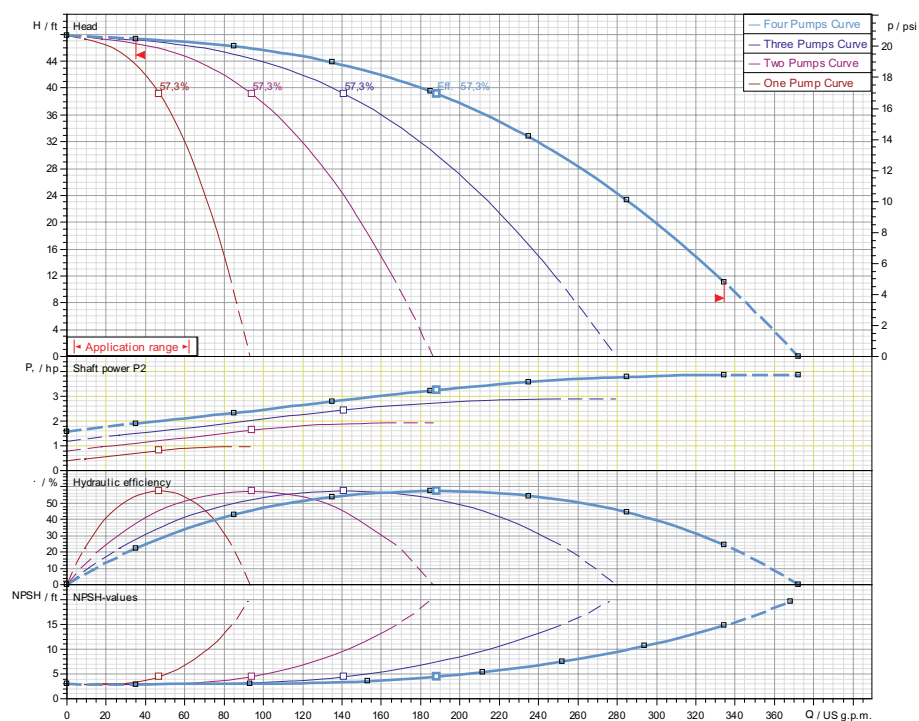




CO-4 HELIX V50-01-1/1/VCE

| | Project: | | | | | | | |
|-------|---------------------------|------|---------|----------------|---------|-------|---------|-----|
| | Engineer: | | | | | | | |
| | Contractor: | | | | | | | |
| | Submitted By: | | | | Date: | | | |
| | Approved By: | | | | Date: | | | |
| Tag # | Model # | Flow | Set PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
| | CO-4 HELIX V50-01-1/1/VCE | | | | | | | |



| Applications | |
|--------------------------------|---------------------|
| • Water Supply | • Pressure Boosting |
| • Agriculture | • Cooling Circuits |
| • Washing / Sprinkling Systems | • Condensate Return |

| Materials of Construction | |
|-----------------------------|---|
| Pump Volute | AISI304 stainless steel with ANSI flanges |
| Impeller | 3D Laser welded AISI 304 Stainless Steel |
| Shaft | AISI304, AISI318 LN, or AISI431 Stainless Steel |
| Elastomers | EPDM |
| Isolation Valves | 304 Stainless Steel Ball Valves |
| Suction/Discharge Manifolds | AISI304 Stainless Steel |
| Check Valves | 316 Stainless Steel, Non-slam, with EPDM seal |
| Mechanical Seal | Sleeve AISI316L / Spring Clips AISI304 |
| System base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |

| Technical Data - Operational Ranges | |
|-------------------------------------|--|
| Liquid Temp Range | -4°F to +248°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| Max Inlet Pressure | 145 PSI |
| Max System Pressure | 232 PSI |

| Technical Data - Panel | |
|---------------------------|---|
| Power Supply | 208-230/460-3 or 575-3 |
| Enclosure | NEMA 12 (3R Available Upon Request) |
| Standard | Meets UL 508A |
| Variable Frequency Drives | Danfoss FC-51 (1-10 HP for 208-230/460v-3) Danfoss FC-101 (1-10 HP for 575v-3) |

| Technical Data - PLC | |
|---------------------------|--|
| User Interface | 7" Diagonal Color LCD Touchscreen |
| Display Resolution | 800 x 480 Pixels |
| Supply Voltage | 24VDC |
| Max. Current Consumption | 320mA@24V |
| Number of Analog Inputs | 9 |
| Number of Analog Outputs | 2 |
| Number of Digital Inputs | 18 |
| Number of Digital Outputs | 17 |
| Onboard Communications | Modbus Protocol (Optional Gateways for BacNET, LonWorks, and CANbus) |
| Ethernet Port | RJ45 port capable of transmitting data 10/100Mbps |
| Additional Ports | 2.0 USB Port; Micro-SD Port |

| Motor Data | |
|------------------------|---|
| Power Supply | 208-230-3 or 460-3 or 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency (IE3) - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | B/F |

