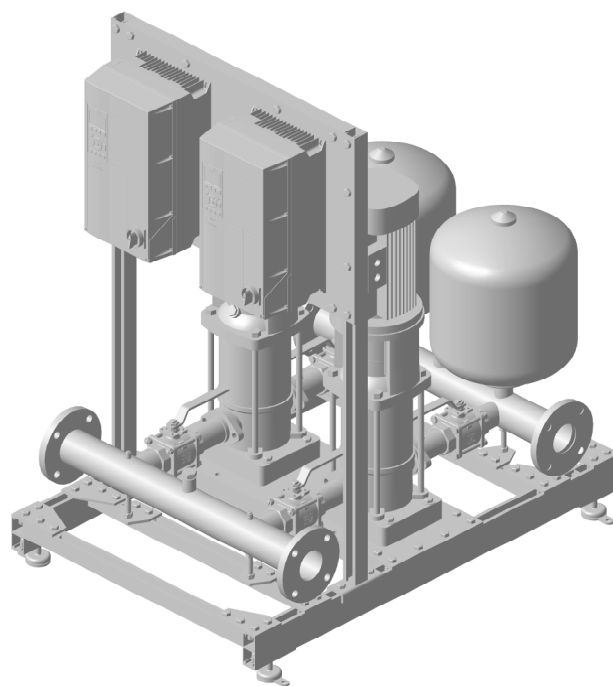


## Vertical Pump Skids

*CT Vertical Pump Skids* are optimized to meet the most demanding requirements of water re-use systems. Each consists of one or two super-efficient multi-stage vertical pumps mounted on a compact stainless-steel skid. Every part in contact with water is stainless steel, including one or two hydropneumatic tanks mounted directly on the discharge manifold.

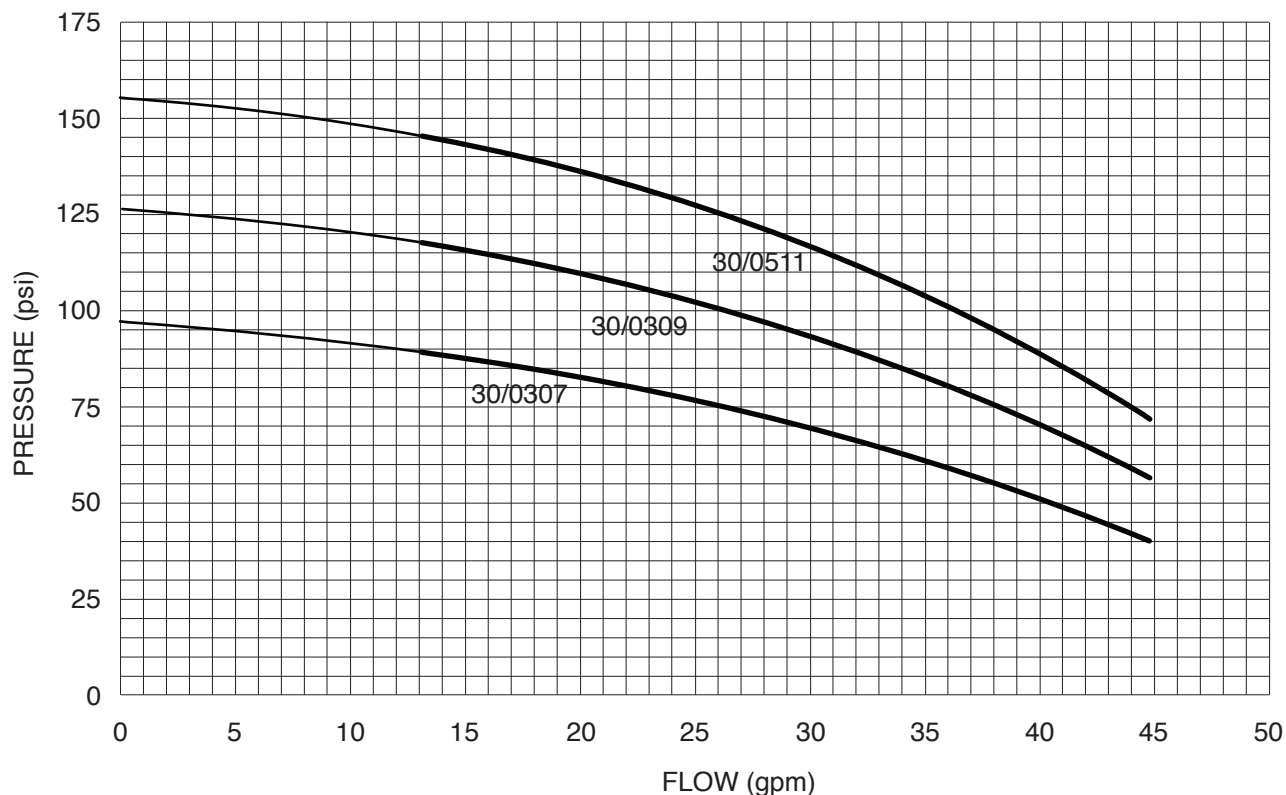
Each pump is independently operated with an *Aquadrive+* NEMA 4X variable frequency drive pump controller. Dual pumps automatically alternate for optimal durability and automatically cascade for optimal performance over a wide range of flow rates.

