



# TECHNICAL DATA

**The User Name: Arcelik Cayirova Campus**

**Model: LWM-123ET**

**LG Electronics Air-conditioning (Shandong) Co., Ltd.**

# **CATALOGUE**

- 1. Data Sheet**
  - 2. Installation notes**
  - 3. Outline**
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-

## Technical parameters table



Type: LWM-123ET

Cooling capacity: 1433kW

### Water systems:

Temperature	Unit	Chilled water	Cooling water	Hot water
In/Out	°C	12/7	31/36.5	95/82
Flow rate	m <sup>3</sup> /h	246.4	504	118
Pressure loss	Bar	1.12	0.7	0.74
Connection	DN	200/0.8Mpa	250/0.8Mpa	125/0.8Mpa

### Power supply:

Voltage: 3Ø-400V-50Hz Total current (A): 19.8 Electric Power (KVA): 13.7

### Dimensional Details:

Length (mm) : 5000      Width (mm) : 2100      Height (mm) : 3250

### Weight (Approx.):

Operating weight (Ton) : 19.3      Shipping weight (Ton) : 16.2

### Notes :

Maximum pressure of chilled water and hot water system is 8kg/cm<sup>2</sup>G.

Maximum working pressure of cooling water system is 8kg/cm<sup>2</sup>G.

Wiring Max. Operating Temp. is 40 °C; in metal pipe condition.

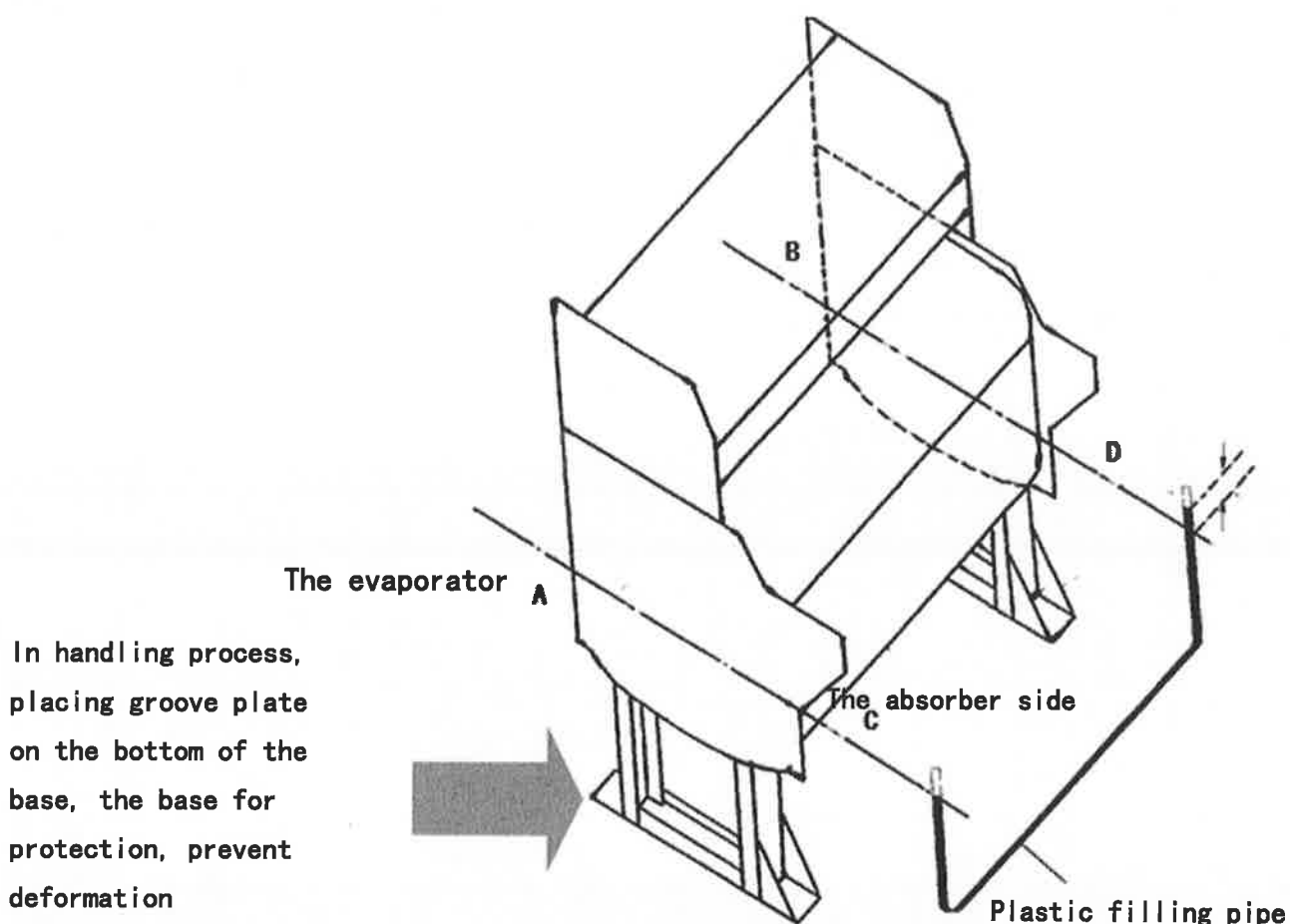
# Installation notes



The levelness of the unit

Absorption chiller unit must accurately adjust when installation levelness, so can more effective guarantee use performance of the unit.

