

Installation Instructions for Cooling Tower Conductivity Bleed & Inhibitor Dosing with:

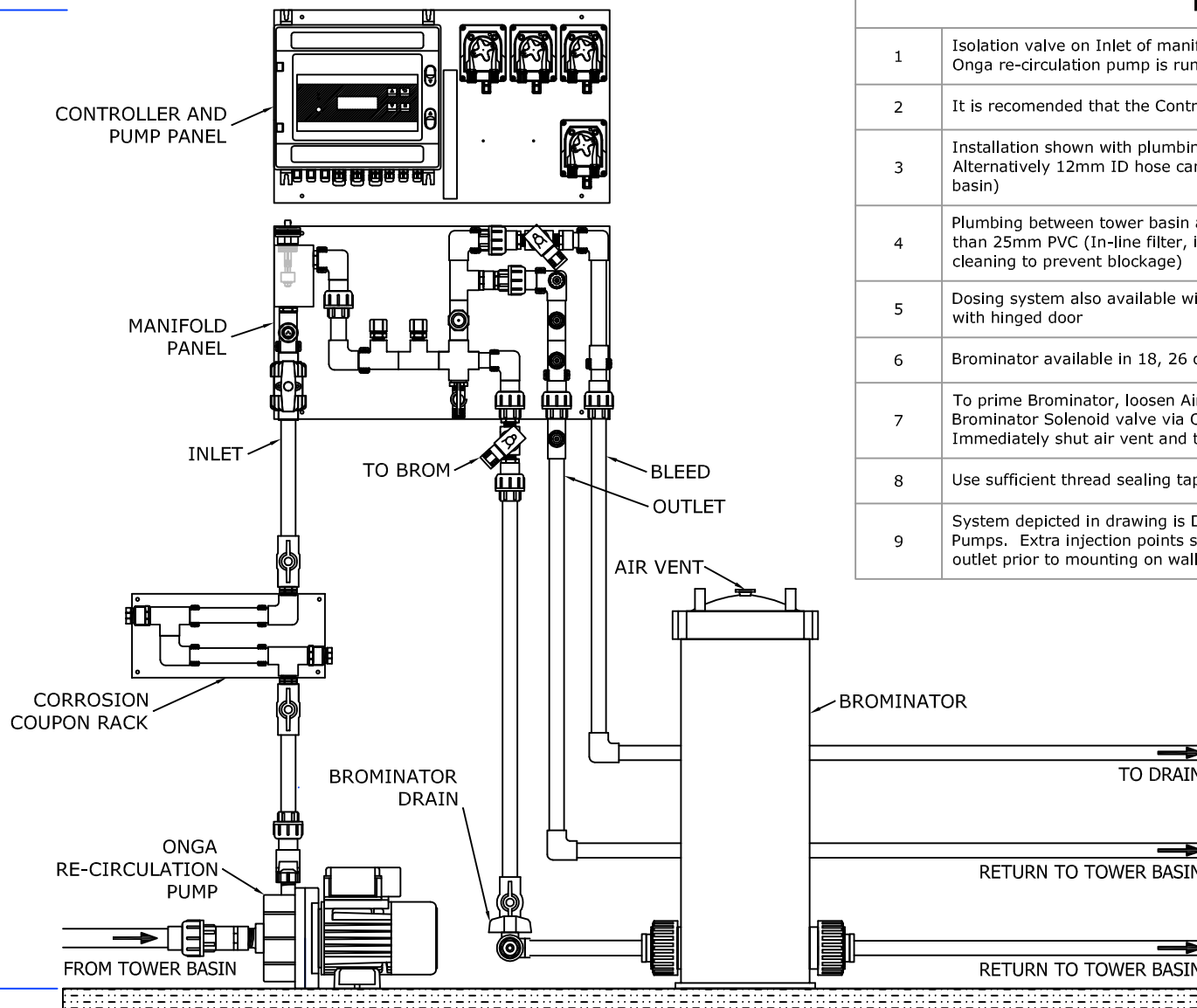
- Brominator Dosing via ORP



Part Number	Installation Drawing No		Systems with XP2 Series Controllers				Systems with DIGICHEM Plus+ Controller		
			No ORP or pH	pH Control	ORP Control		ORP Control with pH monitoring		
	With Onga Recirc pump	Take-off from Condenser Pump	Timed Biocides Only	Timed Biocides w/pH control (No ORP control)	Chlorine Dosing	Brominator Dosing	Chlorine & Acid (pH) Dosing	Chlorine & Bromine Dosing	Brominator Dosing
DIGICHEM-A2-V	A1 & A2	B1 & B2	•						
DIGICHEM-A2-V-CABG	A1 & A2	B1 & B2	•						
DIGICHEM-AB2-V	A1 & A2	B1 & B2	•						
DIGICHEM-AB2-V-CABG	A1 & A2	B1 & B2	•						
DIGI-A2PH2A-P	C1 & C2	D1 & D2		•					
DIGI-A2PH2A-P-CABG	C1 & C2	D1 & D2		•					
DIGI-AB2PH2A-P	C1 & C2	D1 & D2		•					
DIGI-AB2PH2A-P-CABG	C1 & C2	D1 & D2		•					
DIGI-A2RX2A-B	G1 & G2	H1 & H2				•			
DIGI-A2RX2A-B-CABG	G1 & G2	H1 & H2				•			
DIGI-AB2RX2A-B	G1 & G2	H1 & H2				•			
DIGI-AB2RX2A-B-CABG	G1 & G2	H1 & H2				•			
DIGI-A2RX2A-P	C1 & C2	D1 & D2			•				
DIGI-A2RX2A-P-CABG	C1 & C2	D1 & D2			•				
DIGI-AB2RX2A-P	C1 & C2	D1 & D2			•				
DIGI-AB2RX2A-P-CABG	C1 & C2	D1 & D2			•				
DP-CAPHP-RXP	C1 & C2	D1 & D2					•		
DP-CAPHP-RXP-CAB	C1 & C2	D1 & D2					•		
DP-CAPH-RXPP	E1 & E2	F1 & F2						•	
DP-CAPH-RXPP-CAB	E1 & E2	F1 & F2						•	
DP-CAPH-RXB	G1 & G2	H1 & H2							•
DP-CAPH-RXB-CAB	G1 & G2	H1 & H2							•

