LIANG CHI

SINCE 1962

LVN Series

WATER -SAVING

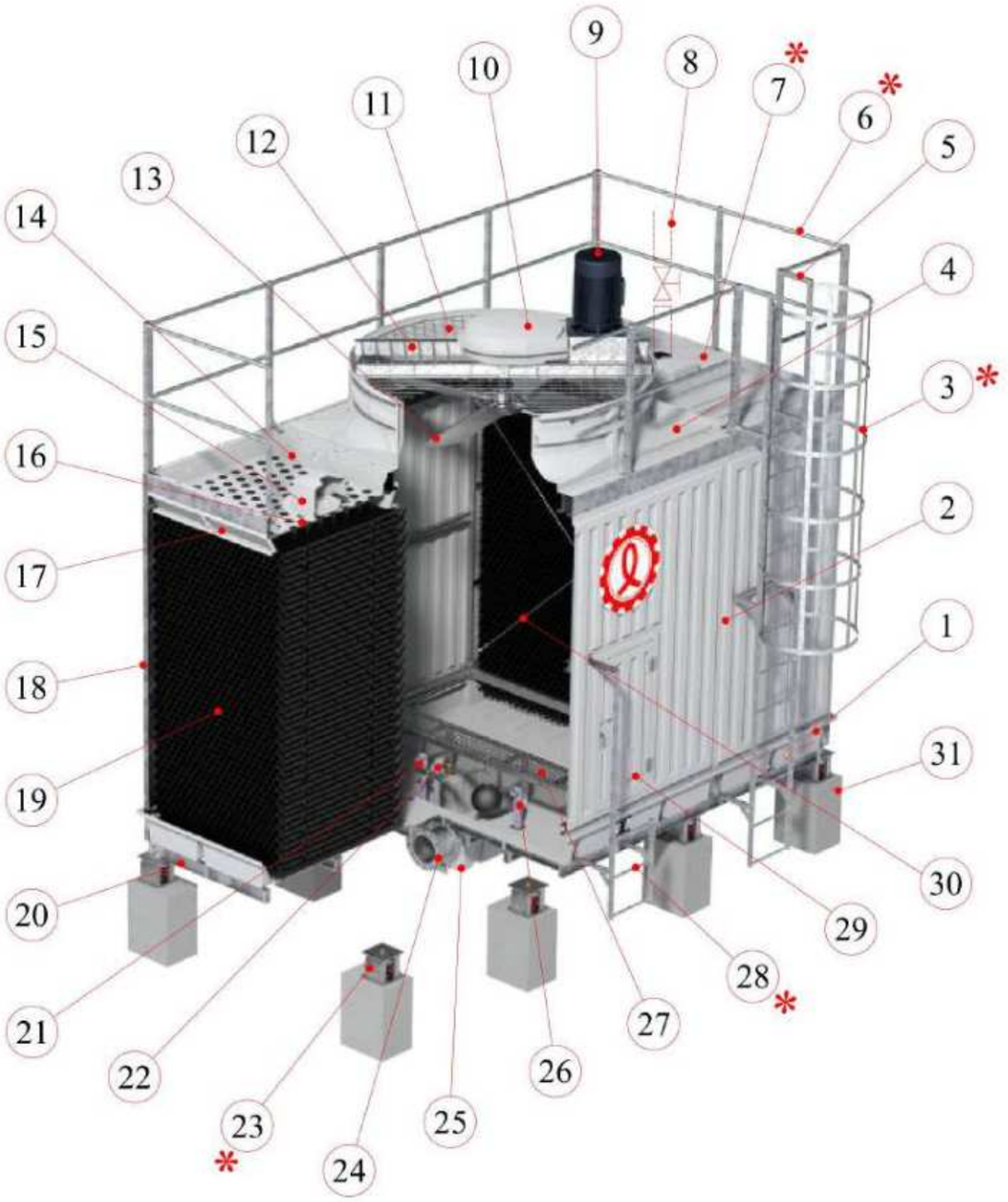
ENERGY -SAVING

SPACE -SAVING

CROSS FLOW TYPE COOLING TOWER

LVN SERIES COOLING TOWER

OUTLINE - STRUCTURE - MATERIAL



(*) :These spare parts is non-standard. Customer buy it for designing and installation

LVN SERIES COOLING TOWER

PRODUCT FEATURES

Devoted Improvement
LVN model's structure, materials, water basin and distribution system are improved product introduced by Liang Chi .

Minimum Space Occupancy
LVN model is Liang Chi's latest product designed to cater to the requirements of modern society for and limited and valuable land. Performance is excellent and land space is saved .

Excellent Options
If other excellent optional accessories, cage, handrail, hot water basin cover, spring mounts and access door ladder are required, please inform us as well when you send inquiry. We'll fully cooperate to satisfy our customers .

Item No.	Description	Material
1.	Cold Water Basin	F . R . P .
2.	Side Plate	F . R . P .
*3.	Cage	H . D . G . S ./ SUS304.
4.	Fan Stack	F . R . P .
5.	Ladder	H . D . G . S ./ SUS304.
*6.	Handrail	H . D . G . S ./ SUS304.
*7.	Hot Water Basin Cover	F . R . P ./ H . D . G . S .
8.	Hot Water Inlet	By Customer.
9.	Motor	
10.	Speed Reducer	
11.	Fan Guards	H . D . G . S ./ SUS304.
12.	Motor Frame	H . D . G . S ./ SUS304.
13.	Fan Assembly	AL.ALLOY./ F . R . P .
14.	Hot Water Basin	F . R . P .
15.	Distribution Box	F . R . P .