Absorption chiller has four levels checkpoint (e.g., schematic circular ring wear mark A, B, C, D four. For the unit, the host and the high generator parts each have four points, the levelness to find out, respectively.) By the next, each checkpoint Bobbin board cover three big mark and determine, inspection shall check the levelness of the horizontal and vertical, the levelness of the two directions. In order to pass the block between the base and foundation to adjust, horizontal deviation is generally not more than 1/1000. Check out the unit level, you can use level determination, also can at the levels of unit based on the line with plastic pipes for inspection or take other way. (as the picture)

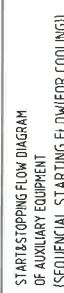
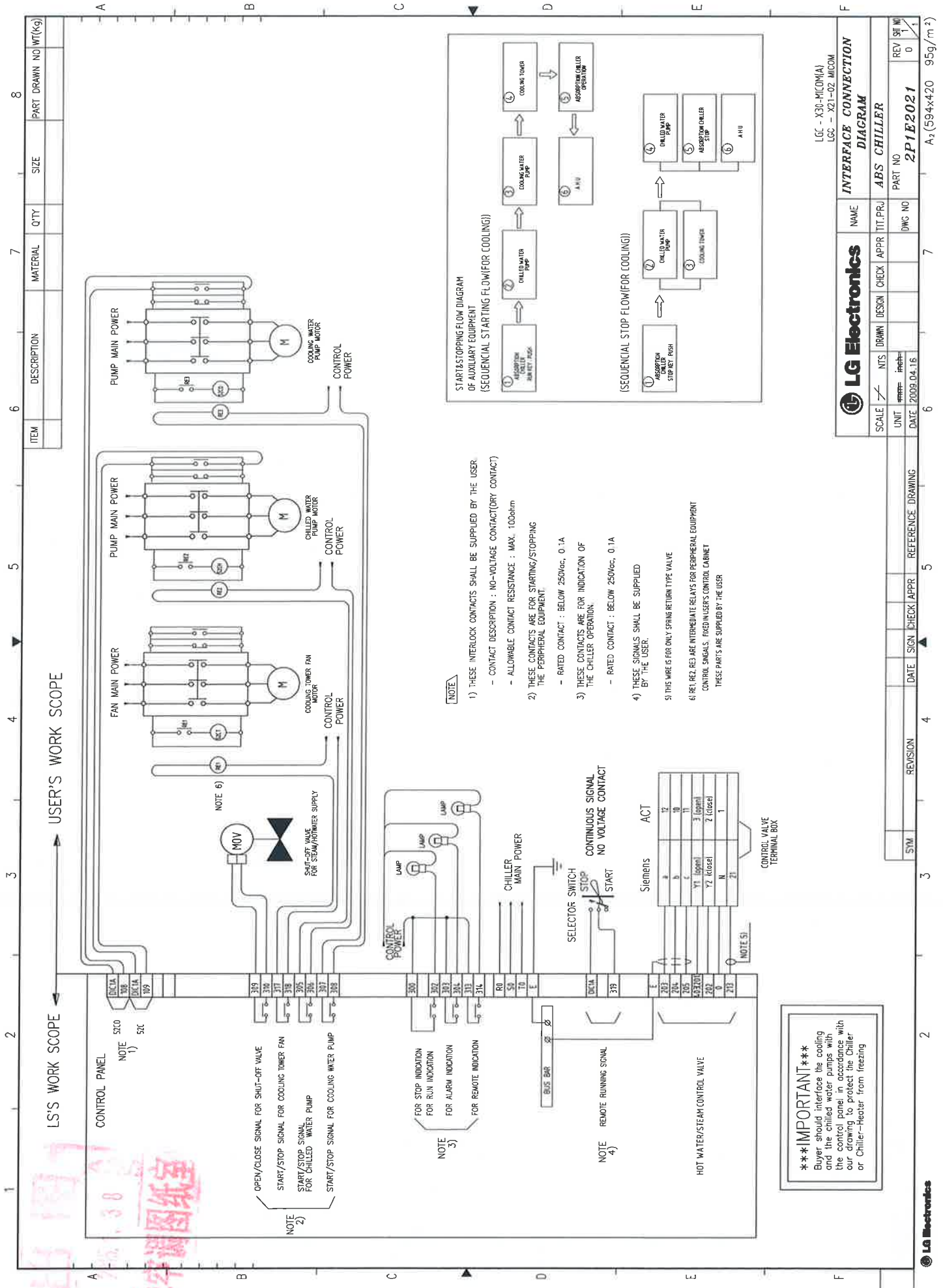












