

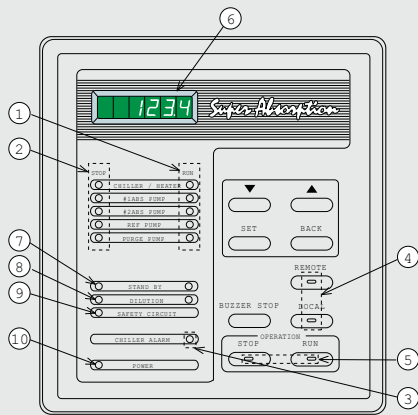
# SINGLE-EFFECT HOT WATER-FIRED ABSORPTION CHILLERS



Industrial  
**16LJ**

## SUPER ABSORPTION

### 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

### Features

- Twenty-one sizes with nominal cooling capacities from 90 to 4000 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 taking advantage of hot water sources available on site.
- Allows use of smaller emergency generators since the electrical load associated with an absorption chiller is minimal, compared to an electrically driven chiller.
- Cooling requirements are met without use of 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.

## Physical data

16LJ		01	02	03	11	12	13	14	21	22	23	24
<b>Cooling capacity</b>	kW	88	140	176	264	316	387	475	545	633	738	844
<b>Chilled water system*</b>												
Flow rate	l/s	3.50	5.61	7.00	11.40	13.60	16.70	20.40	23.50	27.30	31.80	36.30
Pressure drop	kPa	71	60	59	56	61	36	40	35	38	74	77
Connection (ANSI)	in	2	2-1/2	2-1/2	3	3	4	4	5	5	5	5
Retention volume	m <sup>3</sup>	-	-	-	0.11	0.13	0.15	0.17	0.22	0.25	0.28	0.30
<b>Cooling water system**</b>												
Flow rate	l/s	10.10	16.20	20.20	17.00	20.40	25.00	30.70	35.20	40.90	47.70	54.40
Pressure drop	kPa	77	48	49	38	39	67	72	68	71	42	45
Connection (ANSI)	in	3	4	4	5	5	5	5	6	6	8	8
Retention volume	m <sup>3</sup>	-	-	-	0.33	0.37	0.40	0.45	0.58	0.63	0.69	0.76
<b>Hot water system***</b>												
Flow rate	l/s	3.06	4.89	6.11	10.40	12.50	15.20	18.70	21.50	24.90	29.00	33.00
Pressure drop	kPa	52	31	36	31	12	29	32	31	37	30	31
Connection (ANSI)	in	2	2-1/2	2-1/2	4	4	4	4	5	5	6	6
Retention volume	m <sup>3</sup>	-	-	-	0.11	0.12	0.14	0.16	0.20	0.22	0.25	0.28
<b>Dimensions</b>	mm											
Length A		1745	2450	2450	2740	2740	3750	3750	3850	3850	4870	4870
Height B		2115	2115	2115	2200	2200	2200	2200	2350	2350	2370	2370
Width C		1255	1255	1435	1400	1400	1400	1400	1560	1560	1560	1560
<b>Operating weight</b>	kg	2070	2680	3150	4200	4400	5400	5600	6800	7300	8300	8900
<b>Power supply</b>	V-ph-Hz	400-3-50										
Total current drawn	A	4.8	4.8	4.8	6.1	6.1	6.1	6.1	8.8	8.8	8.9	8.9

16LJ		31	32	41	42	51	52	53	63	72	82
<b>Cooling capacity</b>	kW	949	1055	1178	1319	1477	1653	1846	2637	3165	3956
<b>Chilled water system*</b>											
Flow rate	l/s	40.80	45.60	50.80	56.70	63.60	71.10	79.40	114	136	170
Pressure drop	kPa	75	78	74	64	54	73	96	46	105	46
Connection (ANSI)	in	6	6	8	8	8	8	8	10	12	14
Retention volume	m <sup>3</sup>	0.35	0.38	0.49	0.56	0.70	0.77	0.83	1.21	1.53	1.94
<b>Cooling water system**</b>											
Flow rate	l/s	61.40	68.10	76.10	85.30	95.30	107	119	170	205	256
Pressure drop	kPa	36	37	38	40	92	86	45	58	44	68
Connection (ANSI)	in	8	8	10	10	12	12	12	14	16	16
Retention volume	m <sup>3</sup>	0.98	1.05	1.31	1.41	1.97	2.13	2.27	3.24	4.10	5.11
<b>Hot water system***</b>											
Flow rate	l/s	37.00	42.00	46.00	52.00	58.00	65.00	73.00	94.40	113	142
Pressure drop	kPa	30	30	30	30	28	38	50	19	19	25
Connection (ANSI)	in	6	6	8	8	8	8	8	10	10	10
Retention volume	m <sup>3</sup>	0.33	0.36	0.44	0.48	0.56	0.61	0.66	1.08	1.27	1.55
<b>Dimensions</b>	mm										
Length A		4920	4920	5070	5070	5210	5750	6250	6750	6990	7590
Height B		2610	2610	2860	2860	3210	3210	3210	3660	3780	3990
Width C		1630	1630	1700	1700	1990	1990	1990	2420	2650	2820
<b>Operating weight</b>	kg	10700	11300	13100	13600	18500	20000	21400	31100	39100	46600
<b>Power supply</b>	V-ph-Hz	400-3-50									
Total current drawn	A	10.90	10.90	10.90	10.90	10.90	10.90	10.90	30.20	37.50	39.60

\* Sizes 01/02/03: 12.0/6.0°C; all other sizes 12.2/6.7°C (Foiling factor = 0.018 m<sup>2</sup> K/kW)

\*\* Sizes 01/02/03: 29.0/34.0°C; all other sizes 29.4/38.4°C (Foiling factor = 0.044 m<sup>2</sup> K/kW)

\*\*\* Sizes 01/02/03: 90.0/80.0°C; all other sizes 95.0/86.0°C (Foiling factor = 0.018 m<sup>2</sup> K/kW)