G1

1750mm Recommended mounting height from ground



NOTES

- Isolation valve on Inlet of manifold or coupon rack must NEVER be shut when Onga re-circulation pump is running
- It is recommended that the Controller display is mounted at eye level
- Installation shown with plumbing after the Onga pump in 20mm PVC pipe. Alternatively 12mm ID hose can be used (except for brominator return to tower basin)
- Plumbing between tower basin and Onga pump suction must not be smaller than 25mm PVC (In-line filter, if fitted must be 1" or larger and requires regular cleaning to prevent blockage)
- Dosing system also available with controller and pumps in weatherproof cabinet with hinged door
- Brominator available in 18, 26 or 100kg capacity
- To prime Brominator, loosen Air vent on Brominator and manually activate Brominator Solenoid valve via ORP controller until water exits air vent. Immediately shut air vent and then de-activate Solenoid valve
- Use sufficient thread sealing tape on all threaded connections to prevent leaks
- System depicted in drawing is DP-CAPH-RXB with optional Acid and Dispersant Pumps. Extra injection points supplied loose must be screwed to manifold outlet prior to mounting on wall



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Controls**

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Ver	Date	Notes	By	Check
1.1	16/02/12	Upgraded Manifold	LF	LN
1.0	21/05/08	ORIGINAL	LF	LN

