

Frequently Asked Questions about IntelliFlo® i1 Variable Speed Pump:



Item: IntelliFlo i1 (item 011008).

Info: Rated 1hp, due to 1hp impeller diffuser.

Agency Listing: UL-1081. NSF-approved. CEC listed.

Rebates: Approved for utility rebates in NV and AZ (APS and SRP).

Pricing: The same as IntelliFlo Variable Speed (item 011018).

Overview statement:

IntelliFlo i1 is a niche product that will appeal only to customers in markets that are facing restrictions on max flow rate and amp-limited wire gauge sizes. The vast majority of our customers will continue to buy our best-selling 011018 IntelliFlo Variable Speed. But if a customer is in a market that gives them a reason to need a pump with reduced max flow and reduced amp draw, we will have IntelliFlo i1 for them.

General overview of IntelliFlo i1:

IntelliFlo i1 (item 011008) is nearly identical to a standard IntelliFlo Variable Speed (Item 011018) except for the substitution of the 1hp-type impeller and diffuser.

How is “i1” different than normal IntelliFlo?

In both pump models, the drive hardware and software are identical in every way. In fact, both pumps are built with exactly the same drive part number. The same goes for the motor... both pumps use exactly the same motor. We use a smaller impeller/diffuser to create IntelliFlo i1; which is a “hydraulically-limited” niche product that will appeal only to customers in markets that are facing restrictions on max flow rate and amp-limited wire gauge sizes.

Who might need this pump?

-Let’s address the max flow rate issue first...

In Los Angeles County, there are some rules set forth by the health dept that limit the max possible flow rate of the pump when connected to 2in diameter plumbing and smaller. When IntelliFlo i1 is put into an application like this, it will only pump about 65gpm at 60 feet TDH, even if it is set to 3450rpm. The drive and motor are still capable of the same 3.2kw power as always, and the motor can still spin at 3450rpm as always; but the down-sized impeller limits the effective GPM output. This limited max GPM gives the IntelliFlo i1 special market relevance in Los Angeles, where the higher max GPM of a standard IntelliFlo means that we have previously been “locked-out” of many potential sales until now.

-That’s the flow rate issue... Now let’s switch gears and discuss the max amps issue...

In Arizona, there are some rules being enforced regarding max amps in certain wire gauges. This can potentially force an installer to re-wire a job to accommodate the max nameplate amps of a standard IntelliFlo. Since the IntelliFlo i1 only “loads up” a small 1hp impeller/diffuser, it only draws a max of 7 amps. Compare this 7 amp figure to the max amps of normal IntelliFlo at 13 amps. By using an IntelliFlo i1, Arizona dealers avoid the cost/time/expense associated with re-wiring a job with thicker gauge wire. The lower nameplate amps of IntelliFlo i1 allow the pump to be installed in Arizona without the dealer or homeowner being forced to shoulder the additional cost and complexity of a wire upgrade in the field.

So, in summary, if a customer is in a market that gives them a reason to need a pump with reduced max flow or reduced amp draw, we will have IntelliFlo i1 for them.