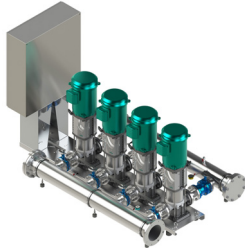


Submittal Data Sheet

Wilco CO-Helix - NSF 61/372 Pressure Boosting System



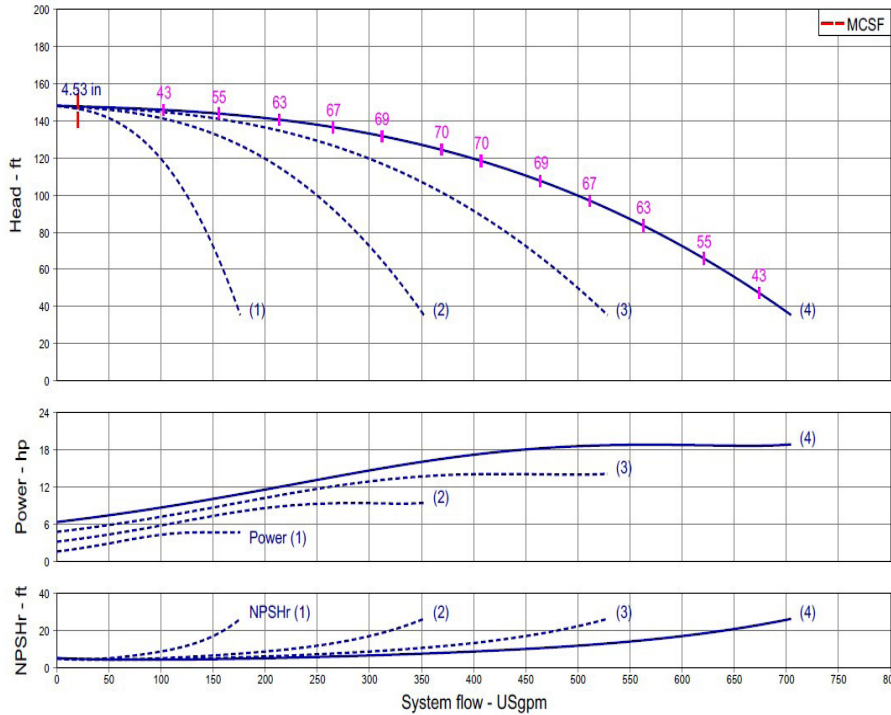
CO-4 HELIX V110-02/2-1/5/VCE



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
|-------|-----------------------------|------|-----------|----------------|---------|-------|---------|------|
| | CO-4 HELIX V110-2/2-1/5/VCE | | | | 5 | | | 3600 |

Article Number: 3323446 / 3323464 / 3324931 / 3323413



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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |

Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V-3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V-3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

Wilo CO-Helix - NSF 61/372 Pressure Boosting System

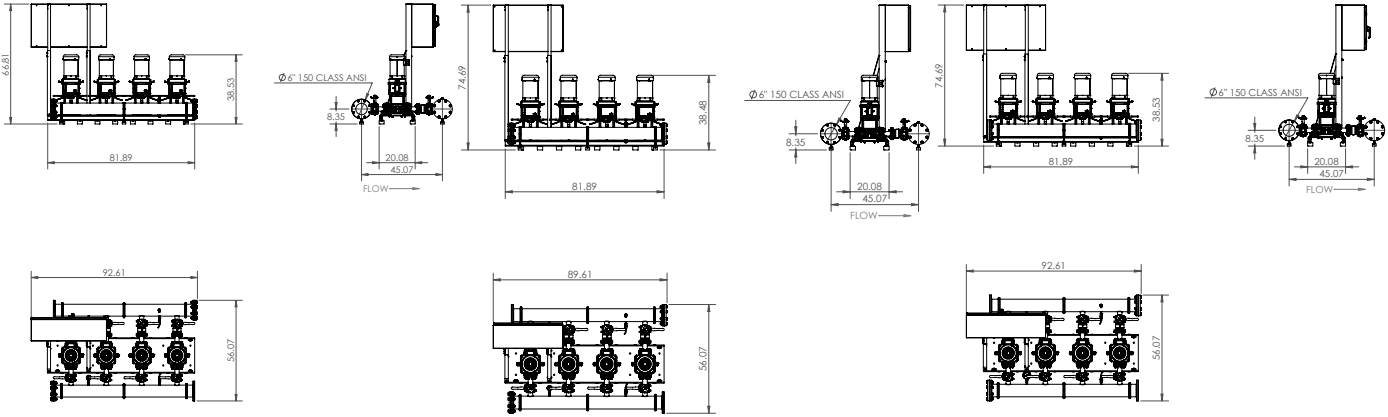


CO-4 HELIX V110-02/2-1/5/VCE

208-230 V ~1in/~3out

208-230 V~3/460 V~3

575 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | System Header Size | Dimensions-inches | | | | Hydronumatic Tank Valve on Manifold (Plugged) | Individual Pump Weight (lbs) | Package Weight (lbs) |
|------------------------------|--------------------|--------|--------|--------|--------------------|---|----------------|---------------------|-----------------------|---|------------------------------|----------------------|
| | | | | | | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | | | | |
| CO-4 HELIX V110-02/2-1/5/VCE | 208-230 V~1in/3out | 66-3/4 | 92-2/3 | 56 | 6" 150 ANSI Class | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 193 | 1,583 | |
| | 208-230/460 V | 74-2/3 | 89-2/3 | 56 | | | | | | | | |
| | 575 V | 74-2/3 | 92-2/3 | 56 | | | | | | | | |

TEFC Motor Data (per motor)

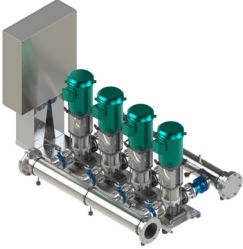
| Model | P2 | Phase | Voltage | Motor FLA (per pump) | System FLA | Pmax |
|------------------------------|------|-------|---------------------------------|----------------------|----------------|-------|
| | (HP) | (-) | (V) | (A) | | (PSI) |
| CO-4 HELIX V110-02/1-1/5/VCE | 5 | 1 | 208-230V-1 IN/ 208-230V-3OUT | 13.1-11.8 | 97 | 232 |
| | | 3 | 208-230/460/575 | 13.1-11.8/5.9/4.72 | 61.8/33.8/23.4 | |

Submittal Data Sheet

Wilco CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-02-1/10/VCE

|  | | Project: | | | | | | |
|---|-----------------------------|---------------|-----------|----------------|---------|-------|---------|------|
| | | Engineer: | | | | | | |
| | | Contractor: | | | | | | |
| | | Submitted By: | | | | Date: | | |
| | | Approved By: | | | | Date: | | |
| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
| | CO-4 HELIX V110-02-1/10/VCE | | | | 7.5 | | | 3600 |

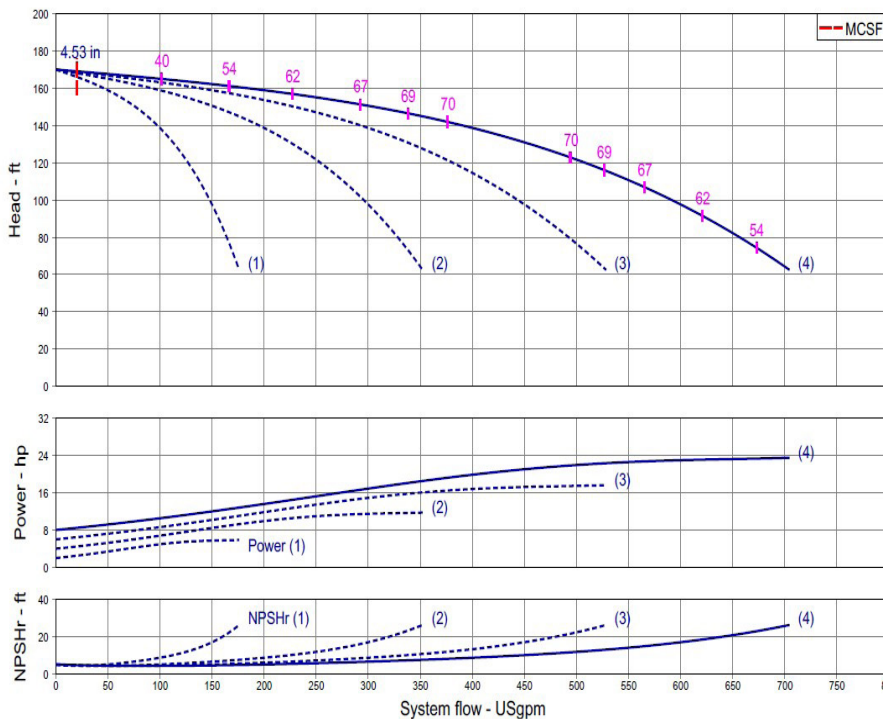
Article Number: 3323447 / 3323465 / 3324932 / 3323414

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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |



Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V-3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V-3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