Filename
S:\Data Files\Service & Installation\Installation
Diagrams\DP-CAPH-RXB

Drawn By
LF Date
21/05/08

Checked By
LN Date
21/05/08

Scale
N/A

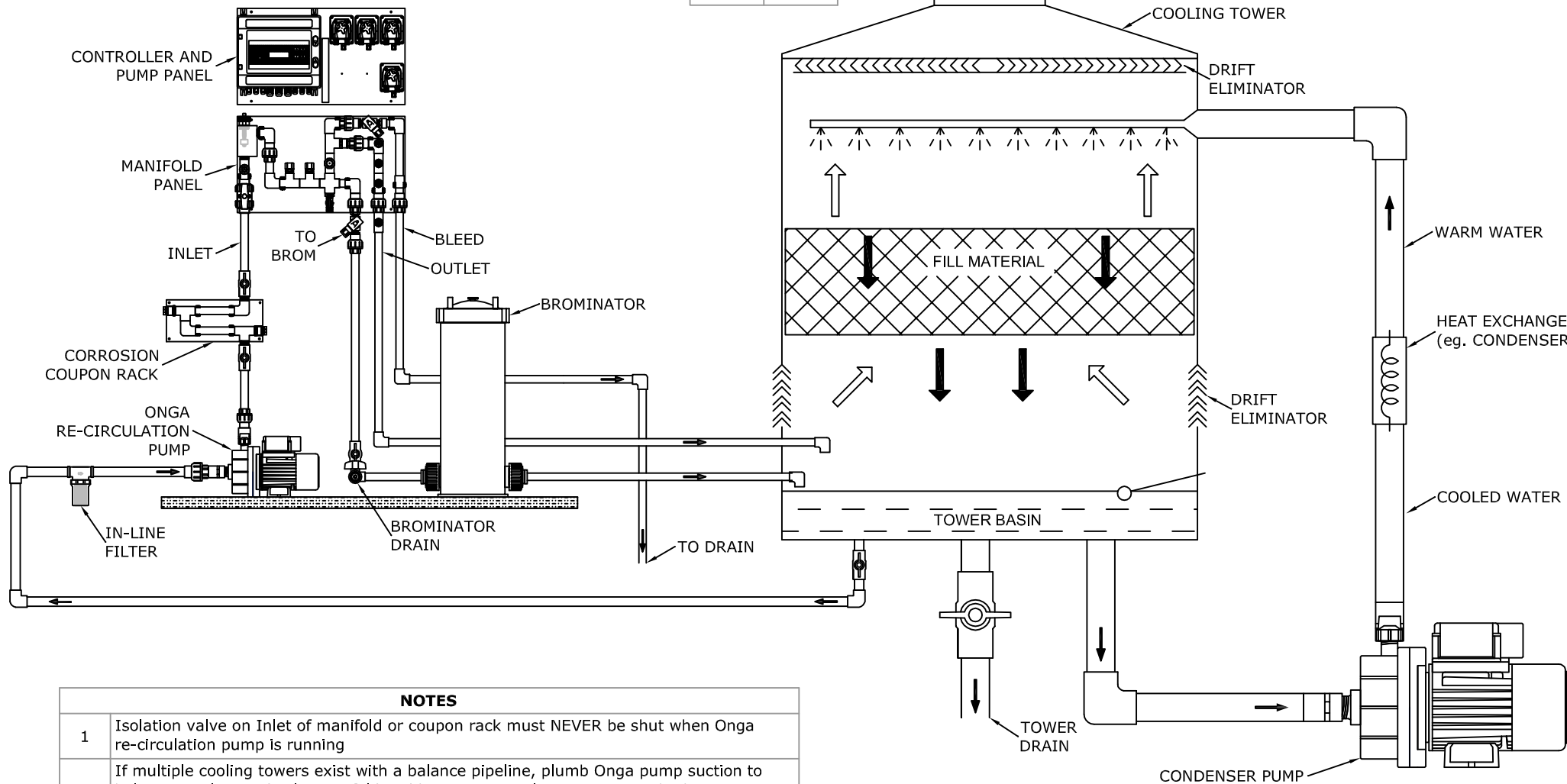
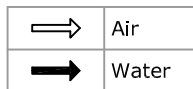
DIMENSIONS ARE IN MM
DO NOT SCALE

Title
INSTALLATION DIAGRAM FOR DP-CAPH-RXB, DP-CAPH-RXB-CAB, DIGI-A(B)2-RX2A-B, DIGI-A(B)2-RX2A-B-CABG
WITH OPTIONAL DISPERSANT PUMP, ONGA RE-CIRCULATION PUMP, COUPON RACK AND BROMINATOR

Project / Part Number
DP-CAPH-RXB Ver
1.1

Client
CONVERGENT WATER CONTROLS Drawing No
DRAWING NO

G2



NOTES

- 1 Isolation valve on Inlet of manifold or coupon rack must NEVER be shut when Onga re-circulation pump is running
- 2 If multiple cooling towers exist with a balance pipeline, plumb Onga pump suction to balance pipeline and split manifold and brominator outlets to return to both tower basins. To achieve good chemical mixing, return manifold flow to multiple points per tower basin



