

## COOLING SOLUTIONS, CHILLED WATER UNIT ,UPFLOW (REAR AIR SUCTION) 37kW ,3ph, 60Hz, DRAWING GUIDE

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1	Drawing Guide	Cooling Solutions, Chilled Water Unit, Upflow (Rear air suction), 37kW 3ph 60Hz, Drawing Guide
2	General Arrangement	Cooling Solutions, Chilled Water Unit, Upflow (Rear air suction), 37kW 3ph 60Hz, General Arrangement
3	Top, Bottom View & Anchoring	Cooling Solutions, Chilled Water Unit, Upflow (Rear air suction), 37kW 3ph 60Hz, Top, Bottom View & Anchoring
4	Piping & Electrical Specification	Cooling Solutions, Chilled Water Unit, Upflow (Rear air suction), 37kW 3ph 60Hz, Piping & Electrical Specification

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TITLE: COOLING SOLUTIONS  
CHILLED WATER UNIT  
UPFLOW(REAR AIR SUCTION)  
37kW, 3Ph, 60Hz  
DRAWING GUIDE

DWG NO: TUCV1200-RR

REV. 1

DRAWN BY: K NAGENDRA/S CUNHA 29-JUN-12

THIRD

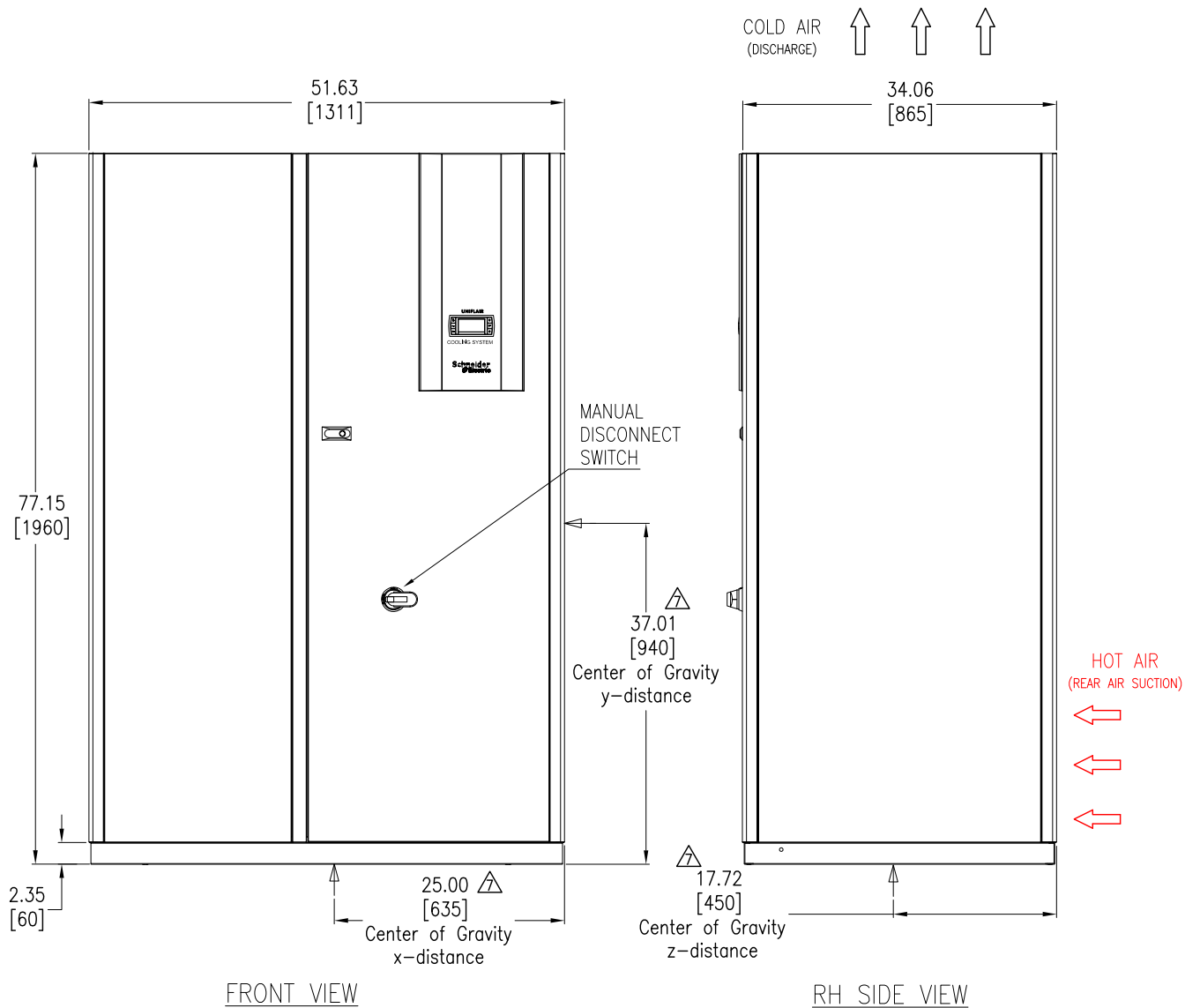
ENGINEER: K BAER 28-FEB-12

ANGLE

PROJECT: DRAWINGS SHEET 1 OF 4

APPROVED BY: C CUMMISKEY 28-FEB-12

PROJECTION



**NOTES:**

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. PLEASE REFER TO PRODUCT MANUALS PRIOR TO INSTALLATION AND SITE PREPARATION WORK FOR FURTHER DETAILS..
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. FRONT ACCESS IS REQUIRED FOR SERVICE.  
MINIMUM RECOMMENDED FRONT CLEARANCE IS 28" [711 mm].
5. AIR FLOW AND SERVICE REQUIREMENTS AS WELL AS MINIMUM CLEARANCE TO FIRE SUPPRESSION SYSTEMS SHOULD BE CONSIDERED WHEN LOCATING THE UNIT.
6. WEIGHT OF THE UNIT IS 776 LBS [353 Kg].
- △7. THIS INFORMATION PROVIDED CONSERVATIVE CENTER OF GRAVITY CALCULATION.

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CHILLED WATER UNIT  
UPFLOW(REAR AIR SUCTION)  
37kW, 3Ph, 60Hz  
GENERAL ARRANGEMENT

