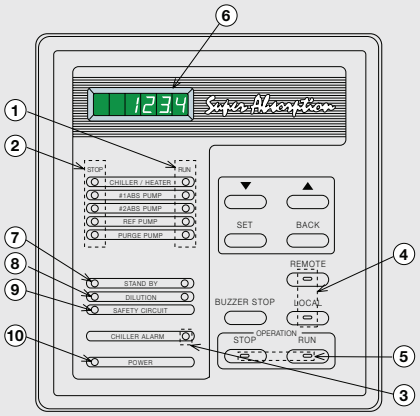
SINGLE-EFFECT HOT WATER-FIRED ABSORPTION CHILLERS

Industrial

SUPER ABSORPTION

16LJ

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

- 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.

Physical 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^3	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^3	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^3	0.09	0.10	0.12	0.13	0.17	0.18	0.20	0.22
Dimensions	mm								
Length A		2720	2720	3740	3740	3830	3830	4860	4860
Height B		2215	2215	2215	2215	2350	2350	2350	2350
Width C		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^3	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^3	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^3	0.27	0.29	0.34	0.36	0.44	0.48	0.51
Dimensions	mm							
Length A		4990	4990	5070	5070	5200	5740	6240
Height B		2620	2620	2870	2870	3200	3200	3200
Width C		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^2 K/kW)
29.4 –>38.4°C (fouling factor = 0.044 m^2 K/kW)
95.0 –>86.0°C (fouling factor = 0.0176 m^2 K/kW)