

# 16LJ

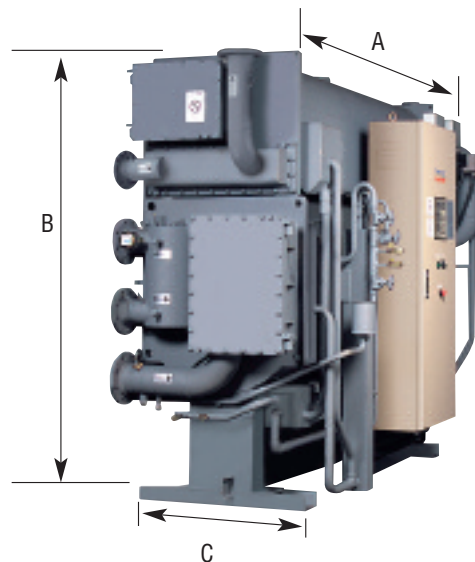
## SINGLE-EFFECT HOT WATER-FIRED ABSORPTION CHILLERS

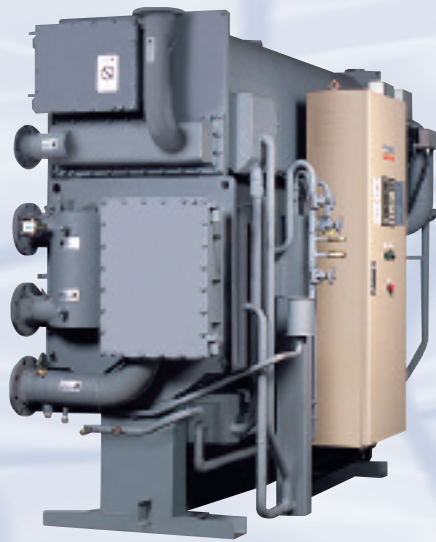
### Technical data

16LJ		11	12	13	14	21	22	23	24
Cooling capacity	kW	264	316	387	475	545	633	738	844
Chilled water system*									
Flow rate	l/s	11.4	13.6	16.7	20.4	23.5	27.3	31.8	36.3
Pressure drop	kPa	55	60	36	39	35	37	74	79
Connection (ANSI)	in	3	3	4	4	5	5	5	5
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	17.0	20.4	25.0	30.7	35.2	40.9	47.7	54.4
Pressure drop	kPa	36	39	105	111	108	112	103	106
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	0.72	0.79
Hot water system*									
Flow rate	l/s	10.4	12.4	15.2	18.7	21.4	24.9	29.0	33.0
Pressure drop	kPa	31	12	29	32	30	31	30	30
Connection (ANSI)	in	4	4	4	4	5	5	6	6
Retention volume	m <sup>3</sup>	0.09	0.10	0.12	0.13	0.17	0.18	0.20	0.22
Dimensions	mm								
Length A	mm	2720	2720	3740	3740	3830	3830	4860	4860
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	4000	4200	5200	5500	6700	7100	8200	8700
Power supply	V-ph-Hz	400-3-50							
Total current drawn	A	6.2	6.2	6.2	6.2	8.9	8.9	9.0	9.0

16LJ		31	32	41	42	51	52	53
Cooling capacity	kW	949	1055	1178	1319	1477	1653	1846
Chilled water system*								
Flow rate	l/s	40.9	45.4	50.7	56.8	63.6	71.2	79.5
Pressure drop	kPa	76	80	75	75	62	32	42
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	61.3	68.1	76.1	85.2	95.4	106.7	119.2
Pressure drop	kPa	97	98	98	102	146	88	117
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
Hot water system*								
Flow rate	l/s	37.0	41.0	46.0	52.0	58.0	65.0	73.0
Pressure drop	kPa	29	29	28	28	28	37	49
Connection (ANSI)	in	6	6	8	8	8	8	8
Retention volume	m <sup>3</sup>	0.27	0.29	0.34	0.36	0.44	0.48	0.51
Dimensions	mm							
Length A	mm	4990	4990	5070	5070	5200	5740	6240
Height B	mm	2620	2620	2870	2870	3200	3200	3200
Width C	mm	1515	1515	1615	1615	1950	1950	1950
Operating weight	kg	10600	11100	12900	13400	18200	19700	21100
Power supply	V-ph-Hz	400-3-50						
Total current drawn	A	11.0	11.0	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)  
 95.0 → 86.0°C (fouling factor = 0.0176 m<sup>2</sup> K/kW)

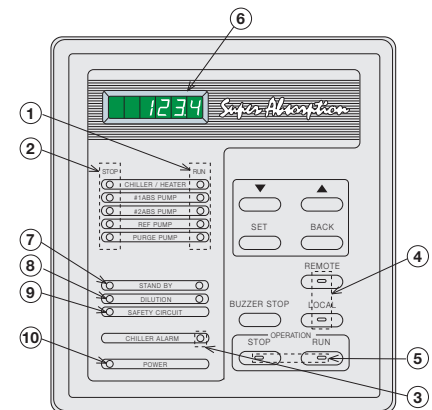




## SUPER ABSORPTION

### FEATURES

- Fifteen sizes with nominal cooling capacities from 264 to 1846 kW.
- Designed to provide chilled water from waste heat sources, generated from industrial processes and cogeneration systems.
- Allows diversification of critical cooling requirements. Critical cooling loads are met with minimal electrical power input with hot water-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