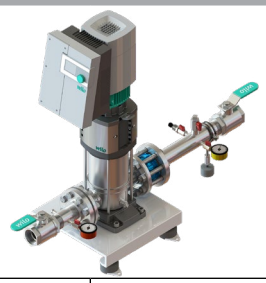
Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V10-08-1/1.5/460

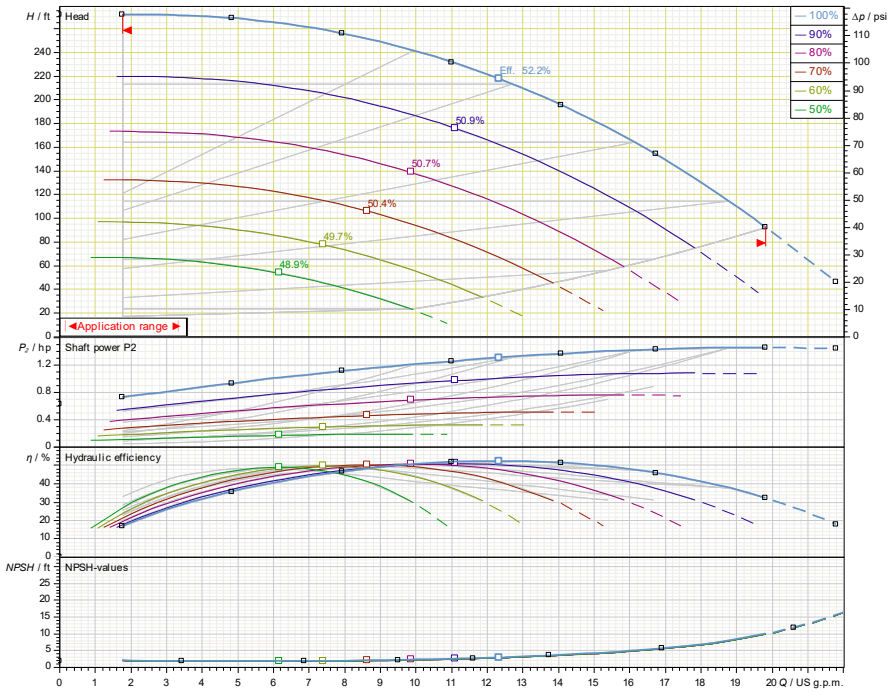


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V10-08-1/1.5/460				1.5			3600

Article Number: 2701078

Helix EXCEL Complete V10-08-1/1.5/460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

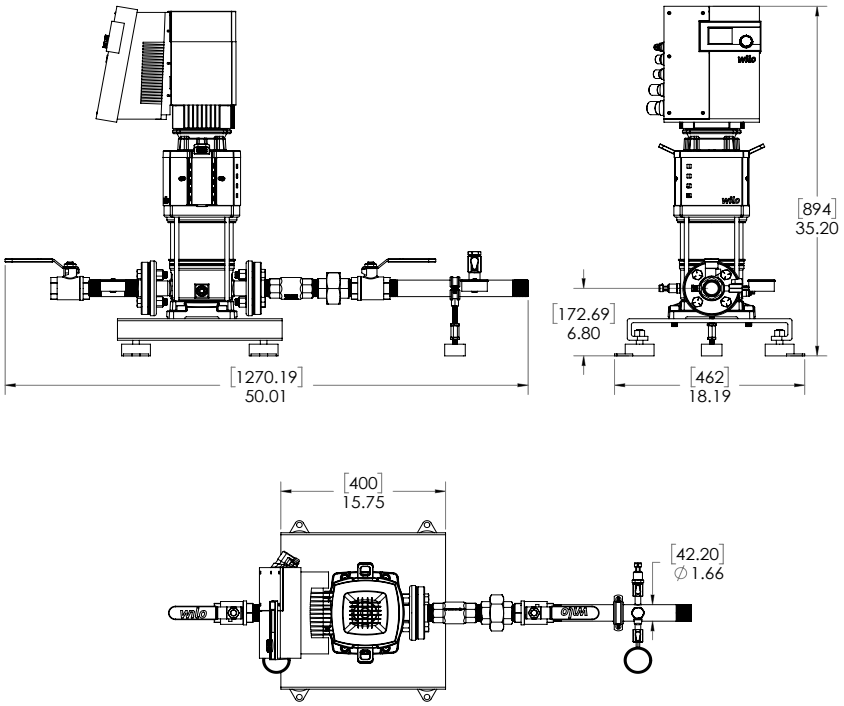
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V10-08-1/1.5/460

460 V~3



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V10-08-1/1.5/460	460 V	35-1/4	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	115	127

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V10-08-1/1.5/460	1.5	1.1	3	460 (±10%)	1.76	92	363

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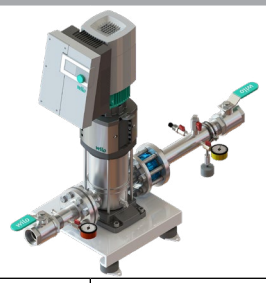
Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V10-16-1/3/460

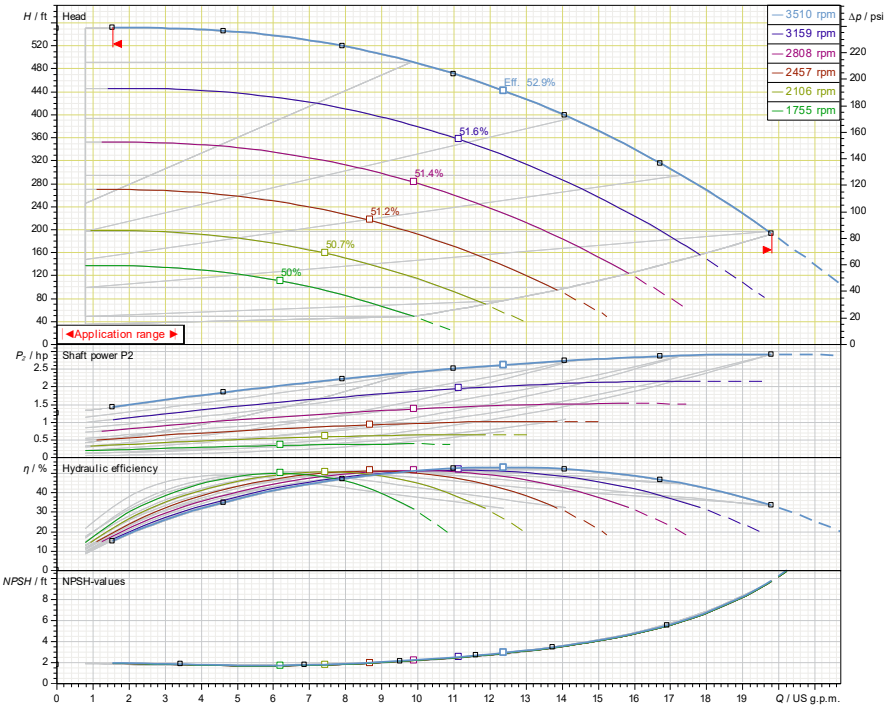


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V10-16-1/3/460				3			3600

Article Number: 2701079

Helix EXCEL Complete V10-16-1/3/460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

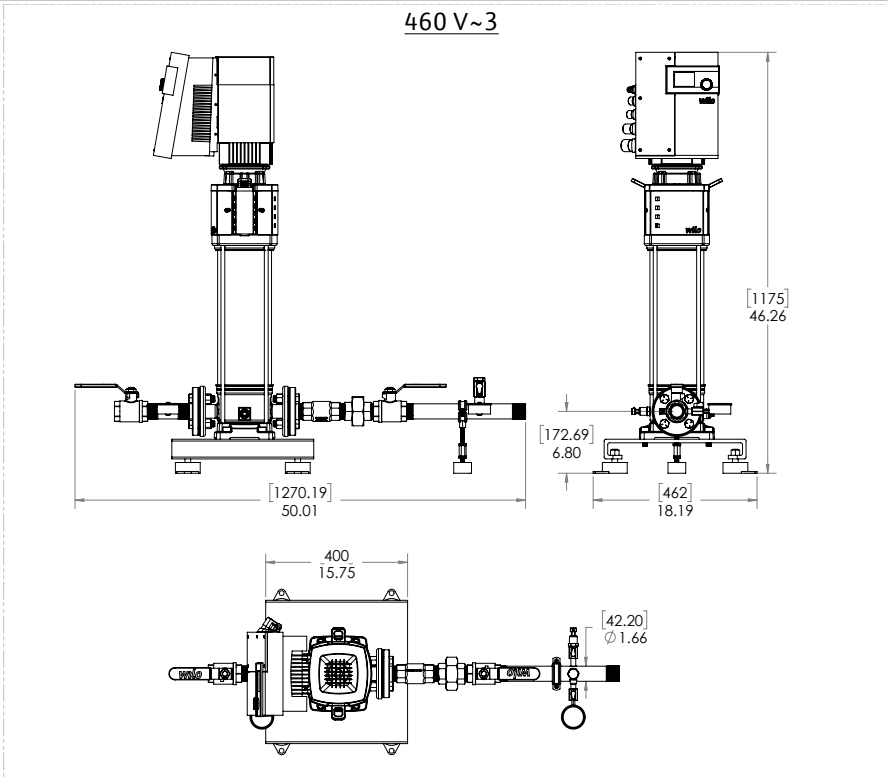
Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V10-16-1/3/460



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V10-16-1/3/460	460 V	46-1/4	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	130	142

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V10-16-1/3/460	3	2.2	3	460 (±10%)	4.4	93	363

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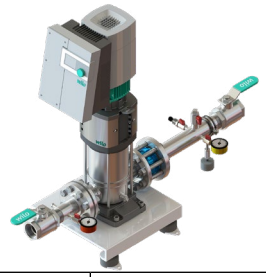
Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V10-22-1/4.3/460

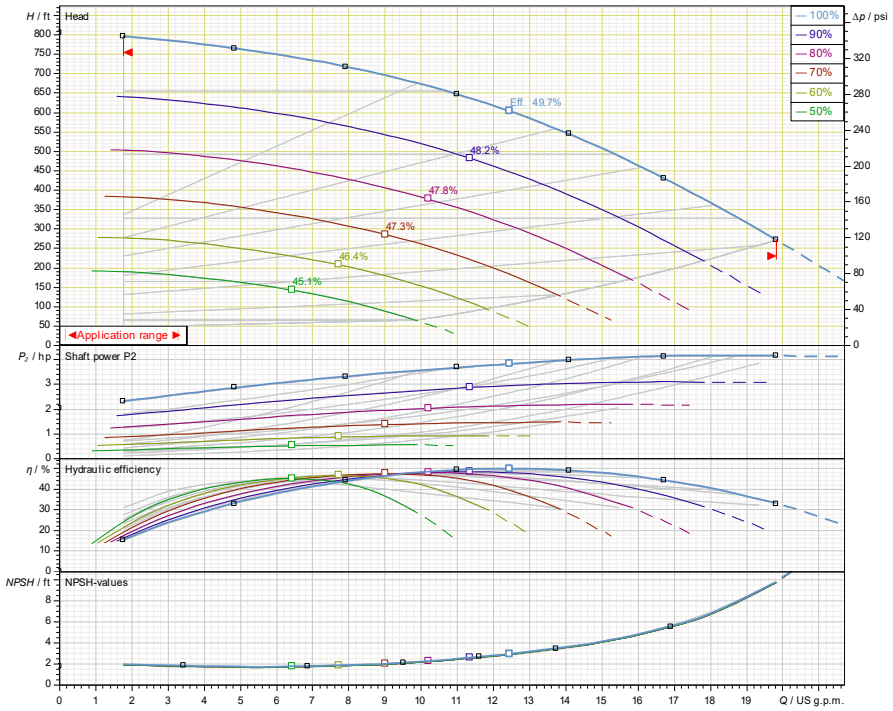


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V10-22-1/4.3/460				4.3			3600

Article Number: 2701080

Helix EXCEL Complete V10-22-1/4.3/460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

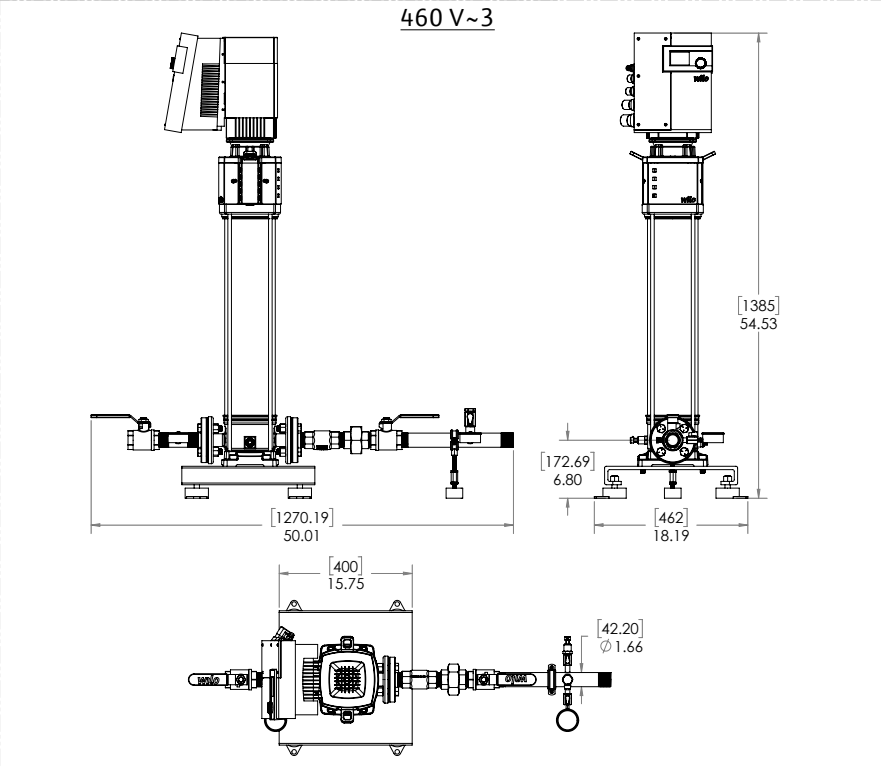
Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V10-22-1/4.3/460



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V10-22-1/4.3/460	460 V	54-1/2	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	135	149

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V10-22-1/4.3/460	4.3	3.2	3	460 (±10%)	6	93	363

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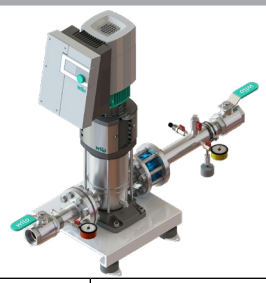
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V20-05-1/1.5/460

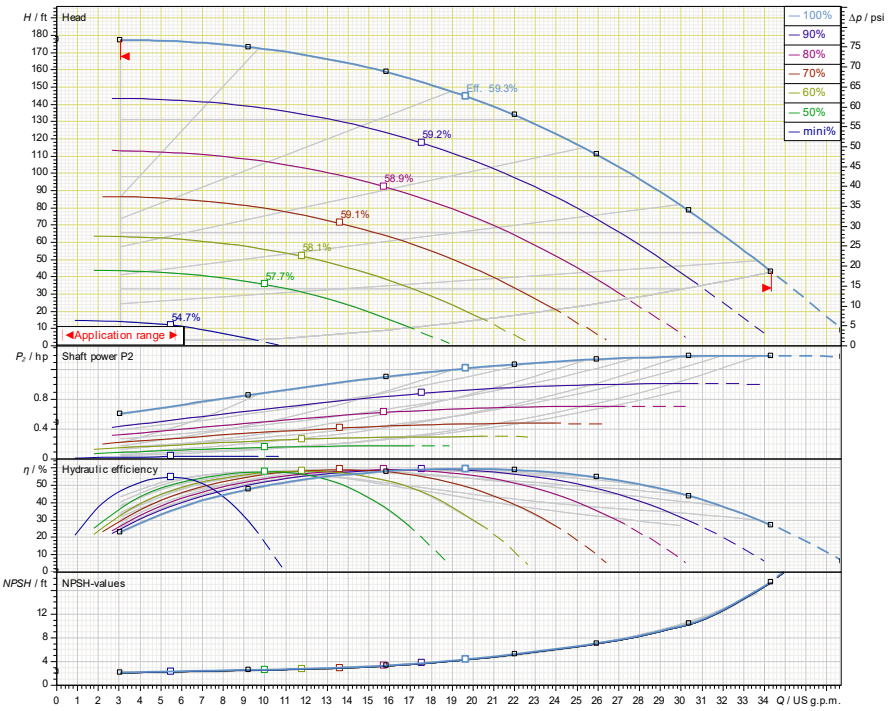


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V20-05-1/1.5/460				1.5			3600

Article Number: 2700930

Helix EXCEL Complete V20-05-1/1.5/460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

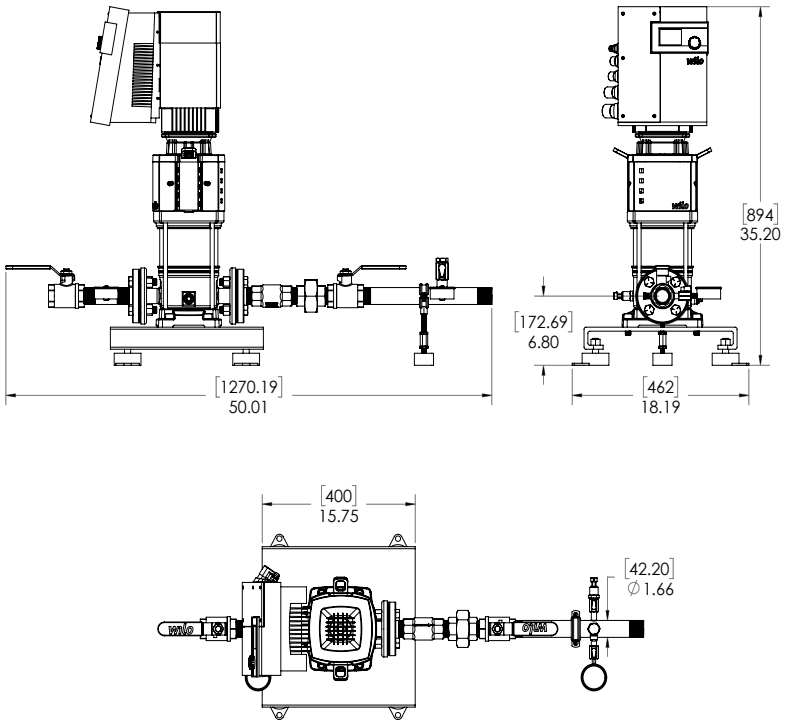
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V20-05-1/1.5/460

460 V~3



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V20-05-1/1.5/460	460 V	35-1/4	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	108	120

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V20-05-1/1.5/460	1.5	1.1	3	460 (±10%)	1.76	92	363

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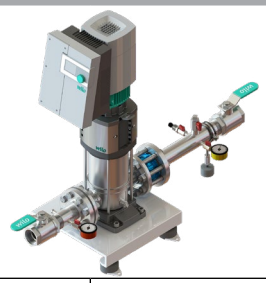
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V20-10-1/3/460

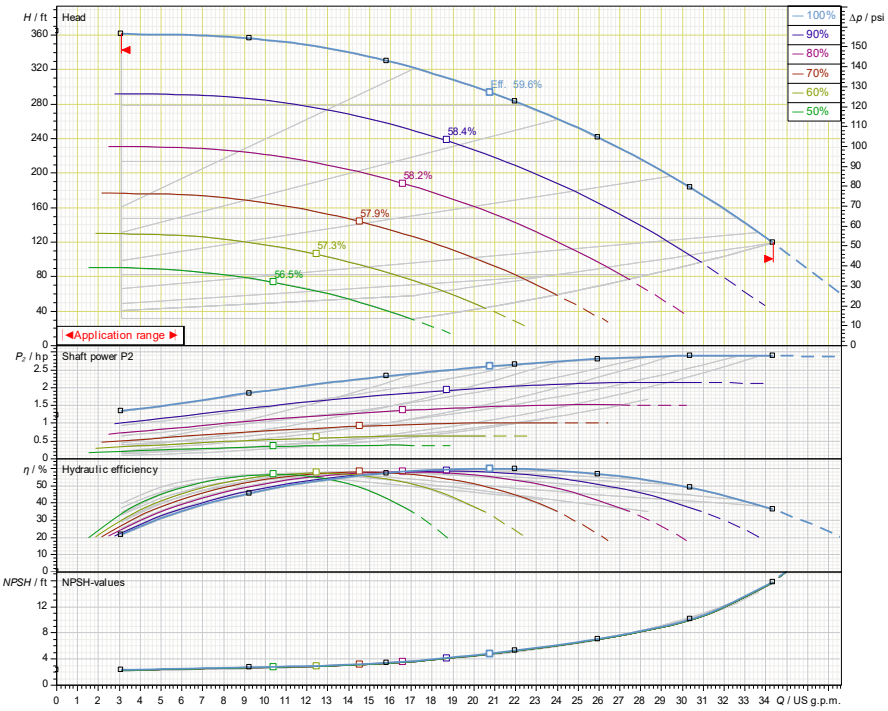


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V20-10-1/3/460				3			3600

Article Number: 2700931

Helix EXCEL Complete V20-10-1/3/460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