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1.0	21/05/08	ORIGINAL	LF	LN	
Ver	Date	Notes	By	Check	

Filename
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Diagrams\DP-CAPH-RXB

Drawn By
LF
Date
21/05/08
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LN
Date
21/05/08
Scale
N/A

DIMENSIONS ARE IN MM
DO NOT SCALE

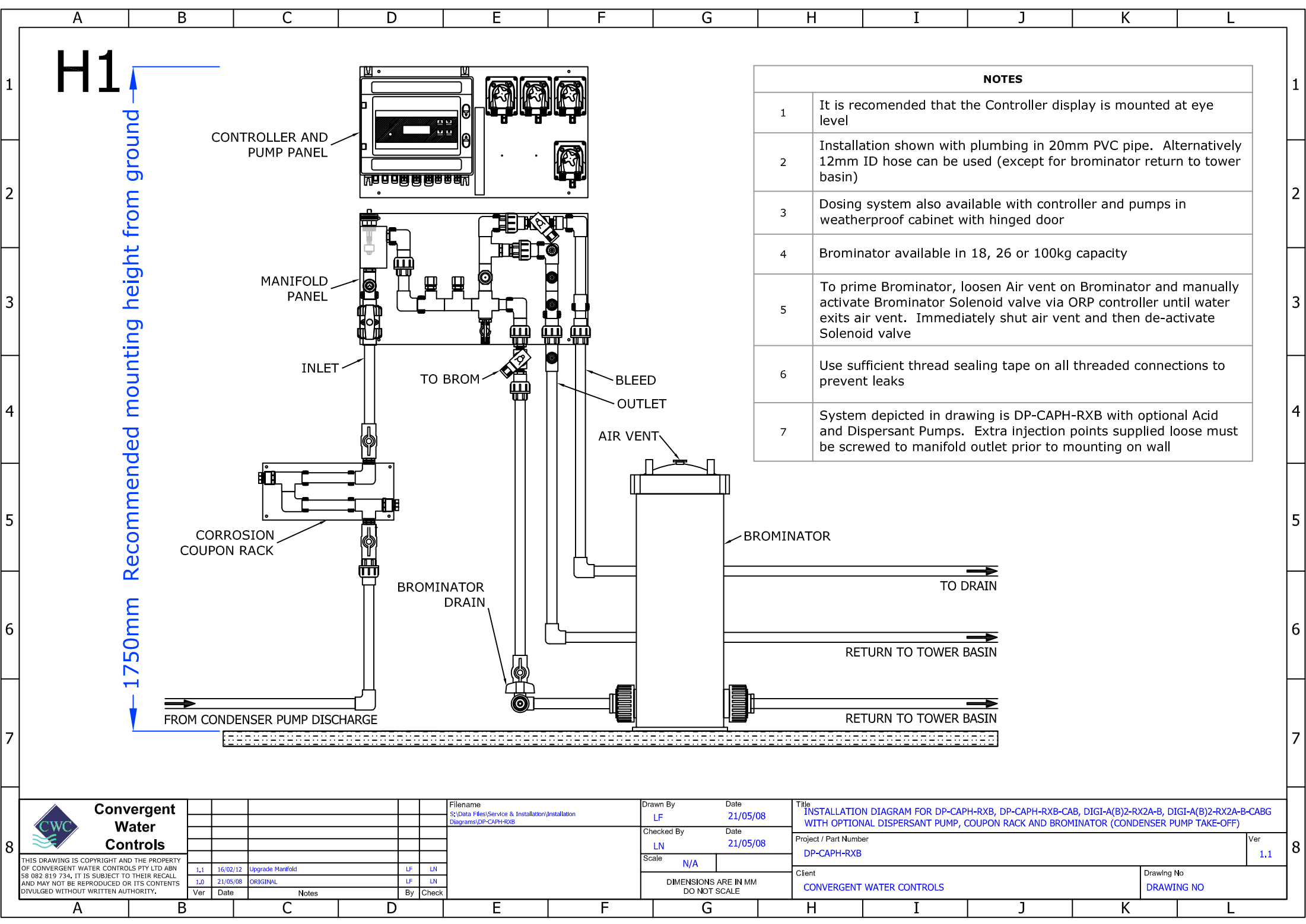
Title
GENERIC DIAGRAM OF CONDUCTIVITY AND ORP (BROMINATOR) DOSING SYSTEM PLUMBED TO COOLING TOWER WITH ONGA RE-CIRCULATION PUMP


