

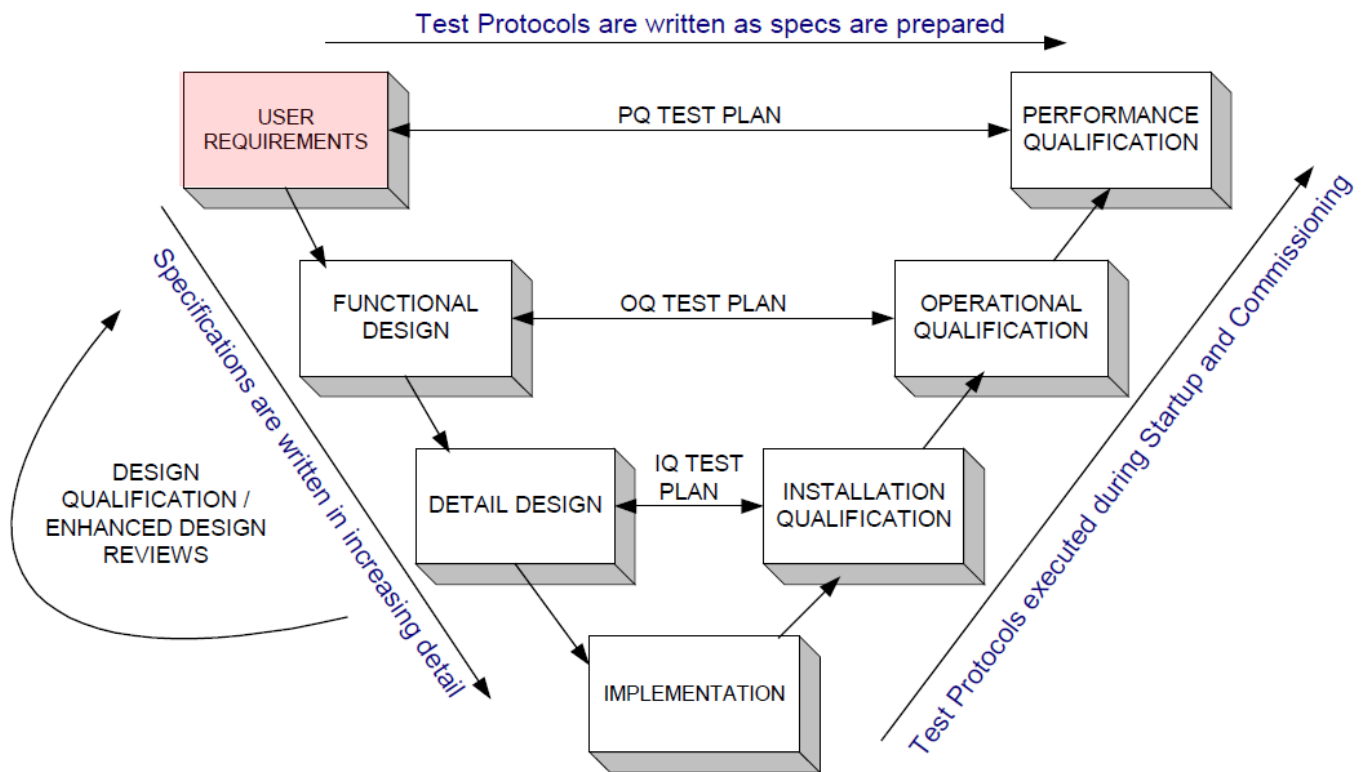
**CUSTOMER:**

**Customer**

Project Coordinator :   
 Mail Address :   
 Mobile No. :   
 Tel No. :

**Concordtech**

Sales Name : Steward  
 Mail Address : Steward @concordtech.com.tw  
 Mobile No. : 886-919-672598  
 Tel No. : 886-4-2460-3935



**CONCORD TECHNOLOGY CO., LTD.**

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 Contact : TEL: +886-4-24603999 / FAX: +886-4-23552777  
 Website : <http://www.concordtech.com.tw>

1. WATER QUALITY

➤ RAW WATER ANALYSIS

TDS	<input type="text"/>	ppm
Hardness	<input type="text"/>	ppm@CaCO3
Chlorine	<input type="text"/>	ppm