Wilo CO-Helix - NSF 61/372 Pressure Boosting System

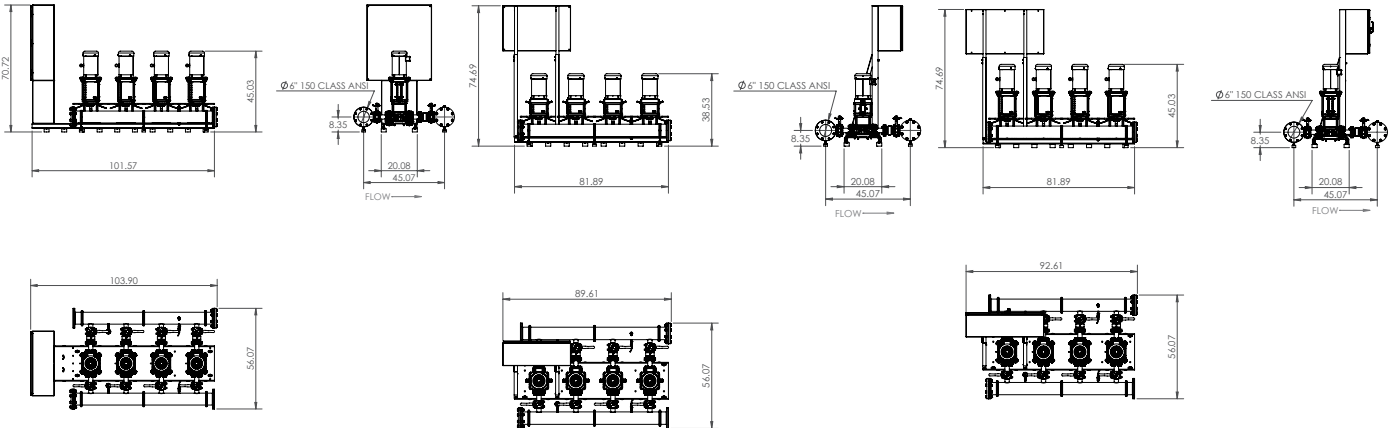


CO-4 HELIX V110-02-1/10/VCE

208-230 V ~1in/~3out

460 V~3

208-230 V~3/575 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | Dimensions-inches | | | | | Individual Pump Weight (lbs) | Package Weight (lbs) |
|-----------------------------|---------------------|--------|---------|--------|--------------------|---|----------------|---------------------|---|------------------------------|----------------------|
| | | | | | System Header Size | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | Hydronumatic Tank Valve on Manifold (Plugged) | | |
| CO-4 HELIX V110-02-1/10/VCE | 208-230 V~1in/~3out | 70-3/4 | 103-7/8 | 56 | 6" 150 ANSI Class | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 293 | 1,761 |
| | 460 V | 74-2/3 | 89-2/3 | 56 | | | | | | | |
| | 208-230/575 V | 74-2/3 | 92-2/3 | 56 | | | | | | | |

TEFC Motor Data (per motor)

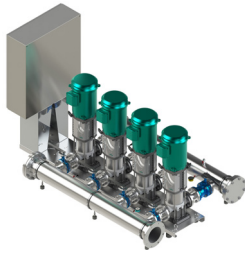
| Model | P2 (HP) | Phase (-) | Voltage (V) | Motor FLA (per pump) (A) | System FLA | Pmax (PSI) |
|-----------------------------|---------|-----------|---------------------------------|--------------------------|------------------|------------|
| CO-4 HELIX V110-02-1/10/VCE | 10 | 1 | 208-230V-1 IN/ 208-230V-3OUT | 19.2-17.3 | 211.8 | 232 |
| | | 3 | 208-230/460/575 | 19.2-17.3/8.7/7 | 114.2-97/57/46.6 | |

Submittal Data Sheet

Wilco CO-Helix - NSF 61/372 Pressure Boosting System



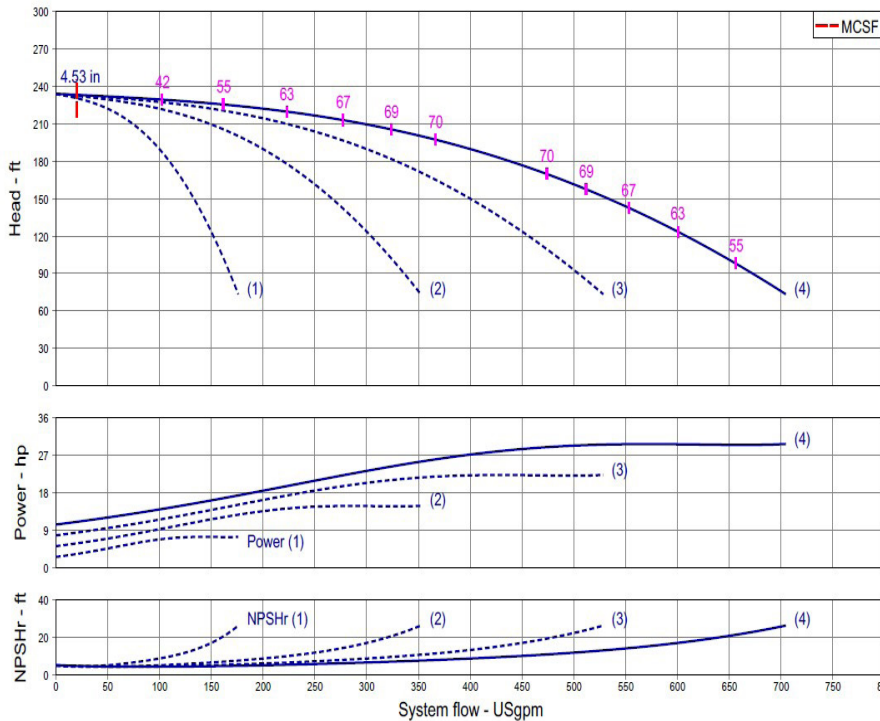
CO-4 HELIX V110-03/2-1/7.5/VCE



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
|-------|--------------------------------|------|-----------|----------------|---------|-------|---------|------|
| | CO-4 HELIX V110-03/2-1/7.5/VCE | | | | 7.5 | | | 3600 |

Article Number: 3323448 / 3323466 / 3324933 / 3323415



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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |

Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V-3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V-3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

Wilo CO-Helix - NSF 61/372 Pressure Boosting System

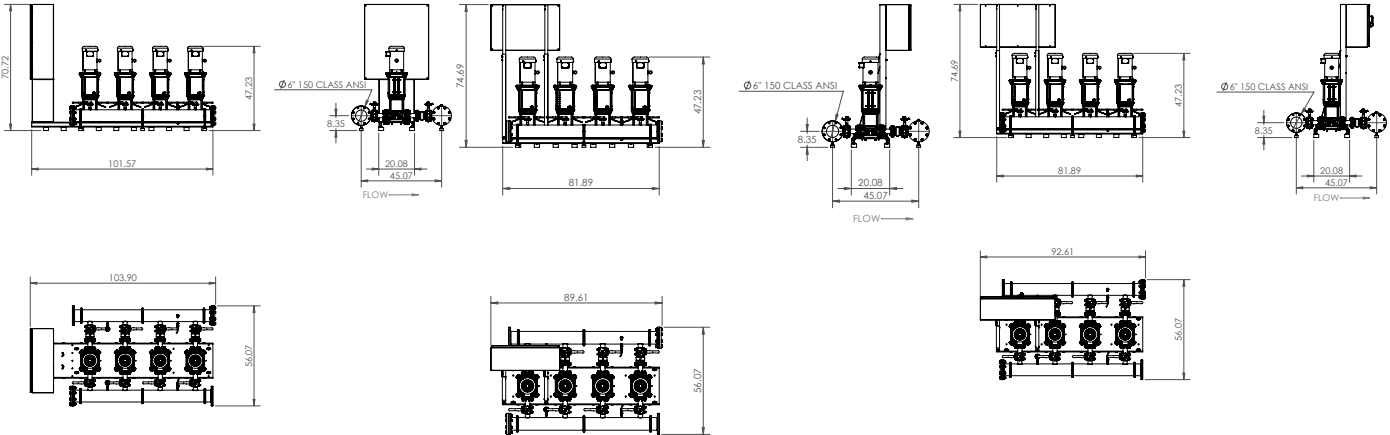


CO-4 HELIX V110-03/2-1/7.5/VCE

208-230 V ~1in/~3out

460 V~3

208-230 V~3/575 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | System Header Size | Dimensions-inches | | | | Hydronumatic Tank Valve on Manifold (Plugged) | Individual Pump Weight (lbs) | Package Weight (lbs) |
|--------------------------------|--------------------|--------|---------|--------|--------------------|---|----------------|---------------------|-----------------------|---|------------------------------|----------------------|
| | | | | | | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | | | | |
| CO-4 HELIX V110-03/2-1/7.5/VCE | 208-230 V~1in/3out | 70-3/4 | 103-7/8 | 56 | 6" 150 ANSI Class | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 293 | 1,793 | |
| | 460 V | 74-2/3 | 89-2/3 | 56 | | | | | | | | |
| | 208-230/575 V | 74-2/3 | 92-2/3 | 56 | | | | | | | | |