Item No.	Description	Material
16.	Metering Orifices	P . P .
17.	Outer Eliminator	F . R . P .
18.	Frame	H . D . G . S ./ SUS304.
19.	Filling	P . V . C ./C . P .V .C.
20.	Cold Water Basin Support	H . D . G . S ./ SUS304.
21.	Manual Wake Up	P . V . C .
22.	Auto Wake Up	P . V . C .
*23.	Spring Mounts	Carbon Steel.
24.	Cold Water Outlet	H . D . G . S ./ SUS304.
25.	Cold Water Sump	F . R . P .
26.	Over Flow	P . V . C .
27.	Walkway	H . D . G . S ./ SUS304.
*28.	Access Door Ladder	H . D . G . S ./ SUS304.
29.	Access Door	F . R . P .
30.	Tie Rod	H . D . G . S ./ SUS304.
31.	Foundation	By Customer.

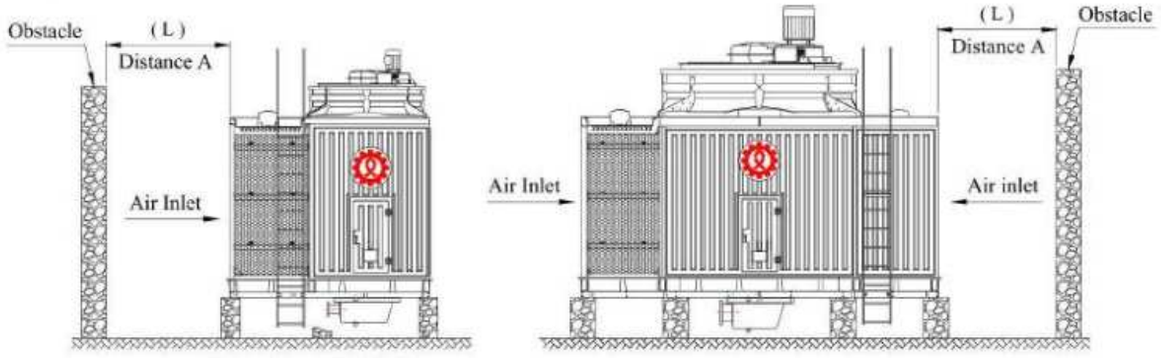
Remarks:
1/ Above details are demonstrating the profile, parts name and various materials of the cooling tower. The black characters in the parentheses stand for the standard material while the red ones mean the special material that is optional. If necessary, please verify the specific material in advance so that we can quote accordingly.
2/ (*)- These spare parts is non-standard. Customer buy it for designing and installation.

LVN

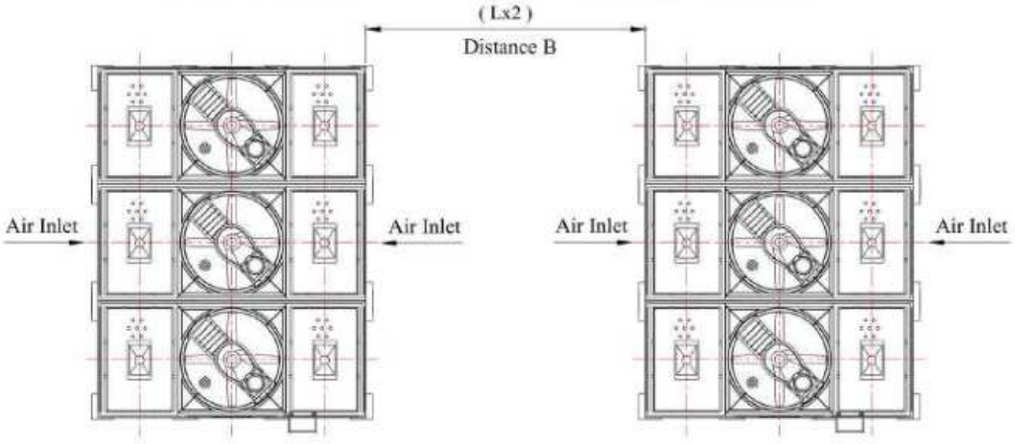
INSTALLATION

1/ **Unit orientation**: When a unit is located near a building wall, the preferred arrangement is to have the unit situated with the cased end or blank-off side (unlouvered side) facing the adjacent wall or building.

2/ **Air inlet requirements**: Should it be necessary to install a unit with the air intake facing a wall, provide at least distance " L" between the air intake and the wall. If the air intake faces another air intake, provide at least the distance " Lx2 ", as illustrated .



LVN-0106 ~ LVN-1155 LVN-2050 ~ LVN-10600



LVN	L (Meter)				
	C1	C2	C3	C4	C5
0106	0.4	0.7	0.9	1.1	1.2
0156	0.5	0.8	1	1.2	1.4
0206	0.5	0.9	1.2	1.4	1.5
0306	0.6	1	1.3	1.6	1.8
0506	0.7	1.2	1.6	1.9	2.2
1022	0.6	1	1.3	1.5	1.7
1032	0.7	1.2	1.5	1.8	2
1052	0.9	1.4	1.8	2.2	2.4
1072	1	1.7	2.1	2.5	2.8
1102	1.1	1.9	2.4	2.8	3.1
1035	0.8	1.2	1.6	1.8	2
1055	0.9	1.5	1.9	2.2	2.4
1075	1	1.7	2.2	2.5	2.8
1105	1.2	1.9	2.4	2.8	3.1
1155	1.4	2.2	2.8	3.3	3.6
2050	0.5	0.9	1.2	1.4	1.5
2070	0.6	1	1.3	1.6	1.8
2100	0.7	1.1	1.5	1.8	2
2150	0.8	1.3	1.7	2	2.3
2200	0.9	1.5	1.9	2.3	2.5

