

# 16TJ

## SINGLE-EFFECT STEAM-FIRED ABSORPTION CHILLERS

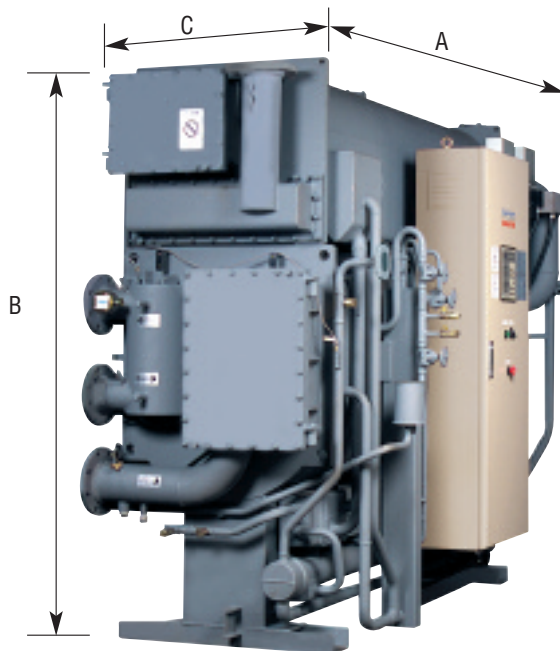
### Technical data

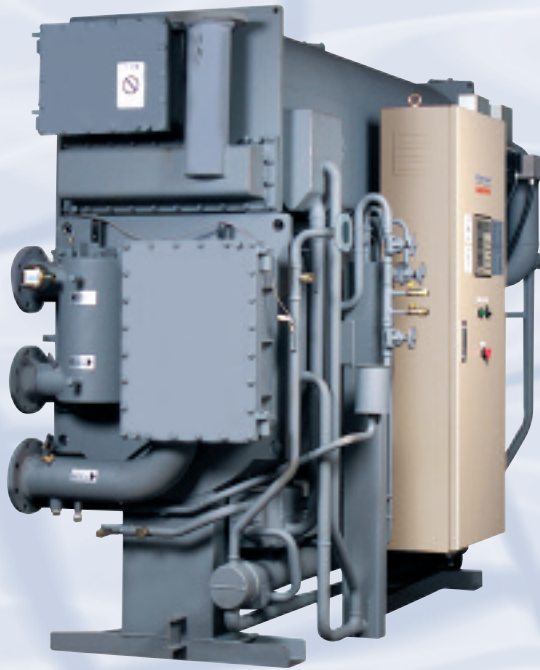
16TJ size		11	12	13	14	21	22	23	24		
Cooling capacity	kW	352	422	527	633	738	844	985	1125		
Chilled water system*											
Flow rate	l/s	15.1	18.2	22.7	27.3	31.8	36.3	42.4	48.4		
Pressure drop	kPa	49	51	63	66	59	62	41	44		
Connection (ANSI)	in	4	4	4	4	5	5	6	6		
Retention volume	m <sup>3</sup>	0.12	0.13	0.15	0.17	0.22	0.24	0.28	0.30		
Cooling water system**											
Flow rate	l/s	22.7	27.3	34.1	40.7	47.7	54.5	63.6	72.7		
Pressure drop	kPa	34	36	31	36	31	34	64	69		
Connection (ANSI)	in	5	5	5	5	6	6	8	8		
Retention volume	m <sup>3</sup>	0.35	0.38	0.43	0.48	0.60	0.65	0.73	0.79		
Steam system											
Consumption	kg/h	Saturated steam 100 kPa		1170	1410	1640	1880	2190	2500		
Dimensions											
Length A	mm	2680	2680	3690	3690	3770	3770	4850	4850		
Height B	mm	2215	2215	2215	2215	2350	2350	2350	2350		
Width C	mm	1295	1295	1295	1295	1455	1455	1455	1455		
Operating weight	kg	3900	4100	5000	5200	6400	6700	7800	8200		
Power supply											
Total current drawn	V-ph-Hz A	400-3-50		6.2	6.2	6.2	6.2	8.7	8.7	9.0	9.0