DWG NO: TUCV1200-RR

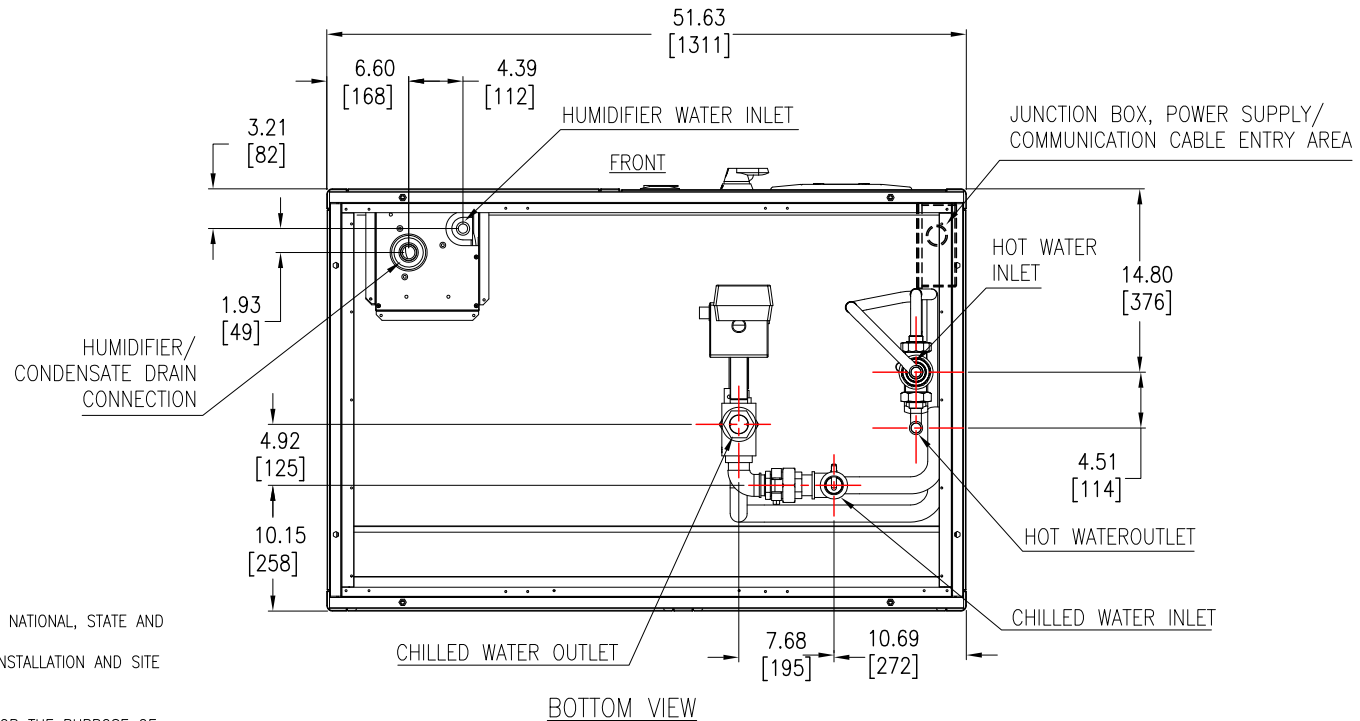
