



L10-P-5501-01	RECOVERED WATER LIFT PUMP
NAME	RECOVERED WATER LIFT PUMP
TYPE	SANITARY LIQUID RING
MATERIAL	316L SS
CAPACITY	25 GPM @ 38 FT THD
SIZING DATA	3 HP, 1750 RPM
MANUFACTURER	FRISTAM
MODEL NUMBER	FZX 2100
L10-T-5501-01 (NOTE 18)	RECOVERED WATER TANK
NAME	RECOVERED WATER TANK
TYPE	CONICAL BOTTOM TANK WITH STAND
MATERIAL	POLYETHYLENE
CAPACITY	250 GAL WORKING VOLUME, 330 GAL NOMINAL VOLUME
SIZING DATA	42"Ø x 91" OVERALL HEIGHT WITH STAND
MANUFACTURER	SNYDER INDUSTRIES, INC.
MODEL NUMBER	TANK: 575010N STAND: 175001N
L10-P-5501-02 (NOTE 18)	RECOVERED WATER TRANSFER PUMP
NAME	RECOVERED WATER TRANSFER PUMP
TYPE	CENTRIFUGAL
MATERIAL	316 SS, 3600 RPM
CAPACITY	30 GPM @ 60 FT THD
SIZING DATA	1.5 Hp
MANUFACTURER	GOULDS OR OWNER APPROVED EQUAL
MODEL NUMBER	3196 STI 1x1.5-6
L10-EW-5501-01	EXTERIOR VIAL WASHER
NAME	EXTERIOR VIAL WASHER
TYPE	ROTARY
MATERIAL	316L SS
CAPACITY	400 VIALS PER MINUTE
SIZING DATA	20 mL VIALS
MANUFACTURER	BAUSCH AND STRÖBEL
MODEL NUMBER	ARM1036
L10-VP-5501-01	CAPPER AND EXTERIOR VIAL WASHER VACUUM PUMP
NAME	CAPPER AND EXTERIOR VIAL WASHER VACUUM PUMP
TYPE	ROTARY VALVE
MATERIAL	BY VENDOR
CAPACITY	BY VENDOR
SIZING DATA	BY VENDOR
MANUFACTURER	BECKER
MODEL NUMBER	BY VENDOR
L10-EF-5501-03	EXTERIOR VIAL WASHER EXHAUST BLOWER #1
NAME	EXTERIOR VIAL WASHER EXHAUST BLOWER #1
TYPE	BY VENDOR
MATERIAL	BY VENDOR
CAPACITY	BY VENDOR
SIZING DATA	BY VENDOR
MANUFACTURER	BY VENDOR
MODEL NUMBER	BY VENDOR
L10-EF-5501-02	EXTERIOR VIAL WASHER EXHAUST BLOWER #2
NAME	EXTERIOR VIAL WASHER EXHAUST BLOWER #2
TYPE	RADIAL FAN
MATERIAL	BY VENDOR
CAPACITY	105 CFM
SIZING DATA	BY VENDOR
MANUFACTURER	HURNER FUNKEN
MODEL NUMBER	TYPE HFR 140-17D
L10-CP-5501-01	CAPPER
NAME	CAPPER
TYPE	ROTARY CRIMPING
MATERIAL	TITANIUM
CAPACITY	400 VIALS PER MINUTE
SIZING DATA	20 mL VIALS
MANUFACTURER	BAUSCH AND STRÖBEL
MODEL NUMBER	RVB4090
L10-F-5501-01 (NOTE 18)	COMPRESSED AIR FILTER
NAME	COMPRESSED AIR FILTER
TYPE	CARTRIDGE
MATERIAL	HYDROPHOBIC PTFE/PP/316L SS
CAPACITY	100 CFM @ 2.0m
SIZING DATA	20"
MANUFACTURER	SARTORIUS
MODEL NUMBER	HU12U7X00TV(HOUSING)S182507T2-VGA(CARTRIDGE)
L10-F-5501-02 (NOTE 18)	COMPRESSED AIR FILTER
NAME	COMPRESSED AIR FILTER
TYPE	CARTRIDGE
MATERIAL	HYDROPHOBIC PTFE/PP/316L SS
CAPACITY	<1 CFM @ 2.0m
SIZING DATA	5"
MANUFACTURER	SARTORIUS
MODEL NUMBER	HU10U7X00ROV (HOUSING)S182507T0-VGA (CARTRIDGE)

- NOTES:
- ALL NOTES ON DRAWING L10-P-001 APPLY TO THIS DRAWING.
 - PERMISSIVE FROM WFI SYSTEM.
 - EQUIPMENT, PIPING, AND INSTRUMENTATION SHOWN WITHIN THE VENDOR PACKAGE LINES ARE CONCEPTUAL ONLY. FINAL VENDOR P&IDs WILL DEPICT THE ACTUAL SYSTEM APPLIED BY THE VENDOR.
 - CONTRACTOR WILL BE RESPONSIBLE FOR PIPING AND WIRING BETWEEN VENDOR PACKAGES.
 - WHEN THE EXTERIOR VIAL WASHER BLOWERS ARE OPERATING, THE PCS SHALL COMPENSATE THE ROOM HVAC.
 - THE CAPPING OPERATION IS ENCLOSED WITHIN THE CAPPER RABS.
 - VENDOR PROVIDED, CONTRACTOR TO INSTALL COMMUNICATION/POWER CABLE.
 - CONTRACTOR TO PROVIDE BIRD AND INSECT SCREEN.
 - VENT TO A SAFE LOCATION.
 - CONTRACTOR TO PROVIDE STAINLESS STEEL SHROUD FOR ALL PIPING AND CABLES LINES FROM THE CEILING TO POINT OF CONNECTION. CONTRACTOR TO PROVIDE ESCUTCHEONS OR OTHER METHODS TO SEAL PENETRATIONS THRU THE CEILING.
 - WFI SAMPLE LINES MUST BE SLOPED TO BE FREE DRAINING.
 - REFER TO SPECIFICATION "233113 - METAL DUCTS" FOR MATERIAL REQUIREMENTS.
 - PROVIDE SEISMIC BREAK FOR LINE PENETRATING SPINE WALL.
 - HIGH NON-VIABLE PARTICLE COUNT ALARM WILL CAUSE THE CAPPER AND EXTERIOR VIAL WASHER TO STOP.
 - ROOM ENVIRONMENT ALARM WILL CAUSE THE CAPPER AND EXTERIOR VIAL WASHER TO STOP.
 - CAPPER RABS FAN FAILURE WILL CAUSE THE CAPPER AND EXTERIOR VIAL WASHER TO STOP.
 - WFI TEMPERATURE TOO HIGH WILL CAUSE THE CAPPER AND EXTERIOR VIAL WASHER TO STOP.
 - CONTRACTOR TO PROVIDE EQUIPMENT ITEM BASED ON INFORMATION ON THIS DRAWING.

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BUILDING 10
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TENANT IMPROVEMENTS
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NO.	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	06/11/2015
1	AS-BUILT	12/18/2015
2	ISSUED FOR CONSTRUCTION	02/21/2020

PIPING & INSTRUMENTATION DIAGRAM
CAPPER AND EXTERIOR VIAL WASHER
L10-P2-5501

DRAWN: LLM PROJECT NO: 19025
 CHECKED: RK PRINT DATE: 02/13/20
 APPROVED: RK

LAST LINE #: 550123
 LAST VALVE #: 030
 LAST INSTR #: 050
 LAST HOSE #: 000

AE
 ISSUE DATE: 02/20/20