

CHILLER & WATER DISTRIBUTION SYSTEM SPECIFICATIONS

DFA

No.	Name	Model	Available heat kW			NG consumption m³/h			Cooling Water		Power demand kW		Sizes (L×W×H) mm	
			cooling	heating	hot water	cooling	heating	hot water	Flowrate m³/h	Pressure drop kPa	chiller	pumpset	chiller	
1	Villa Air Conditioning BCT	23	23	23	7.7	2.2	2.6	0.9	/	/	1.8	/		
2		70	70	70	39	6.4	7.8	4.3	/	/	5.2	/		
3		115	115	115	39	10.5	13.0	4.3	/	/	7.2	/		
4	Package DFA BYZ	20	233	179	80	17.1	19.4	8.8	48	50	2.5	7.39	2500x1750x2200	
5		50	582	449	200	42.8	48.5	22.1	120	50	5.8	19.08	5000x1850x2200	
6		75	872	672	300	64.1	72.6	28.6	180	50	7.6	32.2	5000x1880x2500	
7		100	1163	897	400	85.5	97.0	44.0	240	50	9.8	33.0	5000x2230x2500	
8		125	1454	1121	500	107	121	55.0	300	50	11.6	47.0	6100x2230x2500	
9		150	1745	1349	600	128	146	66.2	360	50	13.3	56.4	6100x2350x2900	
10		200	2326	1791	800	171	194	88.0	480	50	21.3	78.4	6160x2940x2900	
11		250	2908	2245	1000	214	243	110	600	60	21.3	92.4	7260x2940x2900	
12		300	3489	2687	1200	257	290	132	720	60	24.8	110	7260x3290x2900	
13		400	4652	3582	1600	342	387	176	960	60	29.6	126	7380x3700x3300	
14		500	5815	4489	/	428	485	/	1200	70	34.1	200	9370x3720x3300	
15		600	6978	5385	/	513	582	/	1440	70	46.9	220	9500x3550x3300	
16		800	9304	7176	/	684	776	/	1920	70	58.0	300	9580x3990x3800	
17		1000	11630	8967	/	855	970	/	2400	70	67.0	360	11580x4010x3800	

Steam chiller applicable to power generation or industrial waste steam

No.	Name code (Energy)	Model	Cooling	Steam consumption	Cooling Water		Power demand	Sizes (L×W×H)	
			kW	kg/h	Flowrate m³/h	Pressure drop kPa	kW	mm	
1	Two stage steam chiller BS (0.8MPa steam)	20	233	251	48	50	1.7	2500x1700x2200	
2		50	582	628	120	50	4.3	5000x1800x2200	
3		75	872	941	180	50	4.6	5000x1790x2500	
4		100	1163	1255	240	50	6.8	5000x2050x2500	
5		125	1454	1569	300	50	6.8	6100x2050x2500	
6		150	1745	1883	360	50	6.8	6100x2140x2900	
7		200	2326	2511	480	50	11.3	6160x2700x2900	
8		250	2908	3138	600	60	11.3	7260x2700x2900	
9		300	3489	3766	720	60	12.8	7260x3100x2900	
10		400	4652	5201	960	60	15.4	7380x3250x3300	
11		500	5815	6276	1200	70	19.9	9370x3250x3300	
12		600	6978	7532	1440	70	22.9	9500x3430x3300	
13		800	9304	10042	1920	70	29.6	9580x3800x3800	
14		1000	11630	12550	2400	70	38.6	11580x3760x3800	
15	Single stage steam chiller BDS (0.1MPa steam)	20	233	459	48.8	50	1.7	2500x900x2200	
16		50	582	1148	122	50	4.3	5000x1100x2200	
17		75	872	1722	183	60	4.6	5000x1020x2500	
18		100	1163	2296	244	60	6.8	5000x1200x2500	
19		125	1454	2870	305	60	6.8	6100x1200x2500	
20		150	1745	3443	366	60	6.8	6100x1200x3100	
21		200	2326	4591	488	60	11.3	6160x1650x3100	
22		250	2908	5739	610	70	11.3	7260x1650x3100	
23		300	3489	6887	733	70	12.8	7260x1880x3100	
24		400	4652	9183	977	70	15.4	7380x1990x3600	
25		500	5815	11478	1221	90	19.9	9370x1990x3600	
26		600	6978	13774	1465	90	22.9	9500x2110x3700	
27		800	9304	18365	1953	90	29.6	9580x2250x4100	
28		1000	11630	22957	2442	100	38.6	11580x2250x4100	

