26 and 30 models.
5. 50% of the condenser flow will pass through each of two condensers on NWC40, 52, 60 and 70 models.
6. DP = Water-side pressure drop in feet of water.
7. kW = Power input for compressors only.
8. EER = Energy Efficiency Ratio (cooling capacity in BTUH divided by total power input in watts).
9. Interpolation between points is permissible. Extrapolation is not permitted.
10. Consult NAPPS for performance at special conditions.



PERFORMANCE DATA

NWC20 Water Cooled Chiller

Table 2-1 Performance Data - NWC20 Water Cooled Chiller

		Entering Condenser Water Temperature											
		65				70				75			
Evap		Evap		Cond		Evap		Cond		Evap		Cond	
LWT	Tons kW EER	Flow DP	Flow DP	Flow DP	Flow DP	Tons kW EER	Flow DP	Flow DP	Flow DP	Flow DP	Tons kW EER	Flow DP	Flow DP
42	22.8 13.0 20.6	54.5 13.5	63.7 15.9	22.3 13.4 19.5	53.4 13.0	62.9 15.4	21.8 14.0 18.4	52.2 12.4	62.2 14.9				
44	23.5 13.0 21.2	56.3 14.3	65.4 16.7	23.1 13.5 20.1	55.2 13.8	64.7 16.2	22.6 14.0 18.9	54.0 13.2	64.0 15.7				
46	24.3 13.1 21.8	58.1 15.2	67.2 17.6	23.8 13.5 20.7	57.0 14.6	66.6 17.0	23.3 14.1 19.5	55.8 14.1	65.8 16.5				
48	25.0 13.1 22.4	59.9 16.1	69.1 18.5	24.6 13.6 21.3	58.8 15.5	68.4 17.9	24.1 14.1 20.1	57.7 15.0	67.7 17.4				

		Entering Condenser Water Temperature											
		80				85				90			
Evap		Evap		Cond		Evap		Cond		Evap		Cond	
LWT	Tons kW EER	Flow DP	Flow DP	Flow DP	Flow DP	Tons kW EER	Flow DP	Flow DP	Flow DP	Flow DP	Tons kW EER	Flow DP	Flow DP
42	21.3 14.6 17.2	50.9 11.9	61.4 14.4	20.7 15.4 15.9	49.5 11.3	60.6 13.9	20.1 16.2 14.6	48.1 10.7	59.7 13.4				
44	22.0 14.7 17.7	52.7 12.6	63.2 15.1	21.5 15.4 16.4	51.3 12.0	62.4 14.6	20.8 16.3 15.1	49.8 11.4	61.5 14.1				
46	22.8 14.7 18.2	54.6 13.5	65.1 16.0	22.2 15.5 16.9	53.1 12.8	64.2 15.4	21.6 16.3 15.6	51.6 12.2	63.3 14.9				
48	23.6 14.8 18.8	56.4 14.4	66.9 16.8	23.0 15.5 17.4	55.0 13.7	66.1 16.2	22.3 16.4 16.1	53.5 13.0	65.2 15.7				

		Entering Condenser Water Temperature											
		95				100				105			
Evap		Evap		Cond		Evap		Cond		Evap		Cond	
LWT	Tons kW EER	Flow DP	Flow DP	Flow DP	Flow DP	Tons kW EER	Flow DP	Flow DP	Flow DP	Flow DP	Tons kW EER	Flow DP	Flow DP
42	19.4 17.2 13.4	46.5 10.0	58.8 12.9	18.8 18.2 12.2	44.9 9.4	57.9 12.4	18.0 19.4 11.0	43.1 8.7	57.0 11.9				
44	20.2 17.2 13.8	48.2 10.7	60.6 13.6	19.5 18.3 12.6	46.5 10.0	59.6 13.1	18.7 19.4 11.4	44.8 9.3	58.7 12.6				
46	20.9 17.3 14.3	50.0 11.4	62.4 14.3	20.2 18.3 13.0	48.3 10.7	61.4 13.8	19.4 19.4 11.8	46.5 10.0	60.4 13.3				
48	21.6 17.3 14.8	51.8 12.2	64.2 15.1	20.9 18.3 13.5	50.1 11.5	63.2 14.6	20.2 19.5 12.2	48.3 10.7	62.2 14.0				

