

# Specification

## Hot water fired absorption chiller

Model name (WC2T)		008		009		011		014		016		
Cooling capacity	RT	73	75	88	90	107	110	132	135	151	155	
	kW	258	264	309	316	378	387	464	474	532	545	
Chilled water data	Temperature	°C	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8
	Water flow rate	m <sup>3</sup> /h	44.3	45.4	53.2	54.4	65.0	66.5	79.8	81.6	91.6	93.7
	Pressure drop	mAq	11.6	12.2	11.5	12.1	9.1	9.5	9.5	10	8.9	9.3
	Connection size	A(mm)	80	80	80	80	100	100	100	100	125	125
		B(inch)	3	3	3	3	4	4	4	4	5	5
Cooling water data	Temperature	°C	31 → 36.5									
	Water flow rate	m <sup>3</sup> /h	105.0	106.0	125.9	128.0	154.0	156.0	189.0	191.0	217.0	220.0
	Pressure drop	mAq	10.5	10.8	10.7	11.0	10.9	11.2	11.8	12.1	11.9	12.2
	Connection size	A(mm)	125	125	125	125	150	150	150	150	150	150
		B(inch)	5	5	5	5	6	6	6	6	6	6
Hot water circuit	Temperature	°C	95 → 55									
	Water flow rate	ton/h	8.8	8.9	10.6	10.6	12.9	13	15.8	15.9	18.2	18.3
	Pressure drop	mAq	4.7	4.8	5.0	5.1	4.4	4.5	5.1	5.2	5	5.1
	Control valve Pressure drop	mAq	2.0	2.0	2.8	2.8	2.7	2.7	2.7	2.7	3.4	3.5
	Connection size	A(mm)	65	65	65	65	65	65	65	65	80	80
		B(inch)	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3	3
	Connection size of Control valve	A(mm)	40	40	40	40	40	40	50	50	50	50
		B(inch)	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2
Electrical data	Source	V	3ø 220/380/440V 50Hz (60Hz)									
	Total current	A	11.8	11.8	11.8	11.8	15.5	15.5	15.5	15.5	15.5	15.5
	Wire size	mm <sup>2</sup>	4									
	Power	kVA	7.7	7.7	7.7	7.7	10.2	10.2	10.2	10.2	10.2	10.2
	Absorbent pump no.1	kW(A)	2.8(6.3)	2.8(6.3)	2.8(6.3)	2.8(6.3)	3.7(9.6)	3.7(9.6)	3.7(9.6)	3.7(9.6)	3.7(9.6)	3.7(9.6)
	Absorbent pump no.2	kW(A)	0.6(2.4)	0.6(2.4)	0.6(2.4)	0.6(2.4)	0.8(2.8)	0.8(2.8)	0.8(2.8)	0.8(2.8)	0.8(2.8)	0.8(2.8)
	Refrigerant pump	kW(A)	0.2(1.1)									
	Purge pump	kW(A)	0.4(1.45)									
Dimension	Length	mm	2,600	2,600	2,600	2,600	3,650	3,650	3,650	3,650	3,712	3,712
	Width	mm	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	2,265	2,265
	Height	mm	2,260	2,260	2,260	2,260	2,260	2,260	2,260	2,260	2,290	2,290
Rigging	Operating	ton	5.1	5.1	5.5	5.5	6.7	6.7	7.2	7.2	8.7	8.7
	Total shipping	ton	4.3	4.3	4.6	4.6	5.7	5.7	6.0	6.0	7.2	7.2
Clearance for tube removal	mm	2,400	2,400	2,400	2,400	3,400	3,400	3,400	3,400	3,400	3,400	

- Note: 1. 1RT = 3,024kcal/h, 1kW = 860kcal/h  
 2. Standard water side pressure (chilled & cooling water circuit): 10kgf/cm<sup>2</sup>G (981kPa)  
 3. Standard hot-water pressure: 8kgf/cm<sup>2</sup>G (785kPa)  
 4. The currents and electricity consumptions are based on 3P/380V/50Hz (60Hz).  
 5. The power supply wire size is based on the metal conduit and on 40°C ambient temperature.  
 6. Due to our policy of innovation some specifications may be changed without notification.  
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## Hot water fired absorption chiller