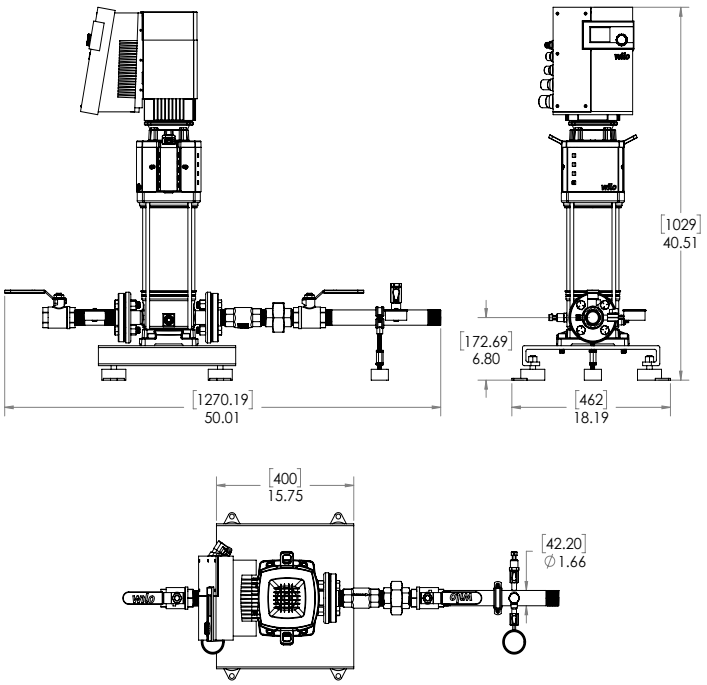
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V20-10-1/3/460

460 V~3



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V20-10-1/3/460	460 V	40-1/2	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	122	134

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V20-10-1/3/460	3	2.2	3	460 (±10%)	4.4	93	363

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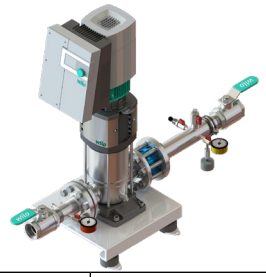
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V20-14-1/4.3/460

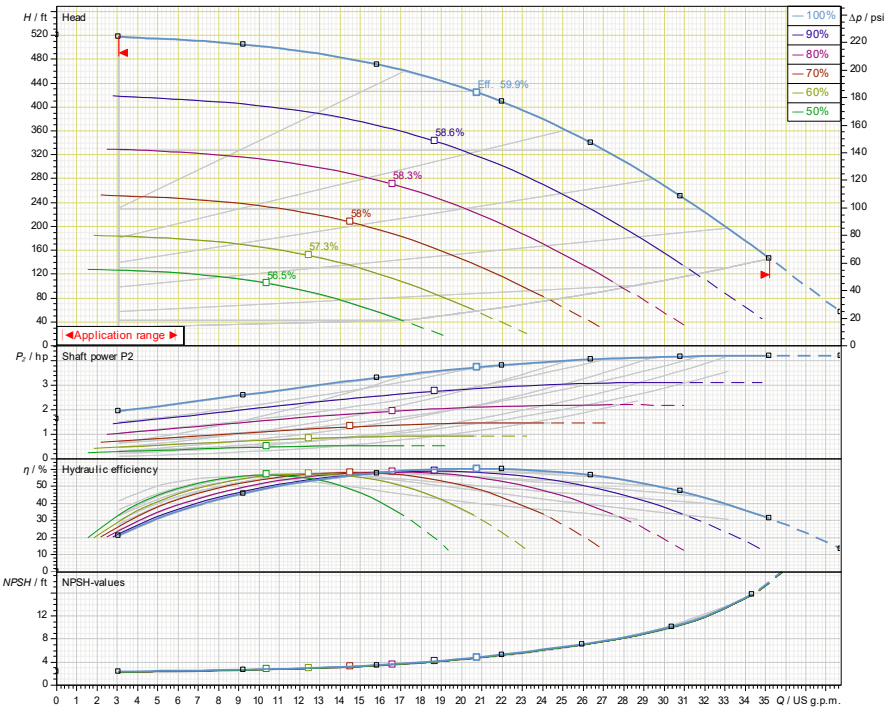


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V20-14-1/4.3/460				4.3			3600

Article Number: 2700932

Helix EXCEL Complete V20-14-1/4.3/460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

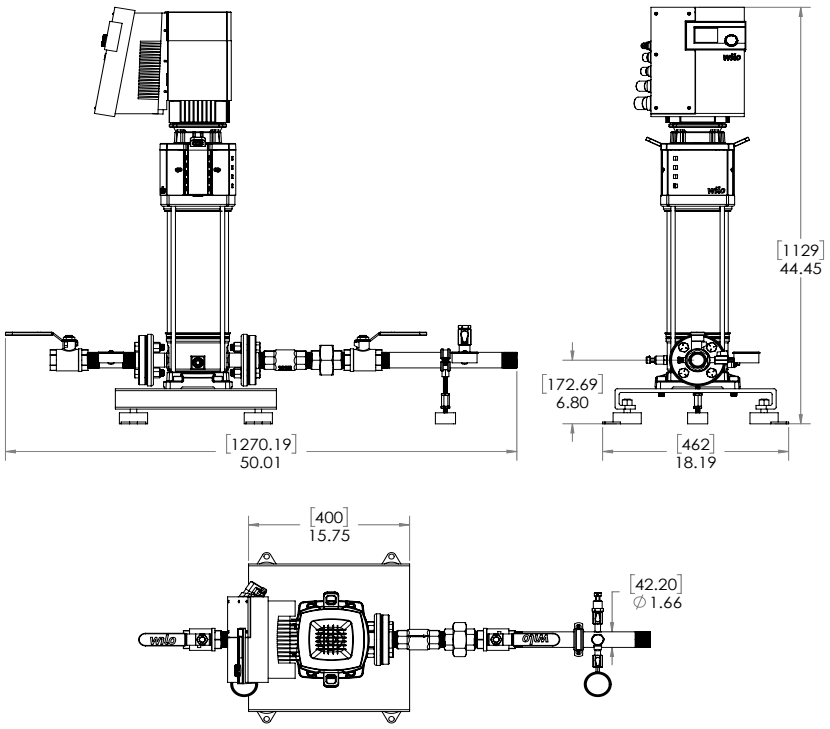
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V20-14-1/4.3/460

460 V~3



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V20-14-1/4.3/460	460 V	44-1/2	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	126	138

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V20-14-1/4.3/460	4.3	3.2	3	460 (±10%)	6	93	363

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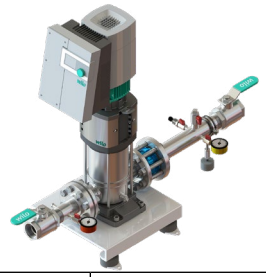
Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V20-18-1/5.6/460

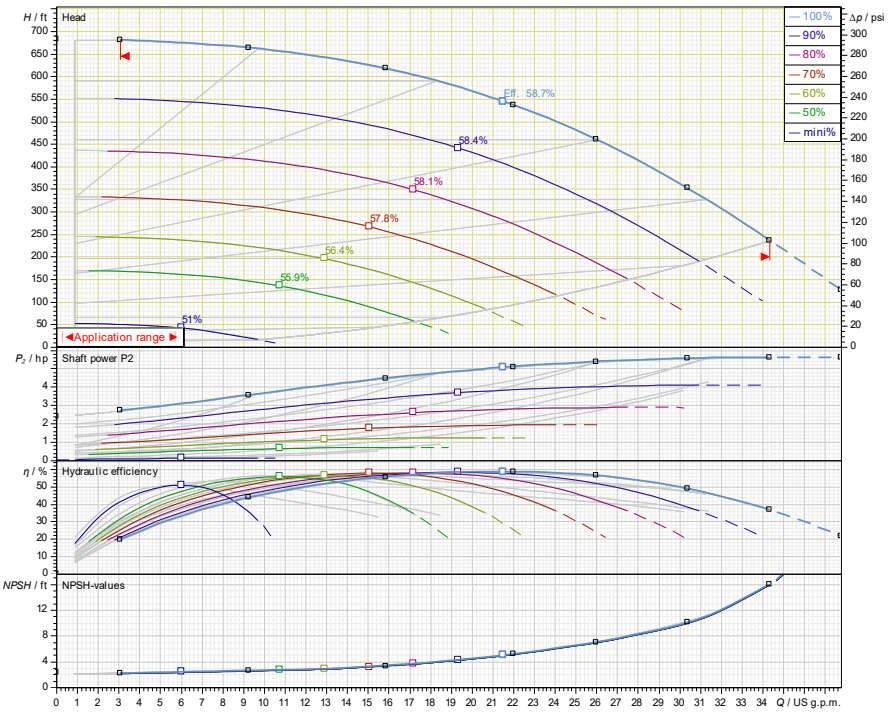


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V20-18-1/5.6/460				5.6			3600

Article Number: 2700933

Helix EXCEL Complete V20-18-1/5.6 /460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

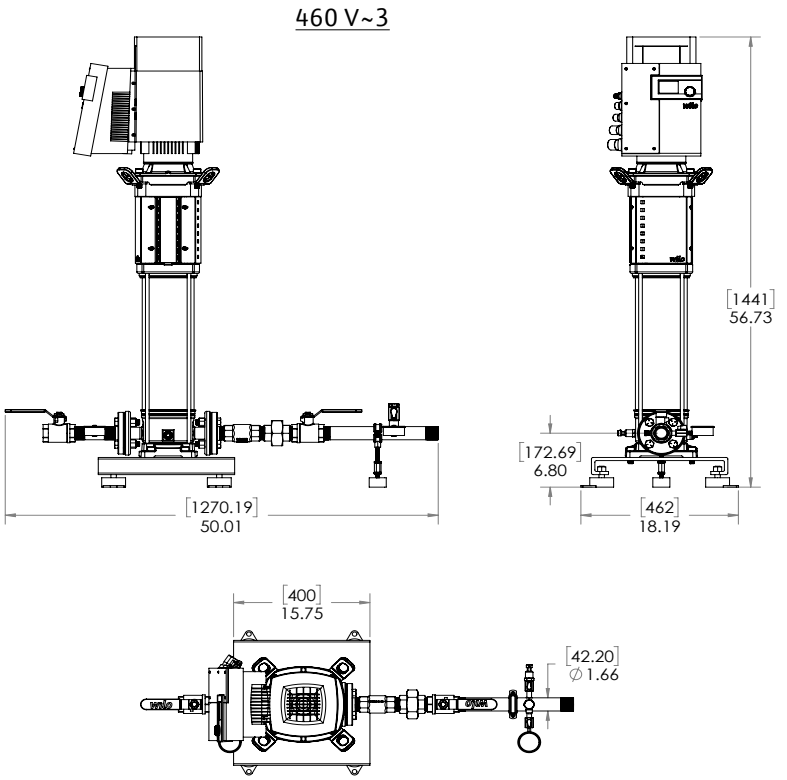
Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V20-18-1/5.6/460



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V20-18-1/5.6/460	460 V	56-3/4	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	158	171

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V20-18-1/5.6/460	5.6	4.2	3	460 (±10%)	6.5	95.8	363

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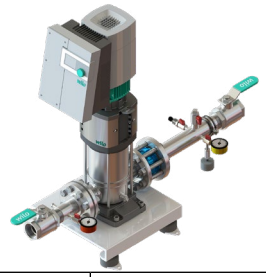
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-03-1/1.5/460

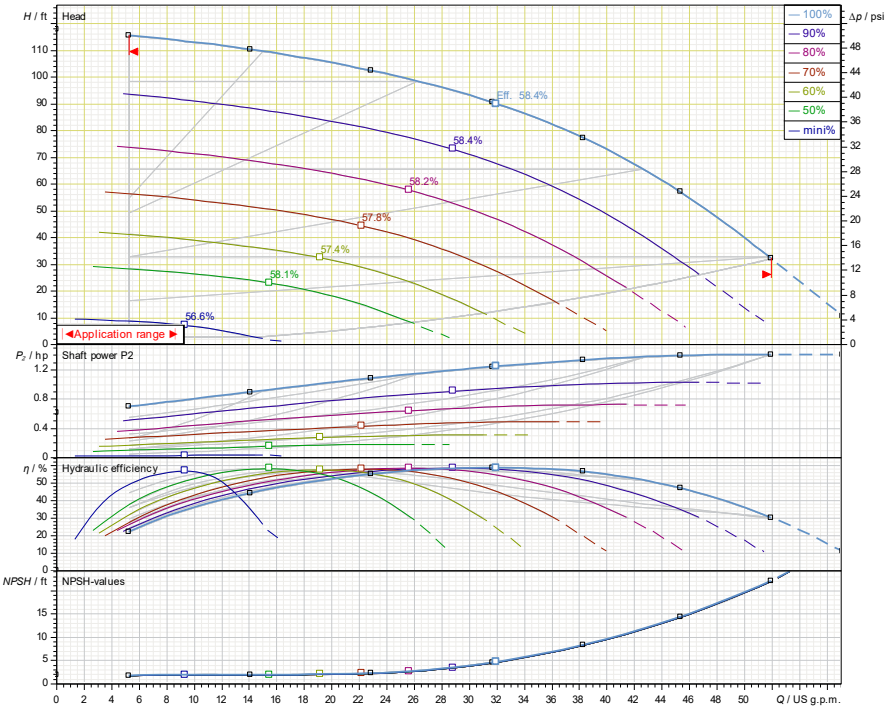


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V30-03-1/1.5/460				1.5			3600

Article Number: 2700934

Helix EXCEL Complete V30-03-1/1.5 /460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

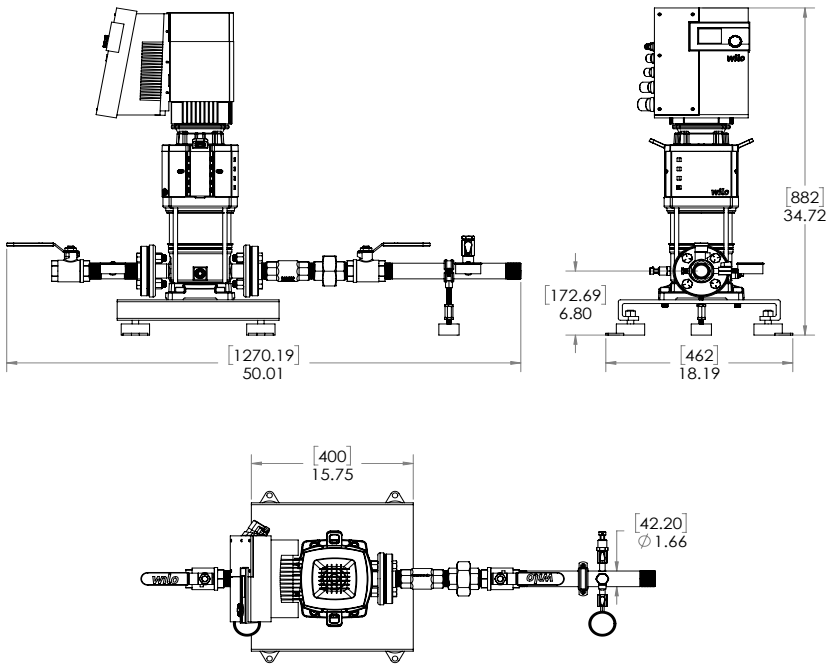
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-03-1/1.5/460

460 V~3



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V30-03-1/1.5/460	460 V	34-3/4	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	118	120

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V30-03-1/1.5/460	1.5	1.1	3	460 (±10%)	1.76	92	363

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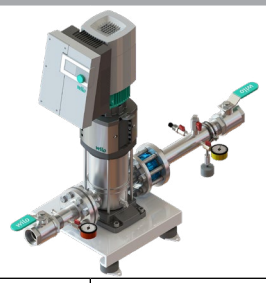
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-06-1/3/460

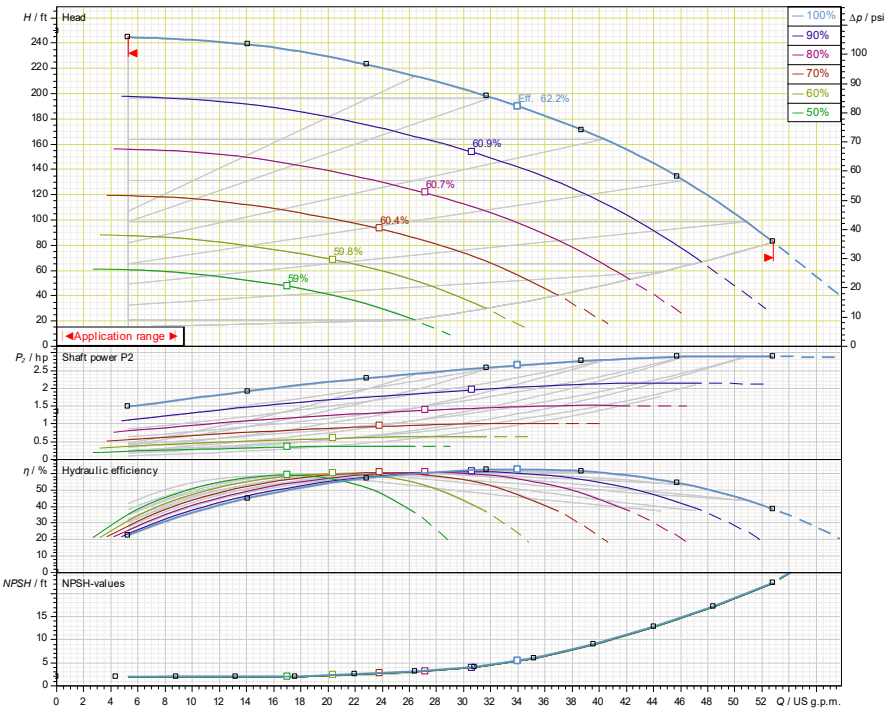


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V30-06-1/3/460				3			3600

Article Number: 2700935

Helix EXCEL Complete V30-06-1/3 /460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

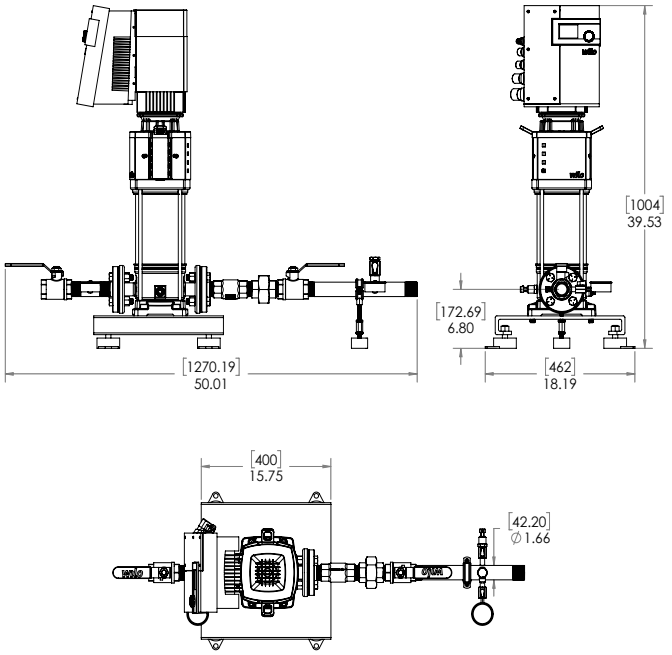
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-06-1/3/460

460 V~3



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V30-06-1/3/460	460 V	39-3/4	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	118	130

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V30-06-1/3/460	3	2.2	3	460 (±10%)	4.4	93	363

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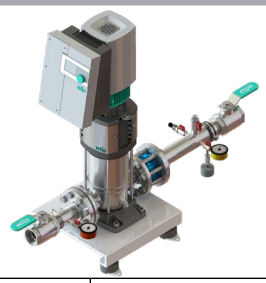
www.wilo-mexico.com
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-09-1/4.3/460

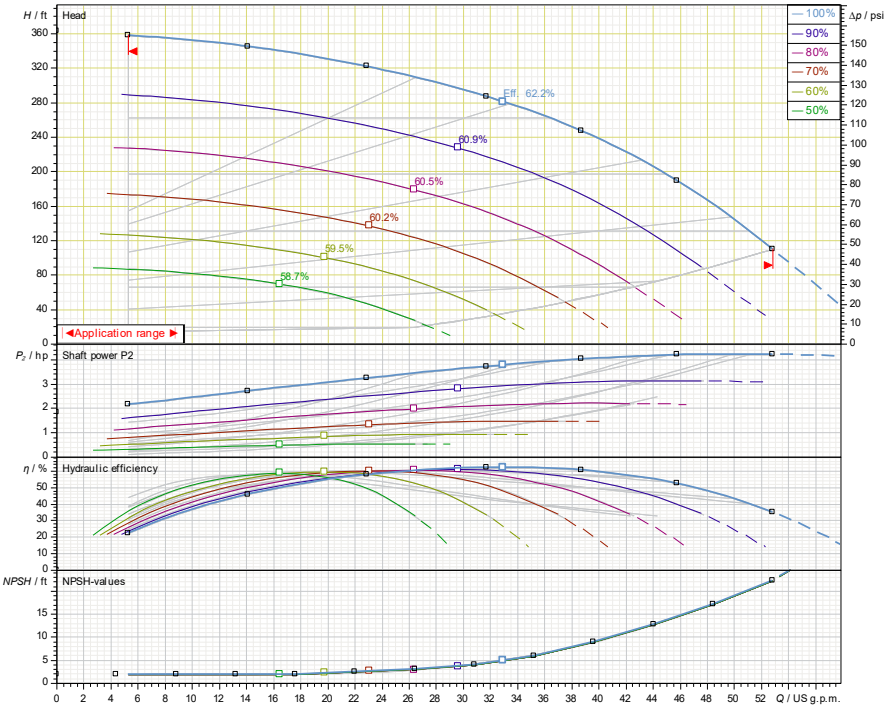


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V30-09-1/4.3/460				4.3			3600

