



Installation Guide for

NW Scotsman Modular Cubers

Unpacking

- Remove the two banding strips securing equipment to pallet.
- Remove cardboard carton and packaging material.
- Inspect exterior of machine for any potential damage.
- Remove Front, Left & Right hand panels & release machine from the pallet

Remove from inside the machine (Or supplied separate 'Installation Kit – ICE0402):

- 1 x water inlet tube (**XP194** will have been supplied as part of kit ICE0402)
- 1 x drain tube complete with clip
- 1 x Large Scoop
- 2 x Drain Fittings

If a separate Storage bin is supplied – Unpack as suggested above, then open the bin door and remove:

- 1 x drain tube kit (complete with clip)
- 1 x drain fitting (may be supplied separately !!)
- 1 x Unit leg kit

Installation

Storage Bin:

Fix 'Legs' onto the base of the Storage bin

If required, install the drain fitting to the base of the storage bin (using PTFE tape also) Secure correctly, the drain hose to the drain fitting using the clip supplied

Stand the storage bin upright and level the bin using the 'adjustable legs' as appropriate

Check that the bin has the foam strip installed all around the top edge

Ice Machine Production Head:

Mount the machine onto the top of the Storage bin locate so to ensure the 'Ice drop' area of the unit is correctly placed. Secure the machine to the Storage bin !!

Again, check that the assembly is level. Adjust legs as required.

Fit any supplied 'Air Baffle' to the rear of the unit as shown.

Check the following:

- Ambient temperature - minimum 10°C, maximum 40°C
- Adequate space at rear of machine for water and drain connections.
- Minimum airflow clearance requirement of 15cm to both sides of machine.

Note: *if clearance is less, ice production rate could decrease by as much as 25% due to potential overheating if an Air Cooled version is used*

Service Connections:

Check ID on rear of machine for correct voltage (e.g. 230 volt 50 hz for UK use)

Check that the following services are within 1 metre of machine location:

- Cold water supply terminated with a $\frac{3}{4}$ BSP washing machine style stop valve.
- Mains drainage with a connection point lower than the drain outlet of the machine. Connection point must be at least 1 $\frac{1}{4}$ " diameter open and trapped (similar to a domestic washing machine) with any connection made to include a suitable 'back flow' prevention device to 'EN1717'.
- If drain is too high, a stand or condensate pump must be used for the bin **only !!**
- Suitable Electrical Supply (Due to potential high starting current, any socket adaptor with other appliances should not be used.)

Note: *If an external condensate tank pump is to be used, then an additional 13 amp socket outlets will be required.*

- Unit – Connect unit electrical cable to either a suitable Plug & socket arrangement or connect direct into a suitable rated electrical isolator

NOTE - Ensure electrical supply has a correctly rated Circuit Breaker at the distribution unit

- Fit **XP194** - $\frac{3}{4}$ water inlet hose to the machine. Do not overtighten.
- Fit flexible drain hose to machine and secure using clips provided.

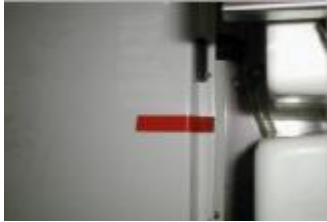
Note: *Both hoses are fitted with one straight end and one angled end. Use which ever is the most suitable for this installation.*

- Connect water inlet hose to water supply 'stop valve'. Do not overtighten.
- Connect drain hose to main waste drain provided by inserting hose into upstand (similar to domestic washing machine).

Note: *To prevent drainage problems caused by loops in the hose, reduce hose length as far as reasonably practicable*

Prior to Start Up:

Inside the unit, Remove all ORANGE 'transit tapes' from areas of the water circuit, ice curtain and spray plate/bars, ensure any spray plate(s) are correctly positioned and the deflector curtain located correctly on the brackets/holders in front of the sump chamber.



Set the ice thickness sensor to a gap of 6mm from the evaporator



Check that the 'Sump' plug/caps are correctly located.

The 'PCB' should be set up to site/location requirements (*See Service Manual for instructions on how to complete*)

Remove protective film from outer panels.

Start Up Procedure (NW Equipment) –

- Turn on water and power supply (Green pushbutton on front panel – if fitted).
- NW 1008 units will have a delay of up to 90 minutes due to crankcase heaters being fitted to the compressor
- On start-up of the unit solenoids coils will be heard and water should then enter the machine and begin to fill the water tank, this will occur for the first few minutes.
- The unit will then 'drain down' and rinse the sump, then refill automatically ! (this is normal for the NW range)

- When the water tank is full, the machine should now start an ice making cycle (this after approx 5 minutes) with the compressor in operation.
- After approximately 20 - 25 minutes, a sheet of ice should fall through the curtain and into the storage bin. The machine will then automatically refill with water and start the next cycle.

Check the Ice production.

- Each sheet of cubes should be relatively clear and solid with a small depression.
- Any adjustments to settings for ice size should be discussed with the engineer installing the equipment or Hubbard Systems Technical Department in the first instance.

NOTE - The above procedures are designed to supplement full guidance given in the service manual, not replace it.

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