TEFC Motor Data (per motor)

| Model | P2 (HP) | Phase (-) | Voltage (V) | Motor FLA (per pump) (A) | System FLA | Pmax (PSI) |
|--------------------------------|---------|-----------|---------------------------------|--------------------------|---------------|------------|
| CO-4 HELIX V110-03/2-1/7.5/VCE | 7.5 | 1 | 208-230V-1 IN/ 208-230V-3OUT | 19.2-17.3 | 153.8 | 232 |
| | | 3 | 208-230/460/575 | 19.2-17.3/8.7/7 | 85-73/45/34.2 | |

Submittal Data Sheet

Wilco CO-Helix - NSF 61/372 Pressure Boosting System



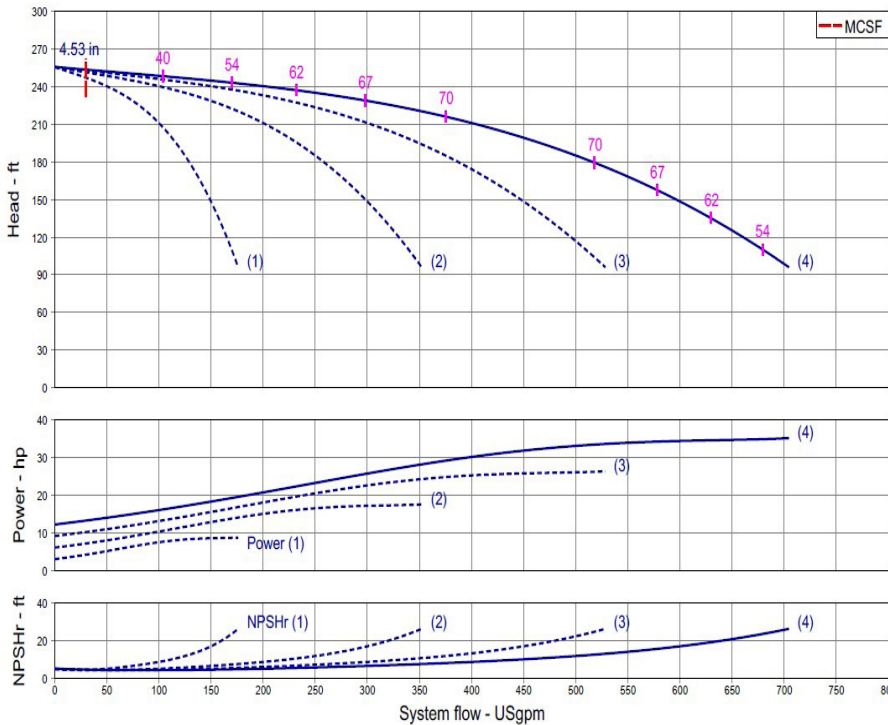
CO-4 HELIX V110-03-1/10/VCE



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
|-------|-----------------------------|------|-----------|----------------|---------|-------|---------|------|
| | CO-4 HELIX V110-03-1/10/VCE | | | | 10 | | | 3600 |

Article Number: 3323467 / 3324934 / 3323416



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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |

Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V-3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V-3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

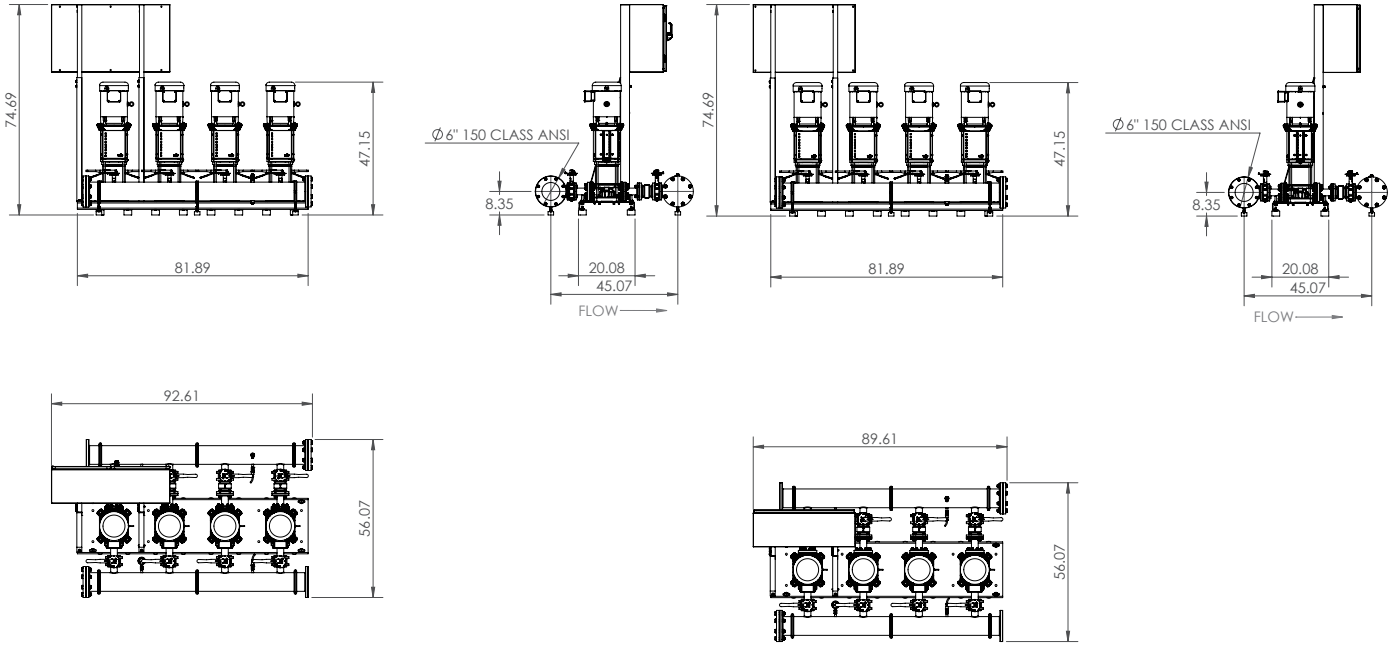
Wilo CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-03-1/10/VCE

208-230 V~3/575 V~3

460 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | System Header Size | Dimensions-inches | | | | Individual Pump Weight | Package Weight |
|-----------------------------|---------------|--------|--------|--------|--------------------|---|----------------|---------------------|---|------------------------|----------------------|
| | | | | | | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | Hydrunumatic Tank Valve on Manifold (Plugged) | Pump Weight (lbs) | Package Weight (lbs) |
| CO-4 HELIX V110-03-1/10/VCE | 208-230/575 V | 74-2/3 | 92-2/3 | 56 | 6" 150 Class ANSI | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 293 | 1,915 |
| | 460 V | 74-2/3 | 89-2/3 | 56 | 6" 150 Class ANSI | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 293 | 1,915 |

TEFC Motor Data

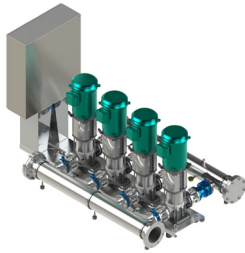
| Model | P2 (HP) | Phase (-) | Voltage (V) | FLA (per pump) (A) | System FLA (A) | Pmax (PSI) |
|-----------------------------|---------|-----------|-----------------|--------------------|------------------|------------|
| CO-4 HELIX V110-03-1/10/VCE | 10 | 3 | 208-230/460/575 | 25.4-23/11.5/9.2 | 114.2-97/57/46.6 | 232 |

Submittal Data Sheet

Wilco CO-Helix - NSF 61/372 Pressure Boosting System



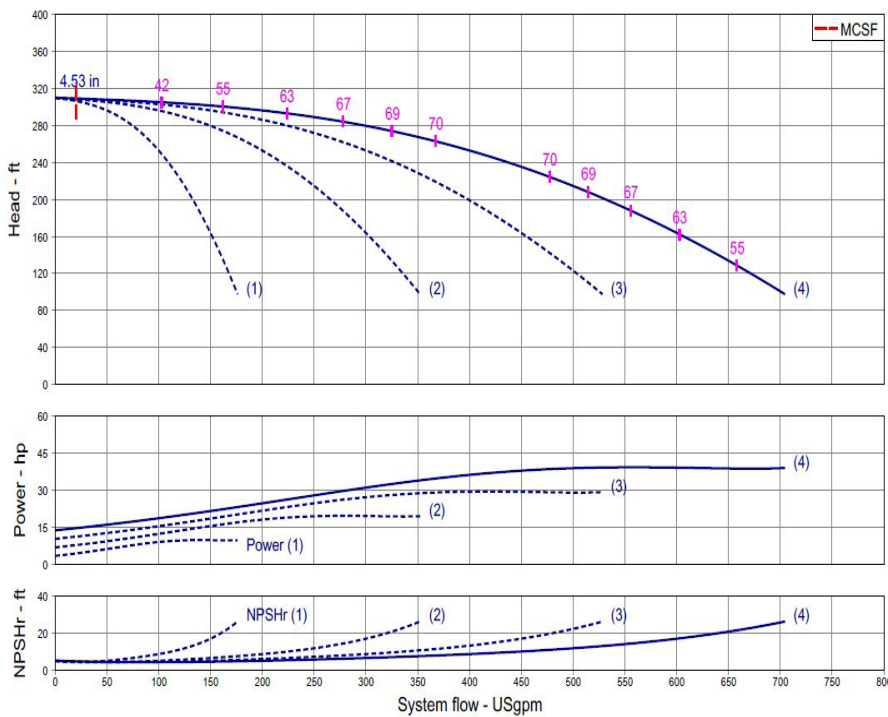
CO-4 HELIX V110-04/3-1/10/VCE



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
|-------|-------------------------------|------|-----------|----------------|---------|-------|---------|------|
| | CO-4 HELIX V110-04/3-1/10/VCE | | | | 10 | | | 3600 |