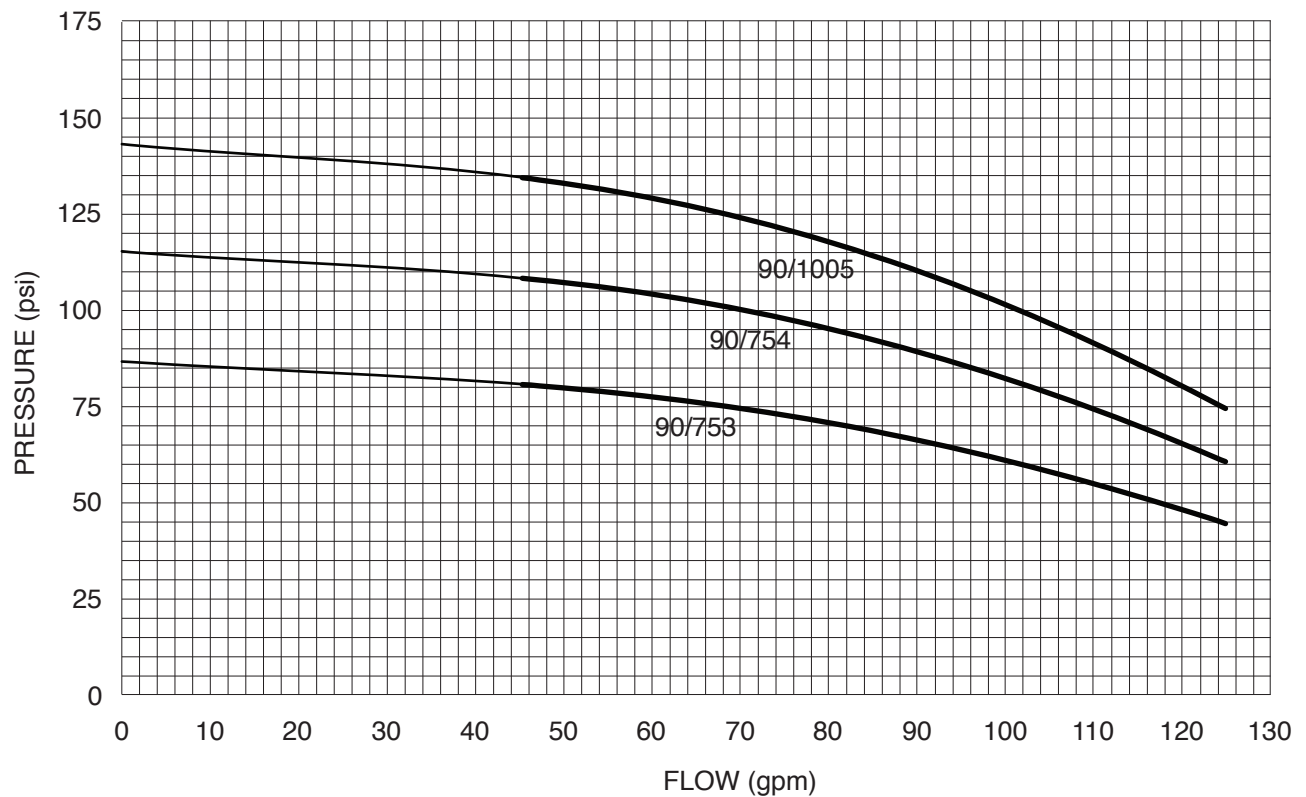
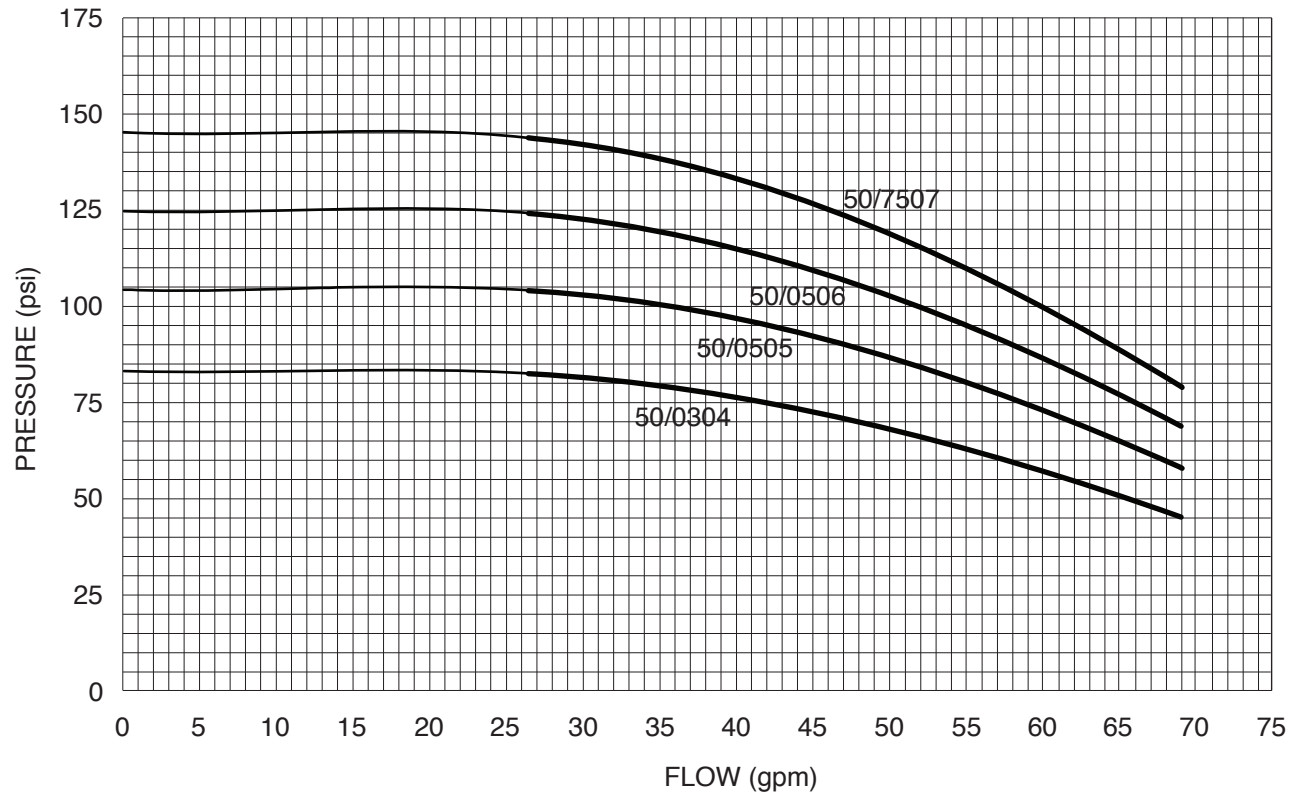
All components are selected for long-life and easy maintenance: bolted ball valves have replaceable seals, check valves have replaceable gaskets, tanks have replaceable bladders, and even the skid framing parts are easily replaceable. Dual pump system remains functional when either a pump or control panel requires maintenance.

