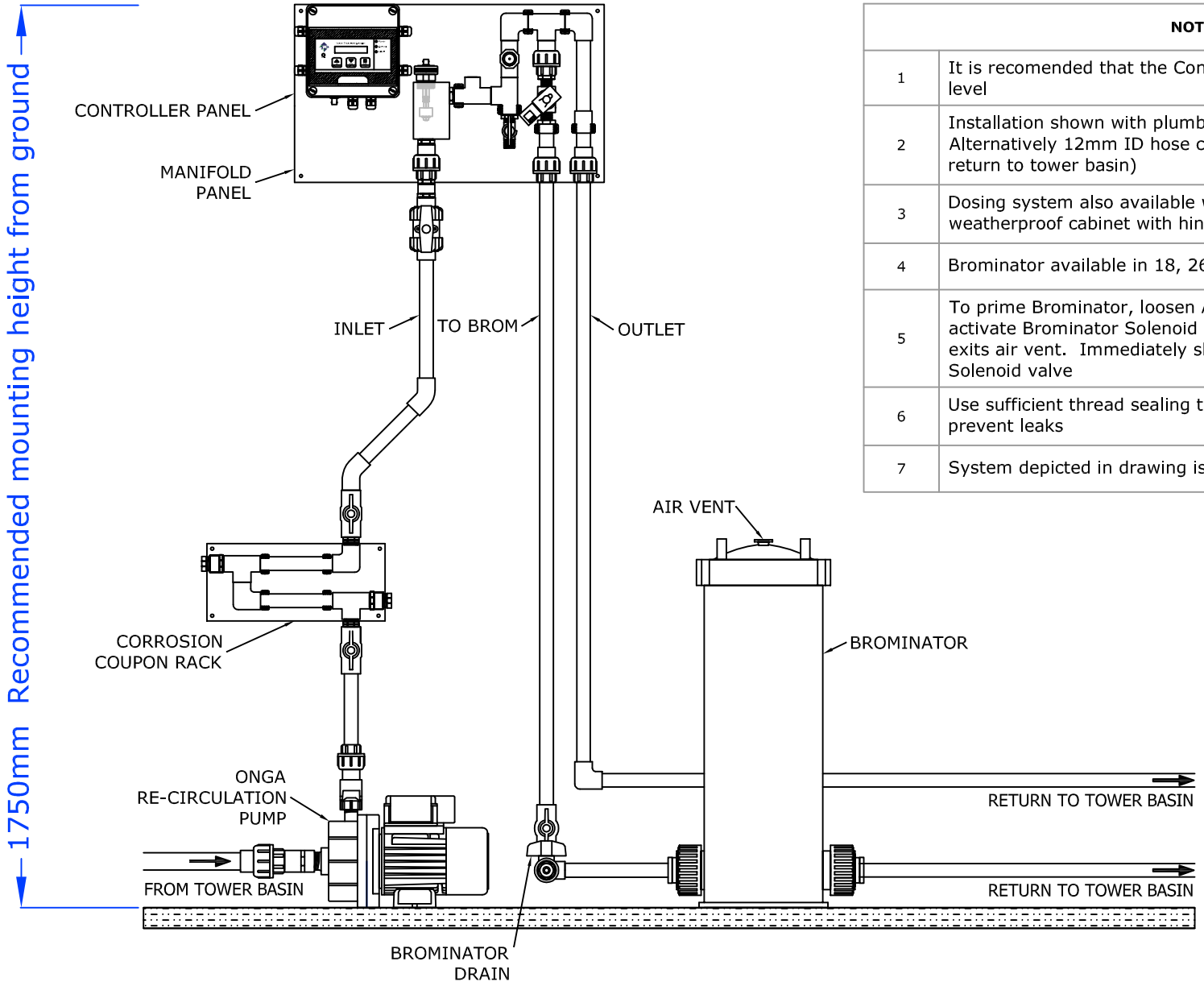
Installation Instructions for Cooling Tower Dosing with:

- *Liquid Chlorine Dosing via ORP*
- *Brominator Dosing via ORP*
- *pH Control*

Convergent Water Controls

Part Number	Installation Drawing No		Systems with ORP or pH XP2 Series Controllers		
			ORP Control		pH Control
	With Onga Recirc pump	*Take-off from Condenser Pump*	Chlorine Dosing	*Brominator Dosing*	*Acid or Base Dosing*
DCON-RX2-P	I1 & I2	J1 & J2	•		
DCON-RX2-P-CABG	I1 & I2	J1 & J2	•		
DCON-RX2-B	K1 & K2	L1 & L2		•	
DCON-RX2-B-CABG	K1 & K2	L1 & L2		•	
DCON-PH2-P	I1 & I2	J1 & J2			•
DCON-PH2-P-CABG	I1 & I2	J1 & J2			•

K1



NOTES	
1	It is recomended that the Controller display is mounted at eye level
2	Installation shown with plumbing in 20mm PVC pipe. Alternatively 12mm ID hose can be used (except for brominator return to tower basin)
3	Dosing system also available with controller and manifold in weatherproof cabinet with hinged door
4	Brominator available in 18, 26 or 100kg capacity
5	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
6	Use sufficient thread sealing tape on all threaded connections to prevent leaks
7	System depicted in drawing is DCON-RX2A-B.