Exhaust chiller applicable to power generation or furnace exhaust

No.	Name code (Energy)	Model	Available heat kW		Exhaust consumption kg/h		Cooling Water		Sizes (L×W×H)	
			cooling	heating	cooling	heating	Flowrate m³/h	Pressure drop kPa	mm	
Two stage exhaust chiller BE (500°C exhaust)	20	233	153	1453	1453	48.8	50	2500x1750x2200		
	50	582	382	3633	3633	122	50	5000x1900x2200		
	75	872	572	5449	5449	183	60	5000x1910x2500		
	100	1163	763	7265	7265	244	60	5000x2270x2500		
	125	1454	954	9081	9081	305	60	6100x2300x2500		
	150	1745	1148	10898	10898	366	60	6100x2430x2900		
	200	2326	1526	14530	14530	488	60	6160x2980x2900		
	250	2908	1902	17356	17356	610	70	7260x3050x2900		
	300	3489	2289	20827	20827	733	70	7260x3500x2900		
	400	4652	3051	27769	27769	977	70	7380x3800x3300		
	500	5815	3815	34712	34712	1221	90	9370x3930x3300		
	600	6978	4592	41654	41654	1465	90	9500x4250x3300		
	800	9304	6104	55539	55539	1953	90	9580x4660x3800		
	1000	11630	7630	69423	69423	2442	100	11580x4730x3800		
Single stage exhaust chiller BDE (300°C exhaust)	20	233	/	5690	/	66.2	70	2500x700x2200		
	50	582	/	14225	/	165	70	5000x900x2200		
	75	872	/	21338	/	248	80	5100x1020x2500		
	100	1163	/	28450	/	331	80	5100x1180x2500		

Hot water chiller applicable to power generation or industrial waste hot water

No.	Name code (Energy)	Model	Cooling	Hot water consumption	Cooling Water	
			kW	m³/h	Flowrate m³/h	Pressure drop kPa
1	Two stage hot water chiller BH (180°C hot water)	20	233	10.3	48.8	50
2		50	582	25.7	122	50
3		75	872	38.5	183	60
4		100	1163	51.4	244	60
5		125	1454	64.2	305	60
6		150	1745	77.1	366	60
7		200	2326	103	488	60
8		250	2908	128	610	70
9		300	3489	154	733	70
10		400	4652	206	977	70
11		500	5815	257	1221	90
12		600	6978	308	1465	90
13		800	9304	411	1953	90
14		1000	11630	514	2442	100
15	Single stage hot water chiller BDH (98°C hot water)	20	205	23.2	61.7	50
16		50	512	57.9	154	50
17		75	767	86.8	231	60
18		100	1023	116	308	60
19		125	1279	145	385	60
20		150	1535	174	462	60
21		200	2046	232	616	70
22		250	2558	289	771	70
23		300	3069	347	925	70
24		400	4092	463	1233	70
25		500	5115	579	1541	90
26		600	6138	695	1849	90
27		800	8184	926	2466	90
28		1000	10230	1158	3082	100

Notes:

- For more technical details and dimensions of multi-energy chillers, please refer to " Model Selection Design Manual ".
- The pumpset, machine room sizes of the two stage steam/ hot water/ exhaust chillers are the same as those of the corresponding DFAs. Pumpset price for single stage chiller is 28% more.
- Cooling towers are purchased by customers locally, the control (including the inverter) can be provided by BROAD.
- Cooling water outlet/inlet temp: 37°C/30°C.
- The dimension of two stage hot water chiller is the same as the two stage steam chiller, and the dimension of single stage hot water chiller is the same as the single stage steam chiller.