

# **Application Overview**

for

## **Nugget Ice Machines on Ice Dispensers and Ice & Beverage Dispensers**

Covers ice machines:

**N0422, N0622, N0922 and N1322**

and dispensers,

**Scotsman ID150, ID200, ID250**

**Cornelius DF/ED200, DF/ED250**

**Cornelius Flavor Fusion DC/NGF/CF/FF/  
and IDC215/255**

**Cornelius ED300**

## Background

Scotsman Nugget ice was designed for dispensing applications. It has been successfully used in Scotsman ice maker-dispensers for nearly 35 years.

The chewable nugget ice form is becoming more popular in other areas such as convenience stores and lunch counters. Many of those locations have post-mix ice and beverage dispensers on site that can be used to dispense nugget ice. The most space & labor efficient place to locate the ice machine is on top of the dispenser.

The ice beverage dispensers on the market were designed to be manually filled. Many have had cubers stacked on them for automatic filling. The same thing is now occurring with nugget ice machines.

Scotsman's line of dispenser compatible nugget ice machines are these:

- N0422. Air, water cooled. 115 volt.
- N0622. Air, water or remote cooled. 115 volt
- N0922 or N1322. Air, water or remote cooled. 208-230 volt

## Ice Level Control

All the above models have a photo-electric eye control that shuts the ice machine off when ice builds up into the bottom of the machine. When installed on an ice beverage dispenser, an ultrasonic adjustable ice level control **must be field installed**. The exception is when the ice machine is placed on an ED300, in that case a thermostat is used.

## Cap Tube Routing

On the ED300, the bin thermostat cap tube will route from the ice machine control box through the hole next to the ice chute. It will be routed through a cap tube holder attached to the ice separator in the Cornelius adapter.

## Adapters

All installations require an adapter plate. The adapter plate covers the top of the dispenser, has a drop zone hole for the ice to go through and supports the ice machine. Some adapters include a baffle to keep the ice from forcing its way out the front during dispensing.

## Adjustments

All the dispensers have automatic agitation to keep the ice stirred up. If agitation is too frequent, the nugget ice will be damaged and will become difficult to dispense. The Scotsman and Cornelius dispensers need to be set to **.5 seconds on every 3 hours**.

The Scotsman and Cornelius dispensers also have a restrictor plate at the outlet of the hopper. That plate should be removed or adjusted to be 1.5" open to limit the speed the nugget ice flows out during dispensing. Removal is recommended.

## KVS Overview

The KVS is an ultrasonic control that can be added to the Scotsman Prodigy model machines, either cuber or nugget. It consists of a control board and sensor. The sensor mounts to a hole in the base of the nugget ice machine. The KVS control has an adjustment knob to allow the ice level to be lowered to various levels. The recommended KVS adjustment would be in the 12 to 2 o'clock range.

## KDIL Overview

KDIL-PN-ID3. For the ED300. Must be used with the adapter that splits the ice flow left and right, and new agitators.

The KDIL-PN-200 and 250 kits include a KVS and ice slide. The ice slide snaps into the slot in the bottom of the ice hopper that allows ice to flow to the cold plate. A KNUGDIV kit is also included.

## Kits

Additional kits are required for proper operation. See the matrix on the next page for kit applications.

- [KNUGDIV](#)\* – diverter kit for Scotsman ID and Cornelius ED or DF dispensers. Installed in the ice chute area. ED300 requires special diverter kits (left and right versions), they are included with the kits listed on page 4.
- [629097086](#)\*\* – diverter kit for Cornelius IDC/NGF/CF and FF dispensers. Installed in the ice chute area.
- [KBT](#)\* Bin Tops - Adapters for Scotsman and selected Cornelius dispensers (not IDC).
- [KVS](#)\* Ice level control for ID200 and ID250 and Cornelius IDC dispensers.
- [KDIL-PN-ID3](#)\* - Kit to add a bin thermostat to ED300, requires additional Cornelius items.
- [KDIL-PN-200](#)\* - Kit to add an ice level control and ice slide to ED200 size Cornelius ice beverage dispensers. Also includes KNUGDIV and KVS.
- [KDIL-PN-250](#)\* - Same as above except fits the DF/ED250 sized models.
- A40403-021\* - Ice Deflector hangs below the ice drop zone directing the ice to the back of the dispenser. Recommended on all front facing installations.
- R629088514\* - Agitator for use with an **ED150** and cold plate.

\*Available from Scotsman \*\*Available for Cornelius

## Kit and Adapter Applications

<b>Dispensers</b>	<b>Kits for Ice Machine Models: N0422, N0622, N0922, N1322</b>
Scotsman ID150	KBT42, KNUGDIV
Scotsman ID200 or ID250	KBT43, KVS
Cornelius ED/DF150	KBT42, R629088514, KNUGDIV
Cornelius ED/DF200	KBT43, KDIL-PN-200*+, A40403-021
Cornelius ED/DF250	KBT43, KDIL-PN-250*+, A40403-021
Cornelius Flavor Fusion 255 or IDC215/255	KVS, Cornelius adapter 629088681(black), <a href="#">629097086</a> , A40403-021
Cornelius ED300	KDIL-PN-ID3, Cornelius agitator kit 629088644 and Cornelius adapter 629087965 (black)

\* Includes KNUGDIV

+ Includes KVS

Note: Cornelius Flavor Fusion available in many colors, contact them for other adapter kits to color match.

### Instructions

Complete instructions are included with all kits and adapters.

### Replacement Parts

Thermostat: part number 11-0353-23

### Scotsman Ice Systems

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