Notes:

1. Rated in accordance with ARI Standard 550/590-2010 with
 - Water-side fouling factor allowance of 0.0001 hr-ft²-°F/BTU for evaporator and 0.00025 hr-ft²-°F/BTU for condenser.
 - Test tolerance at full load for capacity, input power and EER = ± 5%.
2. Ratings are based on a 10°F temperature drop in evaporator and a 10°F temperature rise in condenser.
3. Flow = Water-side flowrate in gpm.
4. 100% of the condenser flow will pass through single condensers on NWC15, 20, 26 and 30 models.
5. 50% of the condenser flow will pass through each of two condensers on NWC40, 52, 60 and 70 models.
6. DP = Water-side pressure drop in feet of water.
7. kW = Power input for compressors only.
8. EER = Energy Efficiency Ratio (cooling capacity in BTUH divided by total power input in watts).
9. Interpolation between points is permissible. Extrapolation is not permitted.
10. Consult NAPPS for performance at special conditions.



PERFORMANCE DATA

NWC26 Water Cooled Chiller

Table 3-1 Performance Data - NWC26 Water Cooled Chiller

		Entering Condenser Water Temperature																			
		65						70						75							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	28.4	16.5	20.3	68.0	14.4	79.6	4.5	27.7	17.3	18.9	66.2	13.7	78.5	4.3	27.0	18.2	17.5	64.5	13.1	77.5	4.2
44	29.5	16.6	20.9	70.4	15.4	82.1	4.8	28.7	17.4	19.4	68.6	14.7	81.0	4.6	28.0	18.3	18.0	66.9	14.0	79.9	4.4
46	30.5	16.8	21.5	73.0	16.5	84.8	5.0	29.8	17.6	20.0	71.2	15.8	83.6	4.8	29.0	18.4	18.6	69.3	15.0	82.5	4.7
48	31.6	16.9	22.1	75.7	17.7	87.6	5.3	30.8	17.7	20.6	73.8	16.9	86.3	5.1	30.0	18.6	19.1	71.9	16.0	85.1	4.9

		Entering Condenser Water Temperature																			
		80						85						90							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	26.3	19.1	16.2	62.8	12.4	76.5	4.0	25.6	20.2	15.0	61.1	11.8	75.5	3.9	24.8	21.2	13.8	59.3	11.1	74.5	3.7
44	27.2	19.3	16.7	65.1	13.3	78.8	4.2	26.5	20.3	15.4	63.3	12.6	77.7	4.1	25.7	21.4	14.2	61.4	11.9	76.7	3.9
46	28.2	19.4	17.2	67.4	14.2	81.3	4.5	27.4	20.4	15.9	65.6	13.5	80.2	4.3	26.6	21.5	14.7	63.7	12.7	79.0	4.2
48	29.2	19.5	17.7	69.9	15.2	83.7	4.7	28.4	20.5	16.4	68.0	14.4	82.6	4.6	27.5	21.6	15.1	65.9	13.6	81.4	4.4

		Entering Condenser Water Temperature																			
		95						100						105							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	24.0	22.4	12.7	57.4	10.5	73.5	3.6	23.2	23.6	11.6	55.4	9.8	72.4	3.5	22.4	25.0	10.6	53.5	9.2	71.3	3.4
44	24.9	22.5	13.1	59.5	11.2	75.6	3.8	24.0	23.7	12.0	57.5	10.5	74.5	3.7	23.2	25.1	11.0	55.4	9.8	73.3	3.5
46	25.8	22.6	13.5	61.7	12.0	77.9	4.0	24.9	23.8	12.4	59.6	11.3	76.7	3.9	24.0	25.2	11.3	57.4	10.5	75.4	3.7
48	26.7	22.7	13.9	63.9	12.8	80.2	4.2	25.8	24.0	12.8	61.8	12.0	78.9	4.1	24.9	25.3	11.7	59.5	11.2	77.6	3.9

Notes:

1. Rated in accordance with ARI Standard 550/590-2010 with
 - Water-side fouling factor allowance of 0.0001 hr-ft²-°F/BTU for evaporator and 0.00025 hr-ft²-°F/BTU for condenser.
 - Test tolerance at full load for capacity, input power and EER = ± 5%.
2. Ratings are based on a 10°F temperature drop in evaporator and a 10°F temperature rise in condenser.
3. Flow = Water-side flowrate in gpm.
4. 100% of the condenser flow will pass through single condensers on NWC15, 20, 26 and 30 models.
5. 50% of the condenser flow will pass through each of two condensers on NWC40, 52, 60 and 70 models.
6. DP = Water-side pressure drop in feet of water.
7. kW = Power input for compressors only.
8. EER = Energy Efficiency Ratio (cooling capacity in BTUH divided by total power input in watts).
9. Interpolation between points is permissible. Extrapolation is not permitted.
10. Consult NAPPS for performance at special conditions.



PERFORMANCE DATA

NWC30 Water Cooled Chiller

Table 4-1 Performance Data - NWC30 Water Cooled Chiller

Entering Condenser Water Temperature																							
		65						70						75									
Evap		Evap			Cond					Evap			Cond					Evap			Cond		
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP		
42	32.6	19.9	19.4	77.9	11.5	92.0	5.8	32.0	20.8	18.2	76.4	11.1	91.1	5.7	31.2	21.7	17.0	74.7	10.7	90.1	5.5		
44	33.8	20.1	19.8	80.7	12.3	94.9	6.1	33.1	21.0	18.7	79.1	11.8	93.9	6.0	32.3	21.9	17.5	77.3	11.4	92.9	5.8		
46	34.9	20.3	20.3	83.5	13.1	97.8	6.5	34.2	21.2	19.1	81.9	12.6	96.8	6.3	33.5	22.1	17.9	80.0	12.1	95.7	6.1		
48	36.1	20.5	20.8	86.5	14.0	100.8	6.9	35.4	21.4	19.6	84.7	13.5	99.8	6.6	34.6	22.3	18.4	82.8	12.9	98.6	6.4		

Entering Condenser Water Temperature																							
		80						85						90									
Evap		Evap			Cond					Evap			Cond					Evap			Cond		
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP		
42	30.5	22.7	15.9	72.8	10.2	89.0	5.3	29.7	23.9	14.7	70.9	9.7	88.0	5.1	28.8	25.1	13.6	68.9	9.2	86.9	4.9		
44	31.5	22.9	16.3	75.4	10.8	91.7	5.6	30.7	24.0	15.2	73.5	10.3	90.6	5.4	29.8	25.2	14.0	71.4	9.8	89.4	5.2		
46	32.6	23.1	16.7	78.1	11.6	94.5	5.9	31.8	24.2	15.6	76.1	11.0	93.4	5.7	30.9	25.4	14.4	73.9	10.5	92.1	5.5		
48	33.8	23.3	17.2	80.9	12.3	97.4	6.2	32.9	24.4	16.0	78.7	11.8	96.1	6.0	32.0	25.6	14.8	76.6	11.2	94.9	5.8		

Entering Condenser Water Temperature																							
		95						100						105									
Evap		Evap			Cond					Evap			Cond					Evap			Cond		
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP		
42	27.9	26.4	12.6	66.8	8.7	85.7	4.8	27.0	27.8	11.5	64.6	8.2	84.5	4.6	26.0	29.3	10.5	62.1	7.6	83.1	4.4		
44	28.9	26.5	12.9	69.2	9.2	88.2	5.0	28.0	27.9	11.9	66.9	8.7	86.9	4.8	26.9	29.4	10.9	64.4	8.1	85.5	4.6		
46	30.0	26.7	13.3	71.7	9.9	90.8	5.3	29.0	28.1	12.2	69.3	9.3	89.4	5.1	27.9	29.6	11.2	66.8	8.7	87.9	4.9		
48	31.0	26.9	13.7	74.3	10.6	93.5	5.6	30.0	28.3	12.6	71.8	9.9	92.0	5.3	28.9	29.8	11.5	69.2	9.3	90.4	5.1		

Notes:

1. Rated in accordance with ARI Standard 550/590-2010 with
 - Water-side fouling factor allowance of 0.0001 hr-ft²-°F/BTU for evaporator and 0.00025 hr-ft²-°F/BTU for condenser.
 - Test tolerance at full load for capacity, input power and EER = ± 5%.
2. Ratings are based on a 10°F temperature drop in evaporator and a 10°F temperature rise in condenser.
3. Flow = Water-side flowrate in gpm.
4. 100% of the condenser flow will pass through single condensers on NWC15, 20, 26 and 30 models.
5. 50% of the condenser flow will pass through each of two condensers on NWC40, 52, 60 and 70 models.
6. DP = Water-side pressure drop in feet of water.
7. kW = Power input for compressors only.
8. EER = Energy Efficiency Ratio (cooling capacity in BTUH divided by total power input in watts).
9. Interpolation between points is permissible. Extrapolation is not permitted.
10. Consult NAPPS for performance at special conditions.



PERFORMANCE DATA

NWC40 Water Cooled Chiller

Table 5-1 Performance Data - NWC40 Water Cooled Chiller

		Entering Condenser Water Temperature																			
		65						70						75							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	45.6	25.9	20.9	109.0	9.9	127.3	15.9	44.7	26.8	19.8	106.9	9.5	126.0	15.4	43.8	27.9	18.6	104.6	9.2	124.6	14.9
44	47.1	26.0	21.5	112.7	10.5	131.0	16.8	46.2	26.9	20.4	110.6	10.1	129.7	16.2	45.3	28.0	19.2	108.3	9.7	128.3	15.7
46	48.7	26.1	22.1	116.4	11.1	134.8	17.6	47.8	27.0	21.0	114.4	10.8	133.5	17.1	46.9	28.1	19.8	112.1	10.4	132.2	16.6
48	50.2	26.2	22.8	120.3	11.8	138.7	18.6	49.4	27.1	21.6	118.3	11.4	137.4	18.0	48.5	28.2	20.4	116.0	11.0	136.1	17.5

		Entering Condenser Water Temperature																			
		80						85						90							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	42.7	29.2	17.4	102.2	8.8	123.1	14.4	41.6	30.7	16.1	99.4	8.3	121.4	13.9	40.3	32.4	14.8	96.4	7.9	119.7	13.4
44	44.3	29.3	17.9	105.9	9.3	126.8	15.3	43.1	30.8	16.6	103.0	8.9	125.1	14.7	41.8	32.5	15.3	100.1	8.5	123.4	14.2
46	45.8	29.4	18.5	109.6	10.0	130.7	16.1	44.7	30.9	17.2	106.8	9.5	129.0	15.6	43.4	32.6	15.8	103.8	9.0	127.3	15.0
48	47.4	29.5	19.1	113.6	10.6	134.6	17.0	46.3	31.0	17.7	110.7	10.1	132.9	16.4	45.0	32.7	16.4	107.7	9.6	131.2	15.9

		Entering Condenser Water Temperature																			
		95						100						105							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	39.0	34.3	13.5	93.3	7.5	117.9	12.9	37.7	36.4	12.3	90.0	7.0	116.2	12.5	36.2	38.7	11.1	86.6	6.5	114.3	12.0
44	40.5	34.4	14.0	96.8	8.0	121.6	13.7	39.1	36.5	12.8	93.5	7.5	119.7	13.2	37.6	38.8	11.5	89.9	7.0	117.7	12.7
46	42.0	34.5	14.5	100.6	8.5	125.4	14.5	40.6	36.6	13.2	97.1	8.0	123.3	13.9	39.1	38.9	12.0	93.5	7.5	121.4	14.5
48	43.6	34.6	15.0	104.3	9.1	129.2	15.3	42.1	36.7	13.7	100.8	8.6	127.1	14.7	40.6	39.0	12.4	97.2	8.0	125.1	14.2

Notes:

1. Rated in accordance with ARI Standard 550/590-2010 with
 - Water-side fouling factor allowance of 0.0001 hr-ft²-°F/BTU for evaporator and 0.00025 hr-ft²-°F/BTU for condenser.
 - Test tolerance at full load for capacity, input power and EER = ± 5%.
2. Ratings are based on a 10°F temperature drop in evaporator and a 10°F temperature rise in condenser.
3. Flow = Water-side flowrate in gpm.
4. 100% of the condenser flow will pass through single condensers on NWC15, 20, 26 and 30 models.
5. 50% of the condenser flow will pass through each of two condensers on NWC40, 52, 60 and 70 models.
6. DP = Water-side pressure drop in feet of water.
7. kW = Power input for compressors only.
8. EER = Energy Efficiency Ratio (cooling capacity in BTUH divided by total power input in watts).
9. Interpolation between points is permissible. Extrapolation is not permitted.
10. Consult NAPPS for performance at special conditions.



