


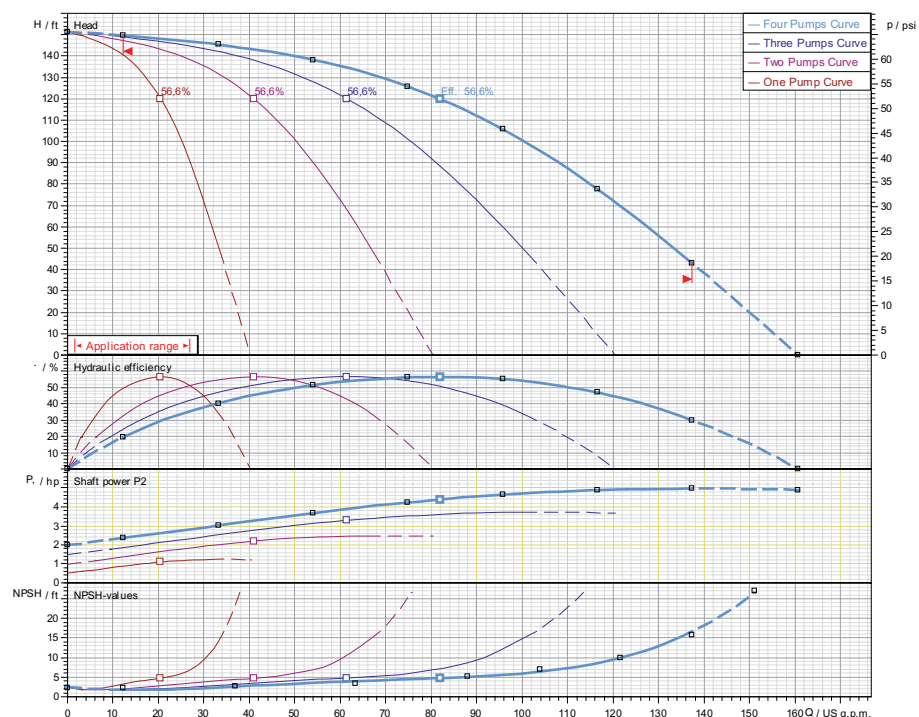
# Submittal Data Sheet

## Wilo CO-Helix – Pressure Boosting System

**wilo**®

### CO-4 HELIX V20-04-1/1.5/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 V20-04-1/1.5/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

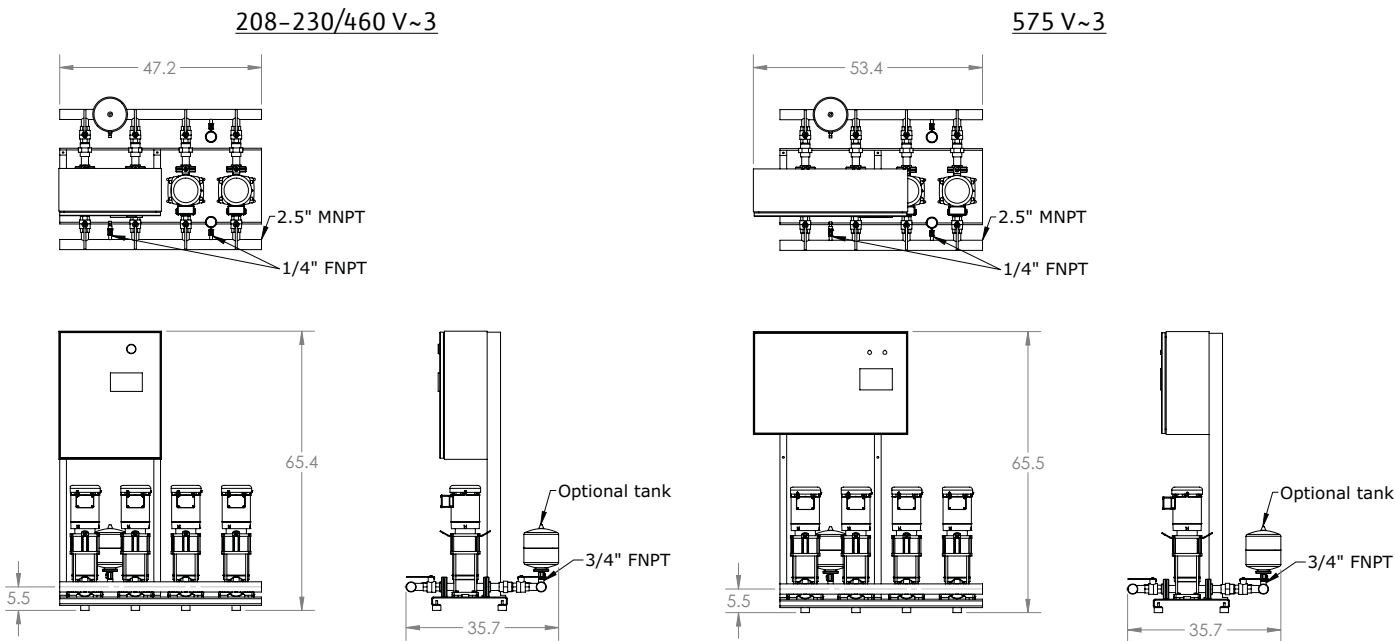
Power Supply	208–230~3 or 460~3 or 575~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	Nema Premium Efficiency (IE3) – Meets NEMA 12–12 Rule
Enclosure Construction	Rolled Steel / Cast Iron
Motor Protection Index	IP54
Insulation Class	B/F

Approval Stamp

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CO-4 HELIX V20-04-1/1.5/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 V20-04-1/1.5/VCE	208-230/460 V	65.4	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		80	682
	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 V20-04-1/1.5/VCE	1.5	3	208-230/460/575	4-3.8/1.9/1.5	232