

No.Y.11011/4/2007-CC&V  
Government of India  
Ministry of Health & Family Welfare

Nirman Bhawan, New Delhi  
Dated;

To,

Directors (FW) of all States/UTs

Sub:- Guidelines for Cold Chain - matter regarding

Sir,

Kindly refer Ministry's letter dated.—the deep freezers along with stabilizers supplied by M/s Haier Appliances are being transported by GMSDs to the states as per the allocation and consignee addresses. The ILRs are also being supplied shortly.

According to the supply order, the equipments will be installed by the consignees by the help of their local refrigerator mechanics. The guidelines for installation, operation instructions, installation report and checklist for installation is enclosed.

The installation of all the equipments are to be done immediately and installation report be send to M/s Haier Appliances on following address with a copy to the Ministry so that routine check up of the equipments may be done and training to the cold chain handler on Haier equipments may be started:

Mr. Som Nath Rampal,  
M/s Haier Appliances Ltd.

# Installation and Operational Instruction of Ice-lined Refrigerator

## **A. Environment for Installation and Placement:**

1. ILR should be placed on level ground with dry air and no dusty.
2. ILR should be placed far away fire (hot origin) without direct sunshine and good ventilation.
3. ILR should be placed by some spaces left around machine. The space between other solid (like room wall or others) to the ILR cabinet should be more than 10 cm in order to keep good ventilation and hot exhaust to outside. ILR CANNOT be used as built-in type into some other solid constructions.
4. The better working condition for ILR is ambient temperature range 10 to 43°C, no rainfall.
5. ILR should not be installed in the place with heavy humid environment or easy to splash water.
6. ILR should be placed near with socket with full room for stabilizer.

## **B. Before ILR installation**

1. Unpacking all the outer carton\inner foam\inner package\bottom foam.



2. Open the door; remove the protection pad for door sealing. Pull out the user manual and other accessories to be kept in other places for review. Before using the ILR, user should read manual carefully and operate the manual accordingly.
3. Take away from all tapes for trays and boxes and pull out the trays and boxes. Take away the tapes and fixed foam for the tray on the step. After that, be remembered to keep trays and boxes together. Using clean cloth and neutral detergent to clean the interior cabinet of ILR



4. Put back the trays and boxes according to the instruction on the ILR door.
5. Before using the ILR, user should read carefully the using instruction packed on the ILR door and keep in mind of the using instruction during the ILR operation.

## **C. Operating ILR**

1. Check ILR stand by level or not and you can get level by adjustment on ILR foot.
2. Connect stabilizer with power, open the power switch and check the power indicator of stabilizer



3. After more than half of hour ILR standing only (please note: switch of ILR should be closed), plug the ILR with stabilizer. Open the ILR switch, ILR start to run with alarm by thermostat. Press any key on thermostat to get rid of the audible alarm and find the temperature from displayer.



4. During the operation of ILR, the thermostat set point of ILR should be around 4°C. If the temperature inside ILR is too high or too low, please adjust the set point of thermostat to get the right temperature what you want.

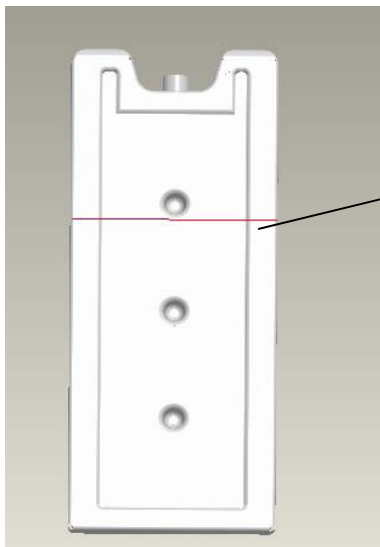


5. During the ILR running with first time, compressor will continue to work and the cooling time will be a little bit longer that because ILR will froze the icepacks inside first. On the other hand, surrounding of ILR will because hot (temperature rising).