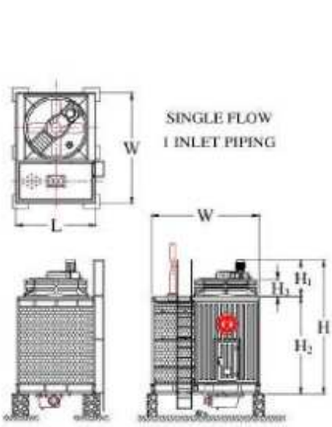
LVN	L (Meter)				
	C1	C2	C3	C4	C5
2052	0.6	1	1.2	1.5	1.6
2072	0.7	1.1	1.4	1.7	1.9
2102	0.7	1.2	1.6	1.9	2.1
2152	0.9	1.4	1.8	2.2	2.4
2202	1	1.6	2.1	2.4	2.7
2055	0.6	1	1.3	1.5	1.6
2075	0.7	1.2	1.5	1.7	1.9
2105	0.8	1.3	1.7	1.9	2.1
2155	0.9	1.5	1.9	2.2	2.5
2205	1	1.7	2.1	2.5	2.7
3070	0.8	1.2	1.6	1.8	2
3100	0.8	1.4	1.8	2	2.2
3150	1	1.6	2	2.3	2.6
3200	1.1	1.8	2.3	2.6	2.9
3250	1.2	1.9	2.4	2.8	3.1
3075	0.8	1.3	1.6	1.9	2
3105	0.9	1.5	1.8	2.1	2.3
3155	1.1	1.7	2.1	2.4	2.6
3205	1.2	1.9	2.4	2.7	3
3255	1.3	2.1	2.6	2.9	3.2

LVN	L (Meter)				
	C1	C2	C3	C4	C5
4100	1	1.5	1.8	2.1	2.3
4150	1.1	1.7	2.1	2.4	2.6
4200	1.2	1.9	2.4	2.7	2.9
4250	1.3	2.1	2.6	2.9	3.2
4300	1.4	2.2	2.7	3.1	3.3
4105	1.1	1.6	2	2.2	2.4
4155	1.2	1.9	2.3	2.6	2.8
4205	1.4	2.1	2.6	2.9	3.1
4255	1.5	2.3	2.8	3.2	3.4
4305	1.6	2.5	3	3.4	3.6
5150	1.2	1.9	2.3	2.6	2.8
5200	1.4	2.1	2.6	2.9	3.1
5250	1.5	2.3	2.8	3.1	3.3
5300	1.6	2.4	3	3.3	3.5
5400	1.8	2.7	3.3	3.7	4
6150	1.2	1.9	2.3	2.6	2.9
6200	1.3	2.1	2.6	2.9	3.2
6250	1.5	2.3	2.8	3.2	3.4
6300	1.5	2.4	3	3.4	3.7
6400	1.7	2.7	3.3	3.8	4.1

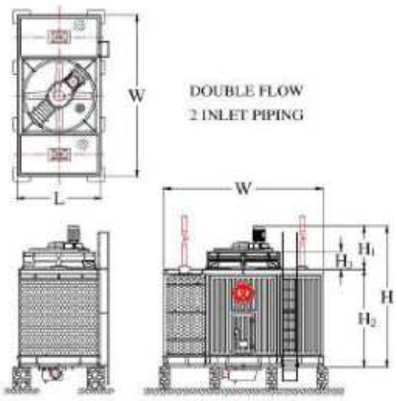
LVN	L (Meter)				
	C1	C2	C3	C4	C5
7150	1.2	1.9	2.4	2.8	3
7200	1.4	2.2	2.7	3.1	3.4
7250	1.5	2.4	2.9	3.3	3.6
7300	1.6	2.5	3.1	3.5	3.9
7400	1.8	2.8	3.5	4	4.3
8200	1.4	2.2	2.8	3.1	3.4
8250	1.5	2.4	3	3.4	3.7
8300	1.6	2.6	3.2	3.6	3.9
8400	1.8	2.9	3.5	4	4.4
8500	2	3.1	3.8	4.3	4.7
9250	1.6	2.4	3	3.3	3.6
9300	1.7	2.6	3.1	3.5	3.8
9400	1.9	2.9	3.5	3.9	4.3
9500	2	3.1	3.8	4.2	4.6
9600	2.1	3.3	4.1	4.6	4.9
10250	1.7	2.6	3.1	3.5	3.8
10300	1.8	2.7	3.3	3.7	4
10400	2	3.1	3.7	4.2	4.5
10500	2.2	3.3	4	4.5	4.9
10600	2.3	3.6	4.4	4.9	5.3

- Remark :
  - C1 = 1 Cell ; C2 = 2 Cell ; C3 = 3 Cell ; C4 = 4 Cell ; C5 = 5 Cell.
  - Distance A and distance B, need to do a walkway with dimension min 0.9m, that for the staff walking and maintance.
  - When installing, the distance between the cooling tower and other walls should not be smaller than the recommended size, otherwise it will affect the performance of the cooling tower