Project / Part Number
DP-CAPH-RXB

Client
CONVERGENT WATER CONTROLS

Drawing No
DRAWING NO

Ver
1.1





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1.0	21/05/08	ORIGINAL	LF	LN

Filename
S:\Data Files\Service & Installation\Installation Diagrams\DP-CAPH-RXB

Drawn By
LF

Checked By
LN

Scale
N/A

Date
21/05/08

Date
21/05/08

DIMENSIONS ARE IN MM
DO NOT SCALE

Title
INSTALLATION DIAGRAM FOR DP-CAPH-RXB, DP-CAPH-RXB-CAB, DIGI-A(B)2-RX2A-B, DIGI-A(B)2-RX2A-B-CABG WITH OPTIONAL DISPERSANT PUMP, COUPON RACK AND BROMINATOR (CONDENSER PUMP TAKE-OFF)

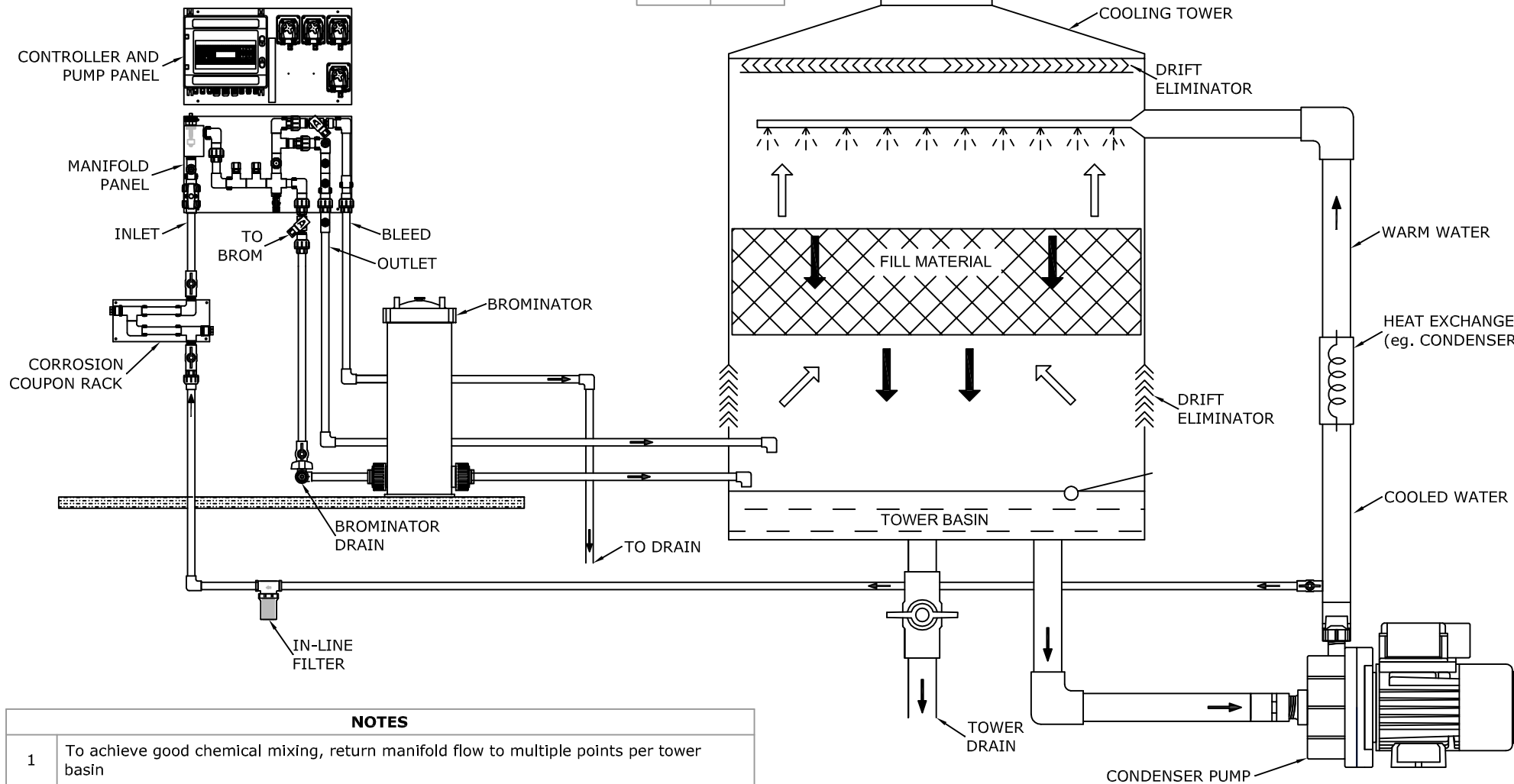
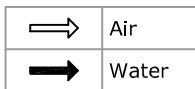
Project / Part Number
DP-CAPH-RXB