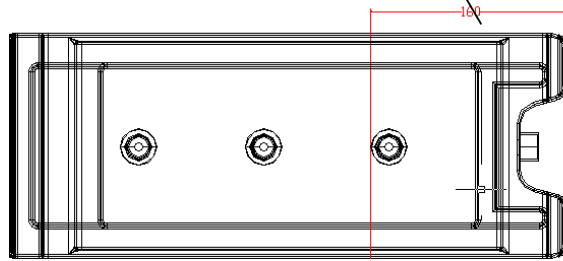
6. After 48 hours at least for ILR continuous running, the temperature inside will be around 4°C. If only temperature is between 2 to 8°C, there will be normal with ILR not running for a long time or continuous working for a long time since there are many icepacks inside.

7. After temperature inside come to stable, please place the vaccines by batches. **Never put full load into cabinet at one time.**

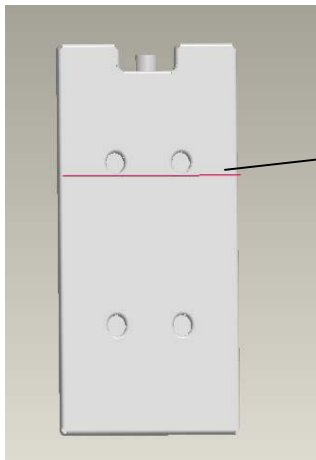
Note: the water inside of trays has been charged in the factory, the user doesn't need charge water. During long time use, the water inside of trays is less, and need to be charged again, please follow up the steps as below:



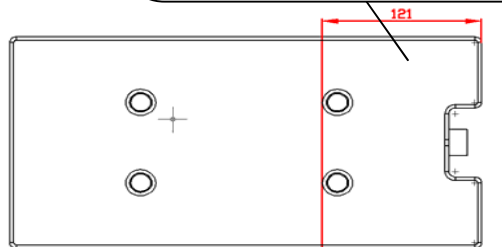
Please charge the water into trays as per the red level (the dimension should be 160mm from the top of tray)



Tray on middle cabinet (on the stair)



Please charge the water into trays as per the red level (the dimension should be 121mm from the top of tray)



## Installation and Operating Instructions for Deep Freezer

### (Icepack Freezer)

#### A. Environment for installation and placement:

1. DF should be placed on level ground with dry air and no dusty.
2. DF should be placed far away fire (hot origin) without direct sunshine and good ventilation.
3. Take away all tapes from trays and boxes and pull out the trays and boxes. Take away the tapes and fixed foam for the tray on the step. After that, be remembered to keep trays and boxes together.
4. The better working condition for DF is ambient temperature range 10 to 43°C, no rainfall.
5. DF should not be installed in the place with heavy humid environment or easy to be splashed with water.
6. DF should be placed near with socket with full space for stabilizer.

#### B. Before DF installation

1. Unpacking all the outer carton\inner foam\inner package\bottom foam.



2. Open the door; remove the protection pad for door sealing. Pull out the user manual and other accessories to be kept in safe places for review in the future. Before using the DF, user should read manual carefully and operate the manual accordingly.



3. Take away from all tapes for trays and boxes and pull out the trays and boxes. Take away the tapes and fixed foam for the tray on the step. After that, be remembered to keep trays and boxes together. Using clean cloth and neutral detergent to clean the interior cabinet of DF.



4. Put back the trays and boxes according to the instruction on the DF door.
5. Before using the DF, user should read carefully the using instruction packed on the DF door and keep in mind of the using instruction during the Operating DF (icepack freezer)

### C:- Installation Instructions:

1. Check DF placed by level or not and you can get level by adjustment on the foot.
2. Connect stabilizer with power, open the power switch and check the power indicator of Stabilizer



3. After more than half of hour DF standing only (please note: switch of DF should be closed), plug the DF with stabilizer. Open the DF switch, DF start to run.



4. During the DF operation, check the set of controller. It should be set as Number 3. The temperature inside will be under  $-15^{\circ}\text{C}$ . If the temperature inside is too high or too low, you can

adjust the controller to get the right temperature what you want. Please note: the bigger of set number, the lower temperature inside.