Article Number: 2700936

Helix EXCEL Complete V30-09-1/4.3 /460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

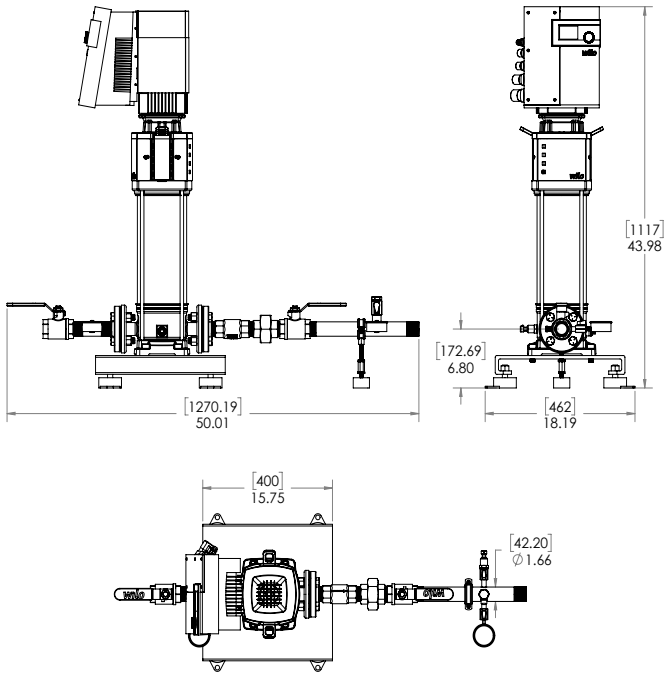
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-09-1/4.3/460

460 V~3



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V30-09-1/4.3/460	460 V	44	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	126	138

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V30-09-1/4.3/460	4.3	3.2	3	460 (±10%)	6	93	363

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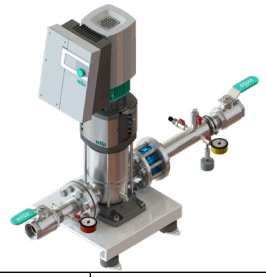
www.wilo-mexico.com
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-11-1/5.6/460

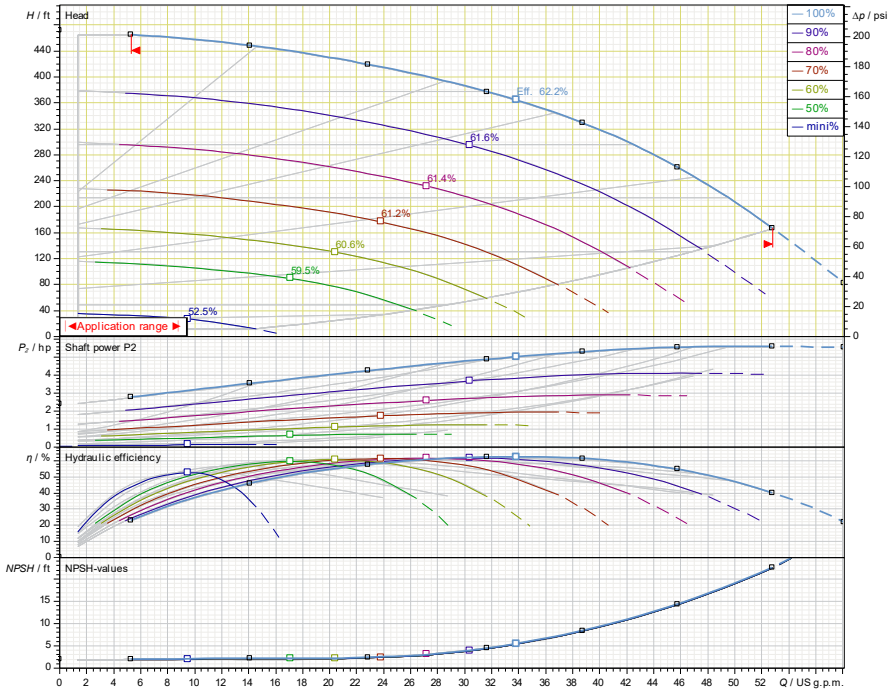


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V30-11-1/5.6/460				5.6			3600

Article Number: 2700937

Helix EXCEL Complete V30-11-1/5.6 /460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

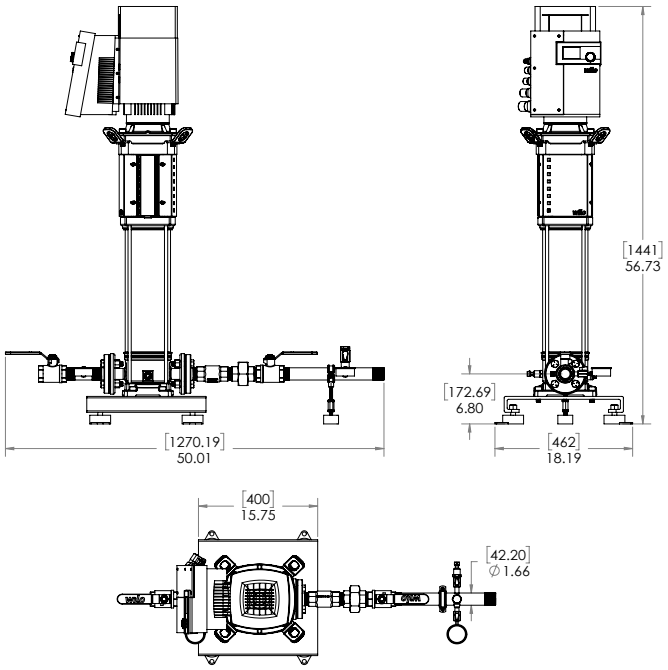
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-11-1/5.6/460

460 V~3



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V30-11-1/5.6/460	460 V	56-3/4	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	160	173

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V30-11-1/5.6/460	5.6	4.2	3	460 (±10%)	6.5	95.8	363

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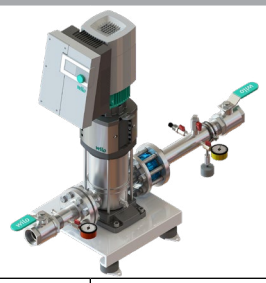
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-13-1/7.4/460

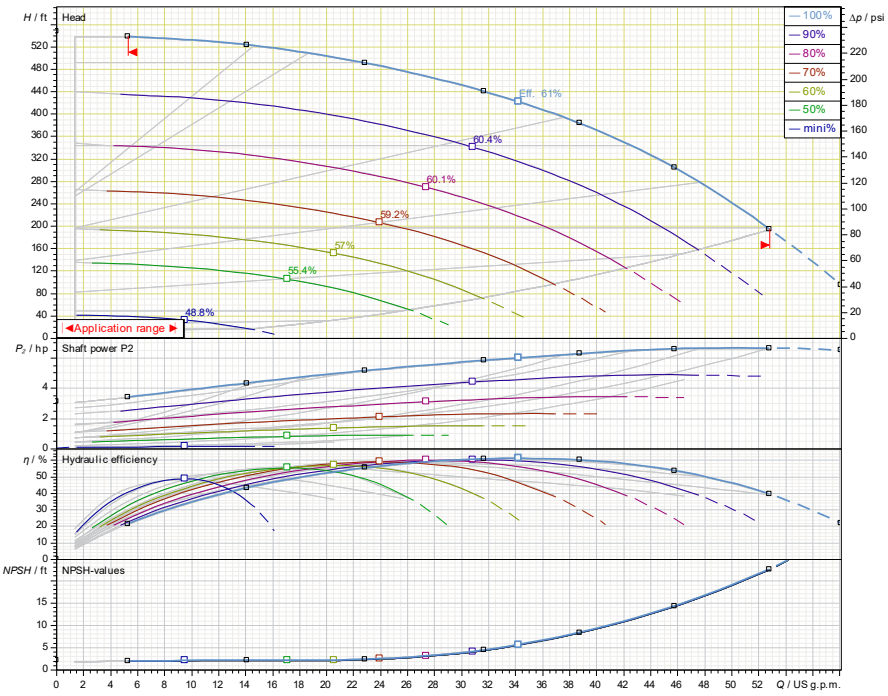


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V30-13-1/7.4/460				7.4			3600

Article Number: 2700938

Helix EXCEL Complete V30-13-1/7.4 /460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

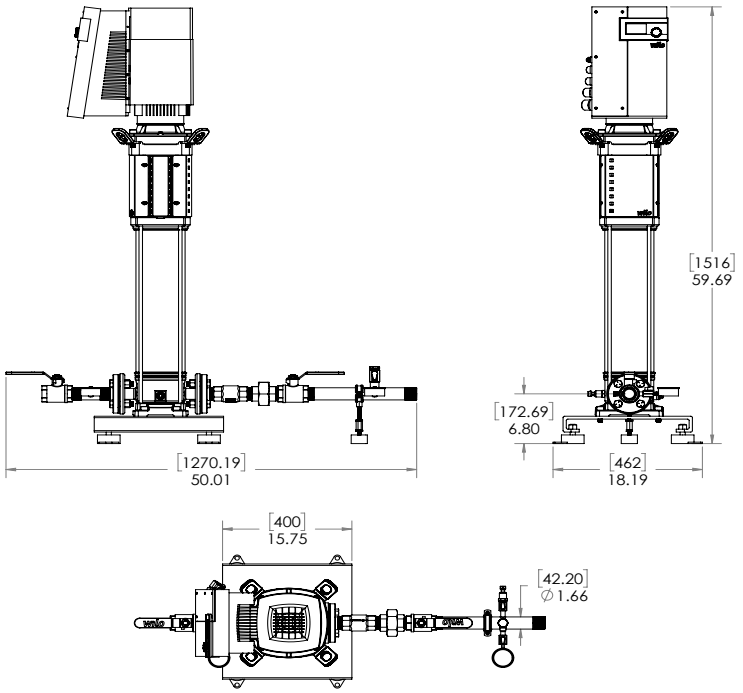
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-13-1/7.4/460

460 V~3



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V30-13-1/7.4/460	460 V	59-5/8	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	160	188

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V30-13-1/7.4/460	7.4	5.5	3	460 (±10%)	8.2	95.8	363

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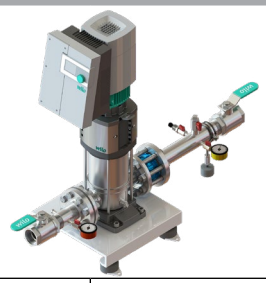
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-16-1/8.7/460



Project:

Engineer:

Contractor:

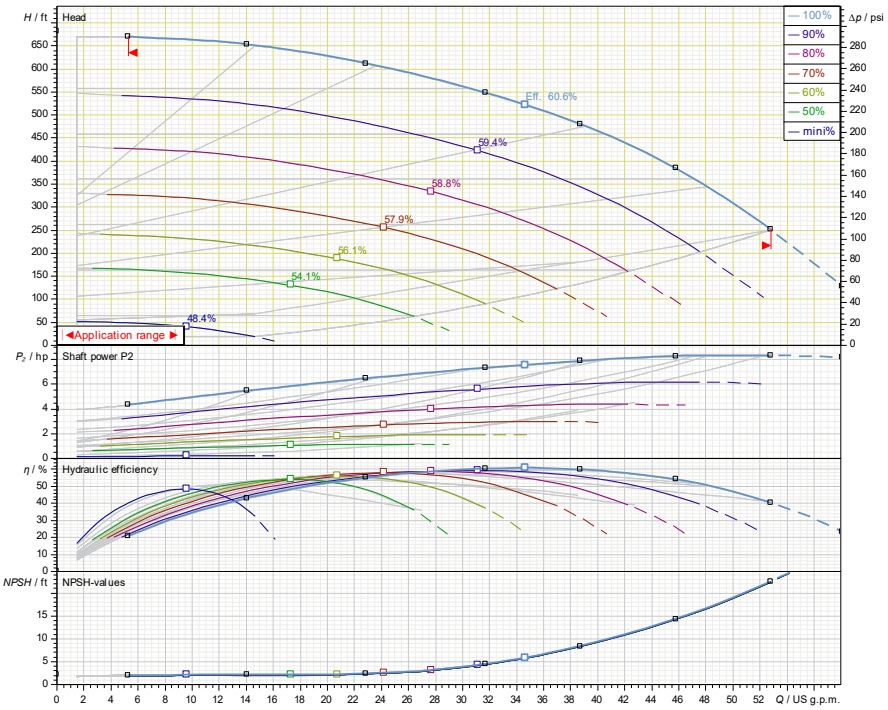
Submitted By: Date:

Approved By: Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V30-16-1/8.7/460				8.7			3600

Article Number: 2700939

Helix EXCEL Complete V30-16-1/8.7 /460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

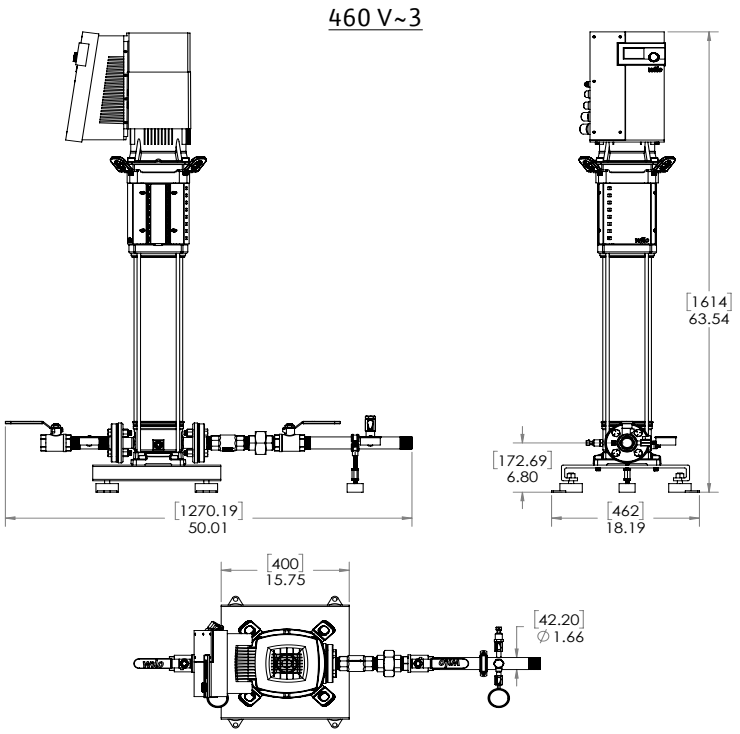
Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-16-1/8.7/460



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V30-16-1/8.7/460	460 V	63-1/2	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	209	221

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V30-16-1/8.7/460	8.7	6.5	3	460 (±10%)	9.7	96.5	363

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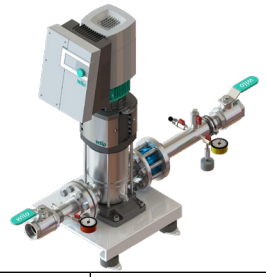
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-19-1/10.1/460

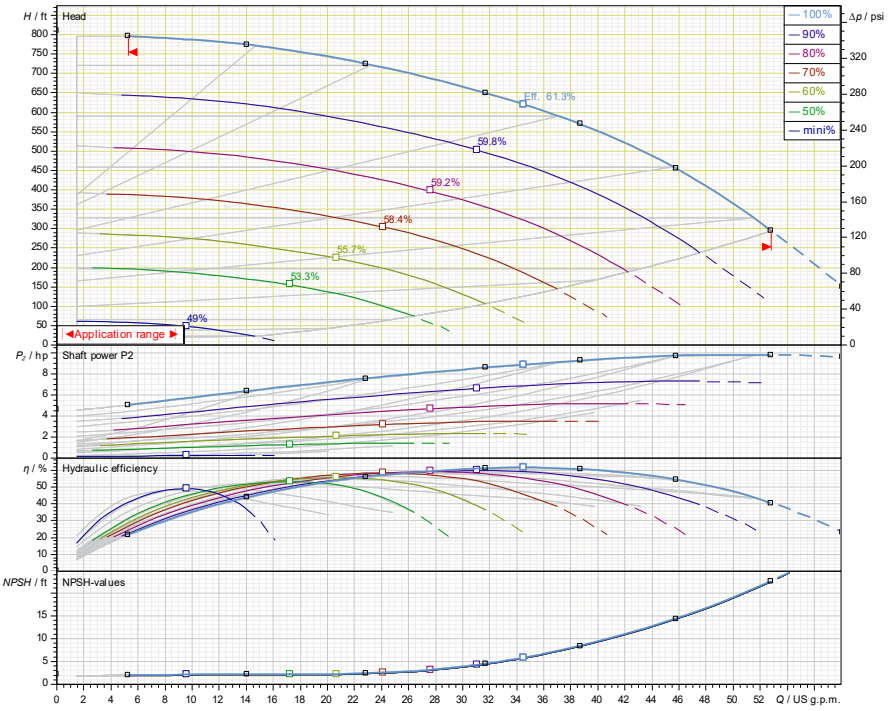


Project:	
Engineer:	
Contractor:	
Submitted By:	Date:
Approved By:	Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V30-19-1/10.1/460				10.1			3600

Article Number: 2700940

Helix EXCEL Complete V30-19-1/10.1 /460



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 Piping	AISI304 Stainless Steel with Male Threaded System Connections
Check Valves	316 Stainless Steel, Non-slam, Plunger-type with EPDM seal
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 (Depending on number of stages)

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

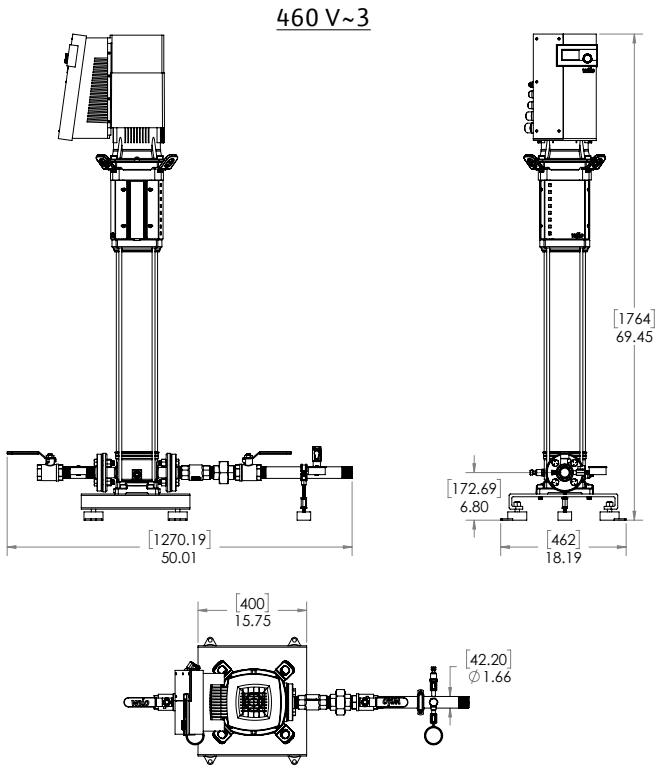
Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V30-19-1/10.1/460



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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V30-19-1/10.1/460	460 V	69-1/2	18-1/4	50	1-1/4" MNPT	1-1/4"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	216	228

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V30-19-1/10.1/460	10.1	7.5	3	460 (±10%)	10.9	96.4	363

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info@wilo-canada.com

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info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

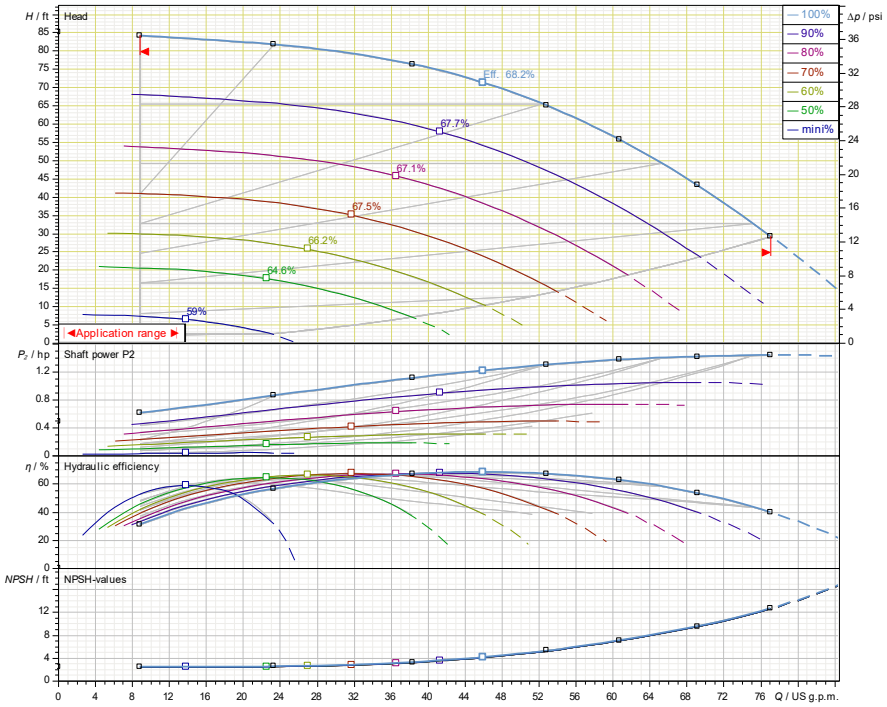
Helix EXCEL Complete V50-02-1/1.5/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V50-02-1/1.5/460				1.5			3600

Article Number: 3313899

Helix EXCEL Complete V50-02-1/1.5/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