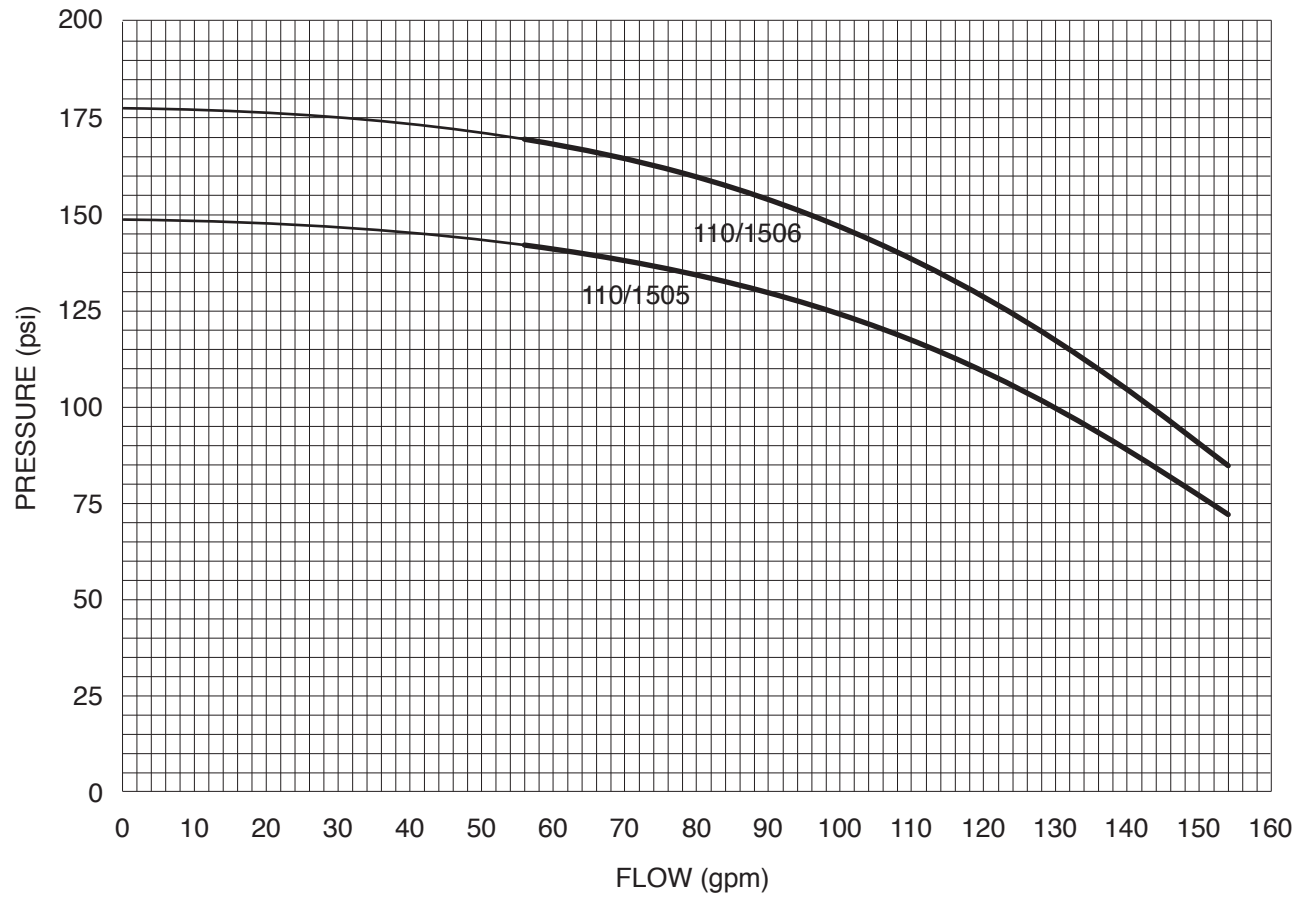


### PERFORMANCE

In the following charts, the thick curves represent the recommended range of peak design flow rates for each pump on the skid. The first two digits of the pump designation identifies the peak design flow rate for optimal energy efficiency, the second two