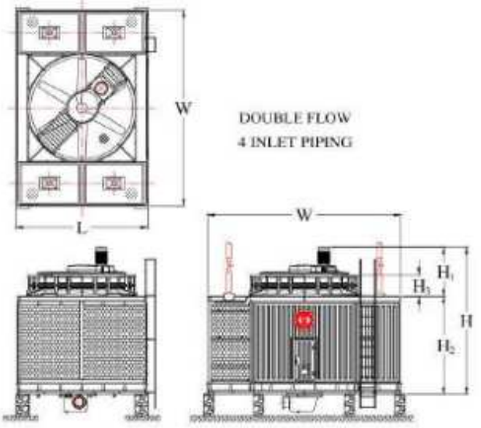
LVN OUTLINE DIMENSIONS & STANDARD SPECIFICATIONS



LVN-0106 ~ LVN-1155



LVN-2050 ~ LVN-3250



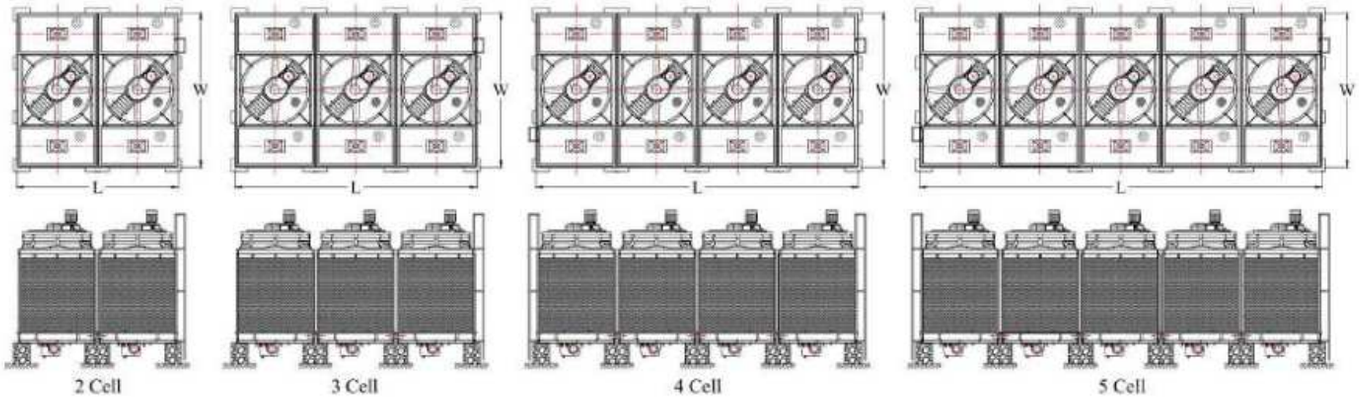
LVN-3075 ~ LVN-10600

Item / LVN	Water Flow Rate	Dimensions						Driving Equipment		
		Width	Length	Height				Horse Power	Fan Dia.	Air Volume
	LPM	W (mm)	L (mm)	H (mm)	H_1 (mm)	H_2 (mm)	H_3 (mm)	HP	øD (mm)	M^3/Min/Cell
0106-Cn	767×n	2698	1535×n-45	3160	677	2483	460	1×n	1170	324
0156-Cn	871×n	2698	1535×n-45	3171	688	2483	460	1 ½×n	1170	372
0206-Cn	962×n	2698	1535×n-45	3171	688	2483	460	2×n	1170	420
0306-Cn	1105×n	2698	1535×n-45	3222	739	2483	460	3×n	1170	486
0506-Cn	1300×n	2698	1535×n-45	3274	791	2483	460	5×n	1170	588
1022-Cn	1326×n	3198	2095×n-95	3754	881	2873	600	2×n	1700	570
1032-Cn	1560×n	3198	2095×n-95	3792	919	2873	600	3×n	1700	672
1052-Cn	1859×n	3198	2095×n-95	4067	1194	2873	600	5×n	1700	804
1072-Cn	2145×n	3198	2095×n-95	4077	1204	2873	600	7 ½×n	1700	930
1102-Cn	2392×n	3198	2095×n-95	4115	1242	2873	600	10×n	1700	1050
1035-Cn	1690×n	3198	2375×n-85	3795	922	2873	600	3×n	1700	726
1055-Cn	2015×n	3198	2375×n-85	4070	1197	2873	600	5×n	1700	864
1075-Cn	2327×n	3198	2375×n-85	4080	1207	2873	600	7 ½×n	1700	1008
1105-Cn	2587×n	3198	2375×n-85	4118	1245	2873	600	10×n	1700	1128
1155-Cn	2938×n	3198	2375×n-85	4224	1351	2873	600	15×n	1700	1308
2050-Cn	2236×n	4210	1875×n-85	4009	1136	2873	560	5×n	1500	960
2070-Cn	2574×n	4210	1875×n-85	4019	1146	2873	560	7 ½×n	1500	1110
2100-Cn	2873×n	4210	1875×n-85	4057	1184	2873	560	10×n	1500	1242
2150-Cn	3276×n	4210	1875×n-85	4153	1280	2873	560	15×n	1500	1428
2200-Cn	3653×n	4210	1875×n-85	4197	1324	2873	560	20×n	1500	1596
2052-Cn	2522×n	4410	2095×n-85	4087	1194	2893	600	5×n	1700	1086
2072-Cn	2899×n	4410	2095×n-85	4097	1204	2893	600	7 ½×n	1700	1254
2102-Cn	3237×n	4410	2095×n-85	4134	1241	2893	600	10×n	1700	1404
2152-Cn	3692×n	4410	2095×n-85	4241	1348	2893	600	15×n	1700	1614
2202-Cn	4069×n	4410	2095×n-85	4285	1392	2893	600	20×n	1700	1812