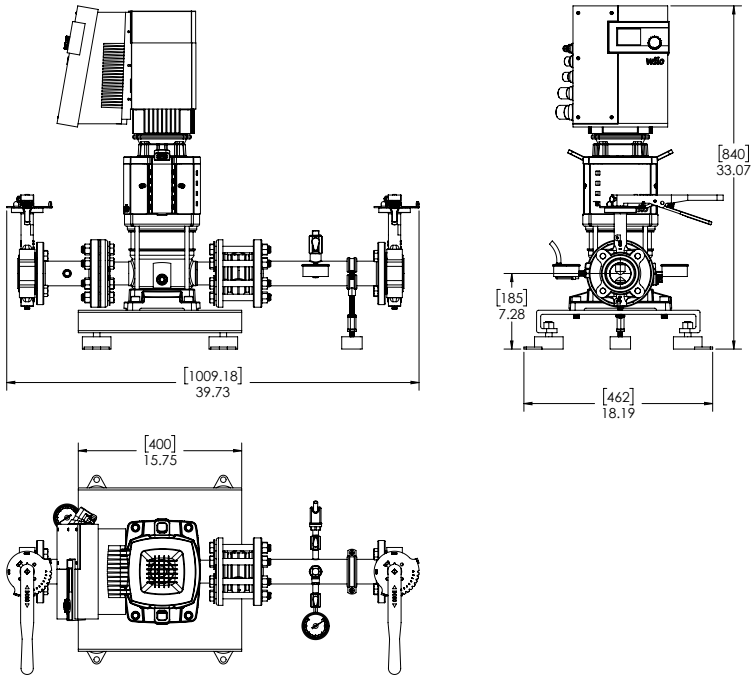
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V50-02-1/1.5/VCE

460 V~3



3313899

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V50-02-1/1.5/460	460 V	33	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	110	170

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V50-02-1/1.5/460	1.5	1.5	3	460 (±10%)	1.76	92	232

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www.wilo-mexico.com
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

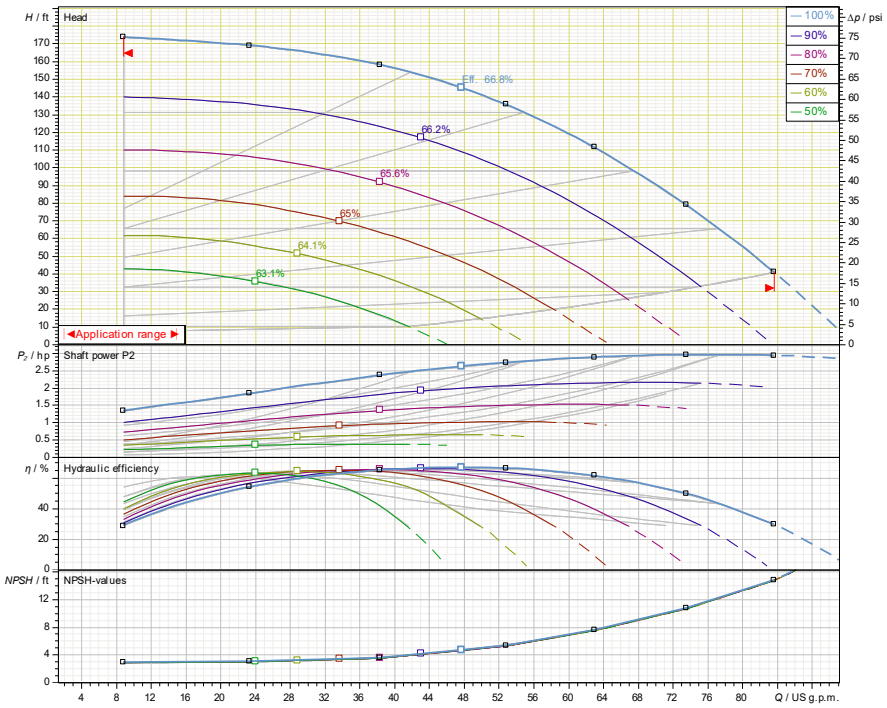
Helix EXCEL Complete V50-04-1/3/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V50-04-1/3/460				3			3600

Article Number: 3313900

Helix EXCEL Complete V50-04-1/3/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

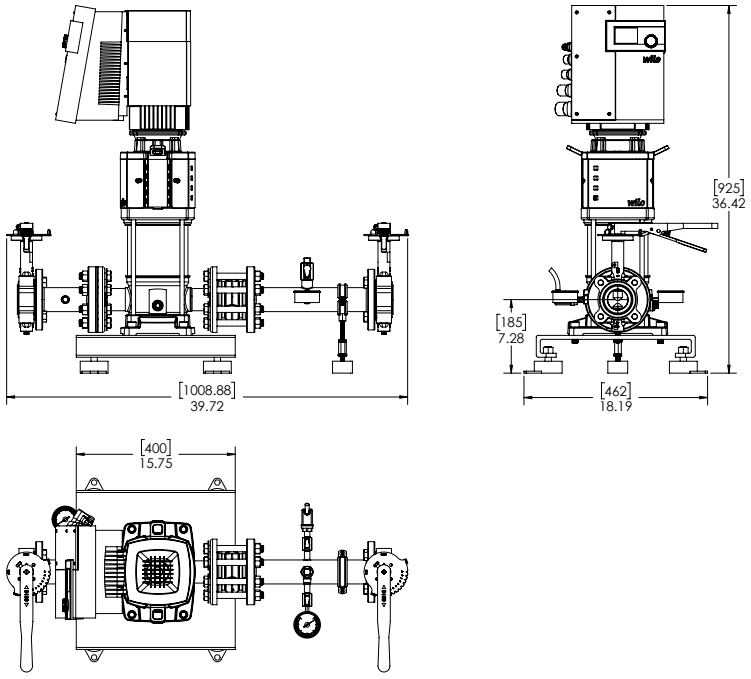
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V50-04-1/3/VCE

460 V~3



3313900

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V50-04-1/3/460	460 V	36-1/2	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	119	180

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V50-04-1/3/460	3	2.2	3	460 (±10%)	4.4	93	232

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

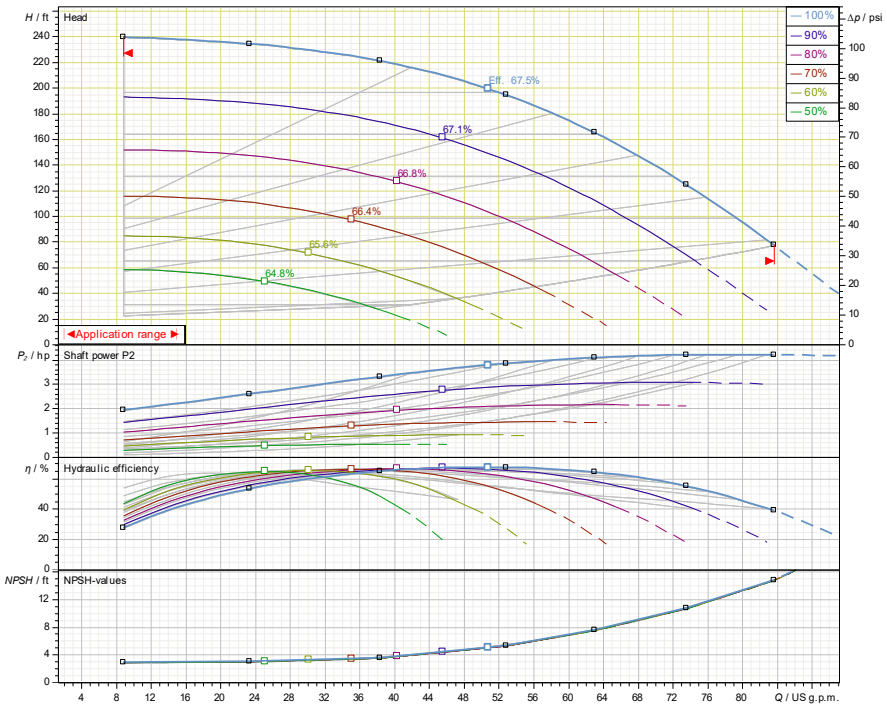
Helix EXCEL Complete V50-05-1/4.3/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V50-05-1/4.3/460				4.3			3600

Article Number: 3313901

Helix EXCEL Complete V50-05-1/4.3/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

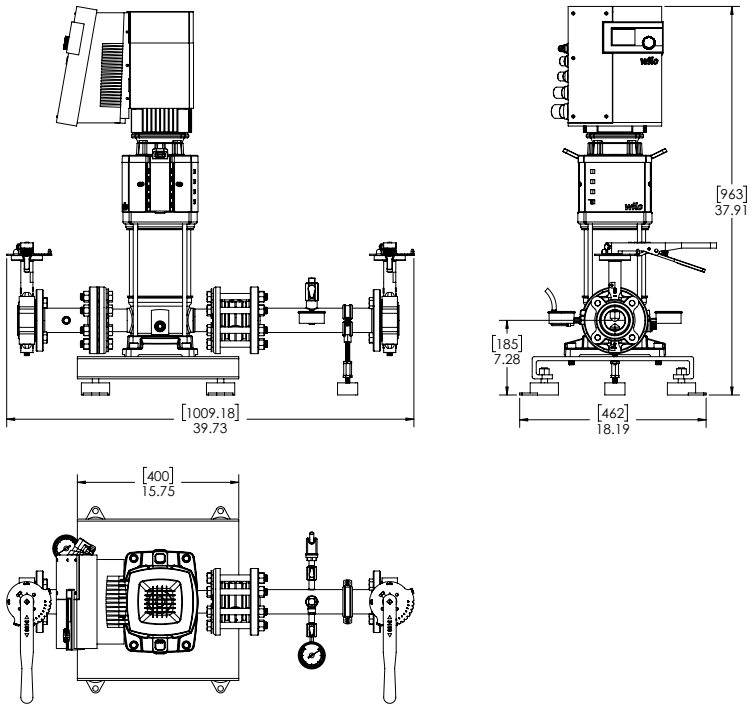
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V50-05-1/4.3/VCE

460 V~3



3313901

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V50-05-1/4.3/460	460 V	37-7/8	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	121	181

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V50-05-1/4.3/460	4.3	3.2	3	460 (±10%)	6	93	232

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

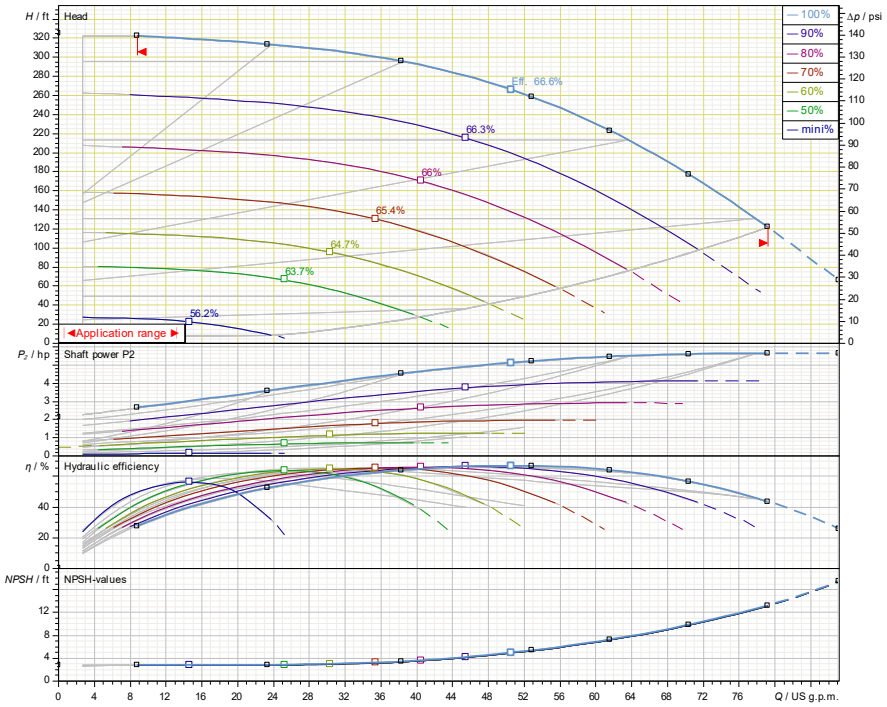
Helix EXCEL Complete V50-07-1/5.6/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V50-07-1/5.6/460				5.6			3600

Article Number: 3313902

Helix EXCEL Complete V50-07-1/5.6/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

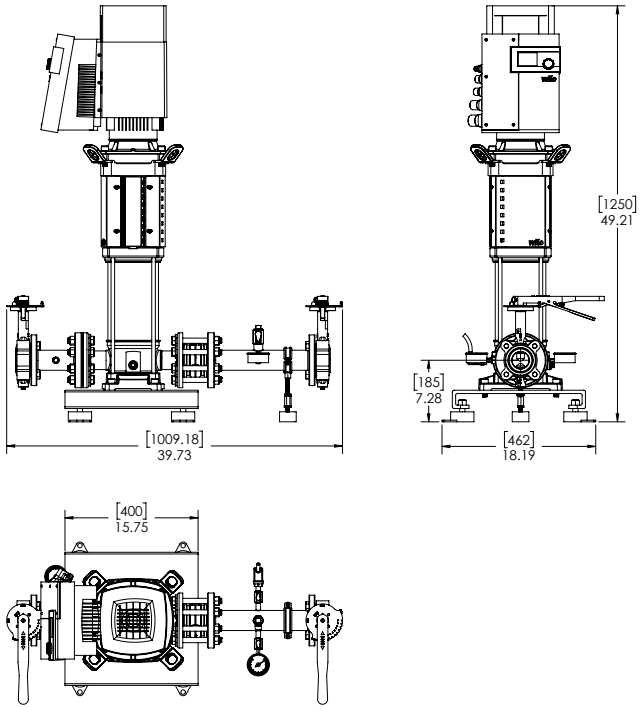
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V50-07-1/5.6/VCE

460 V~3



3313902

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V50-07-1/5.6/460	460 V	49-1/4	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	154	214

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V50-07-1/5.6/460	5.6	4.2	3	460 (±10%)	6.5	95.8	232

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

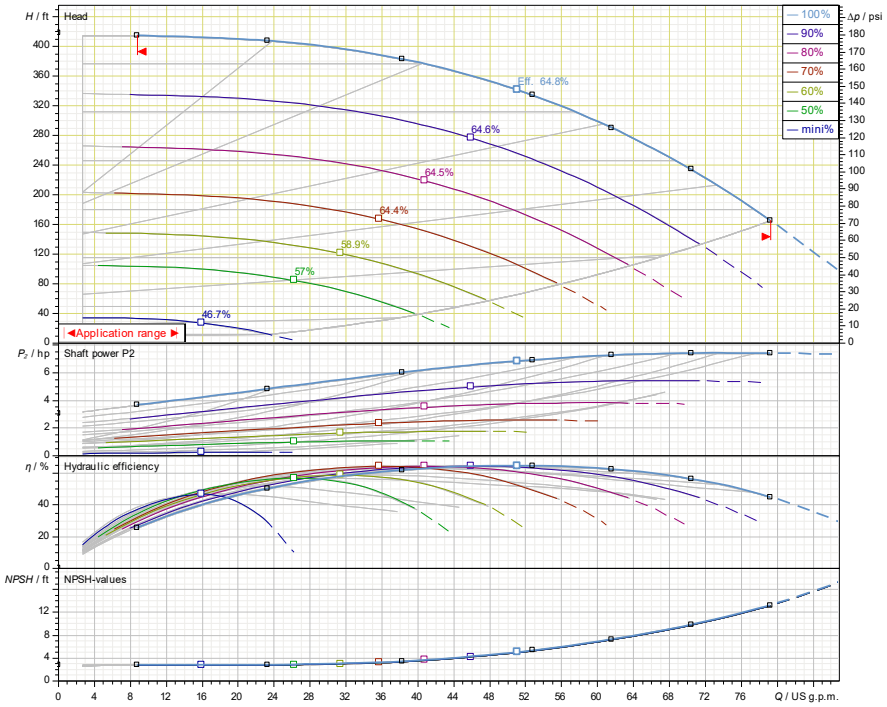
Helix EXCEL Complete V50-09-1/7.4/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V50-09-1/7.4/460				7.4			3600

Article Number: 3313903

Helix EXCEL Complete V50-09-1/7.4/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

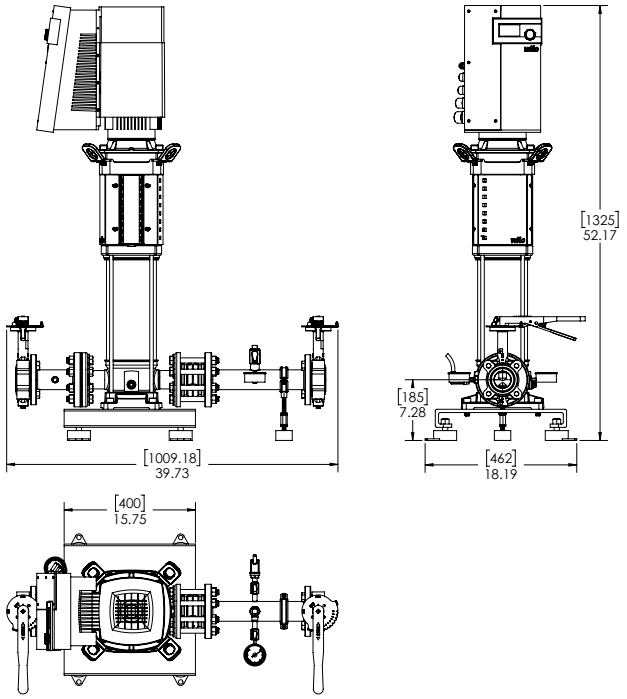
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V50-09-1/7.4/VCE

460 V~3



3313903

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V50-09-1/7.4/460	460 V	52-1/4	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	190	250

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V50-09-1/7.4/460	7.4	5.5	3	460 (±10%)	8.2	95.8	232

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info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

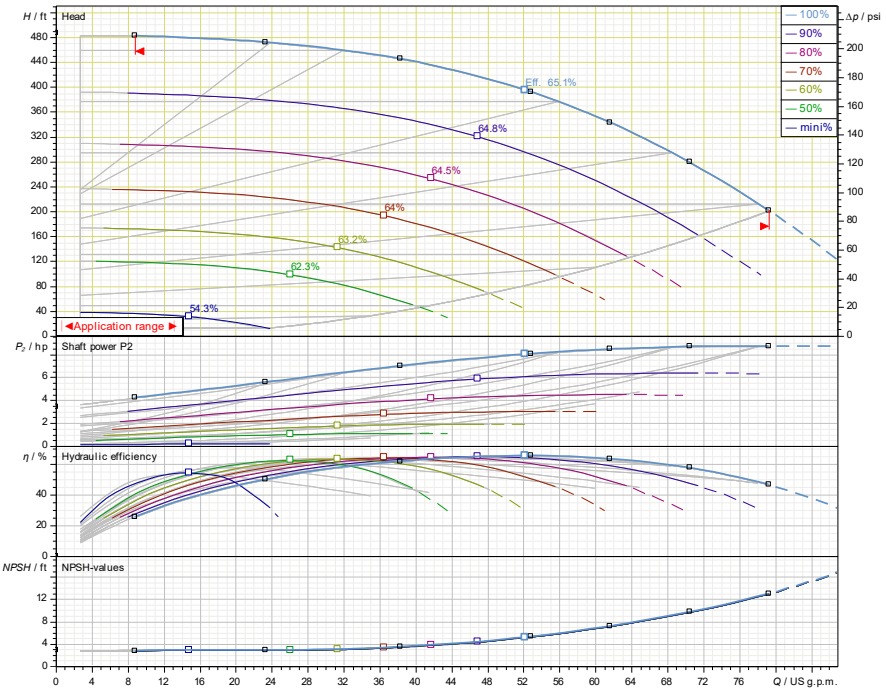
Helix EXCEL Complete V50-10-1/8.7/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V50-10-1/8.7/460				8.7			3600

Article Number: 3313904

Helix EXCEL Complete V50-10-1/8.7/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

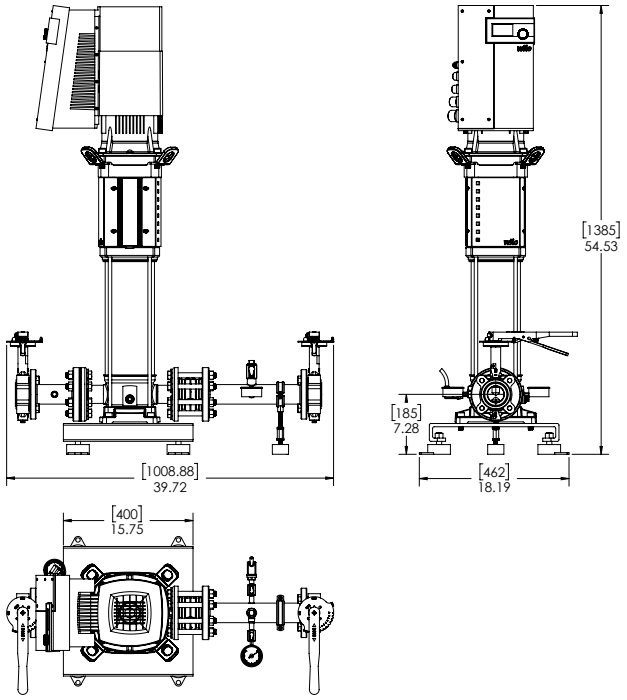
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V50-10-1/8.7/VCE

460 V~3



3313904

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V50-10-1/8.7/460	460 V	54-1/2	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	203	263