Model name (WC2T)		018		021		024		027		030		
Cooling capacity	RT	176	180	205	210	234	240	264	270	293	300	
	kW	618	633	721	738	824	843	927	949	1,030	1,054	
Chilled water data	Temperature	°C	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8
	Water flow rate	m <sup>3</sup> /h	106.4	108.9	124.1	127	141.8	145.2	159.5	163.3	177.3	181.4
	Pressure drop	mAq	9.4	9.8	8.9	9.3	9.1	9.5	9.3	9.7	9.2	9.6
	Connection size	A(mm)	125	125	125	125	125	125	150	150	150	150
		B(inch)	5	5	5	5	5	5	6	6	6	6
Cooling water data	Temperature	°C	31 → 36.5									
	Water flow rate	m <sup>3</sup> /h	252	255.0	294.0	298.0	336.0	340.0	378.0	383.0	420	425.0
	Pressure drop	mAq	12.4	12.7	12	12.3	12.1	12.4	12.1	12.4	12.2	12.5
	Connection size	A(mm)	150	150	200	200	200	200	250	250	250	250
		B(inch)	6	6	8	8	8	8	10	10	10	10
Hot water circuit	Temperature	°C	95 → 55									
	Water flow rate	ton/h	21.1	21.3	24.6	24.8	28.1	28.4	31.7	31.9	35.2	35.4
	Pressure drop	mAq	5.5	5.6	5.8	5.9	6.2	6.3	5.7	5.8	5.9	6
	Control valve Pressure drop	mAq	4.6	4.7	2.6	2.6	3.3	3.3	4.1	4.2	2.1	2.1
	Connection size	A(mm)	80	80	80	80	80	80	100	100	100	100
		B(inch)	3	3	3	3	3	3	4	4	4	4
	Connection size of Control valve	A(mm)	50	50	65	65	65	65	65	65	80	80
		B(inch)	2	2	2 1/2	2 1/2	2.5	2.5	2 1/2	2 1/2	3	3
Electrical data	Source	V	3ø 220/380/440V 50Hz (60Hz)									
	Total current	A	15.5	15.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
	Wire size	mm <sup>2</sup>	4	4	6	6	6	6	6	6	6	6
	Power	kVA	10.2	10.2	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
	Absorbent pump no.1	kW(A)	3.7(9.6)	3.7(9.6)	5.4(17.4)	5.4(17.4)	5.4(17.4)	5.4(17.4)	5.4(17.4)	5.4(17.4)	5.4(17.4)	5.4(17.4)
	Absorbent pump no.2	kW(A)	0.8(2.8)	0.8(2.8)	0.8(3.2)	0.8(3.2)	0.8(3.2)	0.8(3.2)	0.8(3.2)	0.8(3.2)	0.8(3.2)	0.8(3.2)
	Refrigerant pump	kW(A)	0.2(1.1)	0.2(1.1)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)
	Purge pump	kW(A)	0.4(1.45)									
Dimension	Length	mm	3712	3712	4732	4732	4732	4732	4850	4850	4850	4,850
	Width	mm	2265	2265	2265	2265	2265	2265	2380	2380	2380	2,380
	Height	mm	2290	2290	2290	2290	2290	2290	2540	2540	2540	2,540
Rigging	Operating	ton	9.3	9.3	10.9	10.9	11.6	11.6	14.3	14.3	15.0	15.0
	Total shipping	ton	7.6	7.6	9.1	9.1	9.6	9.6	11.8	11.8	12.3	12.3
Clearance for tube removal	mm	3,400	3,400	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	

- Note: 1. 1RT = 3,024kcal/h, 1kW = 860kcal/h  
 2. Standard water side pressure (chilled & cooling water circuit): 10kgf/cm<sup>2</sup>G (981kPa)  
 3. Standard hot-water pressure: 8kgf/cm<sup>2</sup>G (785kPa)  
 4. The currents and electricity consumptions are based on 3P/380V/50Hz (60Hz).  
 5. The power supply wire size is based on the metal conduit and on 40°C ambient temperature.  
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# Specification