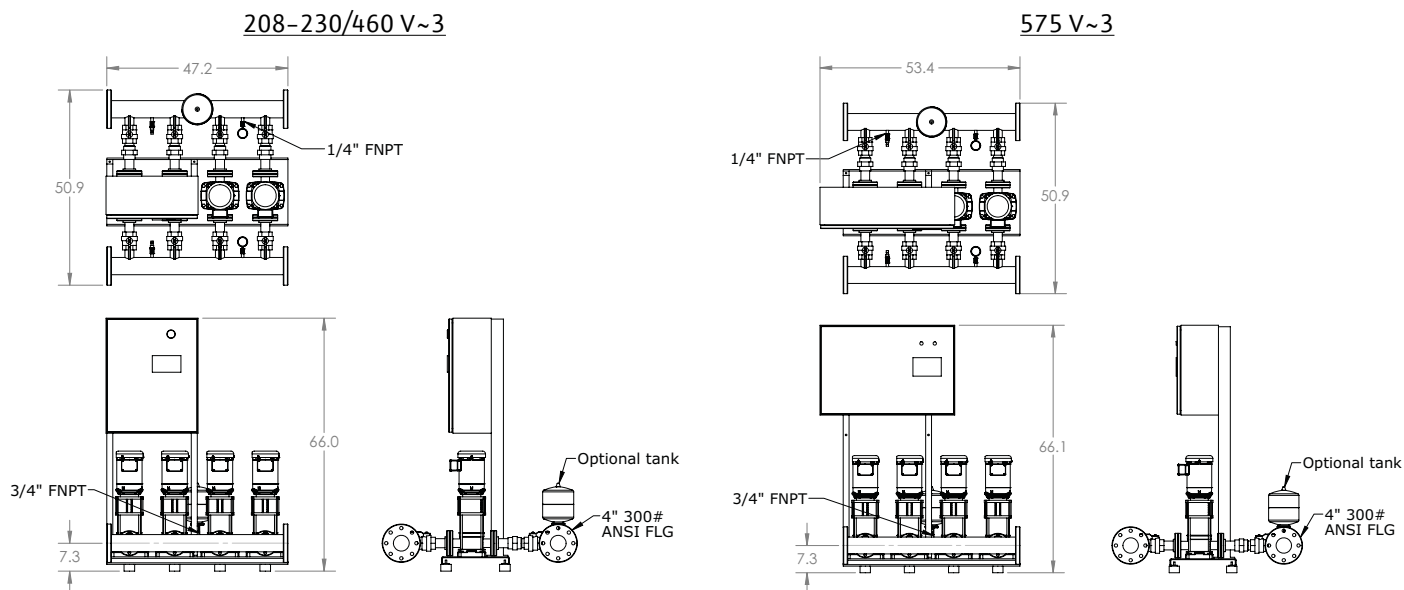
Approval Stamp

Submittal Data Sheet

Wilo CO-Helix – Pressure Boosting System



CO-4 HELIX V50-01-1/1/VCE



Special Note: All weights and dimensions are approximate and should not be used as exact rough-in dimensions

Dimensions and Weights

| Dimensions-inches | | | | | | | | | | | Individual Pump Weight | Package Weight |
|------------------------------|---------------|--------|--------|--------|---------------------------|--|----------------|---------------------|---|--|------------------------|----------------------|
| Model | Voltage (V) | H (in) | W (in) | L (in) | Header Flange Size | Suction / Discharge Pump Size (300 Class ANSI) | Gauge Tap Size | Transducer Tap Size | Hydronumatic Tank Fitting (Without Tank Option) | Hydronumatic Tank Fitting (With Tank Option) | Pump Weight (lbs) | Package Weight (lbs) |
| | | | | | | | | | | | | |
| CO-4 HELIX V50-01-1/1/VCE | 208-230/460 V | 66 | 47.2 | 50.9 | 4" - 300 Class ANSI | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 3/4" MNPT x 3/4" FBSPT | 87 | 937 |
| | 575 V | 66.1 | 53.4 | 50.9 | | | | | | | | |

TEFC Motor Data

| Model | P2 (HP) | Phase (~) | Voltage (V) | FLA (per pump) (A) | Pmax (PSI) |
|---------------------------|---------|-----------|-----------------|--------------------|------------|
| CO-4 HELIX V50-01-1/1/VCE | 1 | 3 | 208-230/460/575 | 3-2.8/1.4/1.1 | 232 |