

**Stand Alone Chiller**

ITEM	PARTS DESCRIPTION	RATE
NO.	(As described below or approved equivalent)	\$
1	Reprogramming of Chiller Circuit (Per Circuit)	\$ 1,800.00
2	Repairworks to leakage for cooling coils/condensing coils	\$ 2,800.00
3	Compressor Oil	\$ 4,300.00
4	Oil Filter (For Compressor)	\$ 900.00
5	Flushing works of coil pipe using nitrogen	\$ 750.00
6	Refill refrigerant (per kg)	
	Refrigerant 134A, 410A	\$ 48.00
	Refrigerant R22 /Kg	\$ 58.00
7	Water Temperature sensor	\$ 2,800.00
8	Display control board	\$ 9,000.00
9	Circuit Lock Out Board	\$ 2,340.00
10	Fan Relay Board	\$ 2,340.00
11	3 pole 250A contactor	\$ 4,500.00
12	External oil Filter	\$ 1,200.00
13	Circuit lock out Board	\$ 1,950.00
14	Transducer sensor	
	(a) Suction and discharge	\$ 2,800.00
	(b) Pressure transducer	\$ 2,800.00
15	External auto stop board	\$ 2,300.00
16	Discharge lead gasket	\$ 6,500.00
17	Oil Synthetic (polyster) oil (per litre)	\$ 195.00
18	Power control board	\$ 2,800.00
19	315 Amp Incoming Fuse	\$ 950.00
20	Touch Pilot installation complete with callibrating	\$ 10,500.00
21	Filter core drier	\$ 700.00
22	Liquid line isolation valve	\$ 4,950.00
23	Solenoid valve and coil	\$ 5,800.00
24	To perform leak test	\$ 1,000.00
25	Rewinding of chiller fan motor	\$ 1,980.00
26	Installation of Printed Programmable Circuit Board	\$ 4,200.00
27	Expansion Valve	\$ 8,500.00
28	Compressor Contactor	\$ 3,900.00
29	Communication Cable	\$ 580.00
30	Oil Temperature sensor	\$ 2,800.00
31	Evaporator liquid level	\$ 4,500.00
32	Status relay board	\$ 3,500.00
33	Descaling chiller barrel c/w gasket set and chemical	\$ 7,650.00

**Additional Trane Chiller Parts**

34	Male port load & unload triacs compressor board	\$	2,600.00
35	Female step load triac compressor board	\$	2,600.00
36	High pressure cut out switch board	\$	2,500.00
37	Compressor starter module	\$	3,500.00
38	Power supply board	\$	3,000.00
39	Running relay & chilled water water pump starter	\$	2,600.00
40	Unused input & chilled water flow swith board inter lock	\$	2,600.00
41	Compressor interface board	\$	3,500.00
42	Service valve liquid side 1 5/8"	\$	780.00

**Additional York Chiller Parts**

43	Relay board	\$	7,200.00
44	Gate driver / IGBT board	\$	11,600.00
45	SCR trigger board	\$	9,800.00
46	Fan assy power supply board	\$	5,500.00
47	VSD logic board	\$	7,200.00
48	Chiller main control board	\$	10,500.00
49	Coolent fluid / Propylene glycol (1 barrel)	\$	3,500.00
50	Compressor oil filter	\$	900.00
51	Filter drier core	\$	900.00
52	Field wire for all 7 sensors (shilded type wire) 3 crore	\$	3,000.00

**Additional Carrier Chiller Parts**

53	Fan contol board	\$	4,500.00
54	EXV control board	\$	4,700.00
55	Compressor starter board	\$	5,000.00
56	Condenser fan motor cantactor 3 pole	\$	3,900.00
57	Refrigerant filter drier core	\$	1,000.00
58	Compressor oil filter	\$	2,500.00

<b>CHWP</b>		
59	To supply and install soft starter complete with wiring to the nearest MCB	\$ 4,200.00
60	To supply and install new mechanical pump seal for primary	\$ 1,500.00
61	To supply and install new mechanical pump seal for secondary	\$ 3,800.00
62	To supply and replace electric motor bearings for primary pump (per piece)	\$ 300.00
63	To supply and replace electric motor bearings for secondary pump (per piece)	\$ 500.00
64	To supply and replace pump head bearing for primary pump (per piece)	\$ 450.00
65	To supply and replace pump head bearing for secondary pump (per piece)	\$ 800.00
66	To supply and install new primary chilled water pump including its accessories	
	a. 7.5 hp	\$ 13,800.00
	b. 10 hp	\$ 16,200.00
	c. 15 hp	\$ 18,600.00
67	To supply, modify and reconnect water piping, including of all fitting and accessories, straight joint, elbow/bend,tee, reducers, valve fitting and accessories including modification of existing piping to suit new pump	\$ 1,400.00
68	To supply and repair primary chilled water pump, including new bearing for pump motor, mechanical seal,rebuilt/resurface shaft,gasket set,coupling bset, coupling bushes and reinsulate pump with Gi Jacketing and PU foam	\$ 3,500.00
69	To replace pump shaft seal for primary CHWP including motor bearing, flexible coupling and necessary accesories	\$ 8,450.00
70	Rewinding existing 40hp-50hp pump motor	\$ 8,125.00
71	Rewinding existing 7.5hp-15hp pump motor	\$ 2,950.00
72	To replace pump shaft seal, motor bearing and pump head bearing for secondary Chilled Pump	\$ 6,300.00
73	To replace flanged type rubber flexible joint size of 8" and 10" c/w insulation	\$ 4,500.00
74	To supply and replace variable speed drive (VSD)	
	a. 30 kw and 40 hp VSD	\$ 9,800.00
	b. 37 kw and 50 hp VSD	\$ 11,500.00
	c. 90 kw and 125hp VSD	\$ 17,000.00

I / we, the undersigned, are willing to contract for **Corrective Maintenance for Stand Alone Chiller at Universiti Brunei Darussalam** as may be ordered from time to time for the period of **one (1) year** or when the contract amount is not exceeding **fifty thousand Brunei dollar (\$50,000.00)**, which ever come first.

**\* (+) PLUS / (-) MINUS .....% (.....PERCENTUM)**

Defects liability period shall be **6 months**

Contract period:

**One (1) year or when the contract amount is not exceeding fifty thousand Brunei dollar (\$50,000.00), which ever come first**

Validity Offer:

6 (Six) Months (from the date of quotation)

From: .....

---

Contract / Address:

.....

(Official Chop / Signature)

.....

Tel. (off): .....

.....

H/phone: .....

.....

Class / Category: 1 & Above / E01,E02, M01

Fax. No: .....

---