Convergent Water Controls

Ver	Date	Notes	By	Check
1.0	12/07/12	ORIGINAL	LF	LN

Filename: S:\Data Files\Service & Installation\Installation Diagrams\DCON-RX2-B

Drawn By: LF — Date: 12/07/12

Checked By: LN — Date: 12/07/12

Scale: N/A

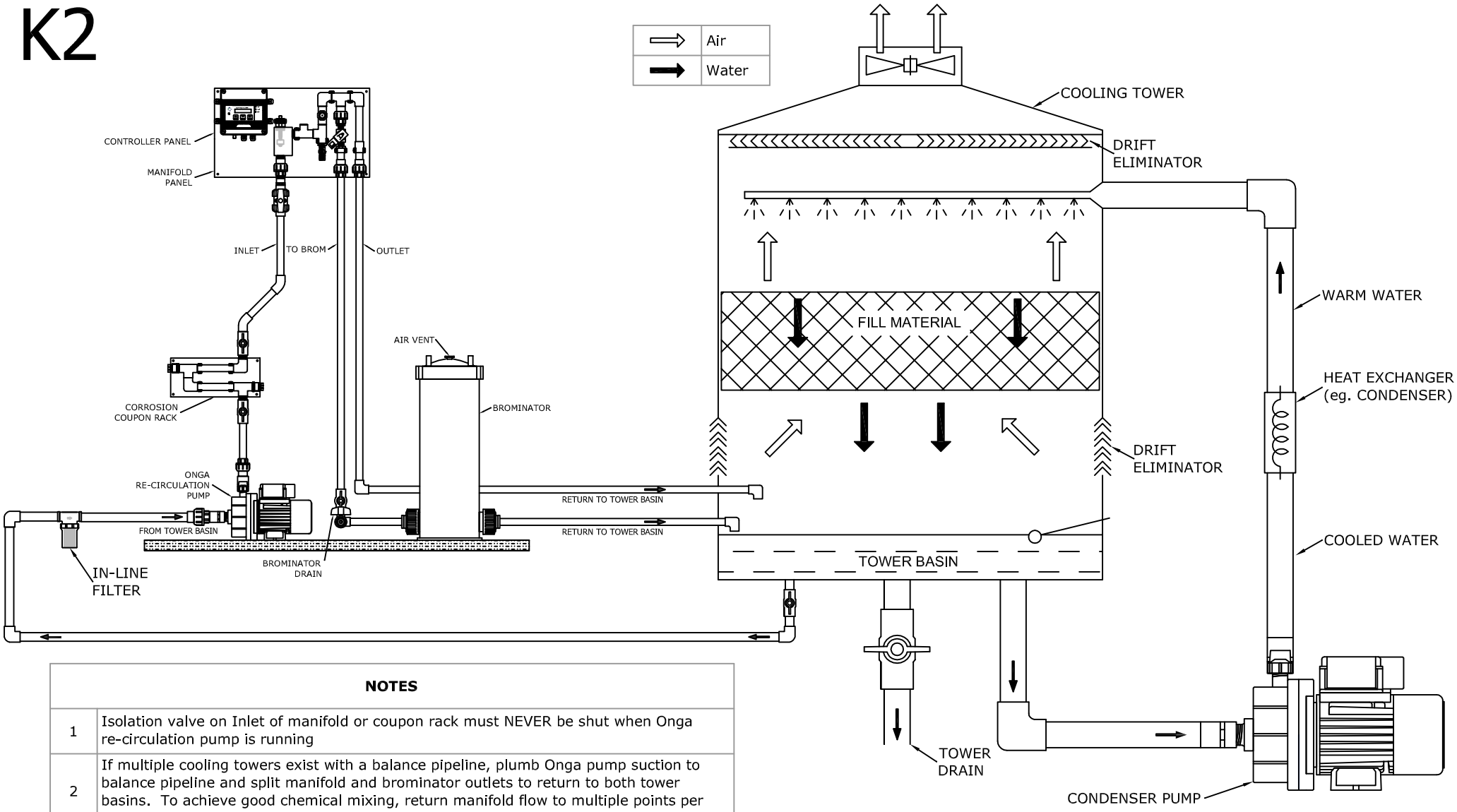
DIMENSIONS ARE IN MM DO NOT SCALE

Title: INSTALLATION DIAGRAM FOR DCON-RX2A-B, DCON-RX2A-B-CABG WITH COUPON RACK AND BROMINATOR WITH ONGA RE-CIRCULATION PUMP

Project / Part Number: DCON-RX2A-B — Ver: 1.0

Client: CONVERGENT WATER CONTROLS — Drawing No: DRAWING NO

K2



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
3	Refer to detailed installation diagram for full installation instructions for DCON-RX2-B, DCON-RX2-B-CAB