- Remark : Cn corresponds to the quantity Cell ; C1 = 1 Cell ; C2 = 2 Cell

LVN

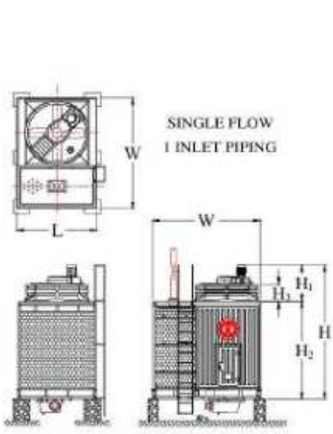
OUTLINE DIMENSIONS & STANDARD SPECIFICATIONS



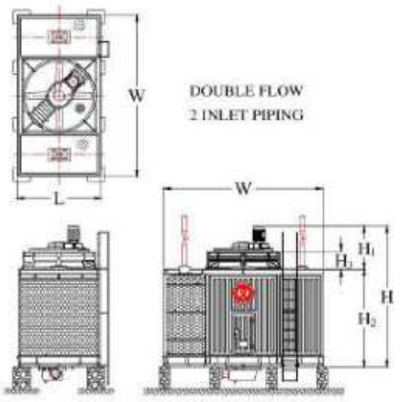
Item / LVN	Water Flow Rate	Dimensions						Driving Equipment		
		Width	Length	Height				Horse Power	Fan Dia.	Air Volume
	LPM	W (mm)	L (mm)	H (mm)	H_1 (mm)	H_2 (mm)	H_3 (mm)	HP	øD (mm)	M^3/Min/Cell
2055-Cn	2665×n	4510	2295×n-85	4106	1213	2893	620	5×n	1800	1164
2075-Cn	3068×n	4510	2295×n-85	4116	1223	2893	620	7 ½×n	1800	1344
2105-Cn	3432×n	4510	2295×n-85	4154	1261	2893	620	10×n	1800	1506
2155-Cn	3900×n	4510	2295×n-85	4260	1367	2893	620	15×n	1800	1734
2205-Cn	4316×n	4510	2295×n-85	4304	1411	2893	620	20×n	1800	1938
3070-Cn	3458×n	4710	2495×n-85	4121	1228	2893	620	7 ½×n	1990	1476
3100-Cn	3874×n	4710	2495×n-85	4159	1266	2893	620	10×n	1990	1656
3150-Cn	4407×n	4710	2495×n-85	4265	1372	2893	620	15×n	1990	1908
3200-Cn	4901×n	4710	2495×n-85	4309	1416	2893	620	20×n	1990	2136
3250-Cn	5265×n	4710	2495×n-85	4353	1460	2893	620	25×n	1990	2304
3075-Cn	4147×n	5110	3105×n-85	4132	1239	2893	620	7 ½×n	2360	1746
3105-Cn	4602×n	5110	3105×n-85	4170	1277	2893	620	10×n	2360	1956
3155-Cn	5226×n	5110	3105×n-85	4256	1363	2893	620	15×n	2360	2256
3205-Cn	5772×n	5110	3105×n-85	4300	1407	2893	620	20×n	2360	2526
3255-Cn	6188×n	5110	3105×n-85	4344	1451	2893	620	25×n	2360	2724
4100-Cn	4732×n	5110	3305×n-85	4170	1277	2893	620	10×n	2360	2022
4150-Cn	5395×n	5110	3305×n-85	4256	1363	2893	620	15×n	2360	2328
4200-Cn	6019×n	5110	3305×n-85	4300	1407	2893	620	20×n	2360	2610
4250-Cn	6461×n	5110	3305×n-85	4344	1451	2893	620	25×n	2360	2814
4300-Cn	6838×n	5110	3305×n-85	4371	1478	2893	620	30×n	2360	2988
4105-Cn	5473×n	5710	3705×n-85	4174	1281	2893	620	10×n	2970	2328
4155-Cn	6305×n	5710	3705×n-85	4280	1387	2893	620	15×n	2970	2712
4205-Cn	7020×n	5710	3705×n-85	4324	1431	2893	620	20×n	2970	3042
4255-Cn	7527×n	5710	3705×n-85	4348	1455	2893	620	25×n	2970	3288
4305-Cn	7956×n	5710	3705×n-85	4380	1487	2893	620	30×n	2970	3492

- Design Criteria : HWT = 37°C ; CWT = 32°C ; WBT = 27°C ;
- Other multi-cell that are not listed are also available. Please contact your local sales engineers.