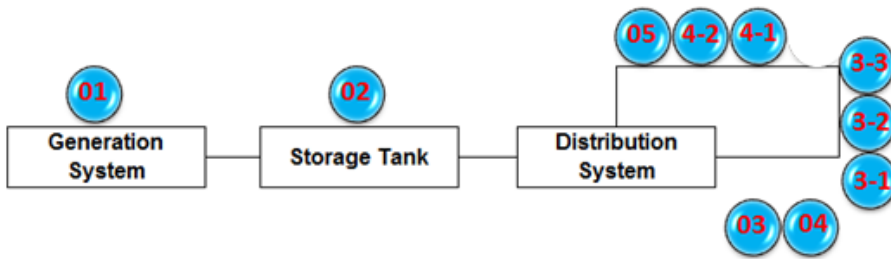
➤ PRODUCT WATER DESIGN CRITERIA

- MEET USP PW GRADE
- MEET EP PW GRADE
- MEET CP PW GRADE (CHINESE PHARMACOPOEIA)
- OTHER REQUIREMENT

Item	Spec	Units
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

➤ REMARK ITEM


2. CAPACITY DESIGN BASE



01. GENERATION SYSTEM CAPACITY:  L/HR

02. STORAGE TANK VOLUME:  L

03. DISTRIBUTION PUMP SUPPLY PRESSURE: =1+2+3:  KG/CM2

03-1. LENGTH OF DISTRIBUTION LOOP:  M ;  KG/CM2

03-2. HEIGHT OF DISTRIBUTION LOOP:  M ;  KG/CM2

03-3. PRESSURE REQUIREMENT OF P.O.U.:  KG/CM2

04. DISTRIBUTION PUMP CAPACITY: =1+2:  M3/HR, (BETWEEN 1.5~2M/S)

04-1. MAXIMUM HOUR USAGE:  M3/HR, PLEASE BREAKDOWN THE MAXIMUM HOUR USAGE LIST:

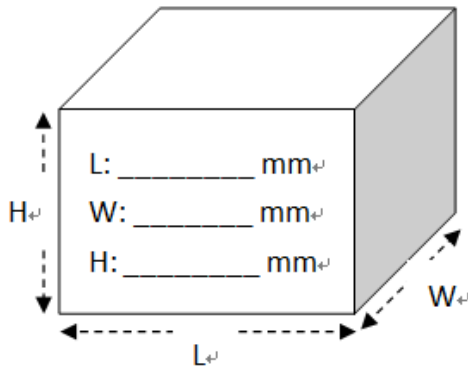
Equipment	Flow rate (LPM)	Time (min)
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

04-2. MINIMUM FLOW VELOCITY: 3~5 FT/SEC;  M3/HR

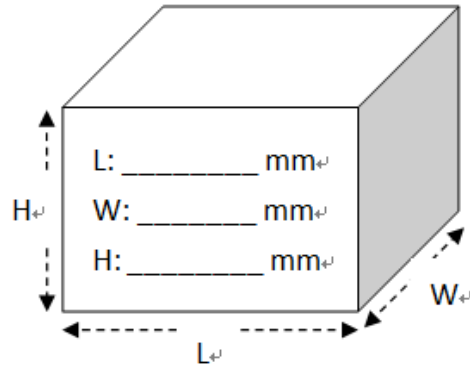
05. DISTRIBUTION LOOP TEMPERATURE:  °C

3. RELATED DOCUMENTS PROVIDED BY USER

- USER REQUIREMENT SPECIFICATIONS
- ENGINEERING SPECIFICATIONS
- EQUIPMENTS BRAND LIST
- BUILDING DRAWING / SYSTEM AREA DRAWING (CAD)



Generation Area



Distribution Area

➤ FLOOR WEIGHT LOADING:  KG/M2, (SECOND FLOOR OR ABOVE)

STORAGE TANK EMPTY WEIGHT:  KG/M2;

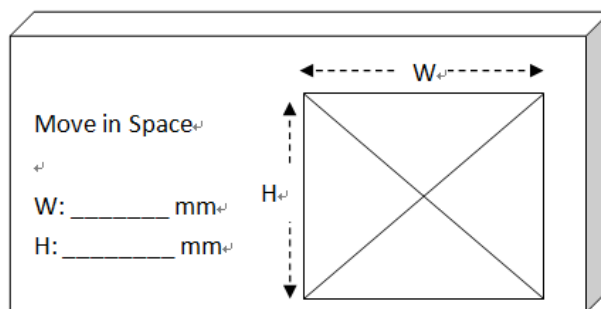
STORAGE TANK FULL WEIGHT:  KG/M2

STORAGE TANK DIAMETER:  M

STORAGE TANK AVERAGE WEIGHT PER SQUARE MEER:  KG/M2

FOUNDATION CONSTRUCTION REQUIREMENT  YES /  NO, OUT OF SCOPE

➤ MOVE IN ROUTING PLAN (OPENING SIZE H:  M, W:  M)