Article Number: 3323468 / 3324935 / 3323417



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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |

Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V-3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V-3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

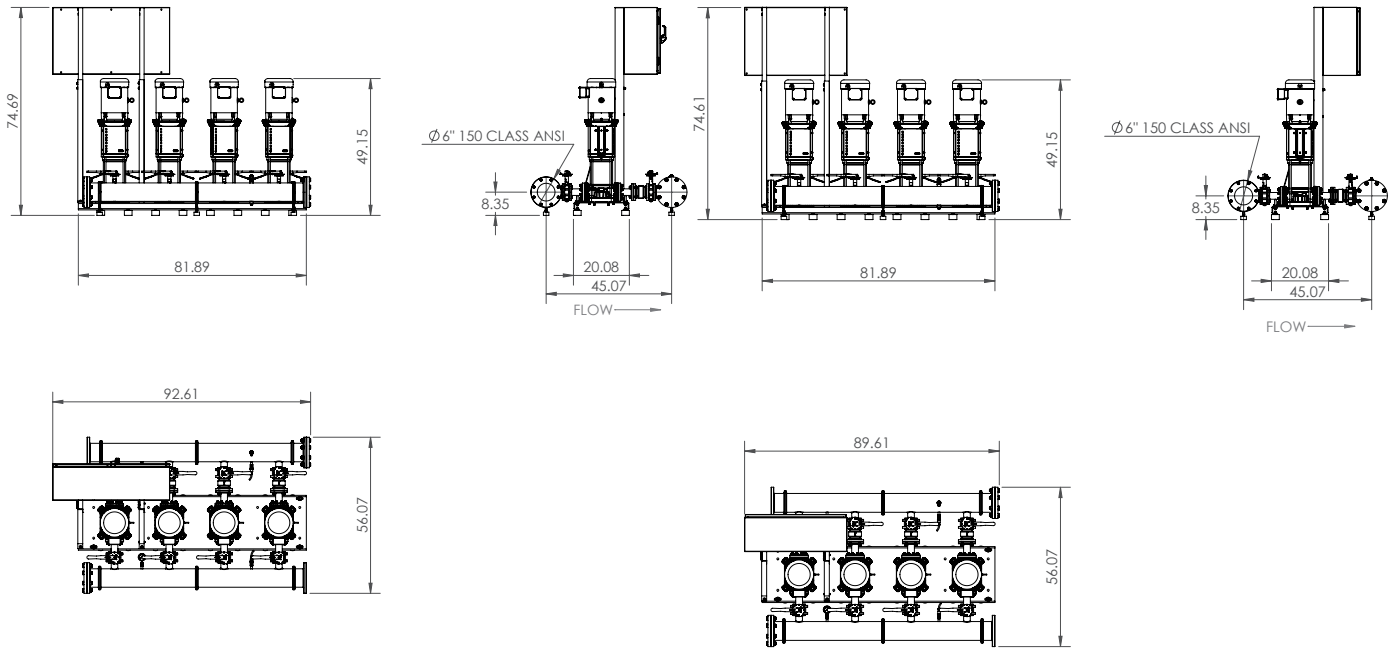
Wilo CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-04/3-1/10/VCE

208-230 V~3/575 V~3

460 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | Dimensions-inches | | | | | Individual Pump Weight (lbs) | Package Weight (lbs) |
|-------------------------------|---------------|--------|--------|--------|--------------------|---|----------------|---------------------|---|------------------------------|----------------------|
| | | | | | System Header Size | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | Hydronumatic Tank Valve on Manifold (Plugged) | | |
| CO-4 HELIX V110-04/3-1/10/VCE | 208-230/575 V | 74-3/4 | 92-2/3 | 56 | 6" 150 Class ANSI | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 304 | 1,922 |
| | 460 V | 74-2/3 | 89-2/3 | 56 | 6" 150 Class ANSI | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 304 | 1,922 |

TEFC Motor Data

| Model | P2 (HP) | Phase (-) | Voltage (V) | FLA (per pump) (A) | System FLA | Pmax (PSI) |
|-------------------------------|---------|-----------|-----------------|--------------------|------------------|------------|
| CO-4 HELIX V110-04/3-1/10/VCE | 10 | 3 | 208-230/460/575 | 25.4-23/11.5/9.2 | 114.2-97/57/46.6 | 232 |

Submittal Data Sheet

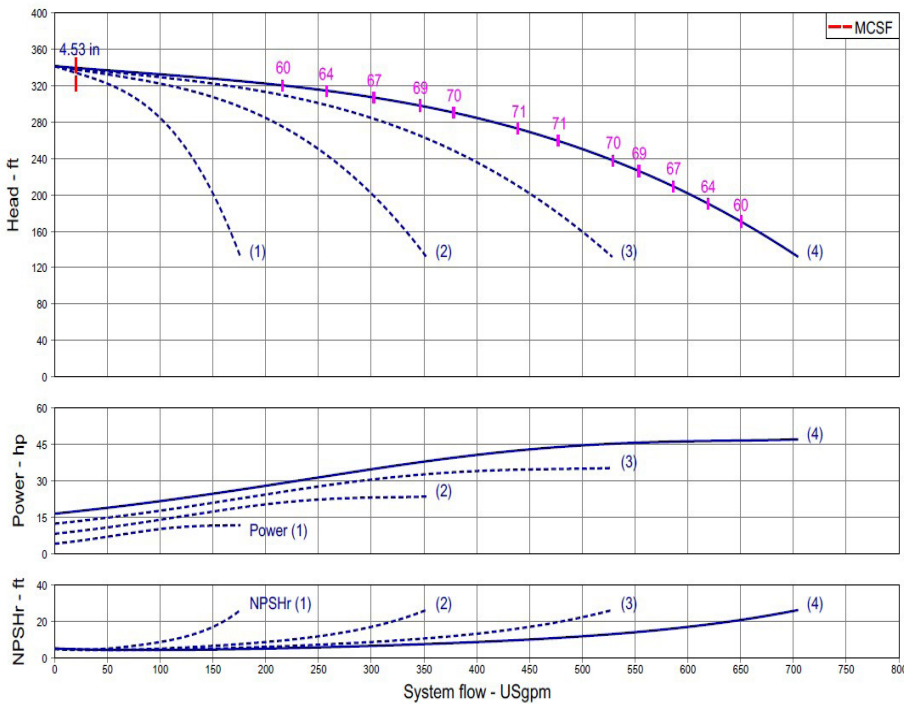
Wilco CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-04-1/15/VCE

| | | Project: | | | | | | |
|-------|-----------------------------|---------------|-----------|----------------|---------|-------|---------|------|
| | | Engineer: | | | | | | |
| | | Contractor: | | | | | | |
| | | Submitted By: | | | | Date: | | |
| | | Approved By: | | | | Date: | | |
| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
| | CO-4 HELIX V110-04-1/15/VCE | | | | 15 | | | 3600 |

Article Number: 3323469 / 3324936 / 3323418



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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |

Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V-3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V-3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

