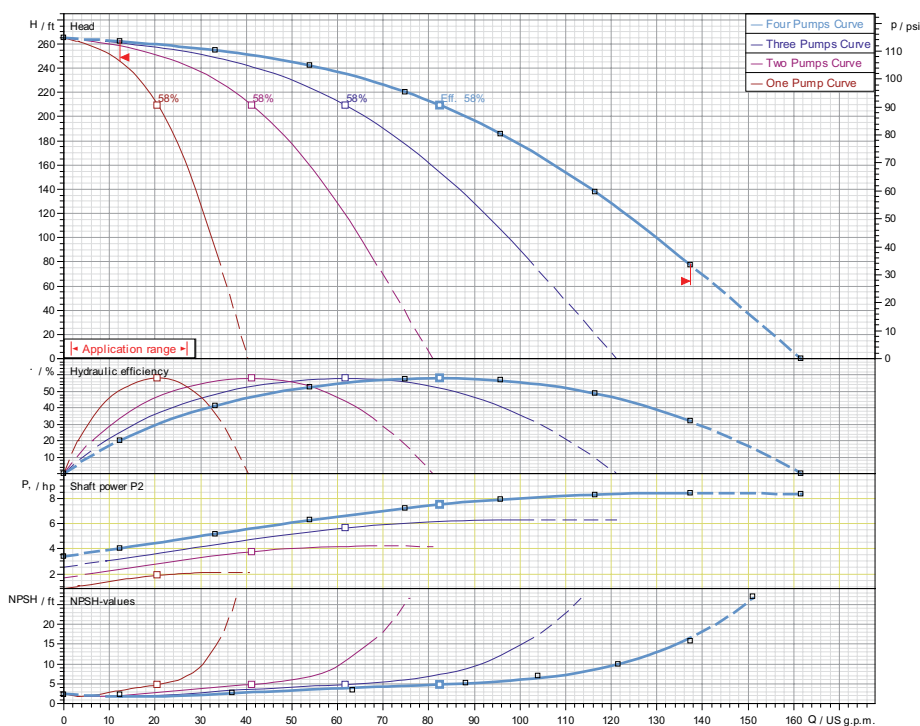


# 



### CO-4 HELIX V20-07-1/2/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 V20-07-1/2/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)<br>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   |

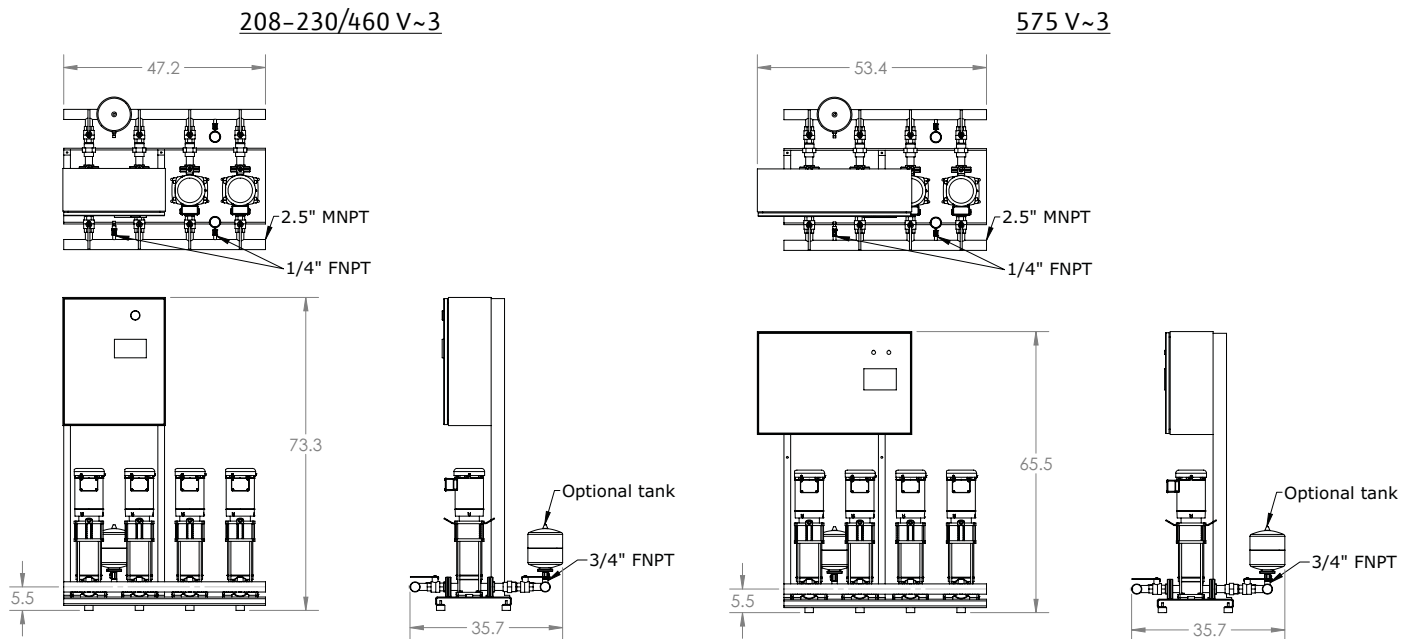
Approval Stamp

# Submittal Data Sheet

## Wilo CO-Helix – Pressure Boosting System



### CO-4 HELIX V20-07-1/2/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 V20-07-1/2/VCE | 208-230/460 V | 73.3   | 47.2   | 35.7   | 2.5" MNPT          | 1-1/4"   | 1/4" FNPT      | 1/4" FNPT           | 3/4" MNPT x 3/4" FNPT                           | 3/4" MNPT x 3/4" FBSPT                       |  | 91                     | 726                  |
|                           | 575 V         | 65.5   | 53.4   | 35.7   |                    |  |                |                     |   |  |  |                        |                      |

#### TEFC Motor Data

| Model                     | P2 (HP) | Phase (~) | Voltage (V)     | FLA (per pump) (A) | Pmax (PSI) |
|---------------------------|---------|-----------|-----------------|--------------------|------------|
| CO-4 HELIX V20-07-1/2/VCE | 2       | 3         | 208-230/460/575 | 5.3-5.0/2.5/2.0    | 232        |