Convergent Water Controls

Ver	Date	Notes	By	Check
1.0	12/07/12	ORIGINAL	LF	LN

Filename: S:\Data Files\Service & Installation\Installation Diagrams\DCON-RX2-B

Drawn By: LF — Date: 12/07/12

Checked By: LN — Date: 12/07/12

Scale: N/A

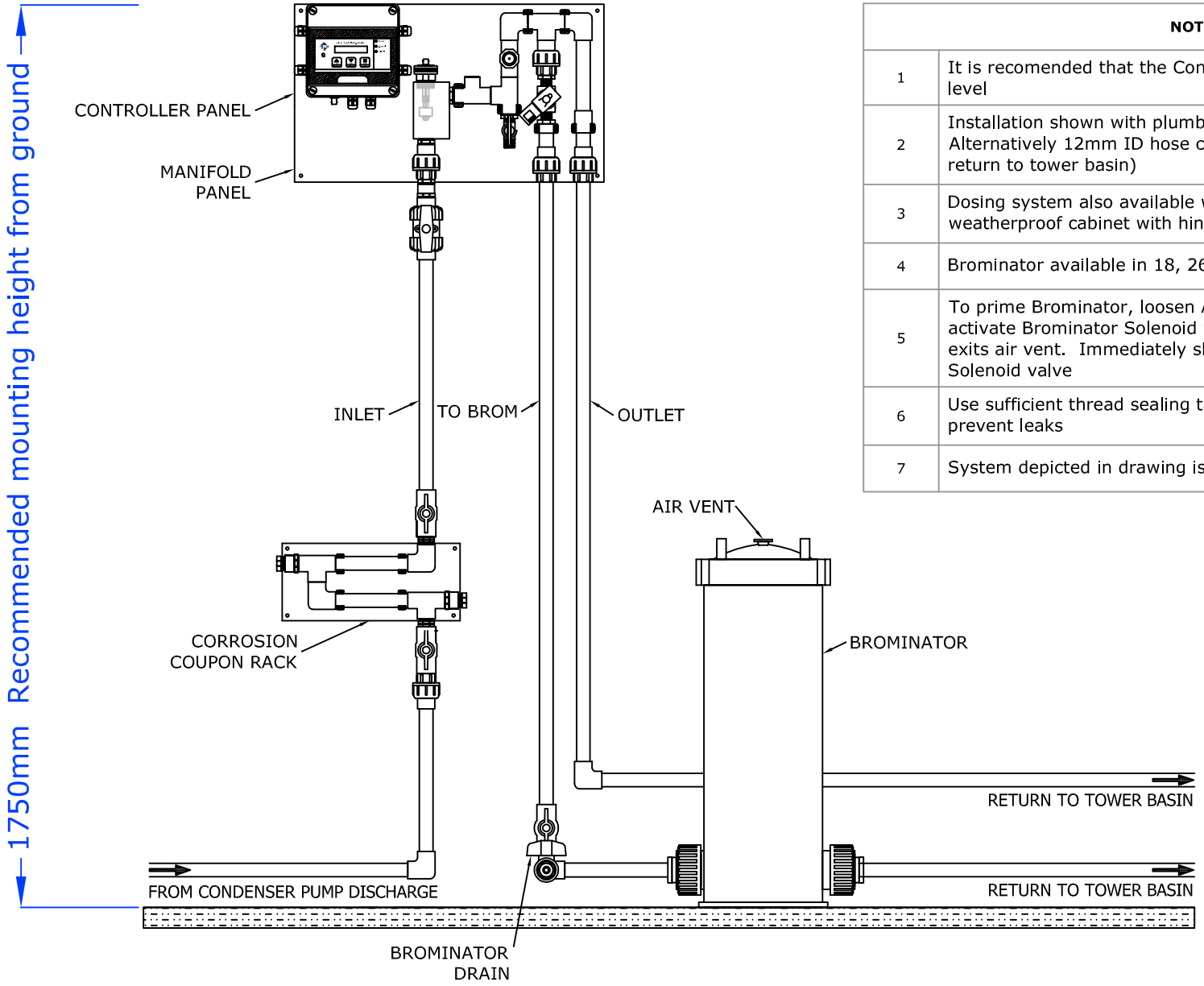
DIMENSIONS ARE IN MM DO NOT SCALE

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

Project / Part Number: DCON-RX2-B — Ver: 1.0

Client: CONVERGENT WATER CONTROLS — Drawing No: DRAWING NO

L1



NOTES	
1	It is recomended that the Controller display is mounted at eye level
2	Installation shown with plumbing in 20mm PVC pipe. Alternatively 12mm ID hose can be used (except for brominator return to tower basin)
3	Dosing system also available with controller and manifold in weatherproof cabinet with hinged door
4	Brominator available in 18, 26 or 100kg capacity
5	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
6	Use sufficient thread sealing tape on all threaded connections to prevent leaks
7	System depicted in drawing is DCON-RX2A-B.