Wilo CO-Helix - NSF 61/372 Pressure Boosting System

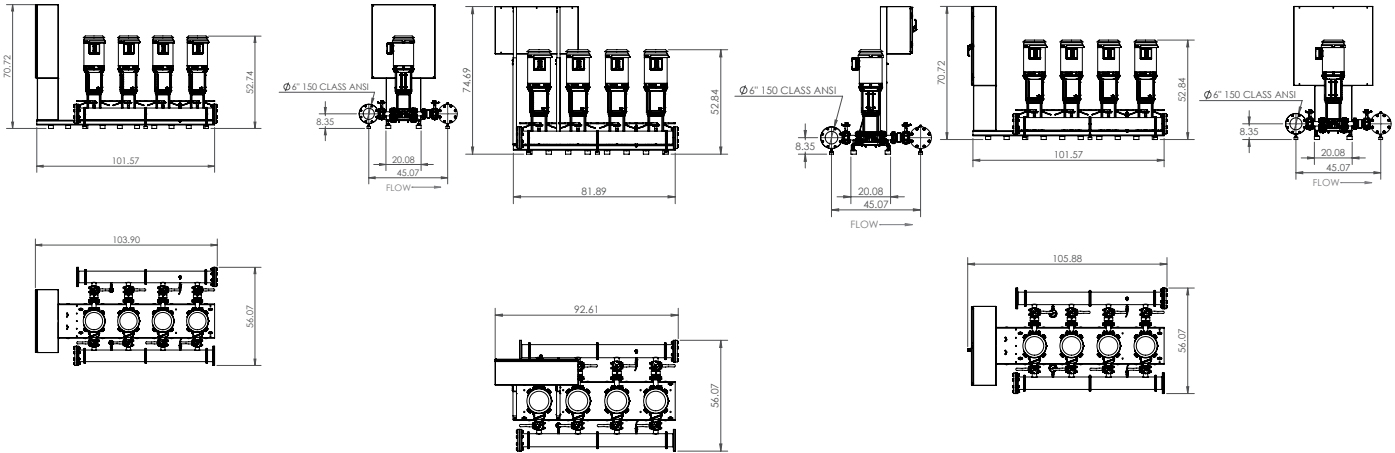


CO-4 HELIX V110-04-1/15/VCE

208-230 V~3

460 V~3

575 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | System Header Size | Dimensions-inches | | | | Hydronumatic Tank Valve on Manifold (Plugged) | Individual Pump Weight (lbs) | Package Weight (lbs) |
|-----------------------------|---------------|--------|---------|--------|--------------------|---|----------------|---------------------|-----------------------|---|------------------------------|----------------------|
| | | | | | | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | | | | |
| CO-4 HELIX V110-04-1/15/VCE | 208-230 V | 70-3/4 | 103-7/8 | 56 | 6" 150 ANSI Class | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 321 | 2,198 | |
| | 460 V | 74-2/3 | 92-2/3 | 56 | | | | | | | | |
| | 208-230/575 V | 70-3/4 | 105-7/8 | 56 | | | | | | | | |

TEFC Motor Data

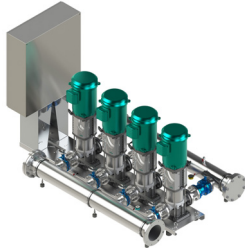
| Model | P2 (HP) | Phase (-) | Voltage (V) | FLA (per pump) (A) | System FLA | Pmax (PSI) |
|-----------------------------|---------|-----------|-----------------|---------------------|---------------------|------------|
| CO-4 HELIX V110-04-1/15/VCE | 15 | 3 | 208-230/460/575 | 38.5-34.8/17.4/13.8 | 165-153.8/74.6/63.8 | 232 |

Submittal Data Sheet

Wilco CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-05/3-1/15/VCE



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
|-------|-------------------------------|------|-----------|----------------|---------|-------|---------|------|
| | CO-4 HELIX V110-05/3-1/15/VCE | | | | 15 | | | 3600 |

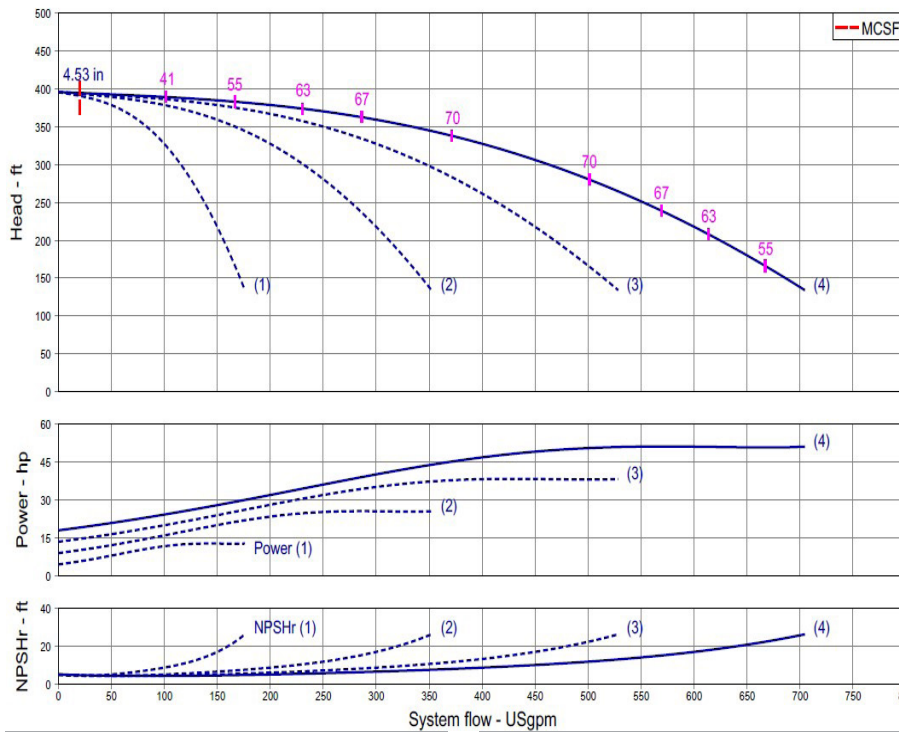
Article Number: 3323470 / 3324937 / 3323419

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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |



Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V-3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V-3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

Wilo CO-Helix - NSF 61/372 Pressure Boosting System

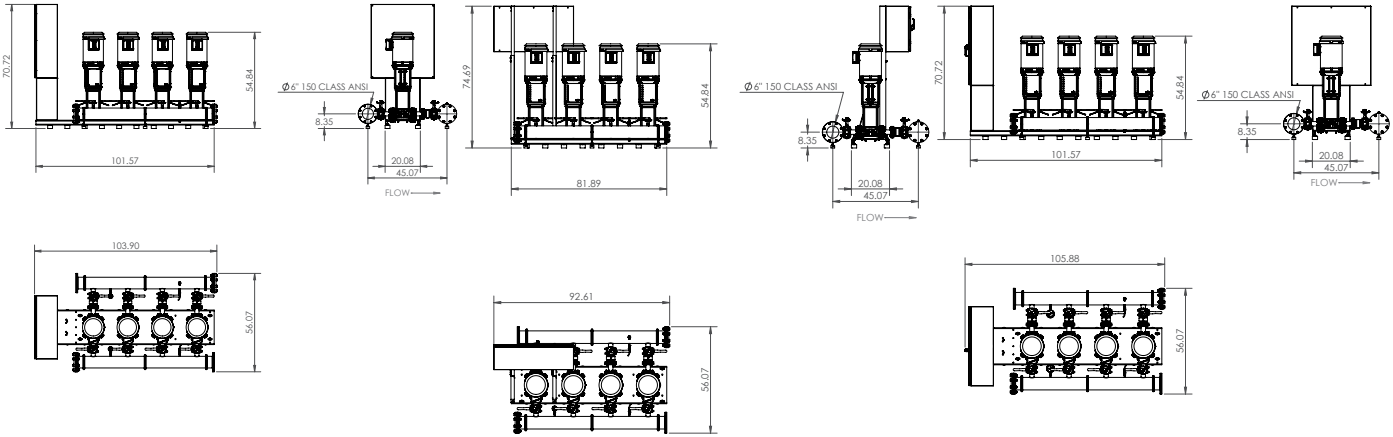


CO-4 HELIX V110-05/3-1/15/VCE

208-230 V~3

460 V~3

575 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | Dimensions-inches | | | | | Individual Pump Weight | Package Weight |
|-------------------------------|---------------|--------|---------|--------|--------------------|---|----------------|---------------------|---|------------------------|----------------------|
| | | | | | System Header Size | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | Hydronumatic Tank Valve on Manifold (Plugged) | Pump Weight (lbs) | Package Weight (lbs) |
| CO-4 HELIX V110-05/3-1/15/VCE | 208-230 V | 70-3/4 | 103-7/8 | 56 | 6" 150 ANSI Class | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 332 | 2,242 |
| | 460 V | 74-2/3 | 92-2/3 | 56 | | | | | | | |
| | 208-230/575 V | 70-3/4 | 105-7/8 | 56 | | | | | | | |

TEFC Motor Data

| Model | P2 (HP) | Phase (~) | Voltage (V) | FLA (per pump) (A) | System FLA | Pmax (PSI) |
|-------------------------------|---------|-----------|-----------------|---------------------|---------------------|------------|
| CO-4 HELIX V110-05/3-1/15/VCE | 15 | 3 | 208-230/460/575 | 38.5-34.8/17.4/13.8 | 165-153.8/74.6/63.8 | 232 |