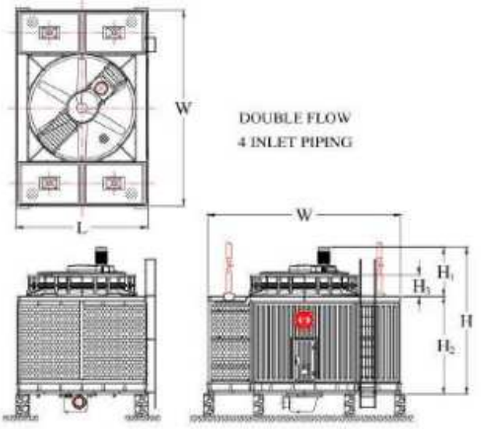
LVN OUTLINE DIMENSIONS & STANDARD SPECIFICATIONS



LVN-0106 ~ LVN-1155



LVN-2050 ~ LVN-3250

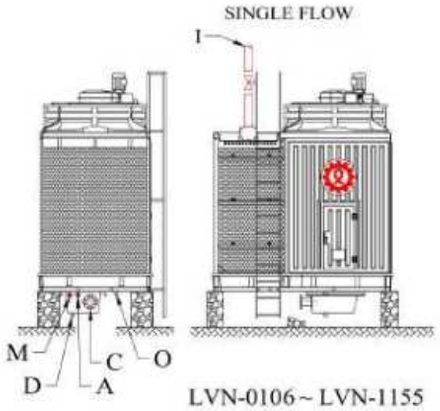


LVN-3075 ~ LVN-10600

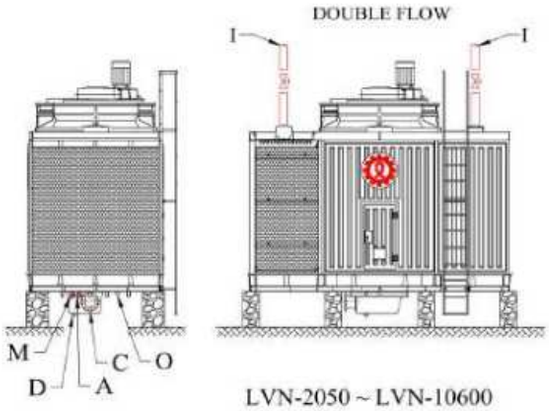
Item / LVN	Water Flow Rate	Dimensions						Driving Equipment		
		Width	Length	Height				Horse Power	Fan Dia.	Air Volume
	LPM	W (mm)	L (mm)	H (mm)	H_1 (mm)	H_2 (mm)	H_3 (mm)	HP	øD (mm)	M^3/Min/Cell
5150-Cn	6487×n	5710	3905×n-85	4280	1387	2893	620	15×n	2970	2766
5200-Cn	7241×n	5710	3905×n-85	4324	1427	2893	620	20×n	2970	3102
5250-Cn	7761×n	5710	3905×n-85	4348	1451	2893	620	25×n	2970	3354
5300-Cn	8203×n	5710	3905×n-85	4380	1483	2893	620	30×n	2970	3558
5400-Cn	9113×n	5710	3905×n-85	4500	1603	2893	620	40×n	2970	3996
6150-Cn	7371×n	5710	3905×n-85	5093	1388	3705	620	15×n	2970	3030
6200-Cn	8099×n	5710	3905×n-85	5137	1432	3705	620	20×n	2970	3396
6250-Cn	8723×n	5710	3905×n-85	5161	1456	3705	620	25×n	2970	3660
6300-Cn	9269×n	5710	3905×n-85	5193	1488	3705	620	30×n	2970	3888
6400-Cn	10192×n	5710	3905×n-85	5313	1608	3705	620	40×n	2970	4350
7150-Cn	8671×n	6105	4065×n-45	5954	1437	4517	620	15×n	3380	3492
7200-Cn	9529×n	6105	4065×n-45	5998	1481	4517	620	20×n	3380	3912
7250-Cn	10257×n	6105	4065×n-45	6047	1530	4517	620	25×n	3380	4218
7300-Cn	10894×n	6105	4065×n-45	6074	1557	4517	620	30×n	3380	4482
7400-Cn	11973×n	6105	4065×n-45	6234	1717	4517	620	40×n	3380	5016
8200-Cn	10179×n	6305	4465×n-45	6249	1732	4517	820	20×n	3580	4182
8250-Cn	10972×n	6305	4465×n-45	6325	1808	4517	820	25×n	3580	4512
8300-Cn	11648×n	6305	4465×n-45	6432	1915	4517	820	30×n	3580	4788
8400-Cn	12805×n	6305	4465×n-45	6492	1975	4517	820	40×n	3580	5358
8500-Cn	13793×n	6305	4465×n-45	6492	1975	4517	820	50×n	3580	5790
9250-Cn	11544×n	6305	4865×n-45	6325	1808	4517	820	25×n	3580	4680
9300-Cn	12259×n	6305	4865×n-45	6432	1915	4517	820	30×n	3580	4962
9400-Cn	13418×n	6305	4865×n-45	6492	1975	4517	820	40×n	3580	5550
9500-Cn	14508×n	6305	4865×n-45	6492	1975	4517	820	50×n	3580	5988
9600-Cn	15405×n	6305	4865×n-45	6194	1677	4517	1480	60×n	3580	6438
10250-Cn	12636×n	7005	5065×n-45	6456	1939	4517	820	25×n	4250	5106
10300-Cn	13416×n	7005	5065×n-45	6456	1939	4517	820	30×n	4250	5424
10400-Cn	14755×n	7005	5065×n-45	6517	2000	4517	820	40×n	4250	6072
10500-Cn	15886×n	7005	5065×n-45	6517	2000	4517	820	50×n	4250	6564
10600-Cn	16861×n	7005	5065×n-45	6207	1690	4517	1480	60×n	4250	7068