Convergent Water Controls

Ver	Date	Notes	By	Check
1.0	12/07/12	ORIGINAL	LF	LN

Filename: S:\Data Files\Service & Installation\Installation Diagrams\DCON-RX2-B

Drawn By: LF — Date: 12/07/12

Checked By: LN — Date: 12/07/12

Scale: N/A

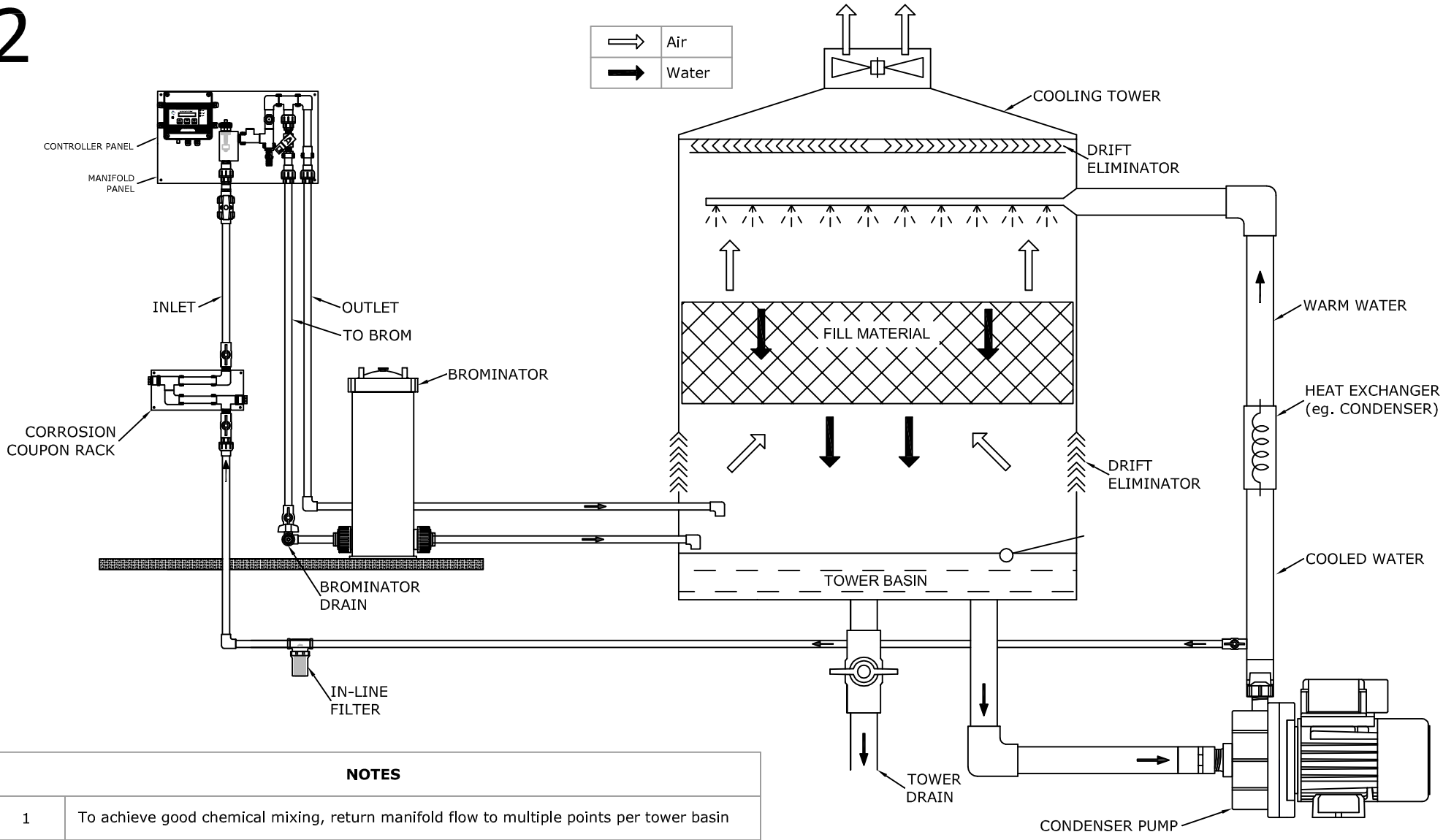
DIMENSIONS ARE IN MM DO NOT SCALE

Title: INSTALLATION DIAGRAM FOR DCON-RX2A-B, DCON-RX2A-B-CABG WITH COUPON RACK AND BROMINATOR (CONDENSER PUMP TAKE-OFF)

Project / Part Number: DCON-RX2A-B — Ver: 1.0

Client: CONVERGENT WATER CONTROLS — Drawing No: DRAWING NO

L2



NOTES	
1	To achieve good chemical mixing, return manifold flow to multiple points per tower basin
2	Refer to detailed installation diagram for full installation instructions for DCON-RX2-B, DCON-RX2-B-CAB

Convergent Water Controls

Ver	Date	Notes	By	Check
1.0	12/07/12	ORIGINAL	LF	LN

Filename: S:\Data Files\Service & Installation\Installation Diagrams\DCON-RX2-B

Drawn By: LF — Date: 12/07/12

Checked By: LN — Date: 12/07/12

Scale: N/A

DIMENSIONS ARE IN MM DO NOT SCALE

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

Project / Part Number: DCON-RX2-B — Ver: 1.0

Client: CONVERGENT WATER CONTROLS — Drawing No: DRAWING NO