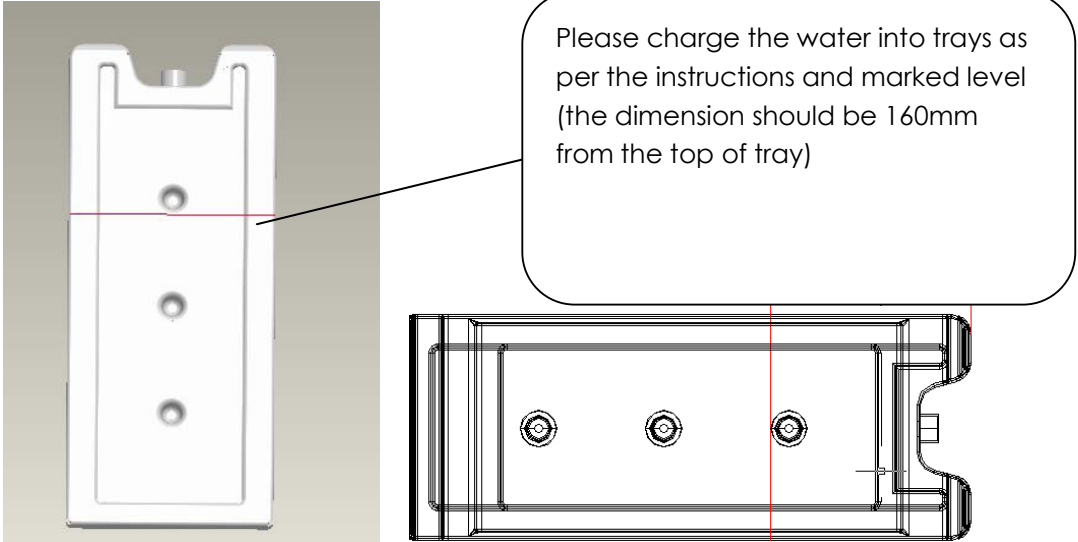
5. During the DF continuous operation, the surrounding of DF cabinet will be hot (temperature will rise up). It is normal.

6. After 48 hours at least for DF continuous operation, temperature inside will be kept under  $-15^{\circ}\text{C}$  and DF will have normal compressor circulation. After temperature inside come to stable, user can put vaccines by batches. Never put full load into cabinet at one time.

7. If user wants to freeze the icepacks with bigger capacity, trays can be pulled out and get more frozen space for icepacks frozen. Trays are used to keep cold inside and harmful temperature zone out for vaccines storage use.

**Note:** The water inside of trays have been charged in the factory, the user don't need charge water. During long time use, the water inside of trays is less, and need to be charged again, please follow up the steps as below:

Tray on the storage boxes and bottom:



## Installation of Cold Chain Equipments

Performa no.-1

State :

District : \_\_\_\_\_ Date : \_\_\_ / \_\_\_ / \_\_\_\_\_

\_\_\_\_\_  
Name of the Cold Chain Facility: \_\_\_\_\_

Level : State / Regional / Divisional / District / CHC/PHC

Name of technician : \_\_\_\_\_ Name of the cold chain handler -----

S.No	Cold Chain Equipment (ILR/DF/stabilizer)	Make	Model	Machine Sr. No.	Gross capacity in liters	Date of receipt	Date of installation	Remarks if any
1								
2								
3								
4								
5								
6								
7								

### Check List for installation of cold chain equipments

S.No.	Items	Yes/No
1	Equipment received in good condition at cold chain facility (Un-pack and check physically)	Yes/No
2	Instruction and service manual is received	Yes/No
3	Baskets are provided with the equipments	Yes/No
4	Fixed foam is provided with the equipments	Yes/No
5	Placed in the room having sufficient space	Yes/No
6	Cold Chain room is well ventilated, dry air and no dust	Yes/No
7	No Direct Sun light on the equipment	Yes/No
8	Equipment placed on leveled ground and level adjusted by adjusting screws	Yes/No
9	Equipment placed at least 10 cms away from surrounding in all sides	Yes/No
10	The ambient temperature is less than 43 deg. Celsius	Yes/No
11	Proper earthing is available in the power socket	Yes/No
12	The power socket is ISI marked and equipment placed near to it (No extension cord is used)	Yes/No
13	Voltage stabilizer is connected and input voltage is in normal range (230 volt +/- 5%)	Yes/No
14	Thermostat alarm is in function	Yes/No
15	Equipment run for 48 hrs before loading of vaccines	Yes/No
16	Inside temperature is (-) 15/(+)4 deg. C and stable before loading any vaccine/icepacks	Yes/No
17	Door (Lid) have lock in key	Yes/No