digits identify the motor horsepower, and the last two digits denote the number of impellers. Pumps with other performance curves are available.

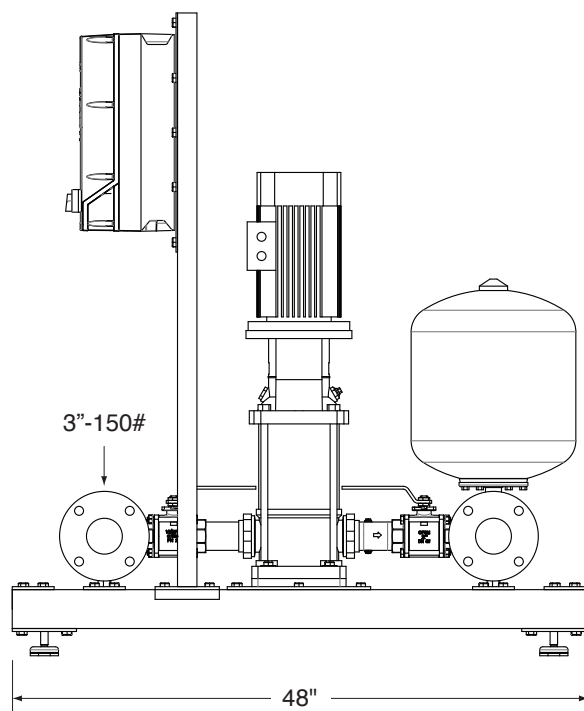
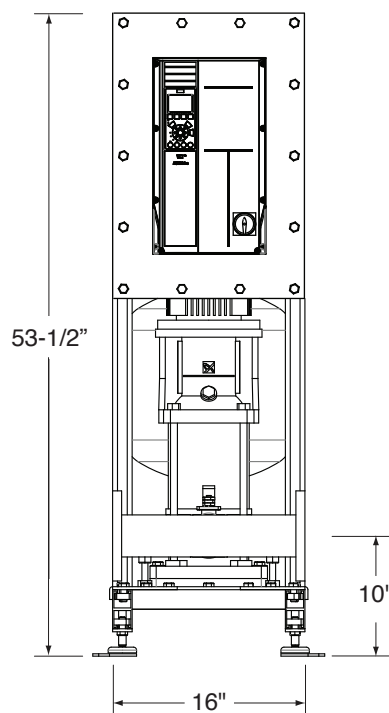
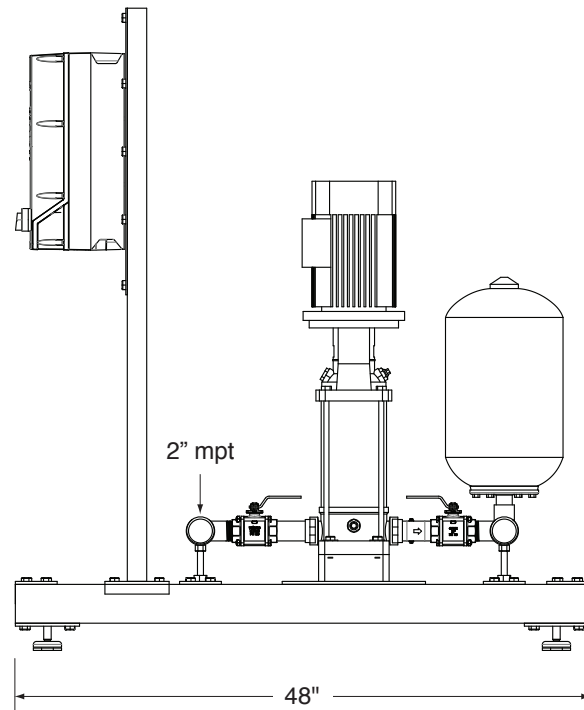
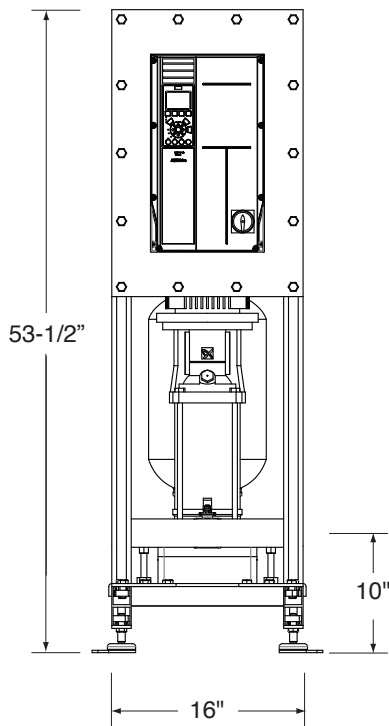