PERFORMANCE DATA

NWC52 Water Cooled Chiller

Table 6-1 Performance Data - NWC52 Water Cooled Chiller

		Entering Condenser Water Temperature																			
		65						70						75							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	56.7	32.9	20.5	135.6	11.5	158.9	4.5	55.3	34.6	19.0	132.2	11.0	156.8	4.3	53.9	36.4	17.7	128.9	10.5	154.8	4.2
44	58.9	33.2	21.1	140.7	12.3	164.1	4.7	57.4	34.8	19.6	137.2	11.7	161.9	4.6	55.9	36.6	18.2	133.8	11.2	159.9	4.4
46	61.1	33.5	21.7	146.1	13.2	169.7	5.0	59.6	35.1	20.2	142.6	12.6	167.4	4.8	58.1	36.9	18.8	138.9	12.0	165.1	4.7
48	63.4	33.8	22.3	151.7	14.1	175.4	5.3	61.8	35.4	20.8	148.0	13.5	173.0	5.1	60.3	37.1	19.3	144.2	12.9	170.6	5.0

		Entering Condenser Water Temperature																			
		80						85						90							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	52.5	38.3	16.3	125.5	10.0	152.8	4.0	51.1	40.3	15.1	122.1	9.5	150.9	3.9	49.6	42.5	13.9	118.5	9.0	148.9	3.7
44	54.5	38.5	16.8	130.2	10.7	157.7	4.2	53.0	40.5	15.6	126.6	10.1	155.6	4.1	51.4	42.7	14.4	122.9	9.6	153.5	3.9
46	56.5	38.7	17.4	135.2	11.4	162.8	4.5	55.0	40.8	16.1	131.6	10.9	160.7	4.3	53.3	42.9	14.8	127.6	10.3	158.4	4.2
48	58.6	39.0	17.9	140.3	12.2	168.0	4.8	57.0	41.0	16.6	136.6	11.6	165.8	4.6	55.3	43.1	15.3	132.4	11.0	163.3	4.4

		Entering Condenser Water Temperature																			
		95						100						105							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	48.1	44.8	12.8	115.0	8.5	147.1	3.6	46.5	47.3	11.7	111.1	8.0	145.0	3.5	44.9	49.9	10.7	107.2	7.5	142.9	3.4
44	49.8	45.0	13.2	119.1	9.1	151.4	3.8	48.2	47.5	12.1	115.3	8.5	149.3	3.7	46.5	50.1	11.1	111.2	8.0	147.0	3.5
46	51.7	45.2	13.6	123.6	9.7	156.0	4.0	50.0	47.7	12.5	119.6	9.1	153.7	3.9	48.2	50.3	11.4	115.3	8.5	151.3	3.7
48	53.6	45.5	14.1	128.3	10.4	160.8	4.2	51.8	47.9	12.9	124.1	9.8	158.4	4.1	49.9	50.6	11.8	119.6	9.1	155.7	3.9

Notes:

1. Rated in accordance with ARI Standard 550/590-2010 with
 - Water-side fouling factor allowance of 0.0001 hr-ft²-°F/BTU for evaporator and 0.00025 hr-ft²-°F/BTU for condenser.
 - Test tolerance at full load for capacity, input power and EER = ± 5%.
2. Ratings are based on a 10°F temperature drop in evaporator and a 10°F temperature rise in condenser.
3. Flow = Water-side flowrate in gpm.
4. 100% of the condenser flow will pass through single condensers on NWC15, 20, 26 and 30 models.
5. 50% of the condenser flow will pass through each of two condensers on NWC40, 52, 60 and 70 models.
6. DP = Water-side pressure drop in feet of water.
7. kW = Power input for compressors only.
8. EER = Energy Efficiency Ratio (cooling capacity in BTUH divided by total power input in watts).
9. Interpolation between points is permissible. Extrapolation is not permitted.
10. Consult NAPPS for performance at special conditions.