Submittal Data Sheet

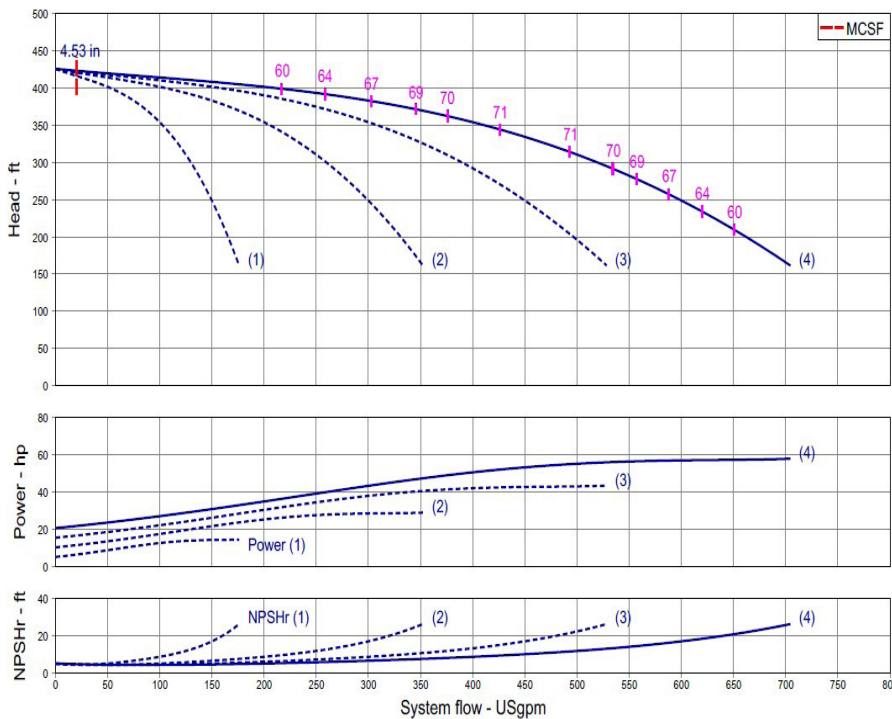
Wilco CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-05-1/15/VCE

| | Project: | | | | | | | |
|-------|-----------------------------|------|-----------|----------------|---------|-------|---------|------|
| | Engineer: | | | | | | | |
| | Contractor: | | | | | | | |
| | Submitted By: | | | | Date: | | | |
| | Approved By: | | | | Date: | | | |
| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
| | CO-4 HELIX V110-05-1/15/VCE | | | | 15 | | | 3600 |

Article Number: 3323471 / 3324938 / 3323420



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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |

Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V-3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V-3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

Wilo CO-Helix - NSF 61/372 Pressure Boosting System

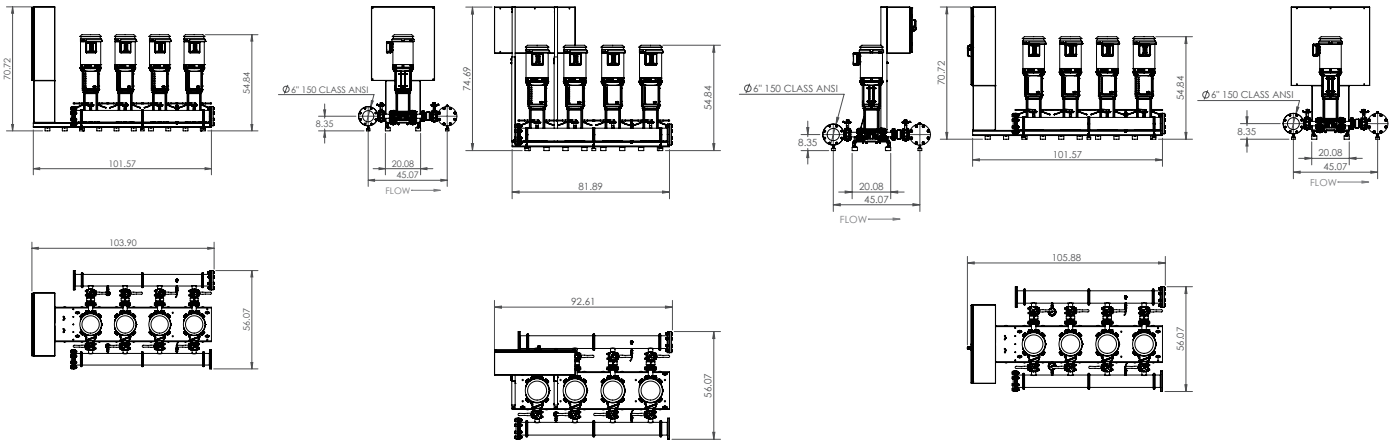


CO-4 HELIX V110-05-1/15/VCE

208-230 V~3

460 V~3

575 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | Dimensions-inches | | | | | Individual Pump Weight | Package Weight |
|-----------------------------|---------------|--------|---------|--------|--------------------|---|----------------|---------------------|---|------------------------|----------------------|
| | | | | | System Header Size | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | Hydronumatic Tank Valve on Manifold (Plugged) | Pump Weight (lbs) | Package Weight (lbs) |
| CO-4 HELIX V110-05-1/15/VCE | 208-230 V | 70-3/4 | 103-7/8 | 56 | 6" 150 ANSI Class | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 325 | 2,314 |
| | 460 V | 74-2/3 | 92-2/3 | 56 | | | | | | | |
| | 208-230/575 V | 70-3/4 | 105-7/8 | 56 | | | | | | | |

TEFC Motor Data

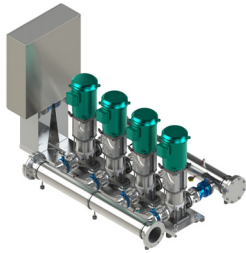
| Model | P2 (HP) | Phase (-) | Voltage (V) | FLA (per pump) (A) | System FLA | Pmax (PSI) |
|-----------------------------|---------|-----------|-----------------|---------------------|---------------------|------------|
| CO-4 HELIX V110-05-1/15/VCE | 15 | 3 | 208-230/460/575 | 38.5-34.8/17.4/13.8 | 165-153.8/74.6/63.8 | 232 |

Submittal Data Sheet

Wilco CO-Helix - NSF 61/372 Pressure Boosting System



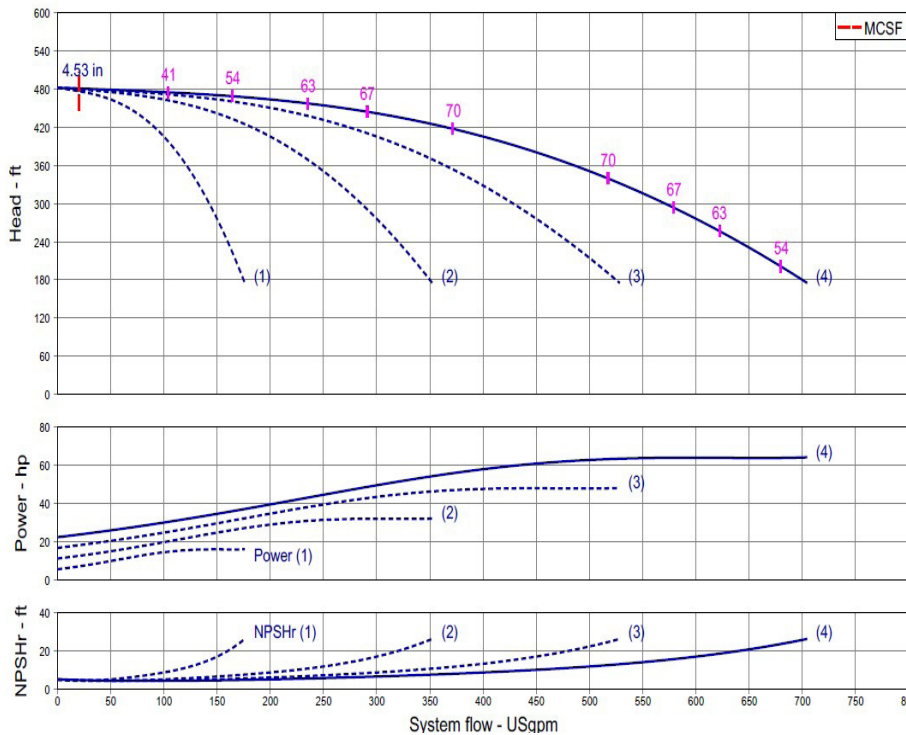
CO-4 HELIX V110-06/3-1/20/VCE



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
|-------|-------------------------------|------|-----------|----------------|---------|-------|---------|------|
| | CO-4 HELIX V110-06/3-1/20/VCE | | | | 20 | | | 3600 |

Article Number: 3324939 / 3323421



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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |

Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V~3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V~3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