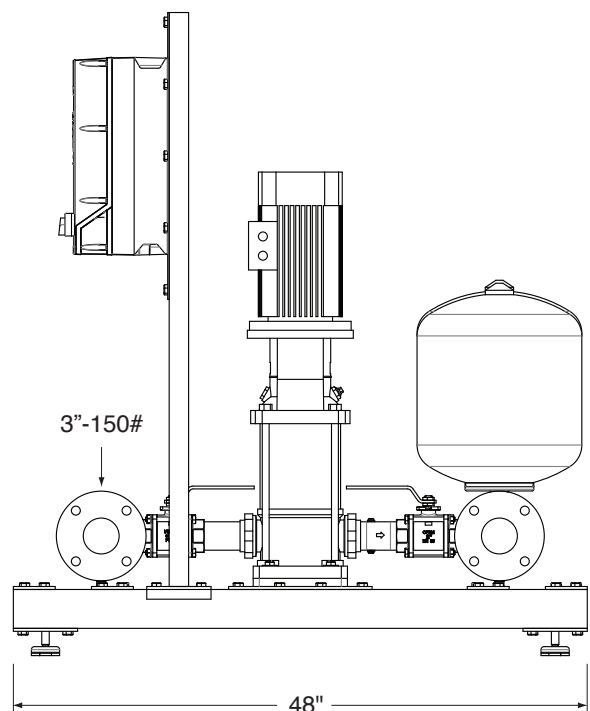
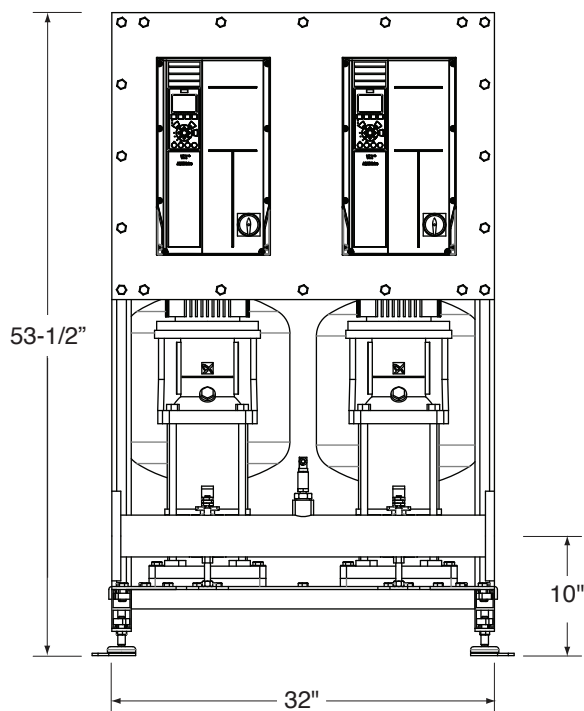
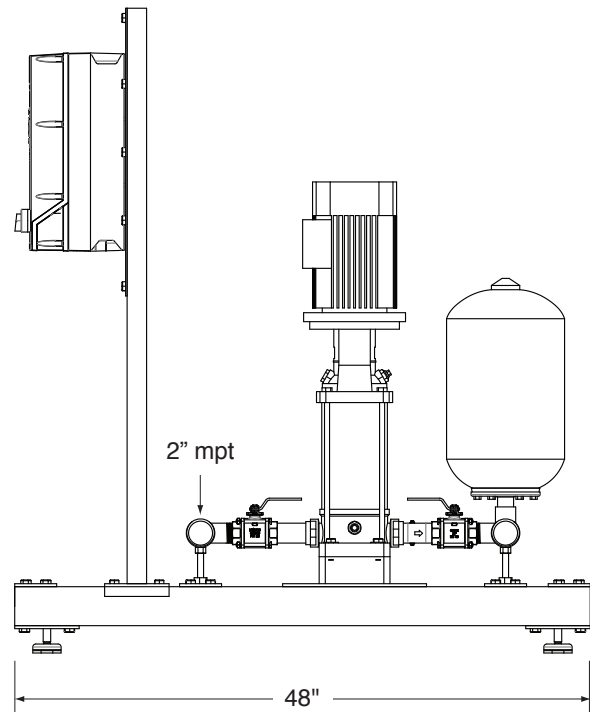
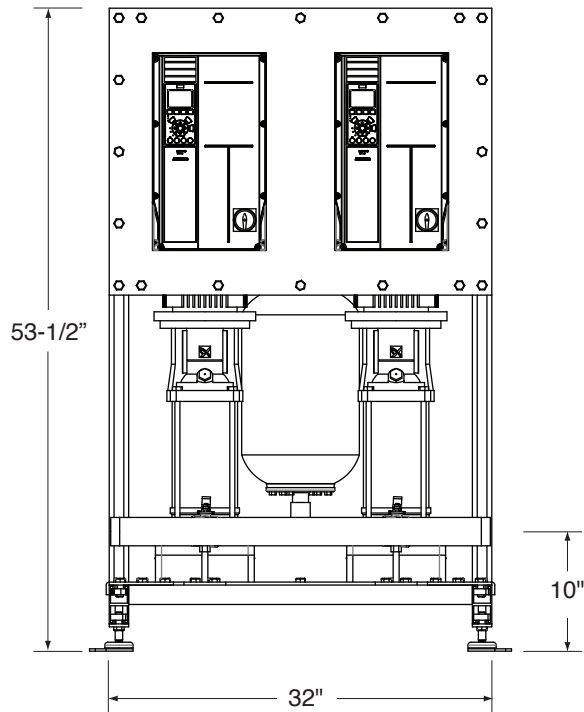
## SIMPLEX SKIDS