PERFORMANCE DATA

NWC60 Water Cooled Chiller

Table 7-1 Performance Data - NWC60 Water Cooled Chiller

		Entering Condenser Water Temperature																			
		65						70						75							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	65.2	39.8	19.5	155.8	13.9	183.9	5.8	63.9	41.5	18.3	152.8	13.4	182.3	5.7	62.5	43.4	17.2	149.5	12.8	180.4	5.5
44	67.5	40.2	20.0	161.5	14.9	189.7	6.1	66.2	41.9	18.8	158.3	14.3	188.0	6.0	64.8	43.8	17.6	154.9	13.7	186.0	5.8
46	69.9	40.6	20.5	167.3	16.0	195.8	6.5	68.6	42.3	19.3	164.1	15.4	193.9	6.3	67.1	44.2	18.1	160.5	14.7	191.9	6.1
48	72.4	41.0	21.0	173.3	17.1	202.1	6.9	71.0	42.7	19.8	169.9	16.5	200.1	6.7	69.5	44.6	18.6	166.3	15.8	197.9	6.5

		Entering Condenser Water Temperature																			
		80						85						90							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	60.9	45.5	16.0	145.6	12.2	178.1	5.3	59.4	47.7	14.8	141.9	11.6	176.1	5.1	57.7	50.1	13.7	137.9	10.9	173.8	4.9
44	63.2	45.8	16.4	151.1	13.1	183.7	5.6	61.5	48.0	15.3	147.2	12.4	181.5	5.4	59.8	50.5	14.1	142.9	11.7	179.1	5.2
46	65.5	46.2	16.9	156.6	14.0	189.5	5.9	63.8	48.4	15.7	152.6	13.3	187.2	5.7	62.0	50.8	14.6	148.3	12.6	184.6	5.5
48	67.8	46.6	17.4	162.4	15.1	195.5	6.2	66.1	48.8	16.2	158.2	14.3	193.0	6.0	64.3	51.2	15.0	153.9	13.5	190.5	5.8

		Entering Condenser Water Temperature																			
		95						100						105							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	55.9	52.7	12.7	133.7	10.3	171.5	4.8	54.1	55.6	11.6	129.3	9.6	169.1	4.6	52.1	58.6	10.6	124.6	9.0	166.5	4.4
44	58.0	53.1	13.0	138.6	11.0	176.7	5.0	56.1	55.9	12.0	134.0	10.3	174.0	4.8	54.0	58.9	10.9	129.1	9.6	171.2	4.6
46	60.1	53.4	13.4	143.8	11.9	182.1	5.3	58.1	56.2	12.3	139.0	11.1	179.3	5.1	56.0	59.2	11.3	133.9	10.3	176.2	4.9
48	62.3	53.8	13.8	149.1	12.7	187.6	5.6	60.2	56.5	12.7	144.2	11.9	184.6	5.4	58.0	59.5	11.6	138.8	11.1	181.4	5.1

Notes:

1. Rated in accordance with ARI Standard 550/590-2010 with
 - Water-side fouling factor allowance of 0.0001 hr-ft²-°F/BTU for evaporator and 0.00025 hr-ft²-°F/BTU for condenser.
 - Test tolerance at full load for capacity, input power and EER = ± 5%.
2. Ratings are based on a 10°F temperature drop in evaporator and a 10°F temperature rise in condenser.
3. Flow = Water-side flowrate in gpm.
4. 100% of the condenser flow will pass through single condensers on NWC15, 20, 26 and 30 models.
5. 50% of the condenser flow will pass through each of two condensers on NWC40, 52, 60 and 70 models.
6. DP = Water-side pressure drop in feet of water.
7. kW = Power input for compressors only.
8. EER = Energy Efficiency Ratio (cooling capacity in BTUH divided by total power input in watts).
9. Interpolation between points is permissible. Extrapolation is not permitted.
10. Consult NAPPS for performance at special conditions.