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V50-10-1/8.7/460	8.7	6.5	3	460 (±10%)	9.7	96.5	232

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www.wilo-mexico.com
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

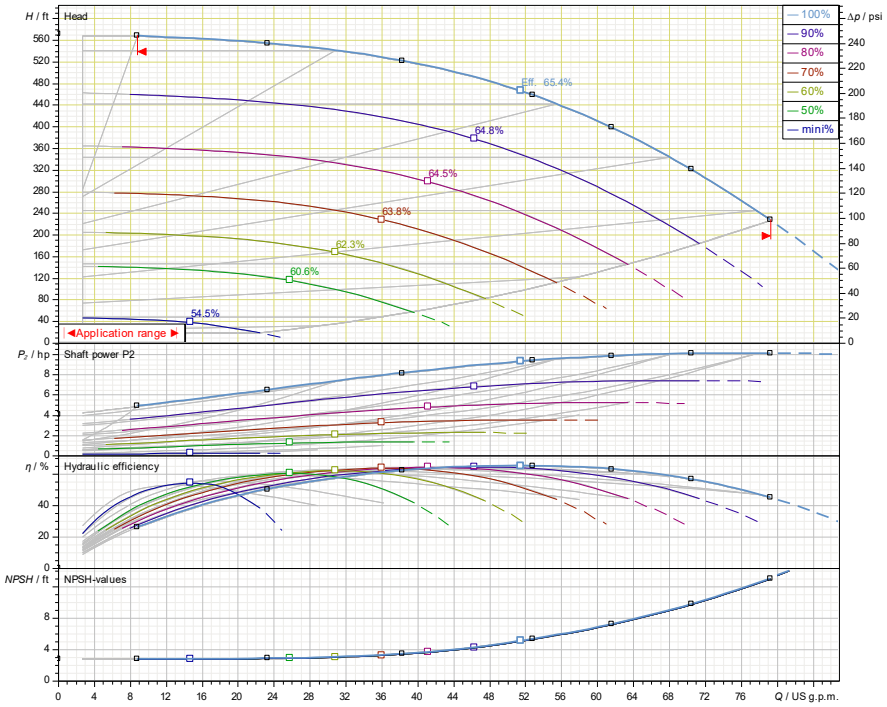
Helix EXCEL Complete V50-12-1/10.1/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V50-12-1/10.1/460				10.1			3600

Article Number: 3313905

Helix EXCEL Complete V50-12-1/10.1/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

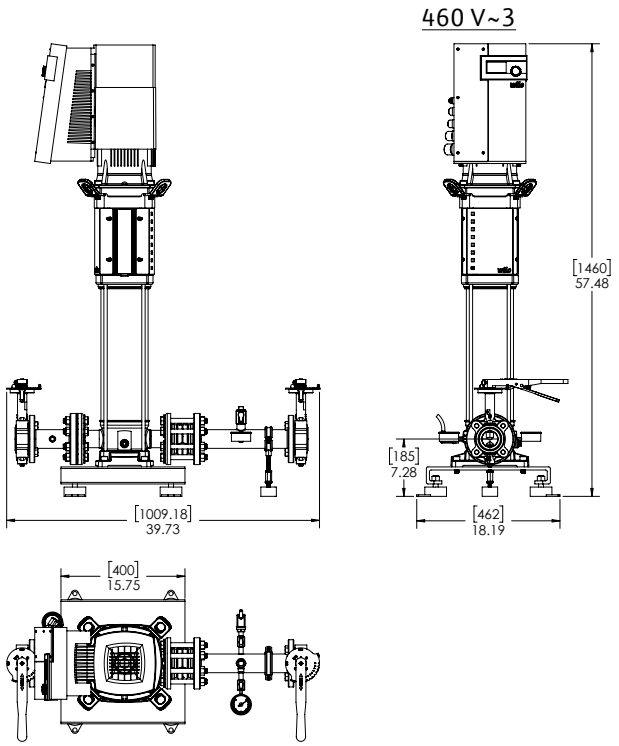
Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V50-12-1/10.1/VCE



3313905

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V50-12-1/10.1/460	460 V	57-1/2	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	207	267

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V50-12-1/10.1/460	10.1	7.5	3	460 (±10%)	10.9	96.4	363

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

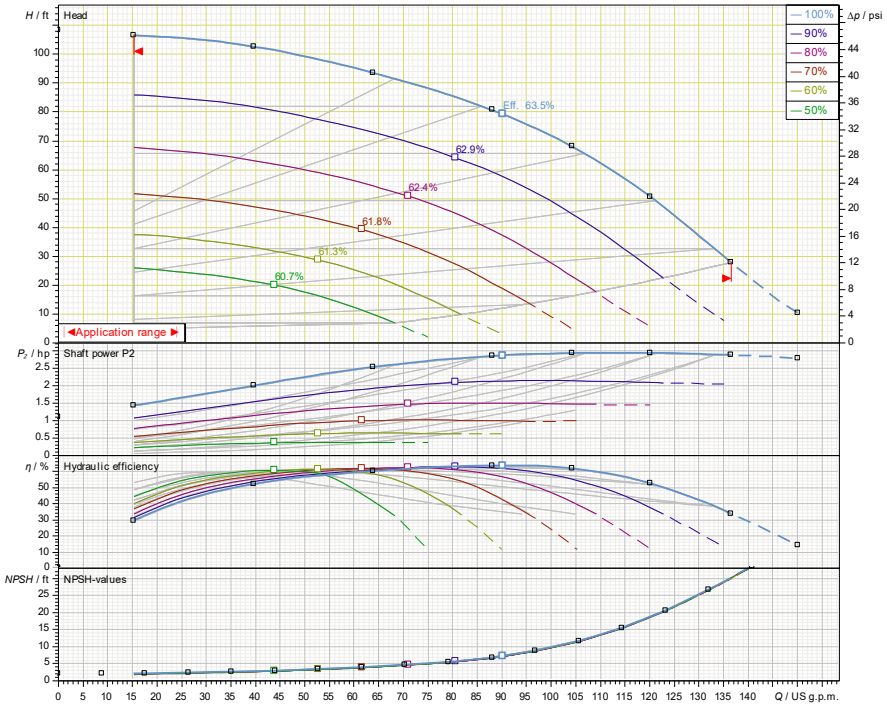
Helix EXCEL Complete V80-02-1/3/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V80-02-1/3/460				3			3600

Article Number: 3313906

Helix EXCEL Complete V80-02-1/3/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

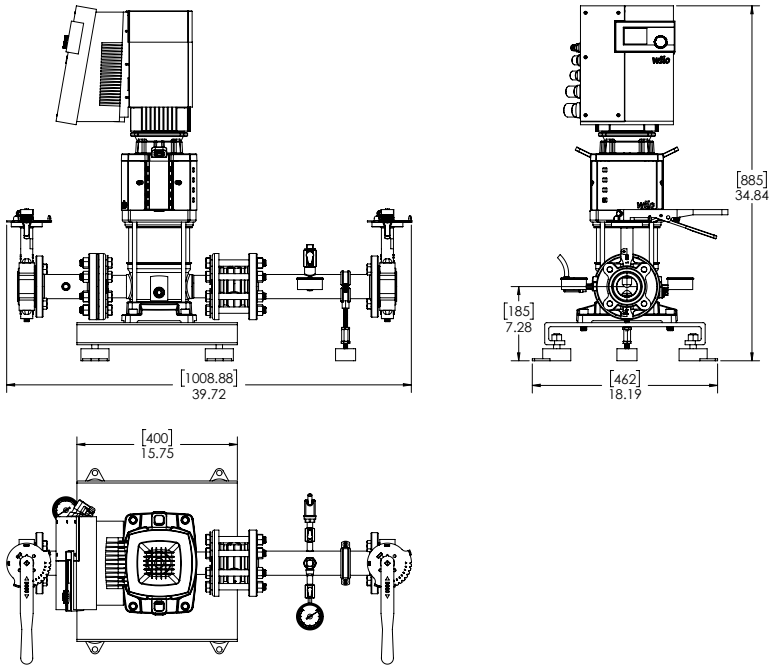
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V80-02-1/3/VCE

460 V~3



3313906

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V80-02-1/3/460	460 V	34-7/8	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	124	183

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V80-02-1/3/460	3	2.2	3	460 (±10%)	4.4	93	232

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

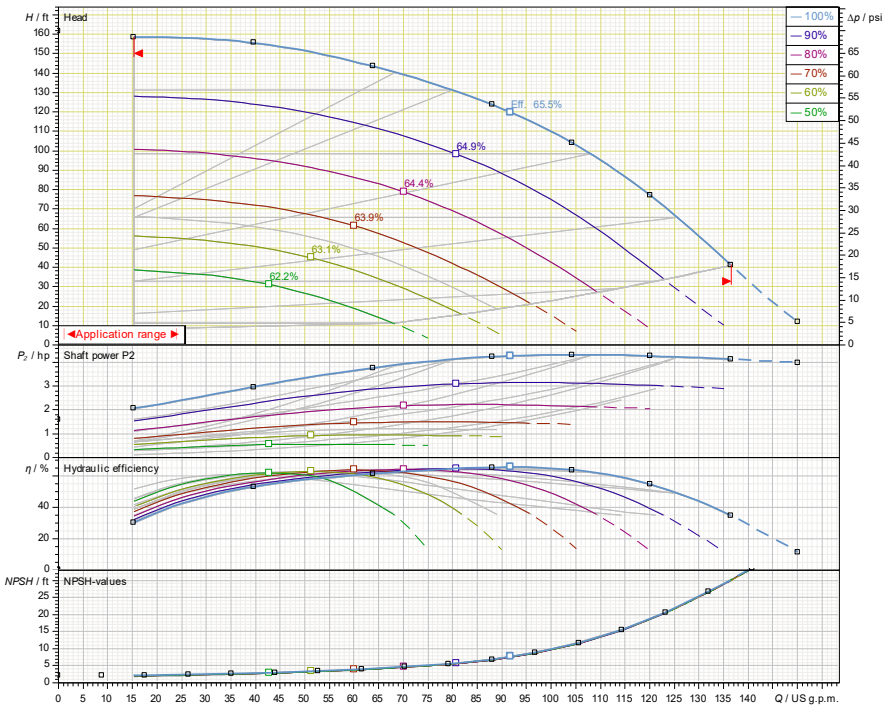
Helix EXCEL Complete V80-03-1/4.3/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V80-03-1/4.3/460				4.3			3600

Article Number: 3313907

Helix EXCEL Complete V80-03-1/4.3/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

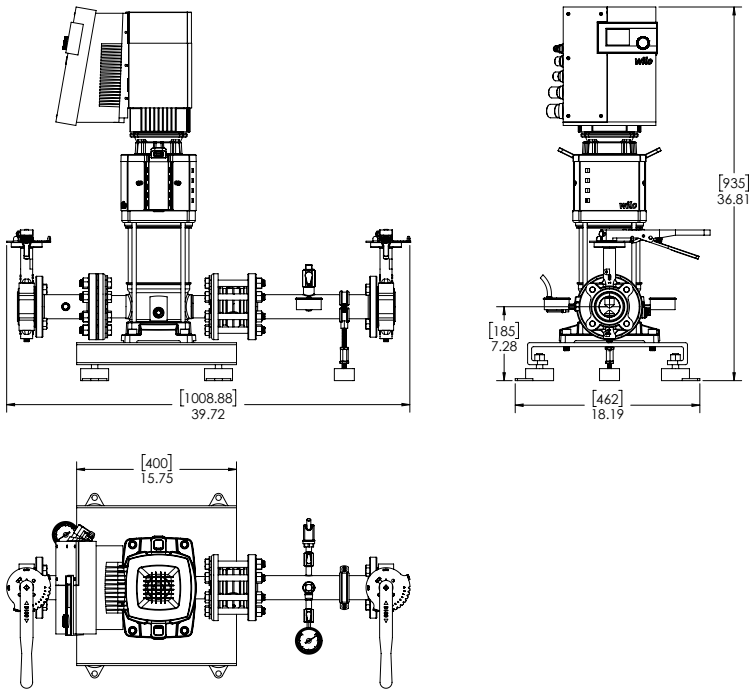
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V80-03-1/4.3/VCE

460 V~3



3313907

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V80-03-1/4.3/460	460 V	36-7/8	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	126	186

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V80-03-1/4.3/460	4.3	3.2	3	460 (±10%)	6	93	232

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

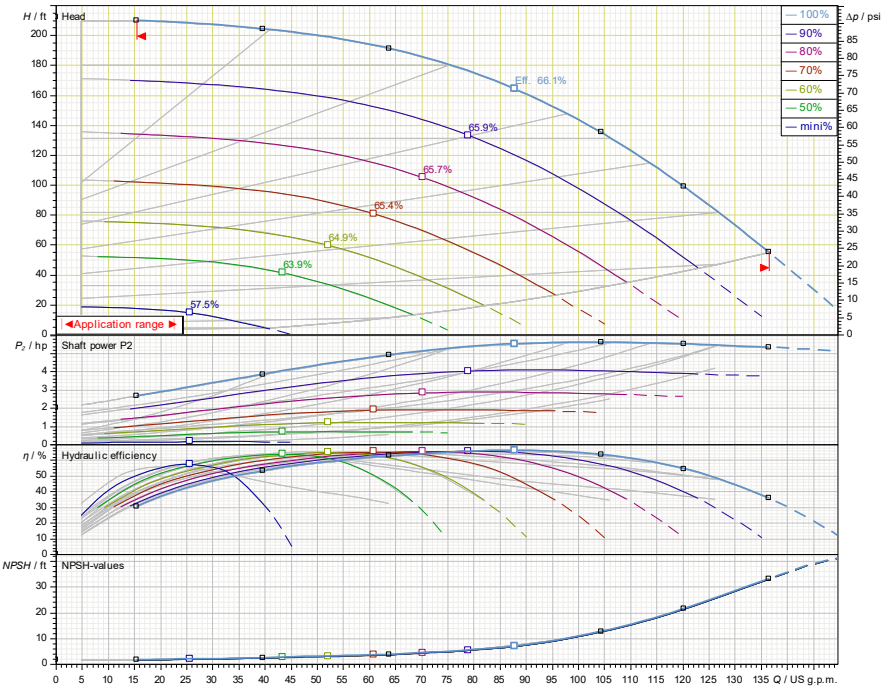
Helix EXCEL Complete V80-04-1/5.7/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V80-04-1/5.7/460				5.7			3600

Article Number: 3313908

Helix EXCEL Complete V80-04-1/5.6/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

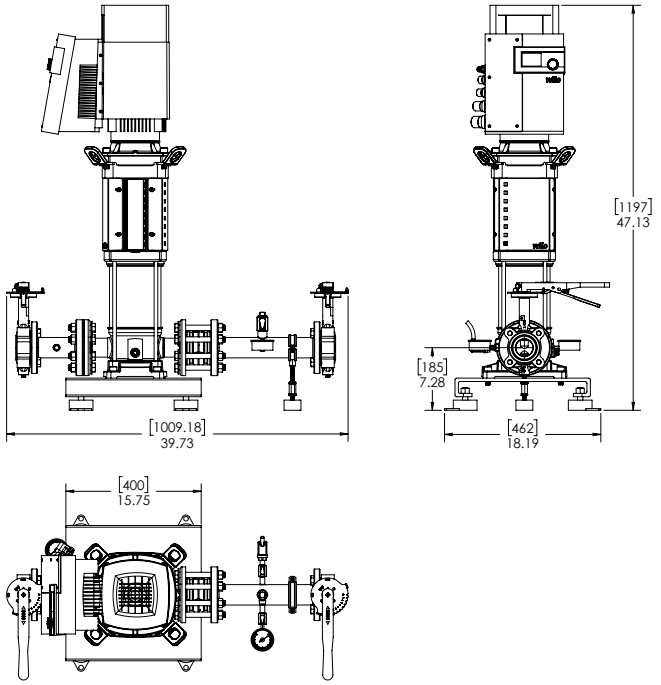
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V80-04-1/5.7/VCE

460 V~3



3313908

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V80-04-1/5.7/460	460 V	47-1/8	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	157	217

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V80-04-1/5.7/460	5.7	4.3	3	460 (±10%)	6.5	95.8	232

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info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

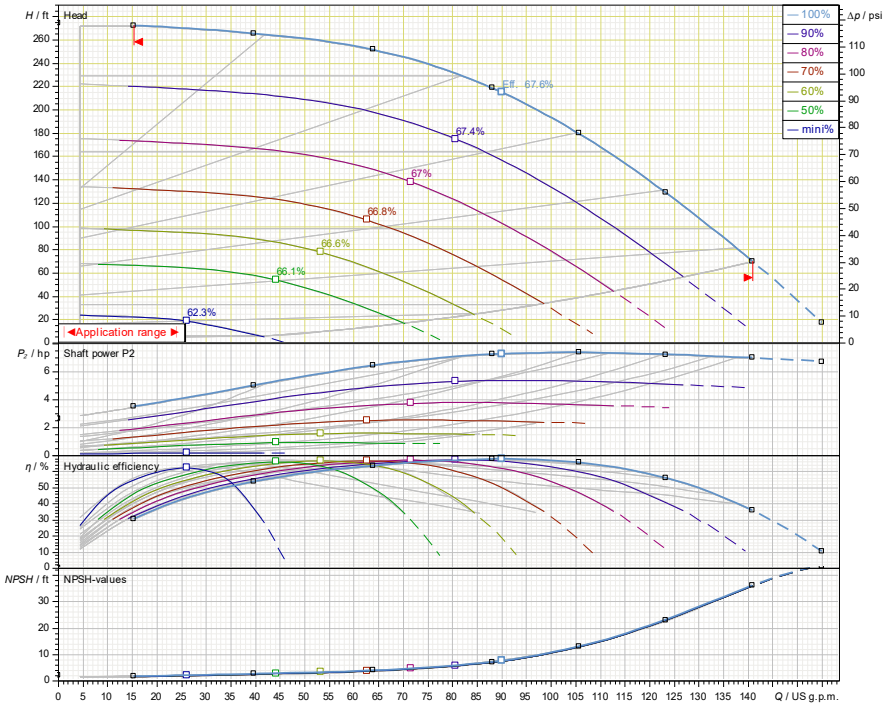
Helix EXCEL Complete V80-05-1/7.4/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V80-05-1/7.4/460				7.4			3600

Article Number: 3313909

Helix EXCEL Complete V80-05-1/7.4/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

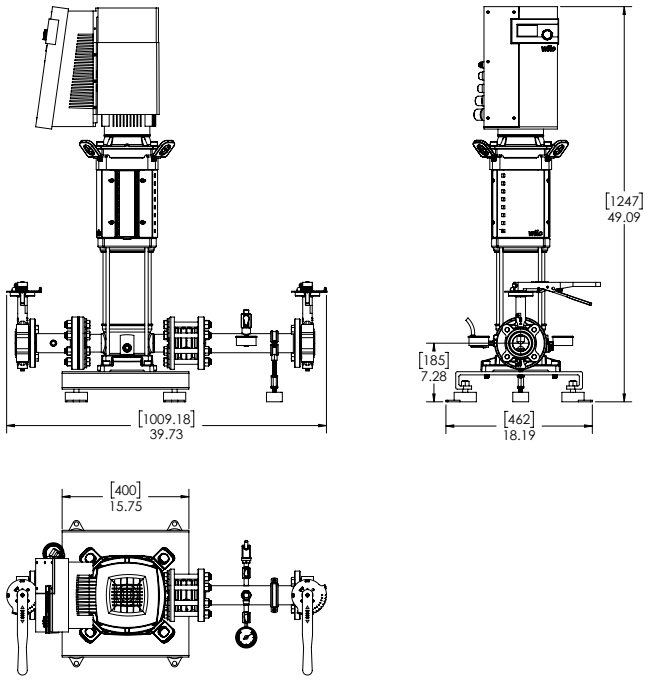
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V80-05-1/7.4/VCE

460 V~3



3313909

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V80-05-1/7.4/460	460 V	49	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	187	247

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V80-05-1/7.4/460	7.4	5.6	3	460 (±10%)	8.2	95.8	232

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www.wilo-mexico.com
info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

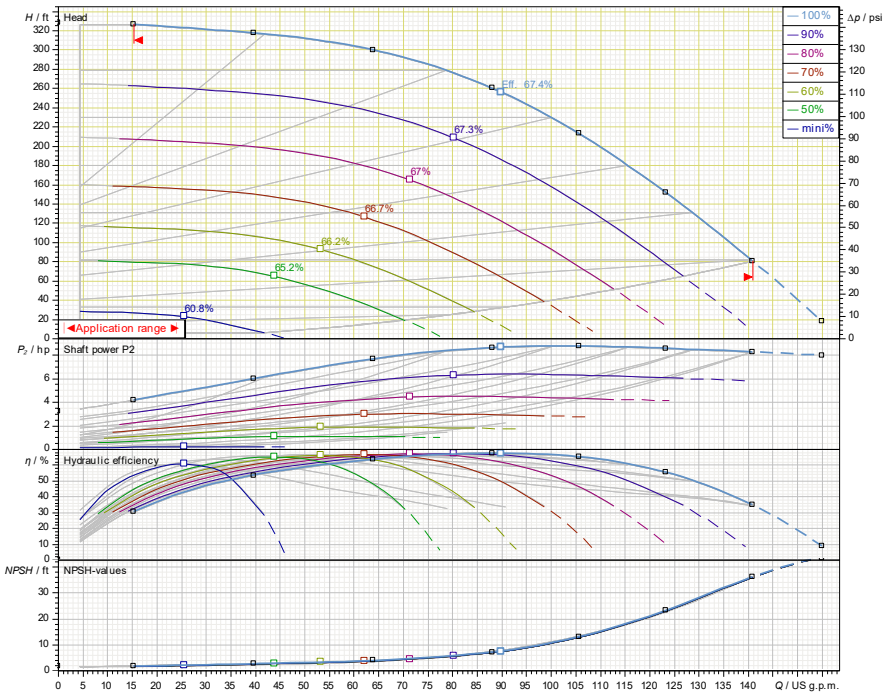
Helix EXCEL Complete V80-06-1/8.7/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V80-06-1/8.7/460				8.7			3600