Client
CONVERGENT WATER CONTROLS

Drawing No
DRAWING NO

Ver
1.1

H2



NOTES

- To achieve good chemical mixing, return manifold flow to multiple points per tower basin
- Refer to detailed installation diagram for full installation instructions for DP-CAPH-RXB, DP-CAPH-RXB-CAB, DIGI-A(B)2-RX2A-B and DIGI-A(B)2-RX2A-B-CABG with Condenser Pump Take-off



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1.0	21/05/08	ORIGINAL	LF	LN

Filename
S:\Data Files\Service & Installation\Installation
Diagrams\DP-CAPH-RXB

Drawn By
LF
Date
21/05/08
Checked By
LN
Date
21/05/08
Scale
N/A

DIMENSIONS ARE IN MM
DO NOT SCALE

Title
GENERIC DIAGRAM OF CONDUCTIVITY AND ORP (BROMINATOR) DOSING SYSTEM PLUMBED TO COOLING TOWER FROM CONDENSER PUMP DISCHARGE

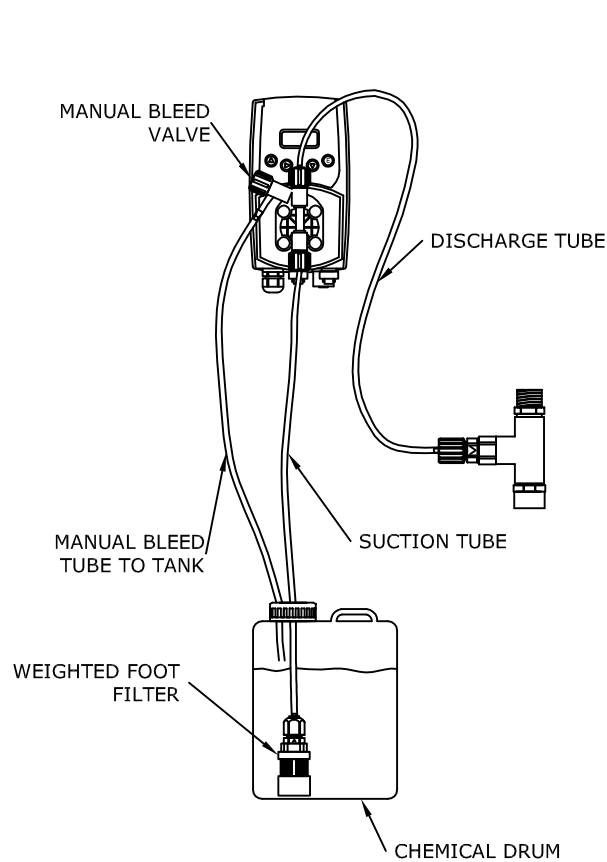
Project / Part Number
DP-CAPH-RXB

Client
CONVERGENT WATER CONTROLS

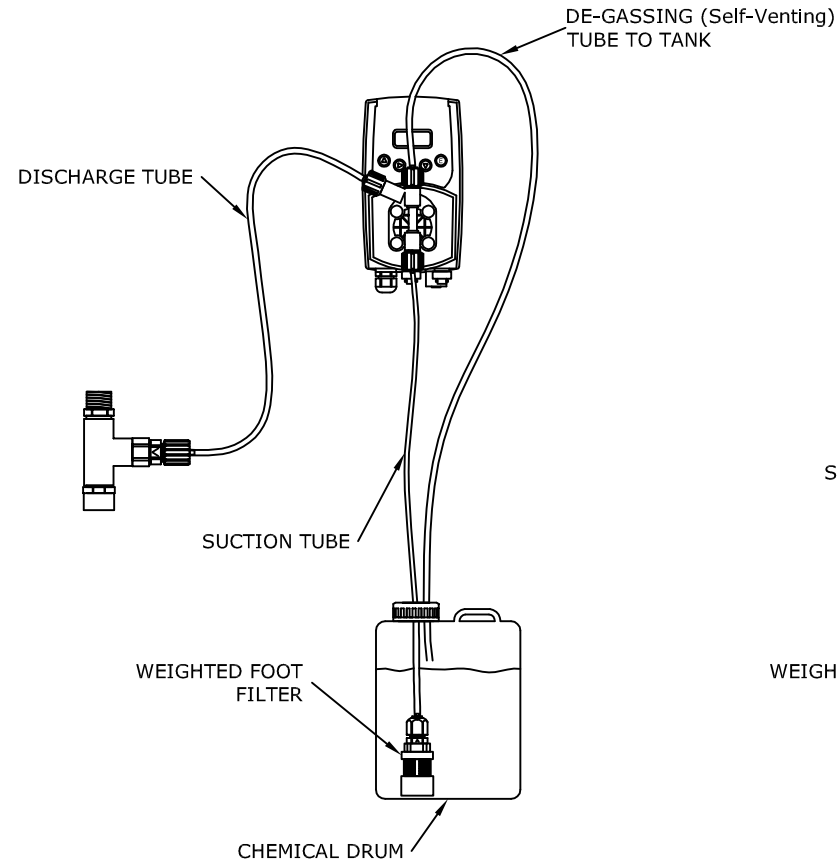