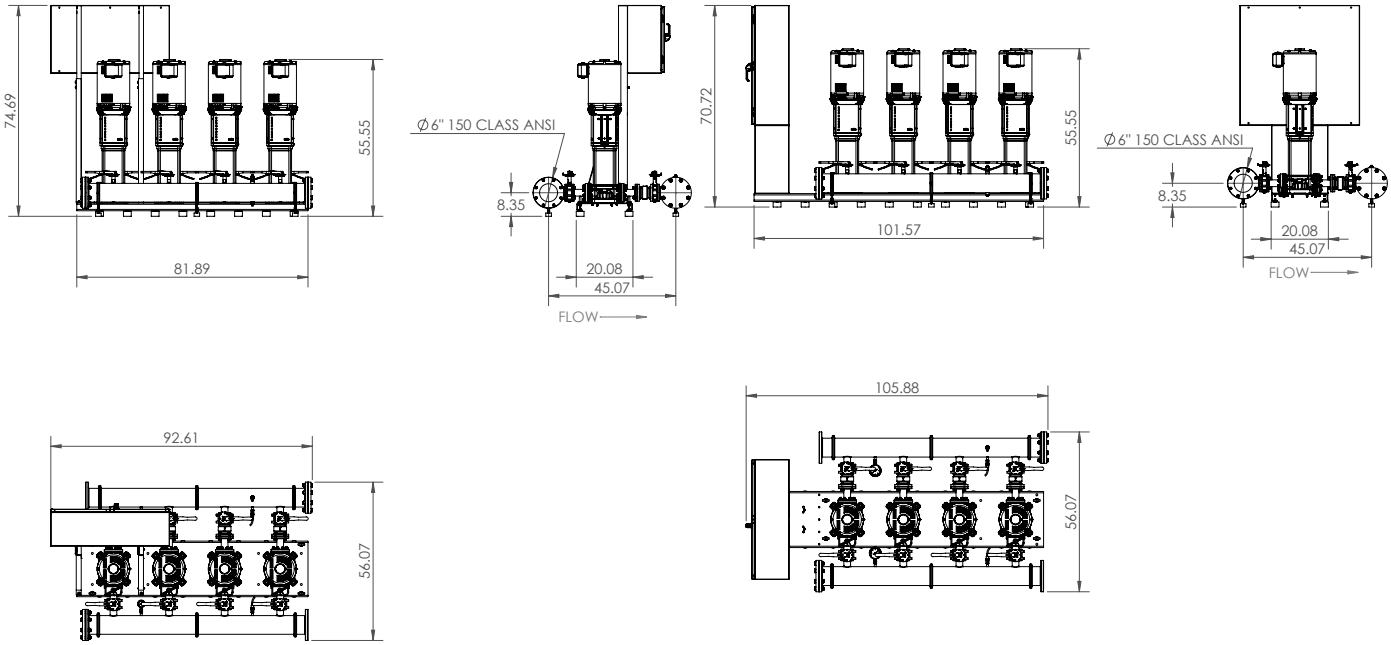
Wilo CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-06/3-1/20/VCE

460 V~3

575 V~3



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

Dimensions and Weights

| Model | Voltage (V) | Dimensions-inches | | | | | | | | Individual Pump Weight | Package Weight |
|-------------------------------|-------------|-------------------|---------|--------|--------------------|---|----------------|---------------------|---|------------------------|----------------|
| | | H (in) | W (in) | L (in) | System Header Size | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | Hydrunomatic Tank Valve on Manifold (Plugged) | | |
| CO-4 HELIX V110-06/3-1/20/VCE | 460 V | 74-3/4 | 92-2/3 | 56 | 6" 150 Class ANSI | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 375 | 2,576 |
| | 575 V | 70-3/4 | 105-7/8 | 56 | | | | | | | |

TEFC Motor Data

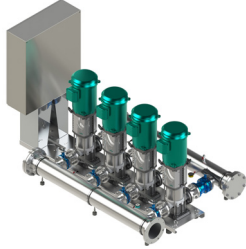
| Model | P2 (HP) | Phase (-) | Voltage (V) | FLA (per pump) (A) | System FLA | Pmax (PSI) |
|-------------------------------|---------|-----------|-------------|--------------------|------------|------------|
| CO-4 HELIX V110-06/3-1/20/VCE | 20 | 3 | 460/575 | 22.7/18.2 | 99.8/86.6 | 232 |

Submittal Data Sheet

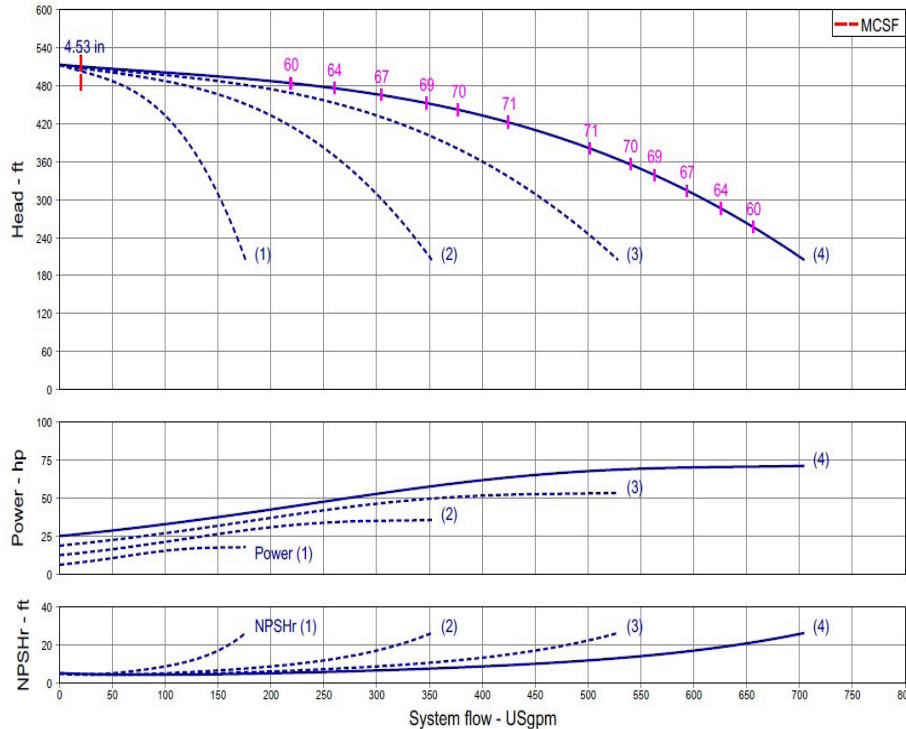
Wilco CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-06-1/20/VCE

|  | Project: | | | | | | | |
|---|-----------------------------|------|-----------|----------------|---------|-------|---------|------|
| | Engineer: | | | | | | | |
| | Contractor: | | | | | | | |
| | Submitted By: | | | | Date: | | | |
| | Approved By: | | | | Date: | | | |
| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
| | CO-4 HELIX V110-06-1/20/VCE | | | | 20 | | | 3600 |

Article Number: 3324940 / 3323422



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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 150 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |

Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| 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 to 5 HP for 208-230/460v-3 Danfoss FC-101: • 7.5 to 20HP 208-230V~3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V~3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

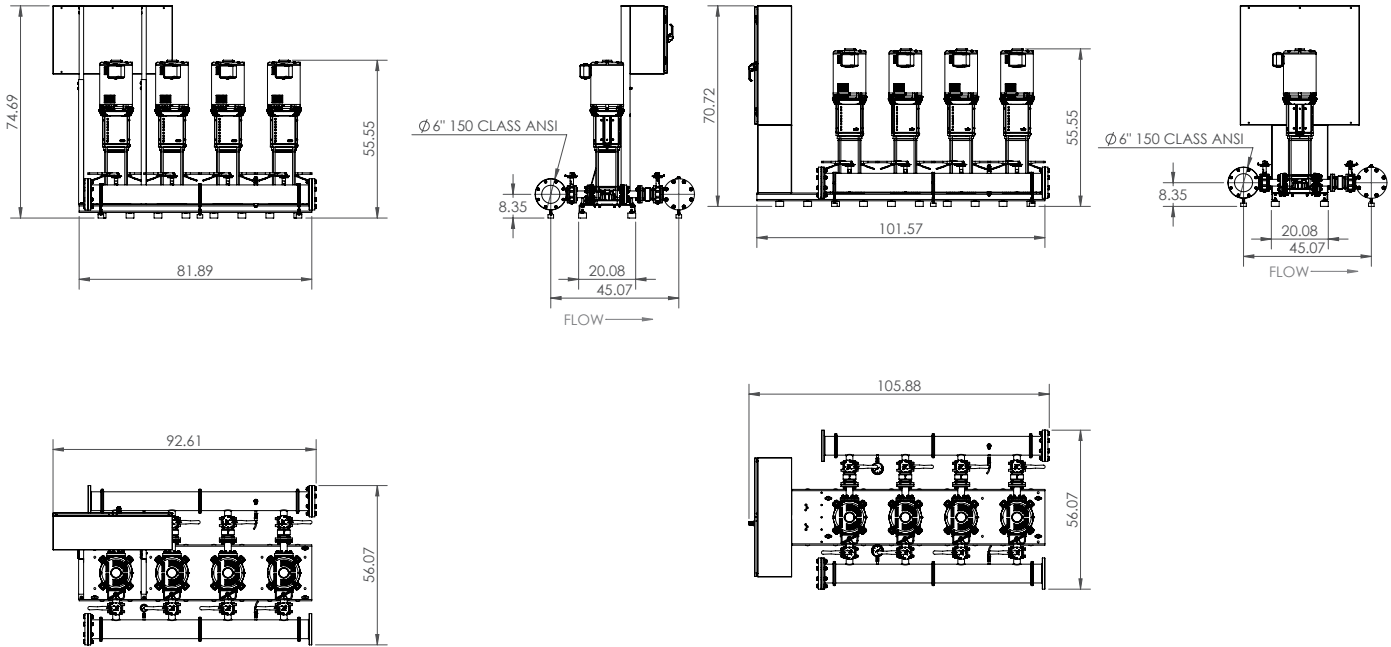
Wilo CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-06-1/20/VCE

460 V~3

575 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | Dimensions-inches | | | | | Individual Pump Weight (lbs) | Package Weight (lbs) |
|-----------------------------|-------------|--------|---------|--------|--------------------|---|----------------|---------------------|---|------------------------------|----------------------|
| | | | | | System Header Size | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | Hydrunumatic Tank Valve on Manifold (Plugged) | | |
| CO-4 HELIX V110-06-1/20/VCE | 460 V | 74-2/3 | 92-2/3 | 56 | 6" 150 Class ANSI | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 375 | 2,584 |
| | 575 V | 70-3/4 | 105-7/8 | 56 | 6" 150 Class ANSI | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | | |

