

Submittal Data Sheet

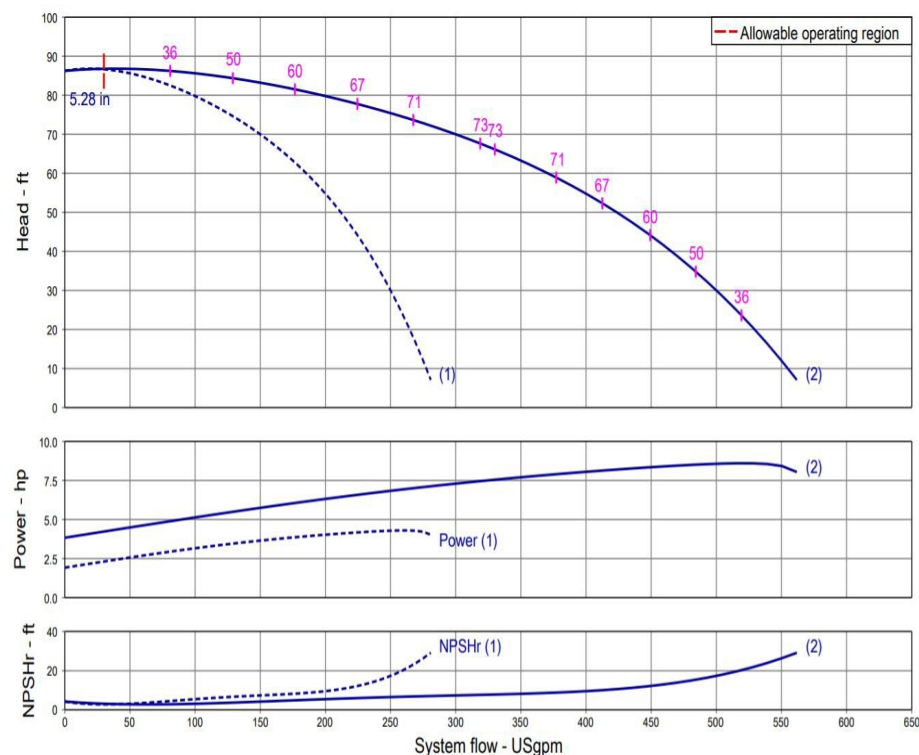
Wilo-SiBooster EXCEL - NSF 61/372 Pressure Boosting System



SiBooster-2 EXCEL V190-01-1/4.3/VCE

	Project:							
	Engineer:							
	Contractor:							
	Submitted By:				Date:			
	Approved By:				Date:			
Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	SiBooster-2 EXCEL V190-01-1/4.3/VCE				4.3			3600

Article Number: 3322348



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
Manifolds	304 SS with 150 Class ANSI Flanges
Isolation Valves	304 Stainless Steel Ball Valves
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 System Pressure	200 PSI