Limit of move in routing

4. UTILITIES SPECIFICATION AND INTERFACE

UTILITIES ITEM	SPECIFICATION	MATERIAL	SIZE	CONNECTION TYPE	LOCATION OF INTERFACE	OTHER
POTABLE WATER						
COMPRESSED AIR						
CHILLED WATER SUPPLY						
CHILLED WATER RETURN						
COOLING WATER SUPPLY						
COOLING WATER RETURN						
PLANT STEAM						
CONDENSATE						
WASTE WATER DRAIN						
VENT						
PURIFIED WATER SUPPLY						
PURIFIED WATER RETURN						
ELECTRICAL POWER						
CONTROL POWER						
MONITORING SYSTEM						

➤ REMARK ITEM


**5. VALIDATION DOCUMENTS SCOPE**

- FUNCTIONAL SPECIFICATIONS PROTOCOL**
- DETAIL DESIGN SPECIFICATIONS PROTOCOL**
- INSTRUMENTS LIST / CALIBRATION REPORT**
- ENGINEERING DOCUMENTS (DRAWING & DATA SHEET...)**
- CERTIFICATION DOCUMENTS FOR VALIDATION**
- OPERATION MANUAL AND MAINTENANCE MANUAL**
- FACTORY ACCEPTANCE TEST PROTOCOL**
- SITE ACCEPTANCE TEST PROTOCOL**
- LABORATORY TEST REPORT (WATER QUALITY ANALYSIS FOR ACCEPTANCE)**
- I/OQ PORTOCOL AND EXECUTION**
- RELATED PORTOCOLS WRITTEN IN ENGLISH**  **YES**  **NO**

**REMARK ITEM**


**6. DESIGN REQUIREMENT FOR SANITIZATION / STERILIZATION**

➤ **PRETREATMENT SYSTEM SANITIZATION DESIGN BY**

CHEMICAL SANITIZATION  HOT WATER SANITIZATION

OTHER,

➤ **GENERATION SYSTEM SANITIZATION DESIGN BY**

HOT WATER SANITIZATION

OTHER,

➤ **DISTRIBUTION SYSTEM SANITIZATION / STERILIZATION DESIGN BY**

PURE STEAM SANITIZATION  HOT WATER SANITIZATION  OZONE SANITIZATION

OTHER,

➤ **REMARK ITEM**


**7. SPARE PARTS REQUIREMENT**

➤ **MAJOR EQUIPMENTS**

**PUMPS,**

**CARTRIDGE FILTER,**  **EA**

**UV LAMPS,**  **EA**

**RO ELEMENTS,**  **EA**

**VENT FILTER,**  **EA**

**REMARK ITEM**


➤ **CRITICAL INSTRUMENTS**


➤ **CRITICAL VALVES**


➤ **REMARK ITEM**




8. MATERIAL OF PRODUCT CONTACT

➤ MATERIAL

SUS316L-3A  SUS316L-BPE,SEAMED  SUS316L-BPE,SEAMLESS

Other,

➤ MECHANICALLY POLISHED

20 MICRO-INCH RA, 0.51 MICRO-METER RA, SFT1

25 MICRO-INCH RA, 0.64 MICRO-METER RA, SFT2

30 MICRO-INCH RA, 0.76 MICRO-METER RA, SFT3

➤ MECHANICALLY POLISHED AND ELECTROPOLISHED

15 MICRO-INCH RA, 0.38 MICRO-METER RA, SFT4

20 MICRO-INCH RA, 0.51 MICRO-METER RA, SFT5

25 MICRO-INCH RA, 0.64 MICRO-METER RA, SFT6

➤ REMARK ITEM

1. BORESCOPE INSPECTION: 0% 20% 50% 100%

2. THIRD PARTY INSPECTOR: YES,QID-2 YES,QID-3 NO

3. OTHER