Drawing No
DRAWING NO

Ver
1.1

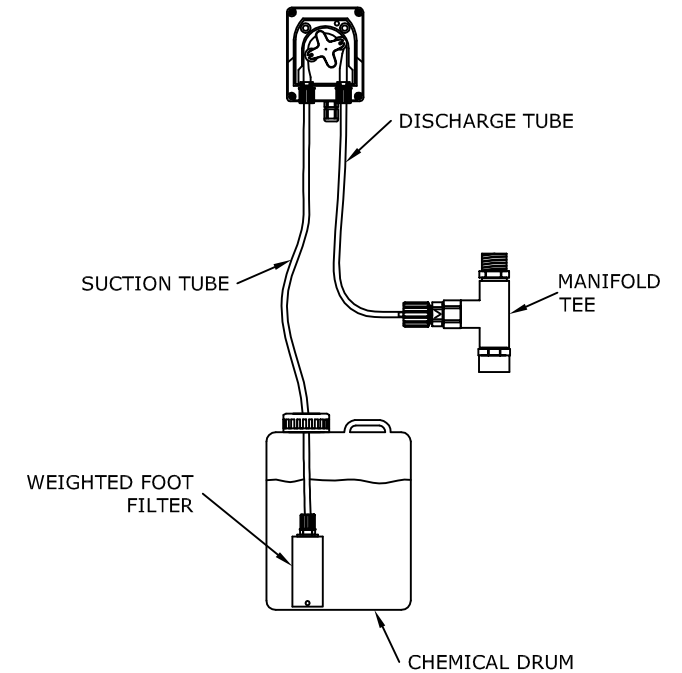
EMEC V SERIES PUMP



EMEC VA SERIES PUMP



SEKO PERISTALTIC PUMP



Notes

- 1 All tubing supplied with pumps has 4mm inside diameter, 6mm outside diameter. Suction tubing is clear PVC, Discharge tubing is black PE
- 2 It is recommended that pumps are mounted less than 2m from base of chemical drum



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Filename
S:\Data Files\Service & Installation\Installation Diagrams\EMEC & SEKO Dosing Pump Installation

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Date
17/02/12

Checked By
LN

Date
17/02/12

Scale
N/A

DIMENSIONS ARE IN MM
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Title
Pump Installation Diagram

Project / Part Number
EMEC V SERIES & SEKO PUMPS

Client
CONVERGENT WATER CONTROLS

Drawing No
DRAWING NO

Ver
1.0