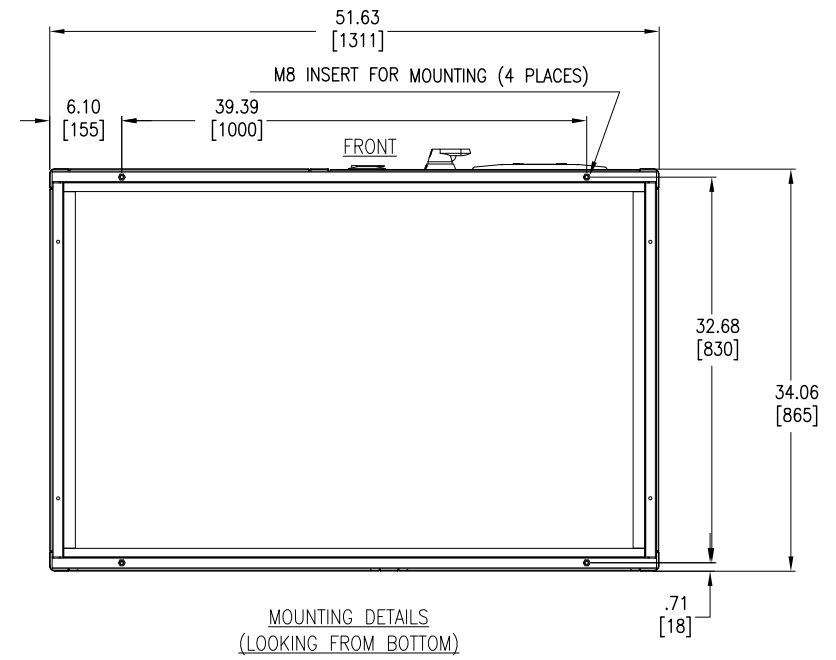
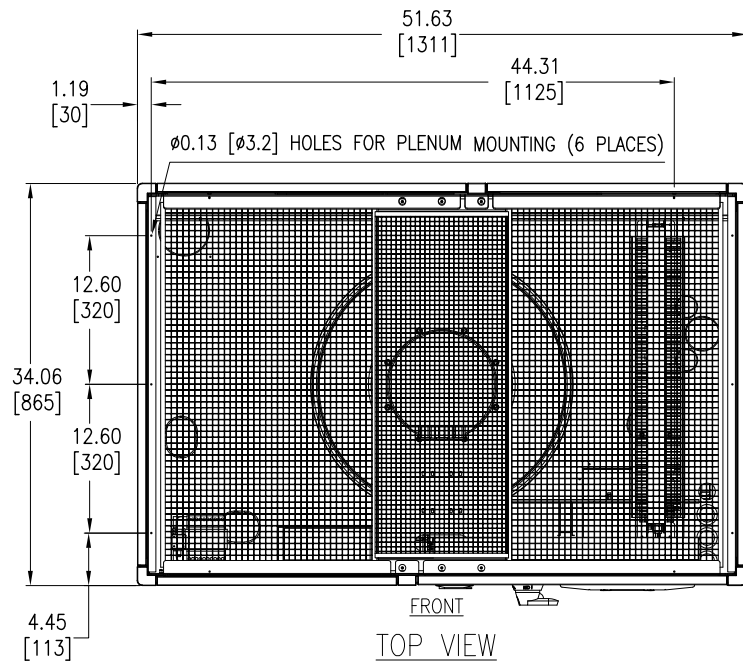
REV. 1