*Simplex* (single-pump) skids are available with peak flow rates up to 124 gpm. Each includes a pump, a VFD controller, two ball valves, an outlet check valve, two manifolds, a hydropneumatic tank, and fully-adjustable vibration-absorbing mounting feet. The control panel and manifolds can be re-positioned to perfectly match treatment and storage skids or to fit site conditions



## DUPLEX SKIDS

*Duplex* (two-pump) skids are available with peak flow rates up to 248 gpm. Each includes two pumps, two VFD controller, four ball valves, two outlet check valves, two manifolds, one or two hydropneumatic tanks, and fully-adjustable vibration-absorbing mounting feet. The control panel and manifolds can be re-positioned to perfectly match treatment and storage skids or to fit site conditions



## HYDRAULIC AND ELECTRICAL SPECIFICATIONS

The following table summarizes the hydraulic and electrical characteristics of standard simplex and duplex vertical pump skids. If a pump skid is selected so that the required peak design flow rate is between the minimum and maximum values listed, the variable frequency drive pump controllers on each skid will assure efficient operation at all lower flow rates. The duplex skid maximum flow rates below are based on cascading operation, a standard feature which allows full simultaneous flow from both pumps. If 100% reserve capacity is desired, use the simplex flow rates for sizing duplex skids. Pumps with other hydraulic characteristics are available on special order.