## Hot water fired absorption chiller

Model name (WC2T)			034		038		042		047		053	
Cooling capacity	RT		332	340	366	375	410	420	459	470	513	525
	kW		1,167	1,195	1,288	1,318	1,442	1,476	1,614	1,652	1,803	1,845
Chilled water data	Temperature	°C	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8
	Water flow rate	m³/h	200.9	205.6	221.6	226.8	248.2	254	277.7	284.3	310.2	317.5
	Pressure drop	mAq	9.1	9.5	9.3	9.7	8.2	8.6	11.2	11.7	4.9	5.1
	Connection size	A(mm)	200	200	200	200	200	200	200	200	200	200
		B(inch)	8	8	8	8	8	8	8	8	8	8
Cooling water data	Temperature	°C	31 → 36.5									
	Water flow rate	m³/h	476.0	482.0	525.0	532.0	588.0	596.0	658	667.0	735.0	745.0
	Pressure drop	mAq	12	12.3	12.2	12.5	9.5	9.8	13.1	13.5	17.3	17.8
	Connection size	A(mm)	250	250	250	250	300	300	300	300	300	300
		B(inch)	10	10	10	10	12	12	12	12	12	12
Hot water circuit	Temperature	°C	95 → 55									
	Water flow rate	ton/h	39.9	40.2	44	44.3	49.2	49.6	55.1	55.5	61.6	62
	Pressure drop	mAq	5.6	5.7	5.9	6	5.5	5.6	3.5	3.6	4.7	4.8
	Control valve Pressure drop	mAq	2.7	2.7	3.2	3.2	1.6	1.6	2	2	2.5	2.5
	Connection size	A(mm)	100	100	100	100	100	100	100	100	100	100
		B(inch)	4	4	4	4	4	4	4	4	4	4
	Connection size of Control valve	A(mm)	80	80	80	80	100	100	100	100	100	100
		B(inch)	3	3	3	3	4	4	4	4	4	4
Electrical data	Source	V	3ø 220/380/440V 50Hz (60Hz)									
	Total current	A	27.2	27.2	27.2	27.2	28.2	28.2	28.2	28.2	40.4	40.4
	Wire size	mm²	10	10	10	10	10	10	10	10	16	16
	Power	kVA	17.9	17.9	17.9	17.9	18.5	18.5	18.5	18.5	26.6	26.6
	Absorbent pump no.1	kW(A)	6.4(19.0)	6.4(19.0)	6.4(19.0)	6.4(19.0)	6.7(20.0)	6.7(20.0)	6.7(20.0)	6.7(20.0)	8.7(27.0)	8.7(27.0)
	Absorbent pump no.2	kW(A)	1.2(4.8)	1.2(4.8)	1.2(4.8)	1.2(4.8)	1.2(4.8)	1.2(4.8)	1.2(4.8)	1.2(4.8)	3.0(10.0)	3.0(10.0)
	Refrigerant pump	kW(A)	0.4(1.4)									
	Purge pump	kW(A)	0.4(1.45)									
Dimension	Length	mm	4,910	4,910	4,910	4,910	4,995	4,995	5,540	5,540	6,035	6,035
	Width	mm	2,550	2,550	2,550	2,550	2,745	2,745	2,745	2,745	2,745	2,745
	Height	mm	2,815	2,815	2,815	2,815	3,140	3,140	3,140	3,140	3,140	3,140
Rigging	Operating	ton	17.6	17.6	18.5	18.5	25.1	25.1	27.1	27.1	28.8	28.8
	Total shipping	ton	14.5	14.5	15.2	15.2	20.7	20.7	22.4	22.4	23.8	23.8
Clearance for tube removal	mm	4,500	4,500	4,500	4,500	4,600	4,600	5,200	5,200	5,700	5,700	

- Note: 1. 1RT = 3,024kcal/h, 1kW = 860kcal/h  
 2. Standard water side pressure (chilled & cooling water circuit): 10kgf/cm²G (981kPa)  
 3. Standard hot-water pressure: 8kgf/cm²G (785kPa)  
 4. The currents and electricity consumptions are based on 3P/380V/50Hz (60Hz).  
 5. The power supply wire size is based on the metal conduit and on 40°C ambient temperature.  
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## Hot water fired absorption chiller