Article Number: 3313910

Helix EXCEL Complete V80-06-1/8.7/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

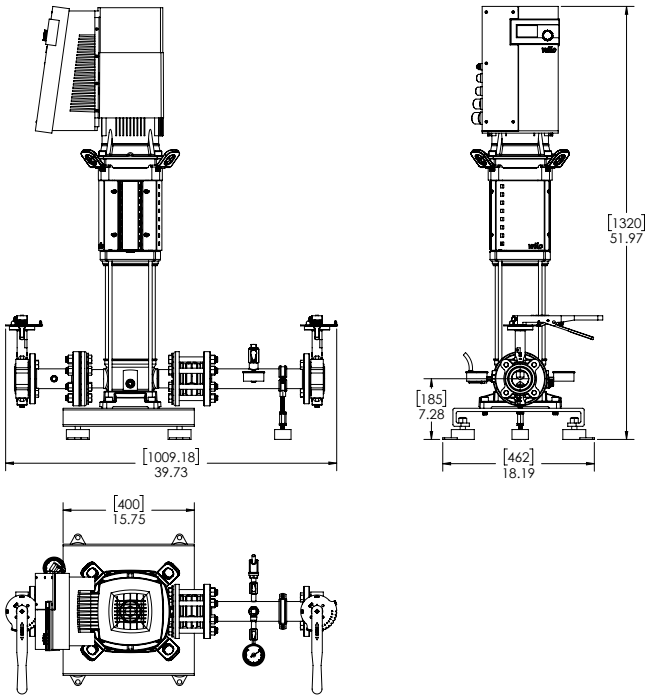
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V80-06-1/8.7/VCE

460 V~3



3313910

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V80-06-1/8.7/460	460 V	52	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	203	263

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V80-06-1/8.7/460	8.7	6.5	3	460 (±10%)	9.7	96.5	232

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

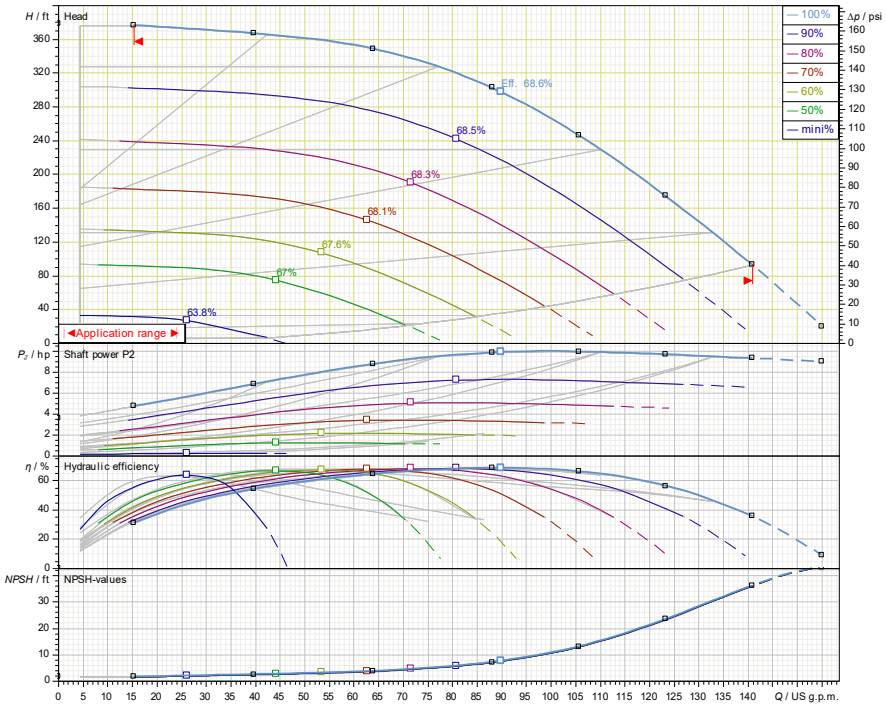
Helix EXCEL Complete V80-07-1/10.1/VCE

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V80-07-1/10.1/460				10.1			3600

Article Number: 3313911

Helix EXCEL Complete V80-07-1/10.1/460



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 with 316 Stainless Steel Interal Disc and Stem Butterfly Valve
Suction/Discharge Manifolds	AISI304 Stainless Steel with Flanged System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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/363 PSI

Technical Data - Panel

Power Supply	460v~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

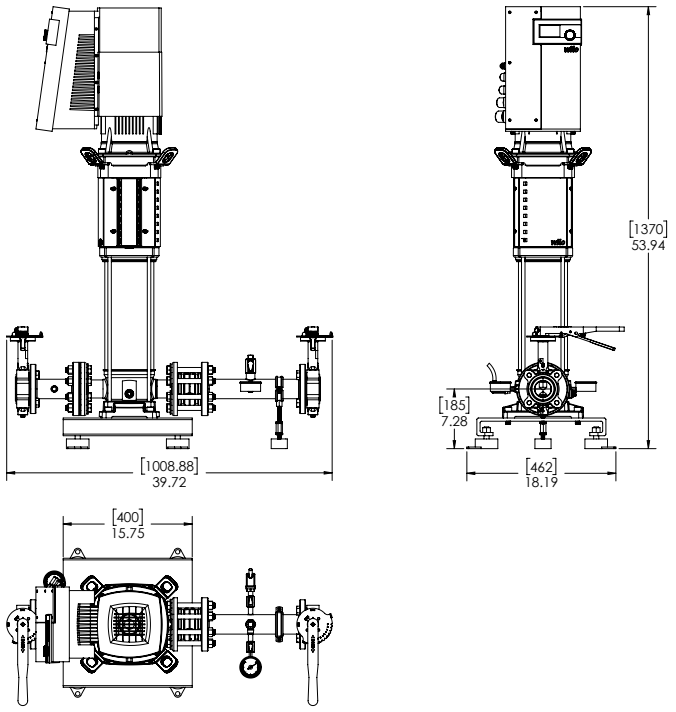
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V80-07-1/10.1/VCE

460 V~3



3313911

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)**	**System Header Size**	**Suction / Discharge Pump Size (300 Class ANSI)**	**Gauge Tap Size**	**Transducer Tap Size**	**Hydronumatic Tank Valve on Manifold (Plugged)**	**Pump Weight (lbs)**	**Package Weight (lbs)**
Helix EXCEL Complete V80-07-1/10.1/460	460 V	54	18-1/4	39-3/4	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	205	265

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V80-07-1/10.1/460	10.1	7.5	3	460 (±10%)	10.9	96.4	232

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

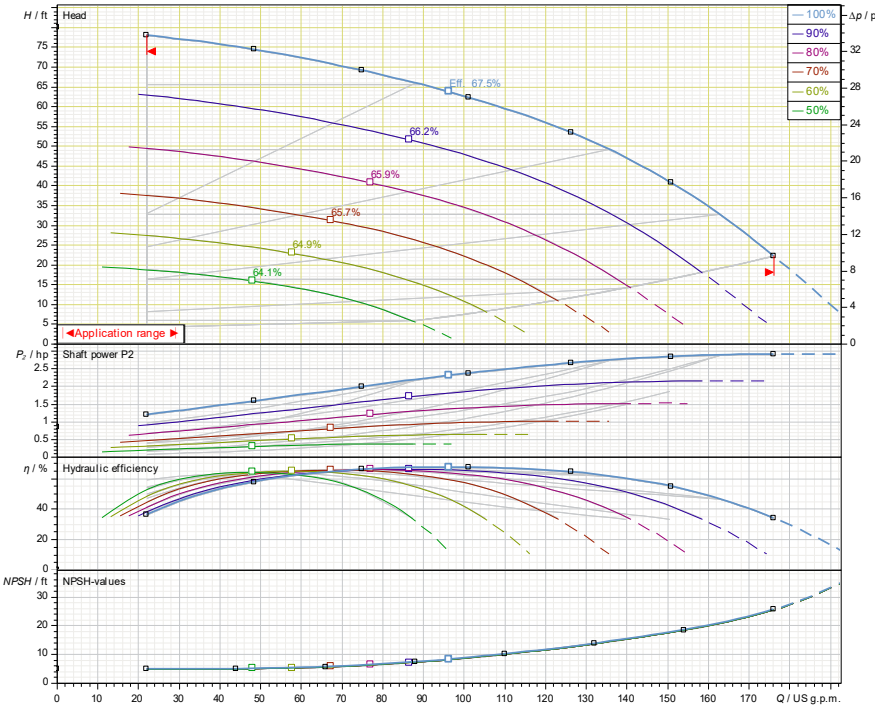
Helix EXCEL Complete V110-01/3/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V110-01/3/460				3			3600

Article Number: 3313912

Helix EXCEL Complete V110-01-1/3/460



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

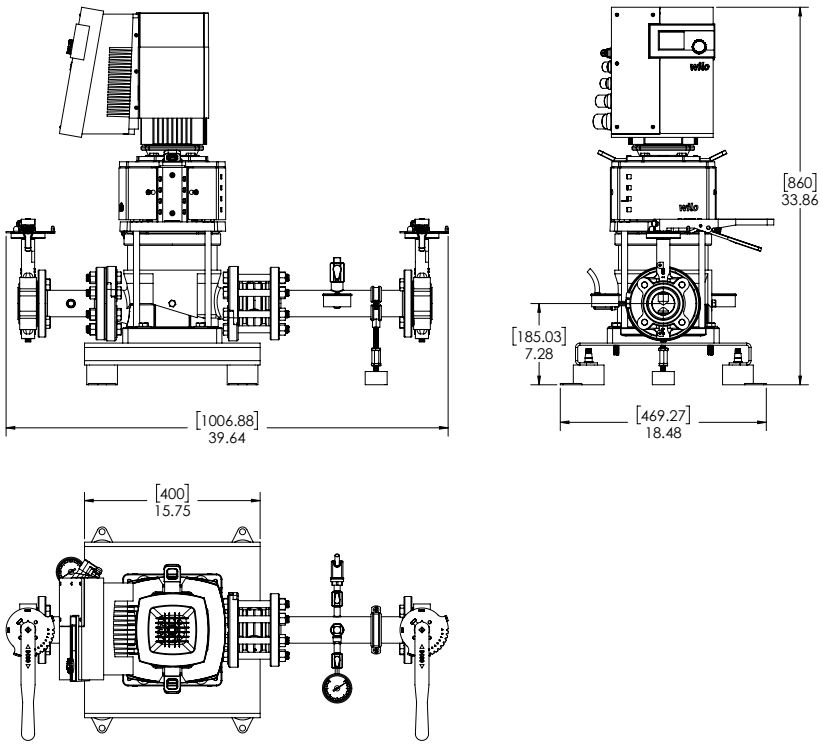
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V110-01/3/460

460 V~3



3313912

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

Dimensions and Weights

Model	Voltage (V)	System Header Size	Suction / Discharge Pump Size (300 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V110-01/3/460	460 V	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	168	228

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V110-01/3/460	3	2.20	3	460 (±10%)	4.4	93	232.1

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V110-02/4.3/460

Project:

Engineer:

Contractor:

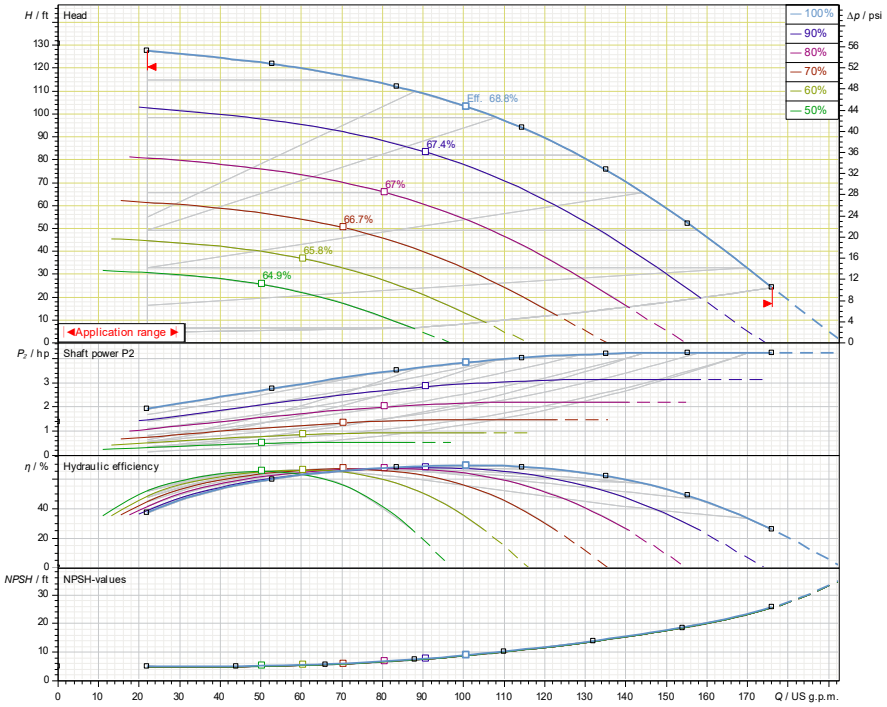
Submitted By: Date:

Approved By: Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V110-02/4.3/460				4.3			3600

Article Number: 3313913

Helix EXCEL Complete V110-02-1/4.3/460



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

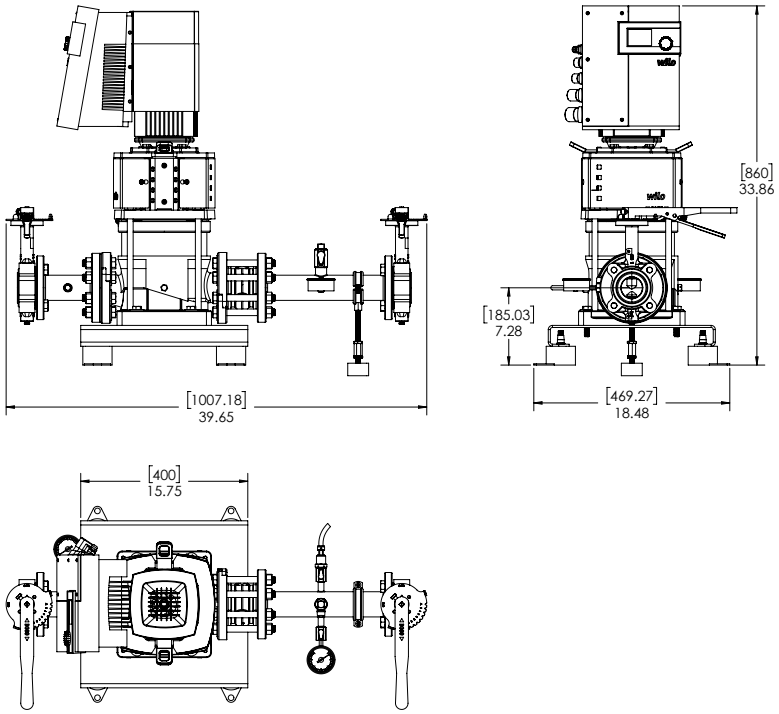
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V110-02/4.3/460

460 V~3



3313913

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

Dimensions and Weights

Model	Voltage (V)	System Header Size	Suction / Discharge Pump Size (300 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V110-02/4.3/460	460 V	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	170	230

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V110-02/4.3/460	4.3	3.20	3	460 (±10%)	6	93	232.1

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info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V110-03/5.7/460

Project:

Engineer:

Contractor:

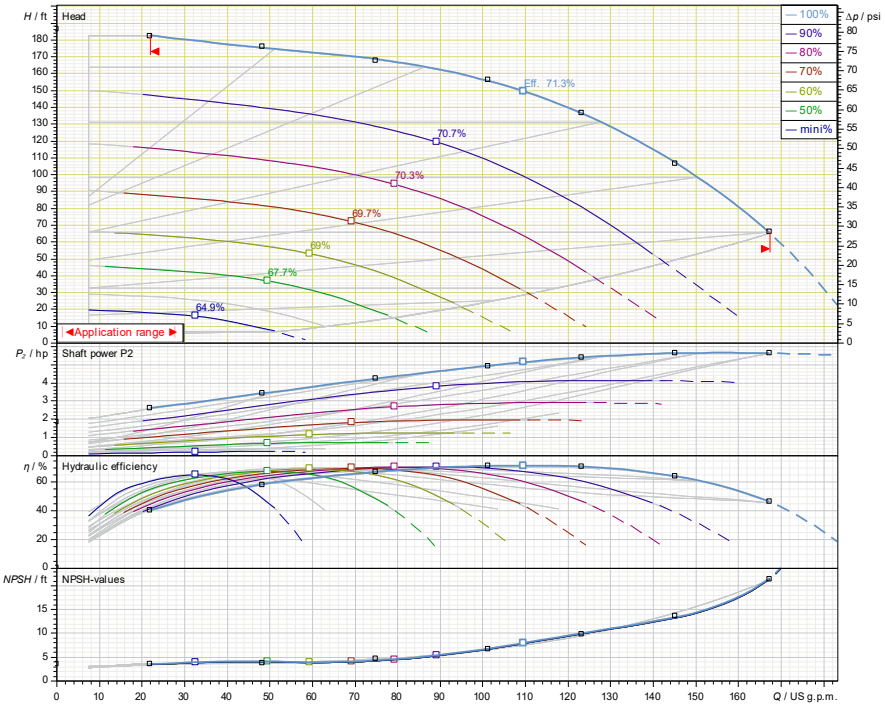
Submitted By: Date:

Approved By: Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V110-03/5.7/460				5.7			3600

Article Number: 3313914

Helix EXCEL Complete V110-03-1/5.6/460



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

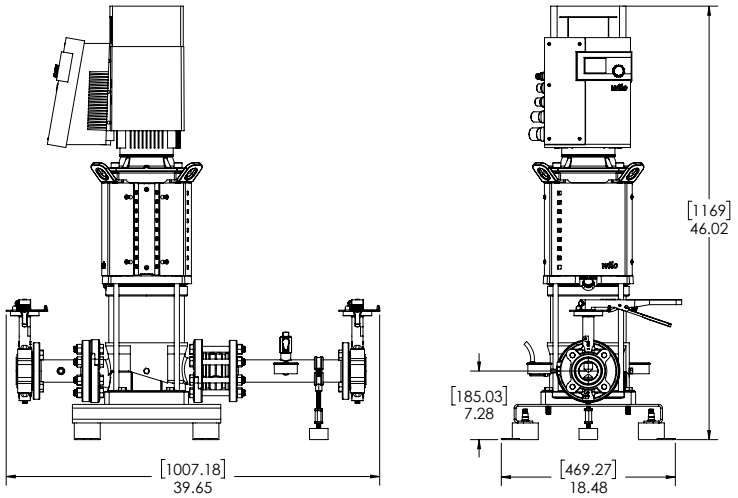
Approval Stamp

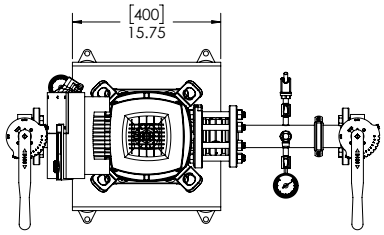
Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V110-03/5.7/460

460 V~3





3313914

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

Dimensions and Weights

Model	Voltage (V)	System Header Size	Suction / Discharge Pump Size (300 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V110-03/5.7/460	460 V	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	243	303

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V110-03/5.7/460	5.6	4.20	3	460 (±10%)	6.5	95.8	232.1

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V110-03/7.4/460

Project:

Engineer:

Contractor:

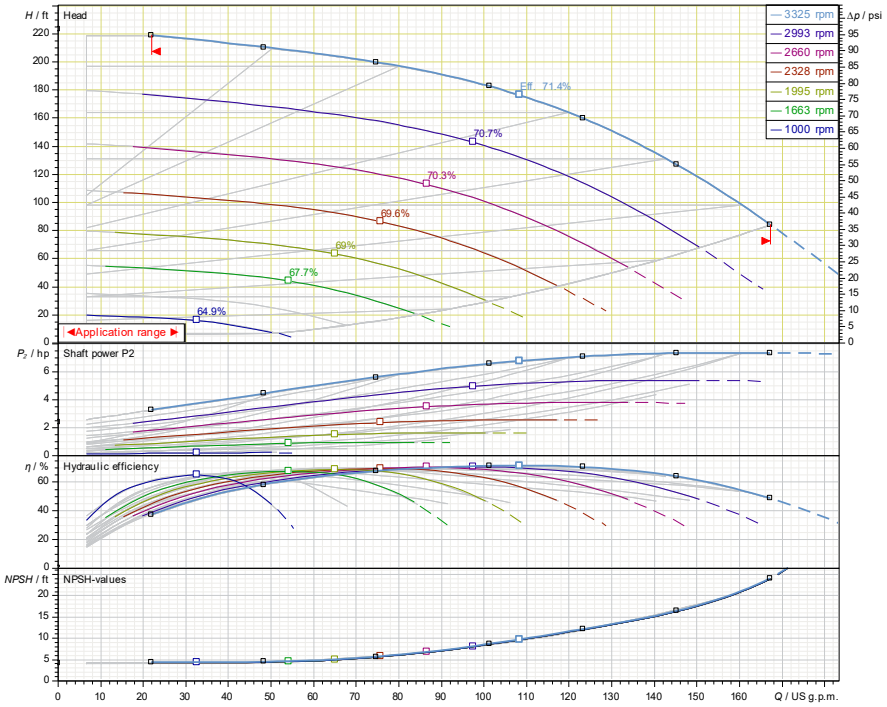
Submitted By: Date:

Approved By: Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V110-03/7.4/460				7.4			3600

Article Number: 3313915

Helix EXCEL Complete V110-03-1/7.4/460



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

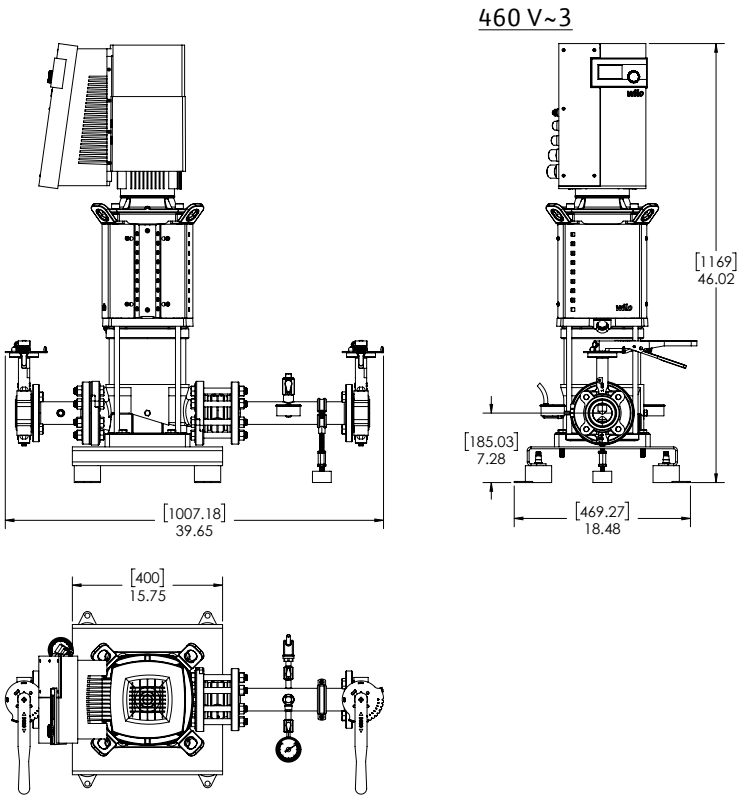
Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V110-03/7.4/460



3313915

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

Dimensions and Weights

Model	Voltage (V)	System Header Size	Suction / Discharge Pump Size (300 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V110-03/7.5/460	460 V	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	243	303

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V110-03/7.5/460	7.4	5.50	3	460 (±10%)	8.2	95.8	232.1

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

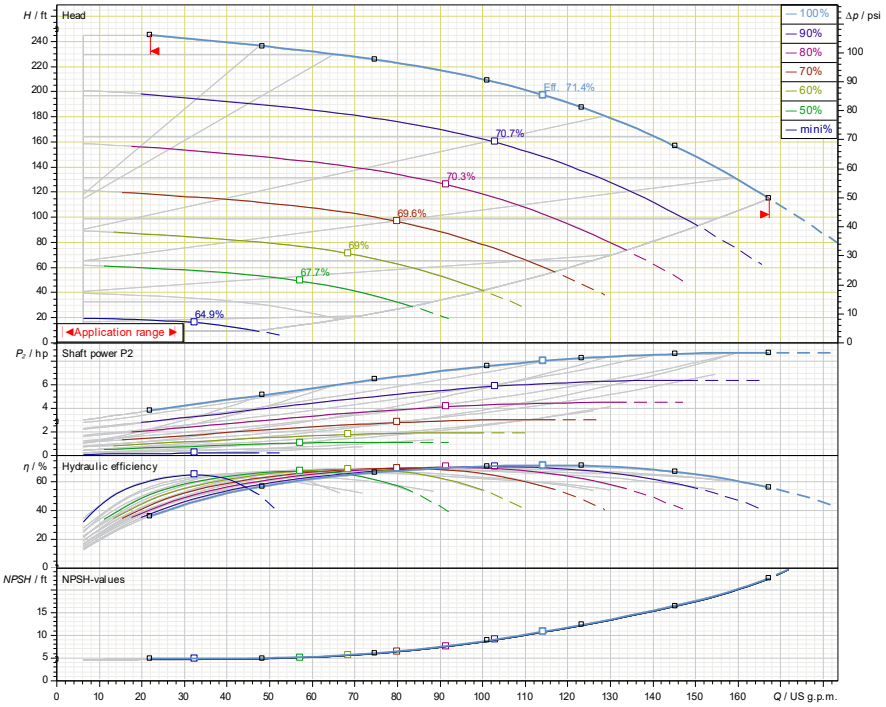
Helix EXCEL Complete V110-03/8.7/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V110-03/8.7/460				8.7			3600

Article Number: 3313916

Helix EXCEL Complete V110-03-1/8.7/460



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

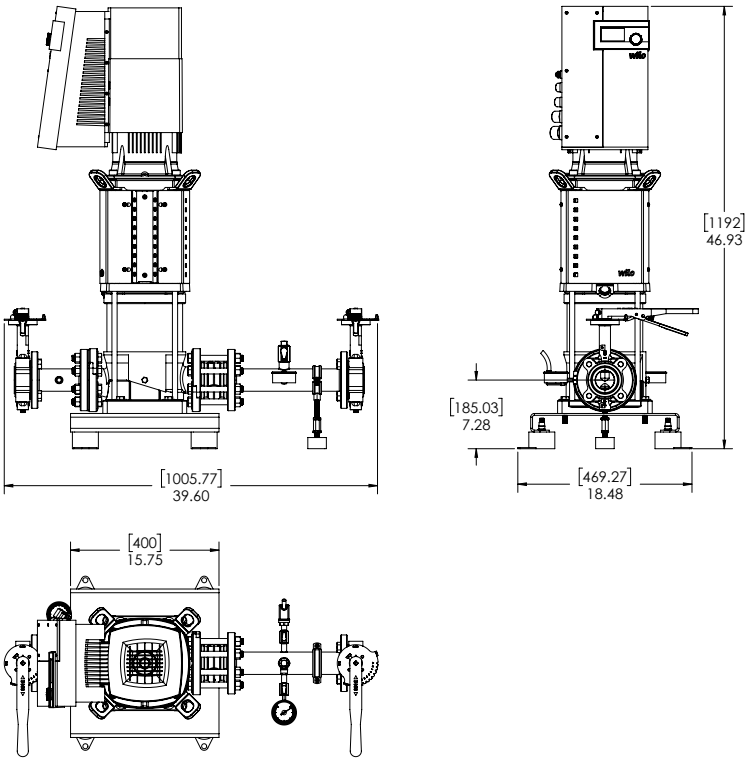
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V110-03/8.7/460

460 V~3



3313916

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

Dimensions and Weights

Model	Voltage (V)	System Header Size	Suction / Discharge Pump Size (300 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V110-03/8.7/460	460 V	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	243	303

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V110-03/8.7/460	8.7	6.50	3	460 (±10%)	9.7	96.5	232.1

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

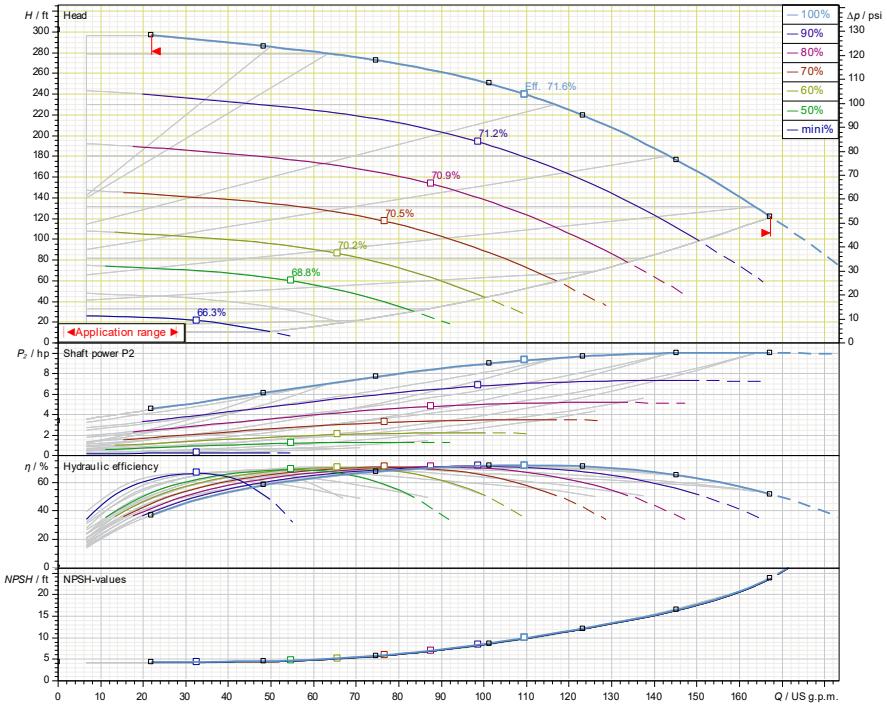
Helix EXCEL Complete V110-04/10.1/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V110-04/10.1/460				10.1			3600

Article Number: 3313917

Helix EXCEL Complete V110-04-1/10.1/460



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

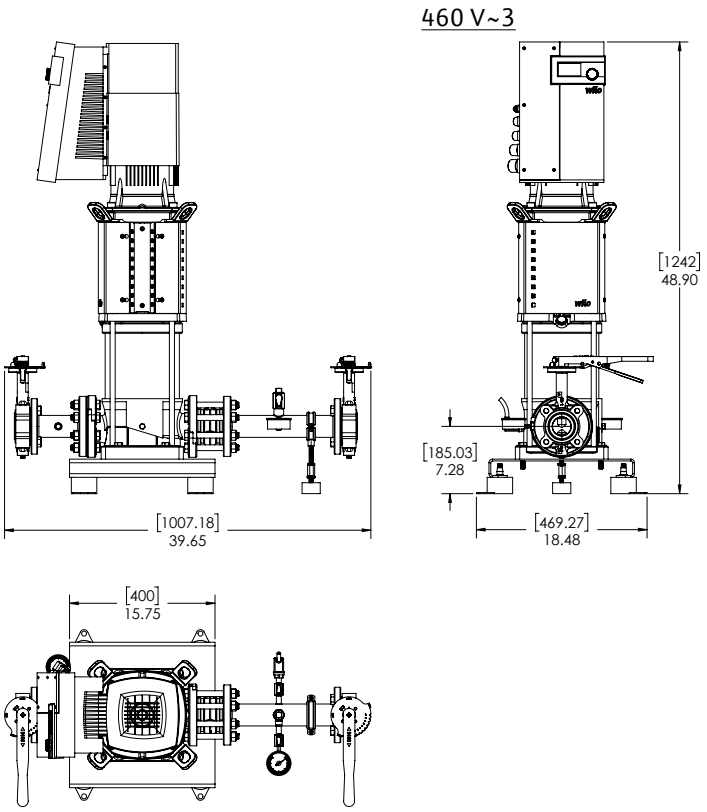
Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V110-04/10.1/460



3313917

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

Dimensions and Weights

Model	Voltage (V)	System Header Size	Suction / Discharge Pump Size (300 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V110-04/10.1/460	460 V	2" 150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	256	316

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V110-04/10.1/460	10.1	7.50	3	460 (±10%)	10.9	96.4	232.1

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

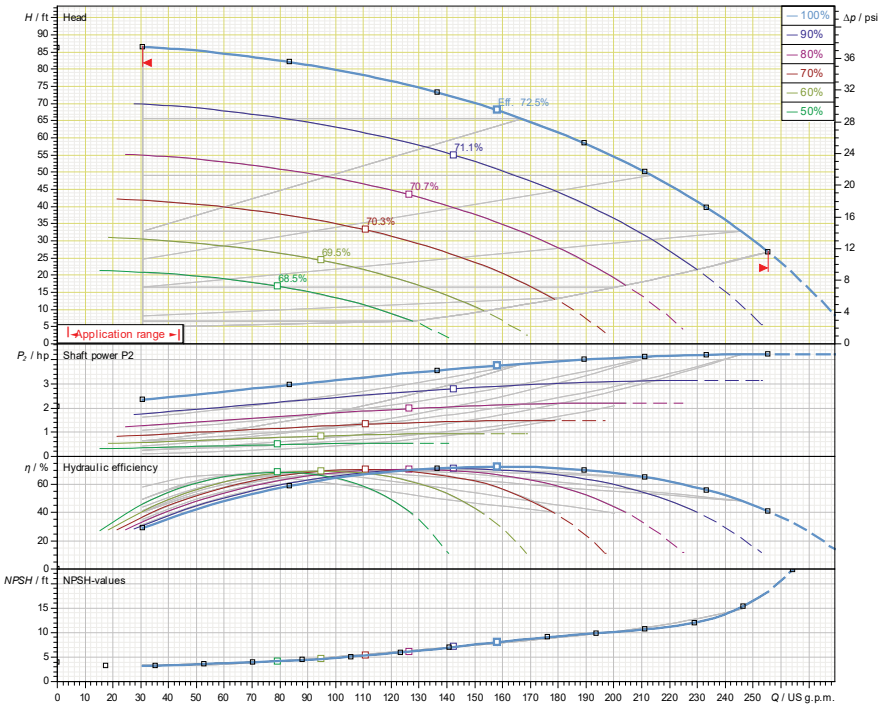
Helix EXCEL Complete V190-01/4.3/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V190-01/4.3/460				4.3			3600

Article Number: 2700960

Helix_EXCEL_Complete_V190-01_4.3_460



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

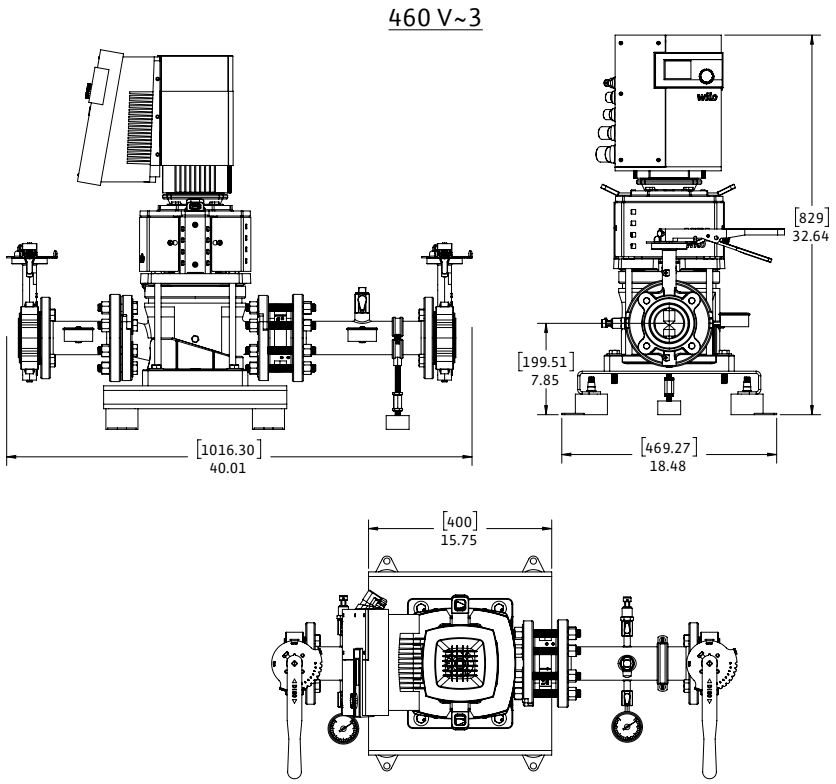
Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V190-01/4.3/460



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

Dimensions and Weights

Model	Voltage (V)	System Header Size	Suction / Discharge Pump Size (150 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V190-01/4.3/460	460 V	2.5"	2.5"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	175	253

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V190-01/4.3/460	4.3	3.20	3	460 (±10%)	6	93	232.1

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

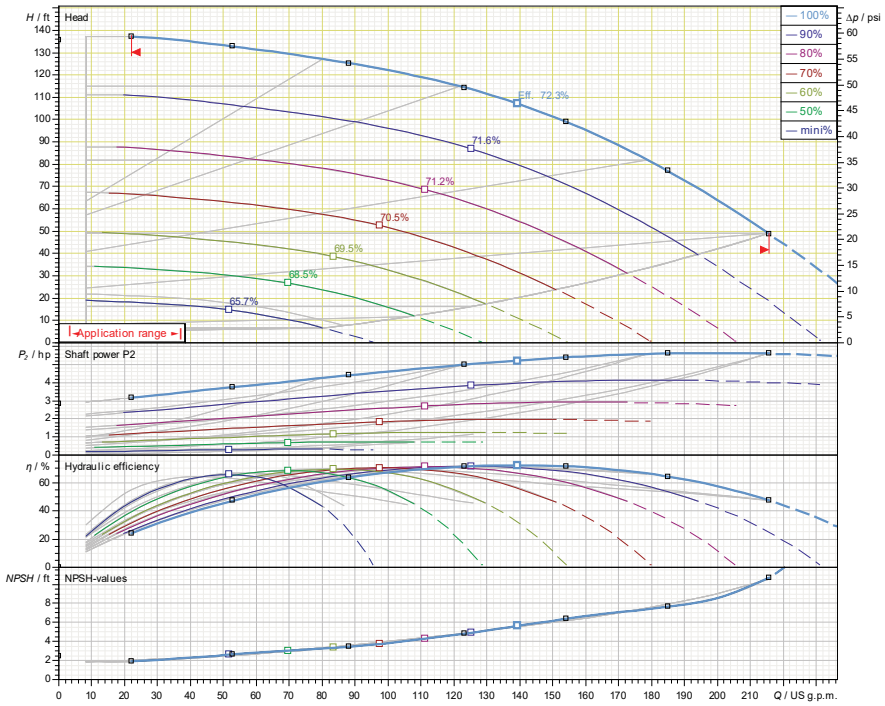
Helix EXCEL Complete V190-02-2/5.7/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V190-02-2/5.7/460				5.7			3600

Article Number: 2700961

Helix_EXCEL_Complete_ V190-02_2_5.7_460V



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

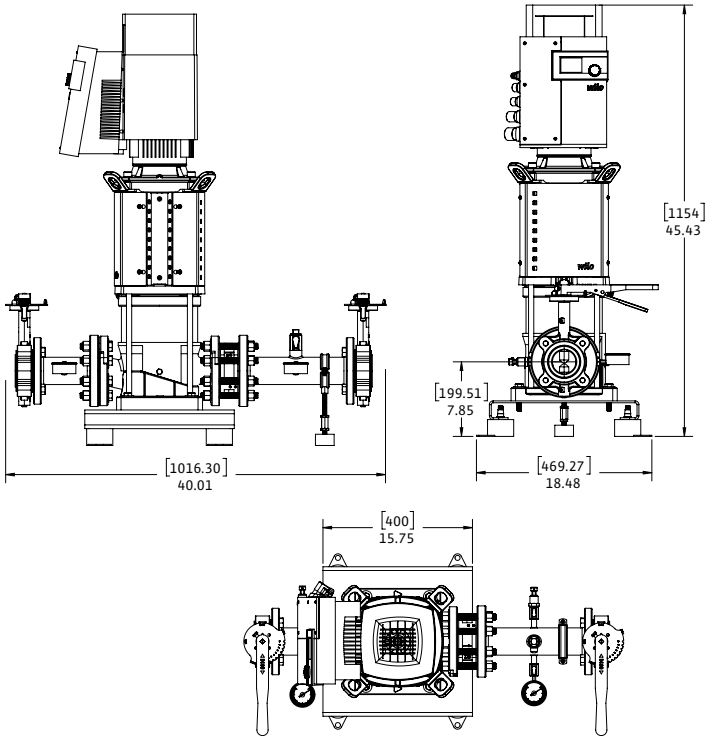
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V190-02-2/5.7/460

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)	System Header Size	Suction / Discharge Pump Size (150 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V190-02-2/5.7/460	460 V	2.5"	2.5"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	241	319

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V190-02-2/5.7/460	5.7	4.20	3	460 (±10%)	6.5	95.8	232.1

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info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

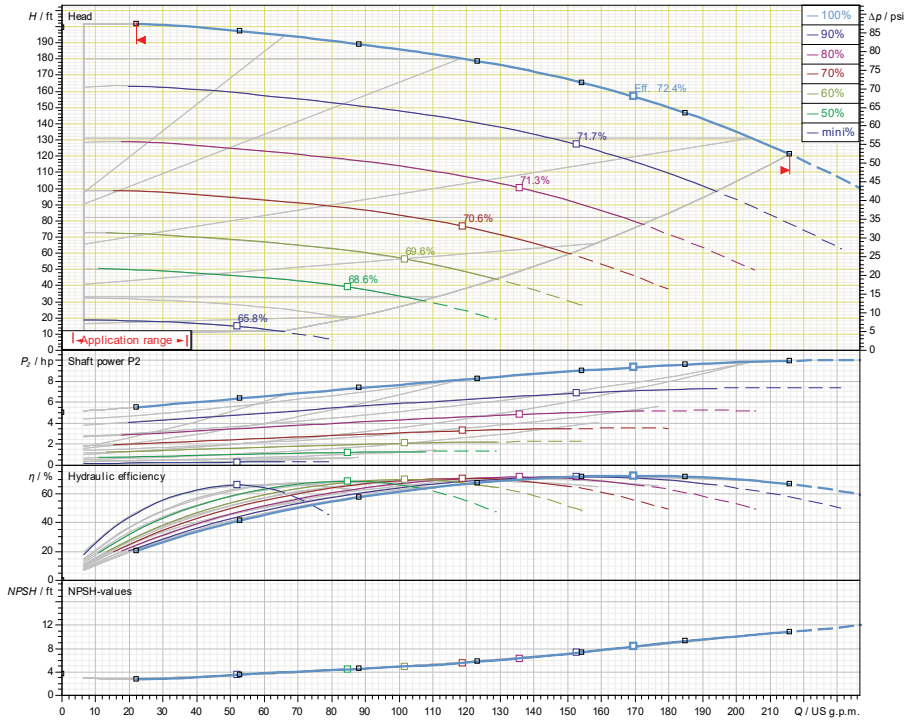
Helix EXCEL Complete V190-02/7.5/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V190-02/7.5/460				3			3600