All motors are totally enclosed and fan cooled (TEFC) with efficiencies ranging from 87% to 91%. The amperage values listed represent full-load current and the service factor is 1.15. Typical operating current and power consumption values will be substantially lower, and the system will automatically enter a sleep mode when no pumping is required.

Model	Minimum	Maximum	Manifold	Power	208v	460v
AquaSimplex-30/0307	13 gpm	44 gpm	2" mpt	3 hp	8.4 a	3.8 a
AquaSimplex-30/0309	13 gpm	44 gpm	2" mpt	3 hp	8.4 a	3.8 a
AquaSimplex-30/0511	13 gpm	44 gpm	2" mpt	5 hp	14.1 a	7.3 a
AquaSimplex-50/0304	27 gpm	68 gpm	3" flange	3 hp	8.4 a	3.8 a
AquaSimplex-50/0505	27 gpm	68 gpm	3" flange	5 hp	14.1 a	7.3 a
AquaSimplex-50/0506	27 gpm	68 gpm	3" flange	5 hp	14.1 a	7.3 a
AquaSimplex-50/7507	27 gpm	68 gpm	3" flange	15 hp	19.5 a	9.1 a
AquaSimplex-90/7503	46 gpm	124 gpm	3" flange	7.5 hp	19.5 a	9.1 a
AquaSimplex-90/7504	46 gpm	124 gpm	3" flange	7.5 hp	19.5 a	9.1 a
AquaSimplex-90/1005	46 gpm	124 gpm	3" flange	10 hp	26.5 a	12.4 a
AquaSimplex-110/1505	56 gpm	154 gpm	3" flange	15 hp	37.5 a	17.0 a
AquaSimplex-110/1506	56 gpm	154 gpm	3" flange	15 hp	37.5 a	17.0 a
AquaDuplex-30/0307	13 gpm	88 gpm	2" mpt	2 x 3 hp	2 x 8.4 a	2 x 3.8 a
AquaDuplex-30/0309	13 gpm	88 gpm	2" mpt	2 x 3 hp	2 x 8.4 a	2 x 3.8 a
AquaDuplex-30/0511	13 gpm	88 gpm	2" mpt	2 x 5 hp	2 x 14.1 a	2 x 7.3 a
AquaDuplex-50/0304	27 gpm	136 gpm	3" flange	2 x 3 hp	2 x 8.4 a	2 x 3.8 a
AquaDuplex-50/0505	27 gpm	136 gpm	3" flange	2 x 5 hp	2 x 14.1 a	2 x 7.3 a
AquaDuplex-50/0506	27 gpm	136 gpm	3" flange	2 x 5 hp	2 x 14.1 a	2 x 7.3 a
AquaDuplex-50/7507	46 gpm	248 gpm	3" flange	2 x 7.5 hp	2 x 19.5 a	2 x 9.1 a
AquaDuplex-90/7503	46 gpm	248 gpm	3" flange	2 x 7.5 hp	2 x 19.5 a	2 x 9.1 a
AquaDuplex-90/7504	46 gpm	248 gpm	3" flange	2 x 7.5 hp	2 x 19.5 a	2 x 9.1 a
AquaDuplex-90/1005	46 gpm	248 gpm	3" flange	2 x 10 hp	2 x 26.5 a	2 x 12.4 a
AquaDuplex-110/1505	56 gpm	308 gpm	3" flange	2 x 15 hp	2 x 37.5 a	2 x 17.0 a
AquaDuplex-110/1506	56 gpm	308 gpm	3" flange	2 x 15 hp	2 x 37.5 a	2 x 17.0 a