

Control retrofit for SyncroFlo golf course pump stations

This is for a golf course irrigation pump station built by SyncroFlo in the 1990s or 2000s, the kind sold as the Eagle line. The pumps and the piping are fine. The controls are worn out, or built around parts that are no longer made.

We put a new PLC, a new touch screen and, when it is needed, a new variable frequency drive (VFD) in the control panel you already have. We did this in 2026 at Bootleg Gap Golf in Kimberley, BC, on a station built in 2001. The parts, the photos and the screens on this page are from that job. We take these on for courses anywhere in Canada.

Is this your station?



The tag to look for. This one is at Bootleg Gap Golf in Kimberley, BC. August 2023.

Start with the maker's tag. At Bootleg Gap it is on the base of the control cabinet, down near the floor. Look there first.

What the Bootleg Gap tag says

Maker	SyncroFlo, Inc., Norcross, GA
Model no.	820-43L-125-2200
Date of manufacture	4/01, which is April 2001

The 820 at the front matches SyncroFlo's 820 Series VFD-Eagle. We do not know what the rest of the number stands for, so send us the whole tag. A different model or year is fine. Send it anyway.

Not sure? Send a photo of the door along with the tag, and we will tell you.

We are independent. Controler and Oler Industries are not affiliated with SyncroFlo, Inc., which is still in business in Norcross, Georgia.

What stays and what gets replaced

A retrofit is new controls in the panel you have. The pumps and the piping stay where they are. This list is the Bootleg Gap job.

Stays	The cabinet and the backplate. The field terminal strips. The pump contactors and overloads. The hour meters. The pumps and the piping.
Replaced	The PLC. The control wiring inside the panel. The program. The operator screen.
Also replaced at Bootleg Gap	The drive. The pressure sensor. The level sensor.
Also added at Bootleg Gap	High and low floats in the sump. Remote monitoring over a cellular link.

At Bootleg Gap the old drive had died, so a new one went in. We replaced the pressure sensor and the level sensor and added the floats on the same job. The station has been logged over a cellular link since June 2026.

What goes in the panel

These are the parts we used at Bootleg Gap. Every one is a standard part that an electrician can buy from a distributor. Nothing in the panel is a proprietary controller.

PLC	Siemens S7-1200. At Bootleg Gap it is a CPU 1215C with three expansion modules.
Touch screen	Siemens, 7 inch, in the door.
Network switch	Siemens Scalance.
Interface relays	Finder.
Control wiring	New inside the panel. Every wire is labelled.
Program	A new PLC program. We write it ourselves.
Drive, when it is being replaced	Franklin Electric Cerus X-Drive, with its keypad on the door.



Bootleg Gap, June 2026.
The finished door, with the station watering.

Inspection and approval

Every retrofit gets a special inspection under SPE-1000 before it goes into service, and the panel is labelled. Panels we build ahead of time are certified the same way.

How the job goes

You send the nameplate and photos	A photo of the tag and a photo of the panel door, shut.
We get back to you	We tell you whether the retrofit fits your station and what it needs.
Within about three and a half hours of Cranbrook	We do the work on site ourselves. That is how the Bootleg Gap job was done.
Farther away	We build and test the panel in Cranbrook and it is certified under SPE-1000. We work out the install with your course and your electrician by phone, because installers and permits differ by province.

What we need from you

Phone photos are fine. Email them to warren@olerindustries.ca with whatever you know from this list.

- A photo of the nameplate
- A photo of the panel door, shut
- Photos of the inside of the panel, taken by your electrician. Do not open the panel doors yourself.
- How many pumps there are and the horsepower of each motor
- The supply voltage
- The make and model of the drive
- What sensors are on the station, such as pressure, flow and level
- Whether there is cell coverage or internet at the pump house
- What is going wrong

There is a survey form to print and fill in at the pump house. It is at controler.golf/syncroflo-retrofit.

Book a free pump station review at controler.golf or call Warren at **250-581-2225**