16TJ size		31	32	41	42	51	52	53
Cooling capacity	kW	1266	1407	1582	1758	1969	2215	2461
Chilled water system*								
Flow rate	l/s	54.5	60.6	68.1	75.7	84.8	95.4	106.0
Pressure drop	kPa	47	51	41	44	38	51	66
Connection (ANSI)	in	6	6	8	8	8	8	8
Retention volume	m <sup>3</sup>	0.34	0.36	0.46	0.48	0.65	0.71	0.77
Cooling water system**								
Flow rate	l/s	81.8	90.8	102.2	113.6	127.2	143.1	159.0
Pressure drop	kPa	54	56	59	63	41	54	70
Connection (ANSI)	in	8	8	10	10	12	12	12
Retention volume	m <sup>3</sup>	0.99	1.06	1.25	1.35	2.03	2.18	2.32
Steam system								
Consumption	kg/h	Saturated steam 100 kPa		3510	3900	4370	4920	5460
Dimensions								
Length A	mm	4910	4910	4960	4960	5050	5590	6090
Height B	mm	2620	2620	2870	2870	3200	3200	3200
Width C	mm	1515	1515	1615	1615	1950	1950	1950
Operating weight	kg	10100	10500	12200	12700	17400	18800	20100
Power supply								
Total current drawn	V-ph-Hz A	400-3-50		11.0	11.0	11.0	11.0	11.0

\* 12.2 → 6.7°C (Fouling factor = 0.0176 m<sup>2</sup> K/kW)

\*\* 29.4 → 38.4°C (Fouling factor = 0.044 m<sup>2</sup> K/kW)

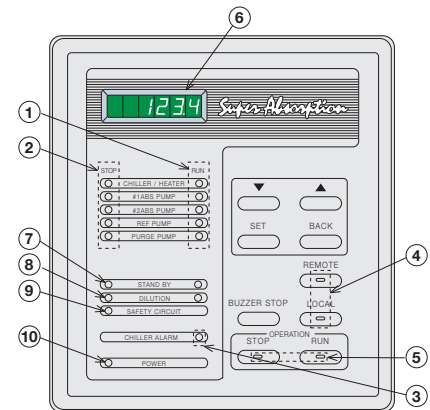




## SUPER ABSORPTION

### FEATURES

- Fifteen sizes with nominal cooling capacities from 352 to 2461 kW.
- Designed for cooling applications where low-pressure steam is available as waste heat.
- Can tie into district steam systems.
- Allows diversification of critical cooling requirements. Critical cooling loads are met with minimal electrical power input with steam-fired chillers.
- Allows use of smaller emergency generators since the electrical load associated with an absorption chiller is minimal, compared to an electrically driven chiller.
- Ozone-friendly and CFC-free. Cooling requirements are met without chlorine-based refrigerants.
- Minimises global warming effect by greatly reducing power consumption and eliminating the generation of greenhouse gases.
- Reduced noise and vibration levels. The absorption chiller does not use a large motor-compressor, leading to quiet, trouble-free operation.
- Small footprint. The high efficiency associated with these chillers results in a reduction of the required installation space.
- Auto-diagnosis system monitors operating conditions, predicts chiller information and maintains stable operation.
- Advanced high-precision control system
- Absorption pump with inverter control (option) for energy-saving operation.
- High-performance purge system maintains unit performance and minimises maintenance requirements.
- State-of-the-art protection devices guarantee enhanced operating safety.



### DISPLAY AND CONTROL

#### BOARD

- 1 Operation indication
- 2 Stop indication
- 3 Alarm indication
- 4 Remote/local select button
- 5 Operation mode selection
- 6 Data display
- 7 Stand-by indication
- 8 Dilution indication
- 9 Safety circuit indication
- 10 Power indication