LVN

PIPING SPECIFICATION & DIMENSIONS



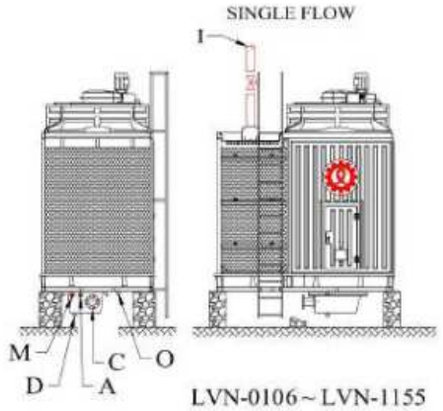
LVN-0106 ~ LVN-1155



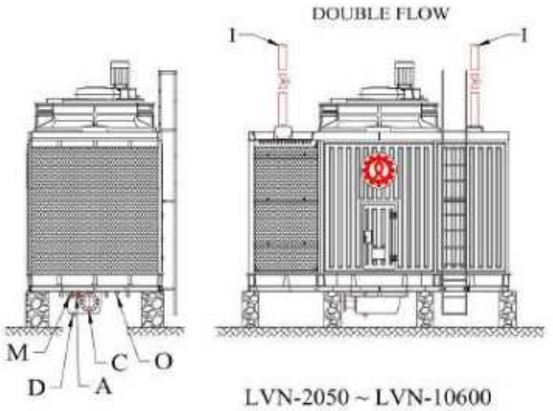
LVN-2050 ~ LVN-10600

Item / LVN	Dry Weight	Operating Weight	Tower Head	Piping Dimensions				
	Kg	Kg	Meter	Inlet (I)	Outlet (C)	Drain (D)	Overflow (O)	Auto Make Up(A) & Manual Make Up (M) (C)
0106	614	1890	4.0	4B(100A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	3/4B(20A)×2
0156	629	1905	4.0	4B(100A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	3/4B(20A)×2
0206	644	1920	4.0	4B(100A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	3/4B(20A)×2
0306	659	1935	4.0	4B(100A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	3/4B(20A)×2
0506	674	1950	4.0	5B(125A)×1	5B(125A)×1	2B(50A)×1	2B(50A)×1	1B(25A)×2
1022	849	2269	4.5	5B(125A)×1	5B(125A)×1	2B(50A)×1	2B(50A)×1	1B(25A)×2
1032	869	2289	4.5	5B(125A)×1	5B(125A)×1	2B(50A)×1	2B(50A)×1	1B(25A)×2
1052	889	2309	4.5	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
1072	909	2329	4.5	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
1102	929	2349	4.5	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
1035	925	2395	4.5	5B(125A)×1	5B(125A)×1	2B(50A)×1	2B(50A)×1	1B(25A)×2
1055	945	2415	4.5	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
1075	965	2435	4.5	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
1105	985	2455	4.5	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
1155	1015	2485	4.5	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2050	1102	2902	4.5	4B(100A)×2	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2070	1122	2922	4.5	5B(125A)×2	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2100	1142	2942	4.5	5B(125A)×2	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2150	1172	2972	4.5	5B(125A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2200	1202	3002	4.5	6B(150A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2052	1263	3313	4.5	5B(125A)×2	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2072	1283	3333	4.5	5B(125A)×2	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2102	1303	3353	4.5	5B(125A)×2	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2152	1333	3383	4.5	6B(150A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2202	1363	3413	4.5	6B(150A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2055	1329	3499	4.5	5B(125A)×2	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2075	1349	3519	4.5	5B(125A)×2	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2105	1369	3539	4.5	5B(125A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2155	1399	3569	4.5	6B(150A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2
2205	1429	3599	4.5	6B(150A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1 ½B(40A)×2

LVN PIPING SPECIFICATION & DIMENSIONS



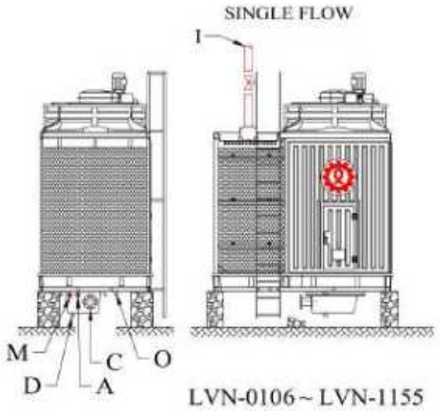
LVN-0106 ~ LVN-1155



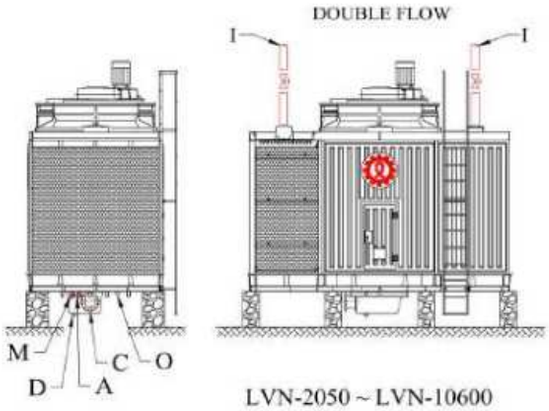
LVN-2050 ~ LVN-10600

Item / LVN	Dry Weight	Operating Weight	Tower Head	Piping Dimensions				
	Kg	Kg	Meter	Inlet (I)	Outlet (C)	Drain (D)	Overflow (O)	Auto Make Up(A) & Manual Make Up (M) (C)
3070	1486	3806	4.5	5B(125A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
3100	1506	3826	4.5	5B(125A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
3150	1526	3846	4.5	6B(150A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
3200	1556	3876	4.5	6B(150A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
3250	1586	3906	4.5	6B(150A)×2	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
3075	1943	4733	4.5	4B(100A)×4	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
3105	1963	4753	4.5	4B(100A)×4	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
3155	1983	4773	4.5	5B(125A)×4	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
3205	2013	4803	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
3255	2043	4833	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
4100	2115	5635	4.5	5B(125A)×4	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
4150	2135	5655	4.5	5B(125A)×4	8B(250A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
4200	2165	5685	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
4250	2195	5715	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
4300	2225	5745	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
4105	2455	6585	4.5	5B(125A)×4	8B(200A)×1	2B(50A)×1	2B(50A)×1	1½B(40A)×2
4155	2475	6605	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
4205	2505	6635	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
4255	2535	6665	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
4305	2565	6695	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
5150	2565	6972	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
5200	2595	7002	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
5250	2622	7032	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
5300	2652	7062	4.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
5400	2682	7092	4.5	6B(150A)×4	12B(300A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
6150	3535	8391	5.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
6200	3565	8421	5.5	5B(125A)×4	10B(250A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
6250	3595	8451	5.5	6B(150A)×4	12B(300A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
6300	3625	8481	5.5	6B(150A)×4	12B(300A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2
6400	3655	8511	5.5	6B(150A)×4	12B(300A)×1	2B(50A)×1	2B(50A)×1	2B(50A)×2