PERFORMANCE DATA

NWC70 Water Cooled Chiller

Table 8-1 Performance Data - NWC70 Water Cooled Chiller

		Entering Condenser Water Temperature																			
		65						70						75							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	76.7	45.2	20.3	183.4	21.0	215.2	5.4	74.7	47.3	18.8	178.6	20.0	212.1	5.2	72.6	49.5	17.5	173.7	18.9	209.0	5.0
44	79.5	45.4	20.9	190.2	22.6	222.2	5.7	77.5	47.5	19.4	185.3	21.5	219.0	5.5	75.4	49.8	18.1	180.3	20.3	215.8	5.3
46	82.4	45.6	21.6	197.3	24.2	229.3	6.1	80.4	47.8	20.1	192.4	23.1	226.2	5.8	78.2	50.1	18.6	187.1	21.9	222.7	5.6
48	85.5	45.7	22.3	204.6	26.0	236.7	6.4	83.4	48.0	20.7	199.6	24.8	233.5	6.2	81.2	50.4	19.2	194.3	23.5	230.0	6.0

		Entering Condenser Water Temperature																			
		80						85						90							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	70.5	51.9	16.2	168.6	17.8	205.6	4.8	68.5	54.4	15.0	163.8	16.9	202.7	4.6	66.3	57.1	13.9	158.4	15.8	199.4	4.4
44	73.2	52.2	16.7	175.0	19.2	212.2	5.1	71.1	54.8	15.5	170.0	18.1	209.2	4.9	68.8	57.5	14.3	164.5	17.0	205.7	4.7
46	76.0	52.5	17.3	181.8	20.7	219.2	5.4	73.8	55.1	16.0	176.5	19.5	215.9	5.2	71.4	57.8	14.7	170.9	18.3	212.3	5.0
48	78.8	52.8	17.8	188.8	22.2	226.4	5.7	76.5	55.5	16.5	183.2	21.0	222.8	5.5	74.1	58.2	15.2	177.4	19.7	219.0	5.2

		Entering Condenser Water Temperature																			
		95						100						105							
Evap		Evap			Cond			Evap			Cond			Evap			Cond				
LWT	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP	Tons	kW	EER	Flow	DP	Flow	DP
42	64.1	60.0	12.8	153.2	14.8	196.2	4.2	61.8	63.2	11.7	147.7	13.8	193.0	4.1	59.5	66.6	10.7	142.3	12.9	189.9	3.9
44	66.5	60.4	13.1	159.0	15.9	202.3	4.5	64.2	63.6	12.1	153.6	14.9	199.1	4.3	61.8	67.0	11.0	147.8	13.8	195.7	4.2
46	69.0	60.8	13.6	165.2	17.2	208.7	4.8	66.7	64.0	12.5	159.7	16.1	205.5	4.6	64.2	67.4	11.4	153.6	14.9	201.7	4.4
48	71.7	61.2	14.0	171.6	18.5	215.4	5.0	69.2	64.4	12.8	165.7	17.3	211.8	4.8	66.6	67.8	11.7	159.5	16.0	207.9	4.6

Notes:

1. Rated in accordance with ARI Standard 550/590-2010 with
 - Water-side fouling factor allowance of 0.0001 hr-ft²-°F/BTU for evaporator and 0.00025 hr-ft²-°F/BTU for condenser.
 - Test tolerance at full load for capacity, input power and EER = ± 5%.
2. Ratings are based on a 10°F temperature drop in evaporator and a 10°F temperature rise in condenser.
3. Flow = Water-side flowrate in gpm.
4. 100% of the condenser flow will pass through single condensers on NWC15, 20, 26 and 30 models.
5. 50% of the condenser flow will pass through each of two condensers on NWC40, 52, 60 and 70 models.
6. DP = Water-side pressure drop in feet of water.
7. kW = Power input for compressors only.
8. EER = Energy Efficiency Ratio (cooling capacity in BTUH divided by total power input in watts).
9. Interpolation between points is permissible. Extrapolation is not permitted.
10. Consult NAPPS for performance at special conditions.