- NOTE**
- 1) THESE INTERLOCK CONTACTS SHALL BE SUPPLIED BY THE USER.
    - CONTACT DESCRIPTION : NO-VOLTAGE CONTACT(DRY CONTACT)
    - ALLOWABLE CONTACT RESISTANCE : MAX. 100ohm
  - 2) THESE CONTACTS ARE FOR STARTING/STOPPING THE PERIPHERAL EQUIPMENT.
    - RATED CONTACT : BELOW 250vac, 0.1A
  - 3) THESE CONTACTS ARE FOR INDICATION OF THE CHILLER OPERATION.
    - RATED CONTACT : BELOW 250vac, 0.1A
  - 4) THESE SIGNALS SHALL BE SUPPLIED BY THE USER.
  - 5) THIS WIRE IS FOR ONLY SPRING RETURN TYPE VALVE
  - 6) RE1, RE2, RE3 ARE INTERMEDIATE RELAYS FOR PERIPHERAL EQUIPMENT CONTROL SIGNALS. FIXED IN USER'S CONTROL CABINET. THESE PARTS ARE SUPPLIED BY THE USER.

**\*\*\*IMPORTANT\*\*\***  
Buyer should interface the cooling and the chilled water pumps with the control panel in accordance with our drawing to protect the Chiller or Chiller-Heater from freezing

LCC - X30-MICOM(A)  
LCC - X21-02 MICOM

LG Electronics				INTERFACE CONNECTION DIAGRAM			
SCALE	NTS	DRAWN	DESIGN	CHECK	APPR	TIT. PRJ	NAME
UNIT	mm	inch					
DATE	2009.04.16						
REV	SH	NO	NO	NO	NO	NO	NO
0	1						
2P1E2021				ABS CHILLER			
A <sub>2</sub> (594x420 95g/m <sup>2</sup> )							

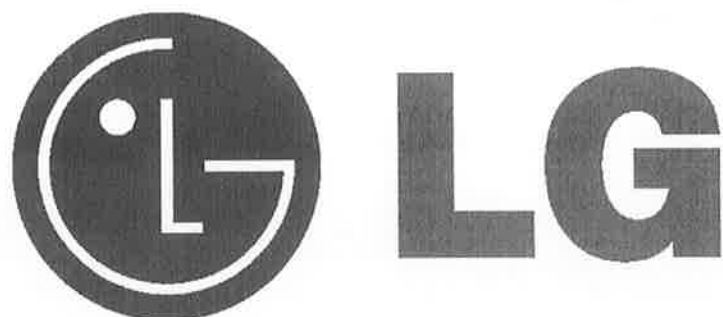




1. The dotted line (---) box is LGQA scope only.
2. Refer to the external dimension diagrams and specification tables for pipe connection and diameters.
3. Determine the locations of the chilled/hot water pump, cooling water pump, and expansion tank with consideration of the pumps hydrostatic head and lift. The machine should not be subject to a pressure larger than 10kg/cm G at any water headers. For pressures larger than this, special models have to be employed.
4. The chilled and cooling water pumps should preferably be provided exclusively for each generator.
5. The cooling water inlet temperature should not fall more than 10 °C below the design temperature.
6. Lay pipe from the cover of the evaporator and absorber to the drain ditch.
7. Provide a bleeder in the cooling water line for control of water.
8. There should be a large clearance for easy access to the evaporator, absorber and condenser to facilitate inspection and cleaning.


**LQ Electronics**

LWM-123ET TUBE DATA			
PART	Description	Material	Number
EVAP	TUBE End Corss-OD16.0 TO.60 L4111	C1220T	509EA
ABSO	Tube Bare-OD16.0 TO.5 L4111	C1220T	904EA
COND	TUBE Spiral-OD19.0 TO.55 L4111	C1220T	290EA
GEN	TUBE LOW FIN-OD19.05 T1.15 L4111	C1220T	329EA



**Let's construct the earth, which is our home**

**LG Electronics Air-conditioning(Shandong)Co., Ltd.**

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## CERTIFICATE OF MANUFACTURE

Product Name: Hot-water Lithium Bromide Chiller

Product Type: LWM-123ET

Number: 1

Product Serial Number: 5022300006

Complete Date: 2015 .03

This units is up to standard.It is allowed to leave factory.

Inspector: Yongjie Yang Date : 2015 .03

Director of Inspection: Kai.chen Date : 2015.03

LG Electronics Air-conditioning (Shandong)Co.,Ltd.