TEFC Motor Data

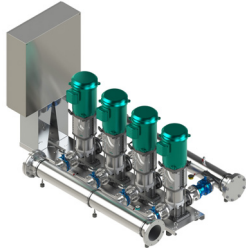
| Model | P2 (HP) | Phase (-) | Voltage (V) | FLA (per pump) (A) | System FLA | Pmax (PSI) |
|-----------------------------|---------|-----------|-------------|--------------------|------------|------------|
| CO-4 HELIX V110-06-1/20/VCE | 20 | 3 | 460/575 | 22.7/18.2 | 99.8/86.6 | 232 |

Submittal Data Sheet

Wilco CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-07/1-1/20/VCE



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
|-------|-------------------------------|------|-----------|----------------|---------|-------|---------|------|
| | CO-4 HELIX V110-07/1-1/20/VCE | | | | 20 | | | 3600 |

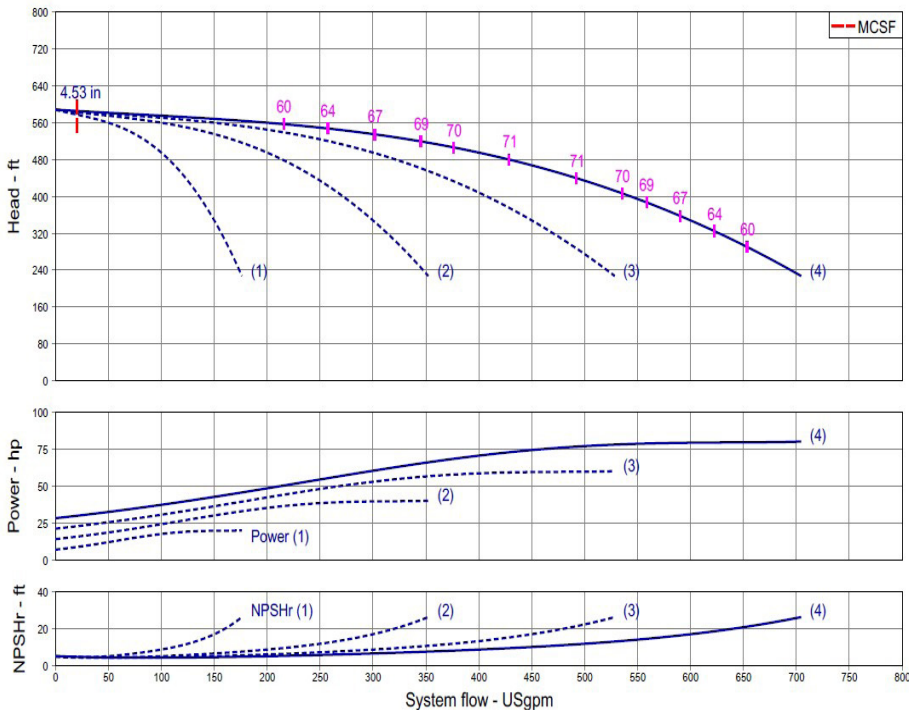
Article Number: 3324941 / 3323423

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 | Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components |
| Manifolds | 304 SS with 300 Class ANSI Flanges |
| Check Valves | Cast Iron Body with All Stainless Steel Wetted Components, Spring-loaded non-slam |
| Mechanical Seal | Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304 |
| Pressure Transducers | 316 Stainless Steel |
| Pressure Gauges | 304 Stainless Steel Housing with 316 Stainless Steel wetted parts |
| System Base | Steel (S235JR) |
| Vibration Isolators | Neoprene, Height Adjustable |



Technical Data - Operational Ranges

| | |
|---------------------|--|
| Liquid Temp Range | -4°F to +180°F (Min. 32 °F for Domestic Water) |
| Ambient Temp Range | +32°F to +104 °F |
| Max System Pressure | 363 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 to 5 HP for 208-230/460v~3 Danfoss FC-101: • 7.5 to 20HP 208-230V~3 • 1 to 10HP 208-230-1 IN / 208-230-3 OUT • 15 to 20HP 460V~3 • 1 to 20HP 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, 460, 575-3 |
| Motor Enclosure | Totally Enclosed Fan Cooled (TEFC) |
| Motor Efficiency | Nema Premium Efficiency - Meets NEMA 12-12 Rule |
| Enclosure Construction | Rolled Steel / Cast Iron |
| Motor Protection Index | IP54 |
| Insulation Class | F |

Approval Stamp

Submittal Data Sheet

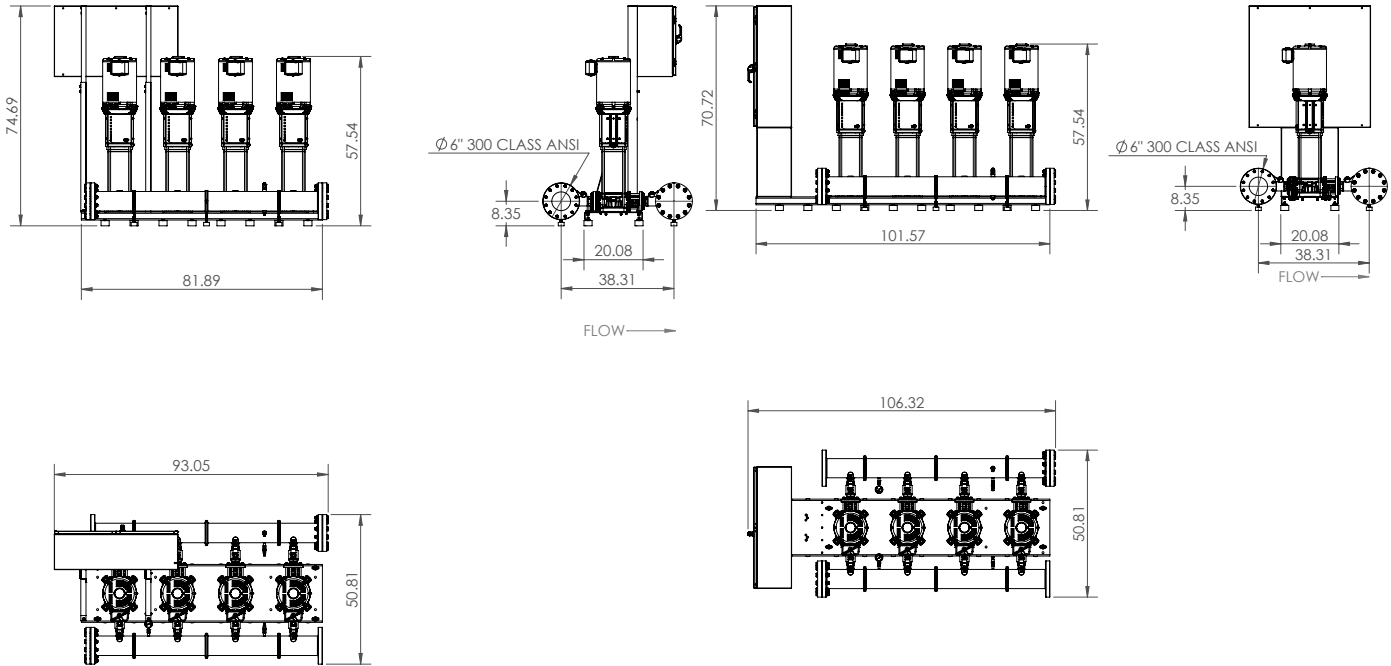
Wilo CO-Helix - NSF 61/372 Pressure Boosting System



CO-4 HELIX V110-07/1-1/20/VCE

460 V~3

575 V~3



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

Dimensions and Weights

| Model | Voltage (V) | H (in) | W (in) | L (in) | System Header Size | Dimensions-inches | | | | Individual Pump Weight | Package Weight |
|-------------------------------|-------------|--------|---------|--------|--------------------|---|----------------|---------------------|---|------------------------|----------------------|
| | | | | | | Suction / Discharge Pump Size (250# ANSI) | Gauge Tap Size | Transducer Tap Size | Hydrunumatic Tank Valve on Manifold (Plugged) | Pump Weight (lbs) | Package Weight (lbs) |
| CO-4 HELIX V110-07/1-1/20/VCE | 460 V | 74-3/4 | 93 | 50-4/5 | 6" 300 Class ANSI | 2" | 1/4" FNPT | 1/4" FNPT | 3/4" MNPT x 3/4" FNPT | 375 | 2,620 |
| | 575 V | 70-3/4 | 106-1/3 | 50-4/5 | | | | | | | |

TEFC Motor Data

| Model | P2 (HP) | Phase (-) | Voltage (V) | FLA (per pump) (A) | System FLA | Pmax (PSI) |
|-------------------------------|---------|-----------|-------------|--------------------|------------|------------|
| CO-4 HELIX V110-07/1-1/20/VCE | 20 | 3 | 460/575 | 22.7/18.2 | 99.8/86.6 | 363 |