LVN PIPING SPECIFICATION & DIMENSIONS



LVN-0106 ~ LVN-1155

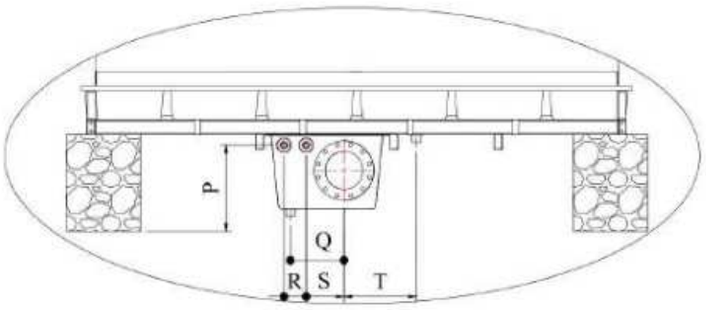


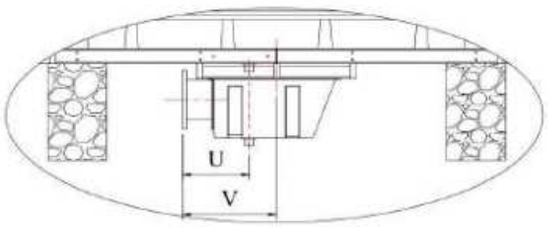
LVN-2050 ~ LVN-10600

Item / LVN	Dry Weight	Operating Weight	Tower Head	Piping Dimensions				
	Kg	Kg	Meter	Inlet (I)	Outlet (C)	Drain (D)	Overflow (O)	Auto Make Up(A) & Manual Make Up (M) (C)
7150	4580	14010	6.5	6B(150A)×4	8B(200A)×2	2B(50A)×2	4B(100A)×1	1 ½B(40A)×4
7200	4780	14210	6.5	6B(150A)×4	8B(200A)×2	2B(50A)×2	4B(100A)×1	1 ½B(40A)×4
7250	4980	14410	6.5	6B(150A)×4	8B(200A)×2	2B(50A)×2	4B(100A)×1	1 ½B(40A)×4
7300	5080	14510	6.5	6B(150A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
7400	5180	14610	6.5	6B(150A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
8200	4926	14376	6.5	6B(150A)×4	8B(200A)×2	2B(50A)×2	4B(100A)×1	1 ½B(40A)×4
8250	5126	14576	6.5	6B(150A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
8300	5326	14776	6.5	6B(150A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
8400	5426	14876	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
8500	5526	14976	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
9250	5306	16369	6.5	6B(150A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
9300	5506	16569	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
9400	5706	16769	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
9500	5806	16869	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
9600	5906	16969	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
10250	6057	18413	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
10300	6257	18613	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
10400	6457	18813	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
10500	6557	18913	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4
10600	6657	19013	6.5	8B(200A)×4	10B(250A)×2	2B(50A)×2	4B(100A)×1	2B(50A)×4

- If the pipe diameter is to change or equalized pipes are required, please contact your local sales engineer in advance.
- Total Pump Head : Piping Friction Loss + Chiller Pressure Loss + Tower Head .

LVN SUMP'S PIPING ORIENTATION





Item / LVN	Piping Orientation						
	P	Q	R	S	T	U	V
	mm	mm	mm	mm	mm	mm	mm
0106 ~ 0506	492	72	100	50	350	375	630
1022 ~ 1102	582	288.5	125	195	500	385	630
1035 ~ 1155	582	288.5	125	195	500	385	630
2050 ~ 2200	582	288.5	125	195	500	385	630
2052 ~ 2252	582	288.5	125	195	500	385	630
2055 ~ 2255	582	288.5	125	195	500	385	630
3070 ~ 3250	582	288.5	125	195	500	385	630
3075 ~ 3255	582	288.5	125	195	500	385	630
4100 ~ 4300	582	343	130	240	500	357	630
4105 ~ 4305	582	343	130	240	500	357	630
5150 ~ 5400	582	343	130	240	500	357	630
6150 ~ 6400	582	343	130	240	500	357	630
7150 ~ 7400	582	343	130	240	500	357	630
8200 ~8500	582	343	130	240	500	357	630
9250 ~ 9600	582	343	130	240	500	357	630
10250 ~ 10600	582	343	130	240	500	357	630

LVN TESTING SYSTEM
ADVANCED EQUIPMENT PERFECT PLAN

1/ Plan And Design For Test System

The plan and design consulting company appointed by C.T.I energy system engineering consulting company of USA.

2/ Boiler And Heat Exchanger System: Cleaver Brooks Corp. (U.S.A)

a. Boiler system

b. Heat exchanger

3/ Control System: Samson Corp

a. Water temperature control system

b. Flow control system

4/ Flow Indication System

a. Flow nozzle: Flow-Lin Corp

b. Magnetic inductive flow meter: Krohne Corp

c. Pitot tube alitometer: CCTA (U.S.A)

5/ Temperature Indication System

a. Thermometer RTD: CCTA (U.S.A)

b. PSYCHROMETER RTD : CCTA (U.S.A)

6/ Power Indication System

Powermeter: Esterline angus instrument Corp. (Israel)

7/ Data Acquisition & Analysis

a. Computer: IBM

b. Front end data acquisition: Fluke Corp. (U.S.A)

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