Model name (WC2T)			060		068		075		083		090		098	
Cooling capacity	RT		586	600	659	675	732	750	806	825	879	900	952	975
	kW		2,060	2,109	2,318	2,372	2,573	2,636	2,833	2,900	3,090	3,163	3,344	3,427
Chilled water data	Temperature	°C	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8
	Water flow rate	m³/h	354.5	362.9	398.9	408.2	442.7	453.6	487.5	499	531.8	544.3	575.5	589.7
	Pressure drop	mAq	9.7	10.2	5.2	5.5	6.1	6.4	4.3	4.5	5.3	5.6	6.5	6.8
	Connection size	A(mm)	250	250	250	250	250	250	300	300	300	300	300	300
		B(inch)	10	10	10	10	10	10	12	12	12	12	12	12
Cooling water data	Temperature	°C	31 → 36.5											
	Water flow rate	m³/h	839.0	851.0	944.0	957.0	1,048	1,064.0	1,154.0	1,170.0	1,259.0	1,276.0	1,363	1,383
	Pressure drop	mAq	13.6	14	18	18.5	13.4	13.8	9.2	9.5	11.5	11.8	14.4	14.8
	Connection size	A(mm)	350	350	350	350	350	350	400	400	400	400	400	400
		B(inch)	14	14	14	14	14	14	16	16	16	16	16	16
Hot water circuit	Temperature	°C	95 → 55											
	Water flow rate	ton/h	70.3	70.9	79.1	79.7	87.8	88.6	96.7	97.5	105.5	106.3	114.2	115.2
	Pressure drop	mAq	3.2	3.2	4.1	4.2	5.3	5.4	4.2	4.3	5.2	5.3	6.2	6.3
	Control valve Pressure drop	mAq	3.3	3.3	4.0	4.1	2	2	2.4	2.4	2.8	2.8	3.2	3.3
	Connection size	A(mm)	125											
		B(inch)	5											
	Connection size of Control valve	A(mm)	100	100	100	100	125	125	125	125	125	125	125	125
		B(inch)	4	4	4	4	5	5	5	5	5	5	5	5
Electrical data	Source	V	3ø 220/380/440V 50Hz (60Hz)											
	Total current	A	40.4	40.4	45.9	45.9	45.9	45.9	56.1	56.1	56.1	56.1	56.1	56.1
	Wire size	mm²	16	16	25	25	25	25	25	25	25	25	25	25
	Power	kVA	26.6	26.6	30.2	30.2	30.2	30.2	36.9	36.9	36.9	36.9	36.9	36.9
	Absorbent pump no.1	kW(A)	8.7(27.0)	8.7(27.0)	10.5(33.5)	10.5(33.5)	10.5(33.5)	10.5(33.5)	11.5(37.5)	11.5(37.5)	11.5(37.5)	11.5(37.5)	11.5(37.5)	11.5(37.5)
	Absorbent pump no.2	kW(A)	3.0(10.0)	3.0(10.0)	3.0(10.0)	3.0(10.0)	3.0(10.0)	3.0(10.0)	4.0(12.0)	4.0(12.0)	4.0(12.0)	4.0(12.0)	4.0(12.0)	4.0(12.0)
	Refrigerant pump	kW(A)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	1.5(3.9)	1.5(3.9)	1.5(3.9)	1.5(3.9)	1.5(3.9)	1.5(3.9)
	Purge pump	kW(A)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.75(2.2)	0.75(2.2)	0.75(2.2)	0.75(2.2)	0.75(2.2)	0.75(2.2)
Dimension	Length	mm	5,680	5,680	6,180	6,180	6,705	6,705	6,340	6,340	6,865	6,865	7,365	7,365
	Width	mm	3,235	3,235	3,235	3,235	3,235	3,235	3,800	3,800	3,800	3,800	3,800	3,800
	Height	mm	3,575	3,575	3,575	3,575	3,575	3,575	4,050	4,050	4,050	4,050	4,050	4,050
Rigging	Operating	ton	36.1	36.1	38.3	38.3	41.2	41.2	47	47	50.4	50.4	53.5	53.5
	Total shipping	ton	29.3	29.3	31	31	33.5	33.5	39	39	42	42	44.6	44.6
Clearance for tube removal	mm	5,200	5,200	5,700	5,700	6,200	6,200	5,800	5,800	6,300	6,300	6,800	6,800	

- Note: 1. 1RT = 3,024kcal/h, 1kW = 860kcal/h  
 2. Standard water side pressure (chilled & cooling water circuit): 10kgf/cm²G (981kPa)  
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