Article Number: 2700962

Helix_EXCEL_Complete_V190-02_7.5_460V



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

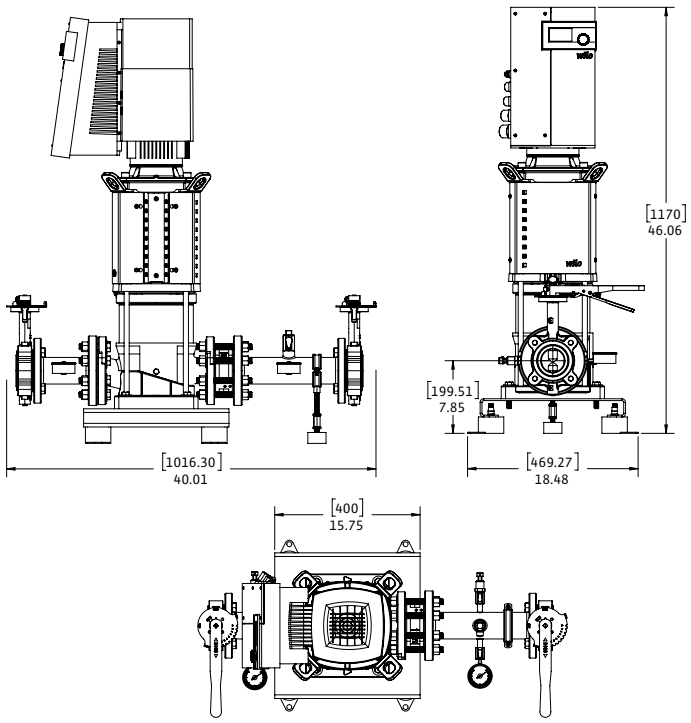
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V190-02/7.5/460

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)	System Header Size	Suction / Discharge Pump Size (150 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V190-02/7.5/460	460 V	2.5"	2.5"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	241	319

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V190-02/7.5/460	7.5	5.50	3	460 (±10%)	8.2	95.8	232.1

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info@wilo.com.mx

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

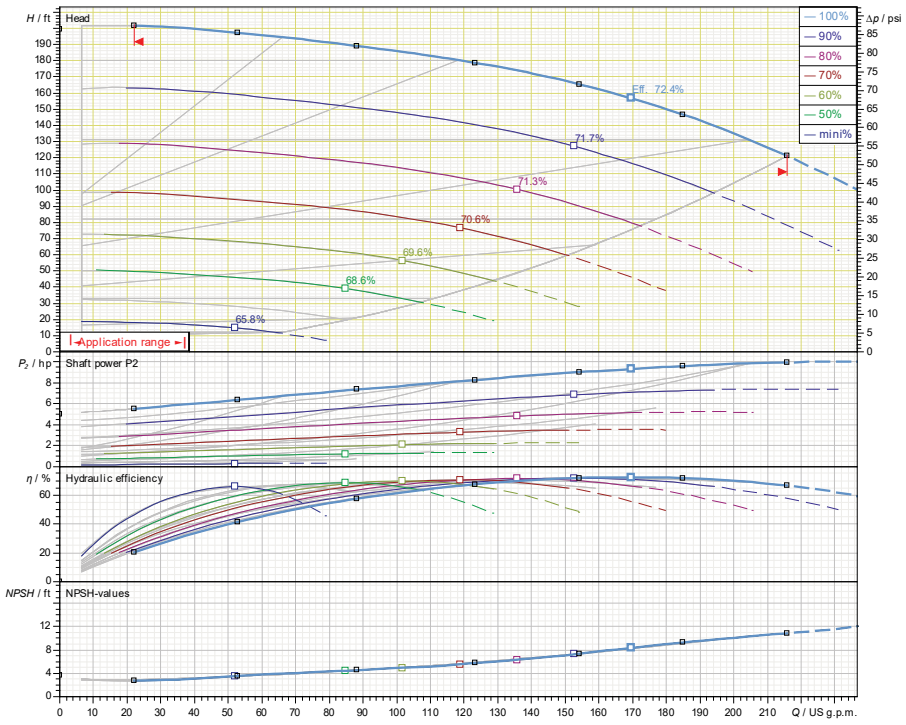
Helix EXCEL Complete V190-02-1/10.1/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V190-02-1/10.1/460				10.1			3600

Article Number: 2700963

Helix_EXCEL_Complete_V190-02_10.1_460V



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

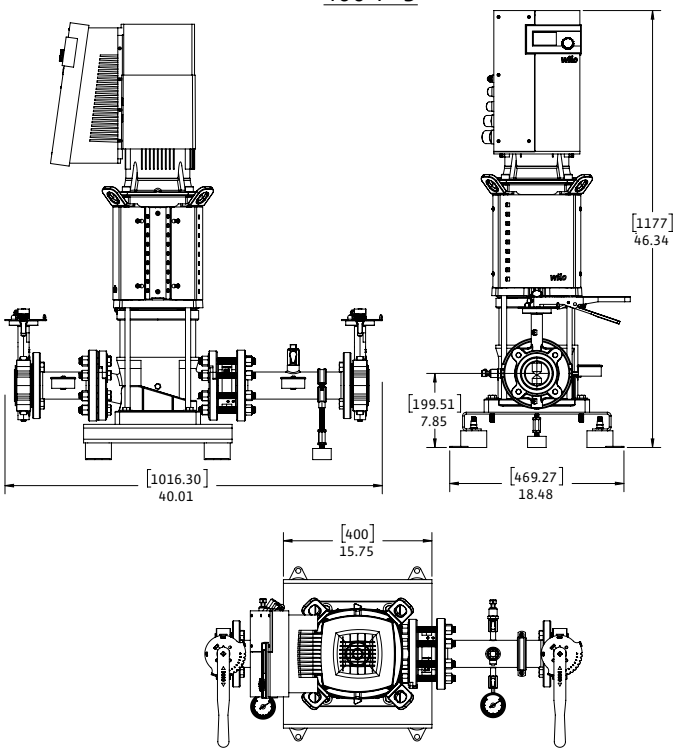
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V190-02-1/10.1/460

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)	System Header Size	Suction / Discharge Pump Size (150 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V190-02-1/10.1/460	460 V	2.5"	2.5"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	258	336

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V190-02-1/10.1/460	10.1	7.50	3	460 (±10%)	10.9	96.4	232.1

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

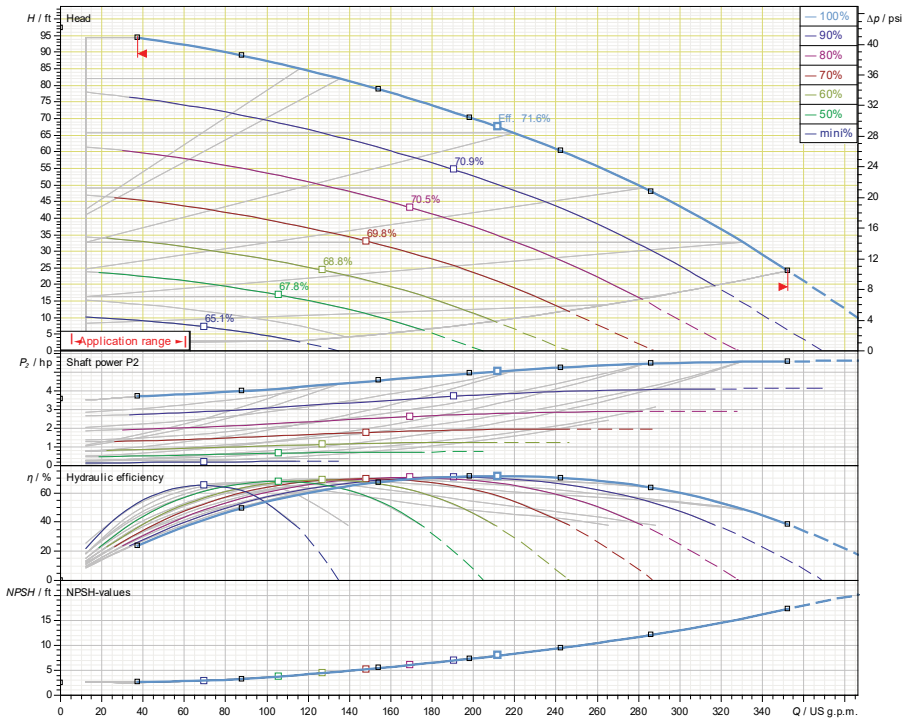
Helix EXCEL Complete V270-01/5.7/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V270-01/5.7/460				5.7			3600

Article Number: 2700964

Helix_EXCEL_Complete_V270-01_5.7_460V



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

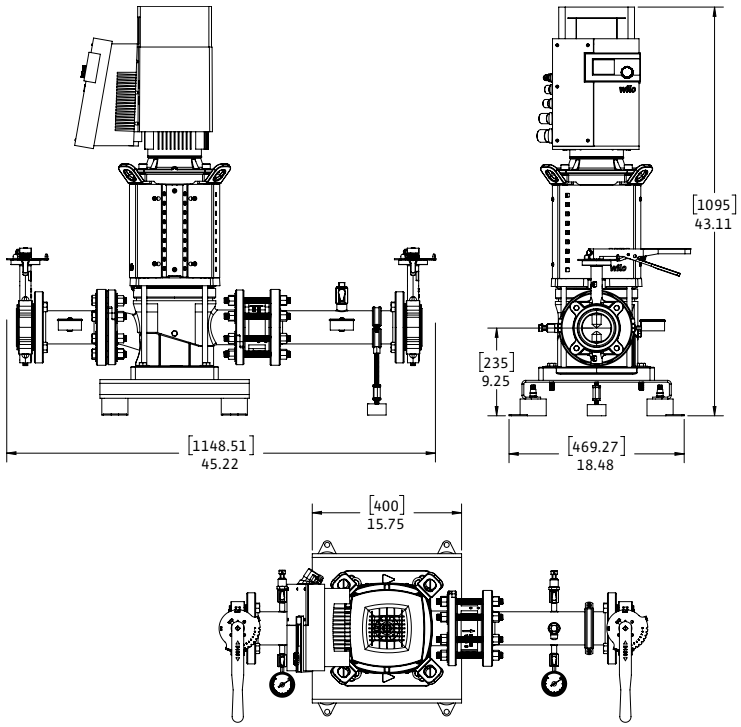
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V270-01/5.7/460

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)	System Header Size	Suction / Discharge Pump Size (150 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V270-01/5.7/460	460 V	3"	3"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	239	333

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V270-01/5.7/460	5.7	4.20	3	460 (±10%)	6.5	95.8	232.1

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

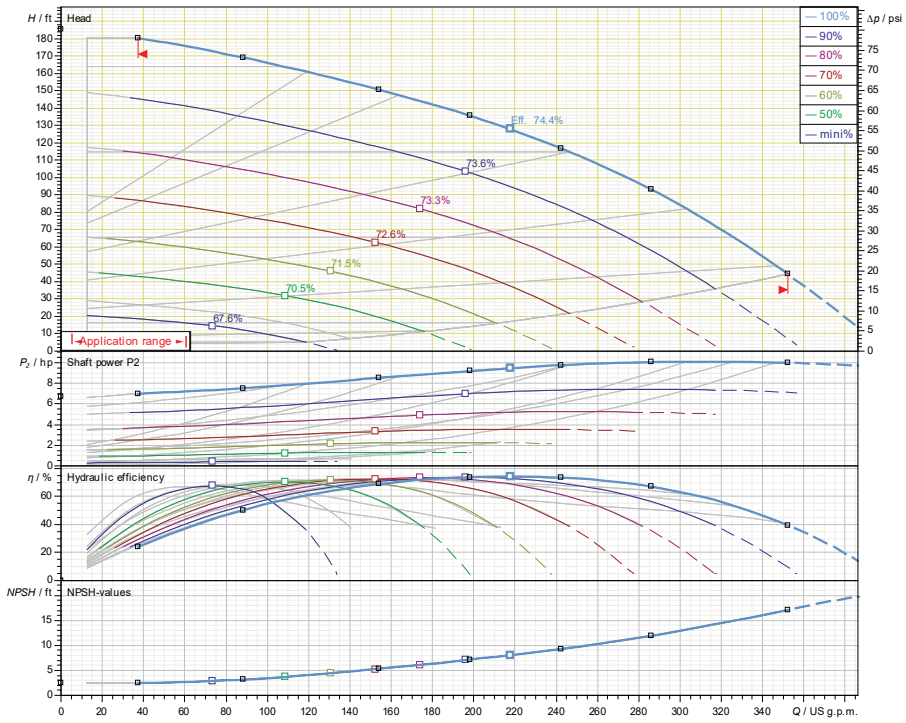
Helix EXCEL Complete V270-02/1/7.4/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V270-02/1/7.4/460				7.4			3600

Article Number: 2700965

Helix_EXCEL_Complete_V270-02_1_7.4_460V



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 with Grooved System Connections
Check Valves	Wafer Style, 316 Stainless Steel internals, Non-slam, Plunger-type with EPDM seal/ Cast Iron Body
Mechanical Seal	Cartridge Seal: Sleeve AISI316L / Spring Clips AISI304
Pressure Transducers	316 Stainless Steel
Pressure Guages	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 +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	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

User Interface	3" Diagonal LCD with Green Button selection
Supply Voltage	24VDC
Number of Analog Inputs	2 (1 External set value/1 Pressure sensor)
Number of Analog Outputs	0
Number of Digital Inputs	1 (External On/Off)
Number of Digital Outputs	0
Optional Communications	Gateways for Modbus, BacNET, and LonWorks
Dip Switches	4

Motor Data

Power Supply	460V~3
Motor Enclosure	Totally Enclosed Fan Cooled (TEFC)
Motor Efficiency	IEC Premium Efficiency (IE5) - Electronically Commutated Motor (EC Motor with Powerhead control)
Enclosure Construction	Cast Iron
Motor Protection Index	IP55
Insulation Class	F

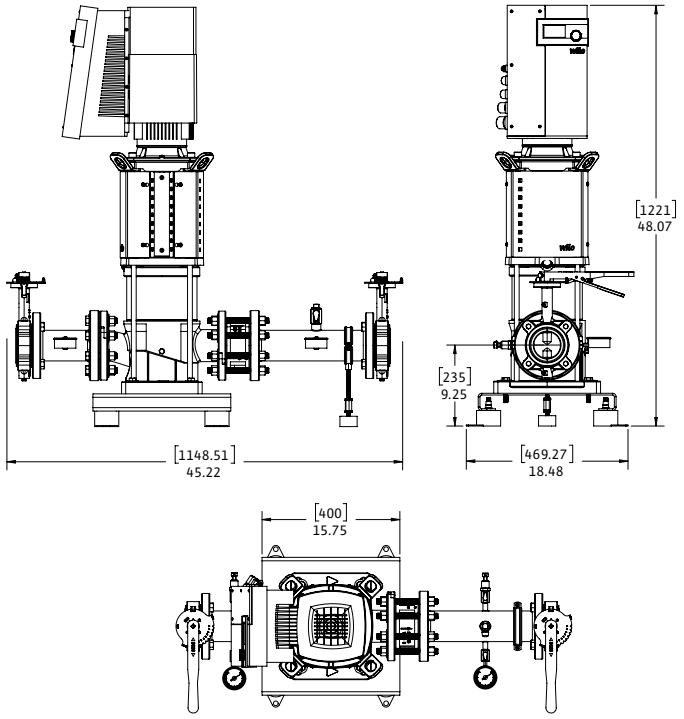
Approval Stamp

Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V270-02/1/7.5/460

460 V~3



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Dimensions and Weights

Model	Voltage (V)	System Header Size	Suction / Discharge Pump Size (150 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
Helix EXCEL Complete V270-02/1/7.5/460	460 V	3"	3"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	256	350

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
Helix EXCEL Complete V270-02/1/7.5/460	7.4	5.50	3	460 (±10%)	10.9	96.4	232.1

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Submittal Data Sheet

Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

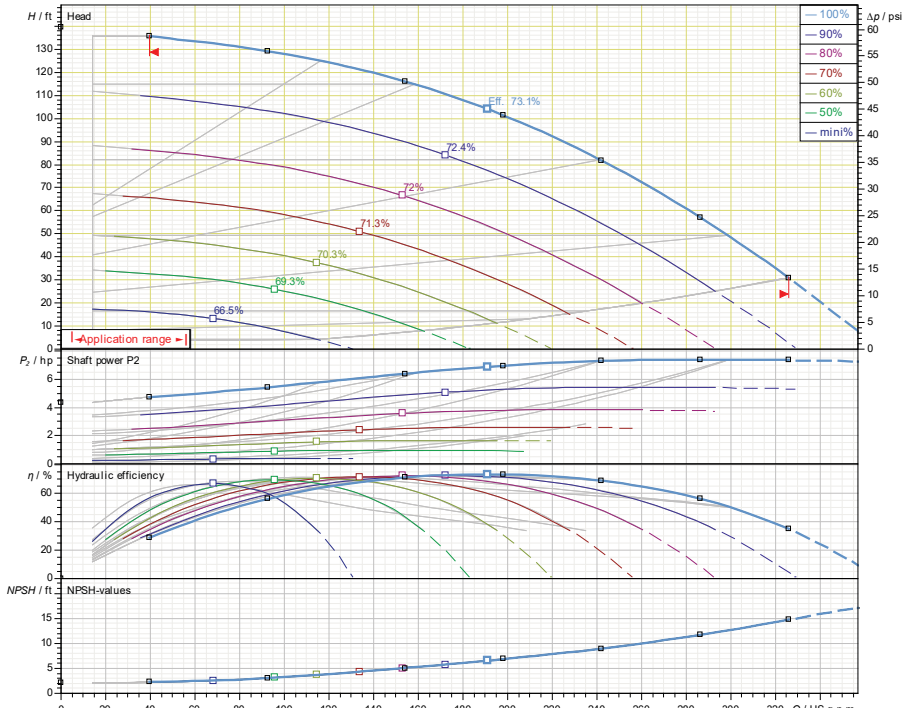
Helix EXCEL Complete V270-02/10/460

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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	Helix EXCEL Complete V270-02/10/460				10			3600

Article Number: 2700966

Helix_EXCEL_Complete_V270-02_10.1_460V



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- Condensate Return

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Max Inlet Pressure	145 PSI
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Technical Data - Panel

Power Supply	460~3
Enclosure	NEMA 12 (3R Availible Upon Request)
Standard	Meets UL 508A

Technical Data - Power Head

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Motor Protection Index	IP55
Insulation Class	F

Approval Stamp

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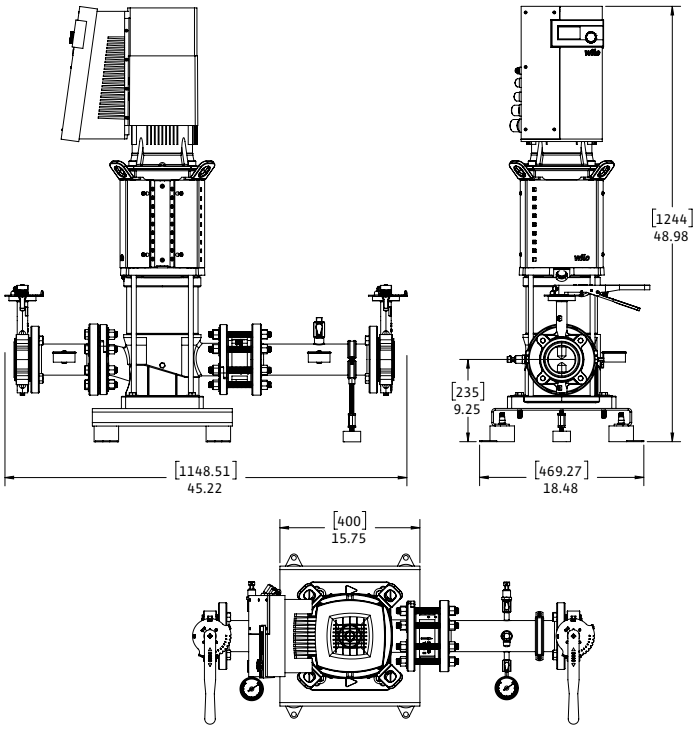
Wilo-Helix EXCEL Complete- NSF 61/372 Pressure Boosting System

Helix EXCEL Complete V270-02/10/460

460 V~3



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Helix EXCEL Complete V270-02/10/460	460 V	3"	3"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	265	359

EC Motor Data (Single Motor Operation)

	P2		Phase	Voltage	FLA (per pump)	Efficiency	Pmax
Model	**(HP)**	**(KW)**	**(~)**	**(V)**	**(A)**	**ηm 100%**	**(PSI)**
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