DRAWN BY: C KRISHNA/S CUNHA 29-JUN-12 THIRD

ENGINEER: K BAER 28-FEB-12 ANGLE

PROJECT: DRAWINGS SHEET 2 OF 4

APPROVED BY: C CUMMISKEY 28-FEB-12 PROJECTION



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3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
5. A FLEXIBLE SEAL AT LEAST 0.2" THICK SHOULD BE FITTED BETWEEN THE RAISED FLOOR PANELS AND THE MOUNTING FRAME, WHICH SHOULD ALSO BE ISOLATED FROM THE METALLIC FLOOR STRUCTURE.

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UPFLOW(REAR AIR SUCTION)  
37kW, 3Ph, 60Hz  
TOP, BOTTOM VIEW & ANCHORING  
PROJECT: DRAWINGS SHEET 3 OF 4

DWG NO: TUCV1200-RR  
DRAWN BY: C KRISHNA 28-FEB-12  
ENGINEER: C COSTEA/K BAER 28-FEB-12  
APPROVED BY: C CUMMISKEY 28-FEB-12

REV. 0  
THIRD ANGLE PROJECTION

### Environmental Limits for use

The environmental conditions for the use of air conditioners fall within the following values:

#### Hot Water Circuit

- maximum inlet hot water temperature: 170°F [77°C] (test based)
- minimum inlet hot water temperature: 113°F [45°C]

#### Cold Water Circuit

- maximum inlet cold water temperature: 77°F [25°C]
- minimum inlet cold water temperature: 42°F [6.0°C] (with glycol mixture)
- maximum glycol percentage: 50%

#### Air

- maximum inlet air temperature: 95°F [35°C]
- minimum inlet air temperature: 64°F [18°C]
- maximum inlet relative humidity: 70%
- minimum inlet relative humidity: 30%

### PIPE CONNECTION SIZES

Model Number	CONNECTION	SIZE
TUCV1200	Chilled water Inlet/Outlet	1-1/4 Inch
	Hot water Supply line/Return line	3/4 Inch
	Humidifier Supply line	3/4 Inch
	Condensate Drain line (OD Hose connection)	1-1/4 Inch

### Site Planning Data

SKU Number	Unit Rating KW/(BTU/hr)	Mains Input		Recommended Over Current Protection Device Ratings		Mechanical Data			Frame Size
		Nominal Voltage (V)	FLA(A)	Upstream protection		Typical Dimensions H x W x D (mm)	Weight (kg)	Floor Loading (Kg/m <sup>2</sup> )	
				MCA(A)	MOP(A)				
TUCV1200	37/127000	208/230/460	47.5/47.9/35.5	59.4/59.9/43.7	60/60/45	1960 x 1310 x 865	352	310.64	4

### Electrical Specifications

Reheat Option		Electric Reheat			None			Electric Reheat			None		
Humidifier Option		Humidifier			Humidifier			None			None		
Model	Voltage	FLA	MCA	MOP	FLA	MCA	MOP	FLA	MCA	MOP	FLA	MCA	MOP
1200	208	47.5	59.4	60	27.1	33.8	35	30.8	38.5	40	10.4	13.0	20
	230	47.9	59.9	60	25.3	31.7	35	32.9	41.1	45	10.3	12.9	20
	460	35.5	43.7	45	12.9	15.4	20	27.9	34.2	35	5.3	6.0	15

FLA – FULL LOAD AMPS

MCA – MINIMUM CIRCUIT AMPACITY

MOP – MAXIMUM OVERLOAD PROTECTOR

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UPFLOW(REAR AIR SUCTION)  
37kW, 3Ph, 60Hz  
PIPING & ELECTRICAL SPECIFICATIONS

PROJECT: DRAWINGS SHEET 4 OF 4

DWG NO: TUCV1200-RR

DRAWN BY: C KRISHNA/S CUNHA 04-NOV-14

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APPROVED BY: C CUMMISKEY 04-NOV-14

REV. 2

THIRD

ANGLE

PROJECTION