Technical Data - Panel

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

Technical Data - PLC

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

Motor Data

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

Approval Stamp

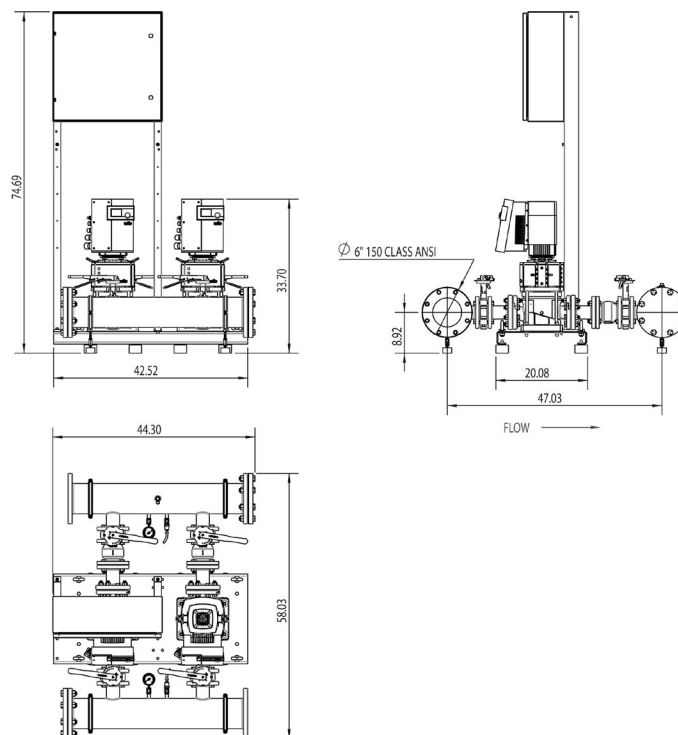
Submittal Data Sheet

Wilo-SiBooster EXCEL – NSF 61/372 Pressure Boosting System

wilo®

SiBooster-2 EXCEL V190-01-1/4.3/VCE

460 V~3



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

Dimensions and Weights

Model	Voltage (V)	H (in)	W (in)	L (in)	Dimensions-inches					Individual Pump Weight	Package Weight
					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)
SiBooster-2 EXCEL V190-01-1/4.3/VCE	460 V	74-3/4	59-3/4	44-3/4	6"-150# ANSI	2-1/2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	168	784

EC Motor Data (Single Motor Operation)

Model	P2	Phase	Voltage	FLA (per pump)	Efficiency	Pmax
	(HP)	(-)	(V)	(A)	ηm 100%	(PSI)
SiBooster-2 EXCEL V190-01-1/4.3/VCE	4.3	3	460 (±10%)	6.0	93	232

Submittal Data Sheet

Wilo-SiBooster EXCEL - NSF 61/372 Pressure Boosting System



SiBooster-2 EXCEL V190-02/2-1/5.7/VCE



Project:

Engineer:

Contractor:

Submitted By:

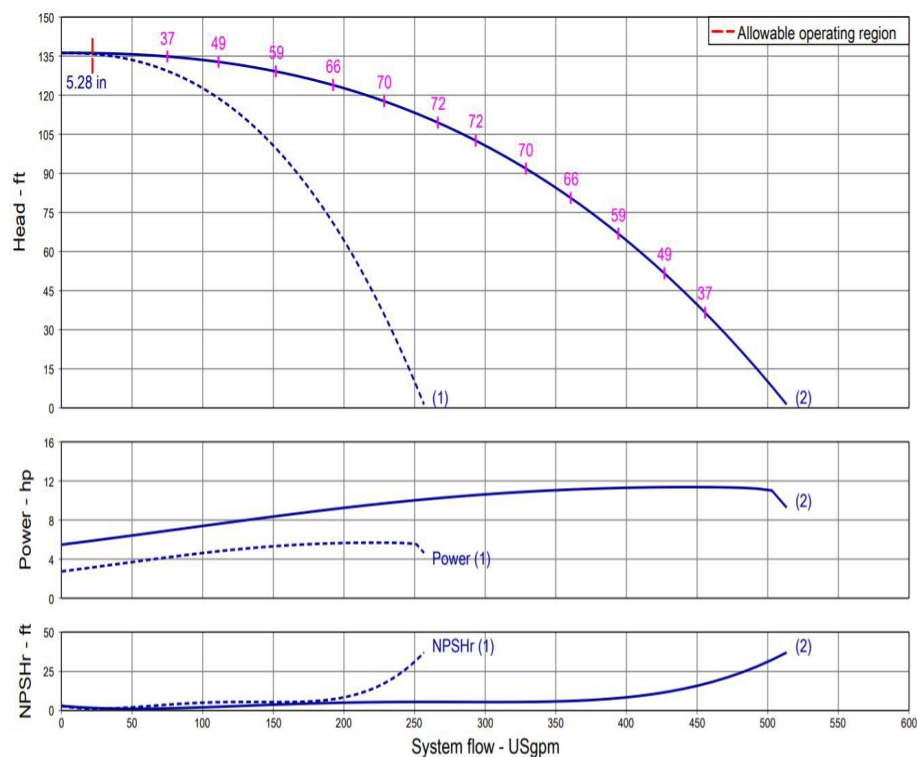
Date:

Approved By:

Date:

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	SiBooster-2 EXCEL V190-02/2-1/5.7/VCE				5.7			3600

Article Number: 3322349



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
Manifolds	304 SS with 150 Class ANSI Flanges
Isolation Valves	304 Stainless Steel Ball Valves
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 System Pressure	200 PSI

Technical Data - Panel

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

Technical Data - PLC

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

Motor Data

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

Approval Stamp

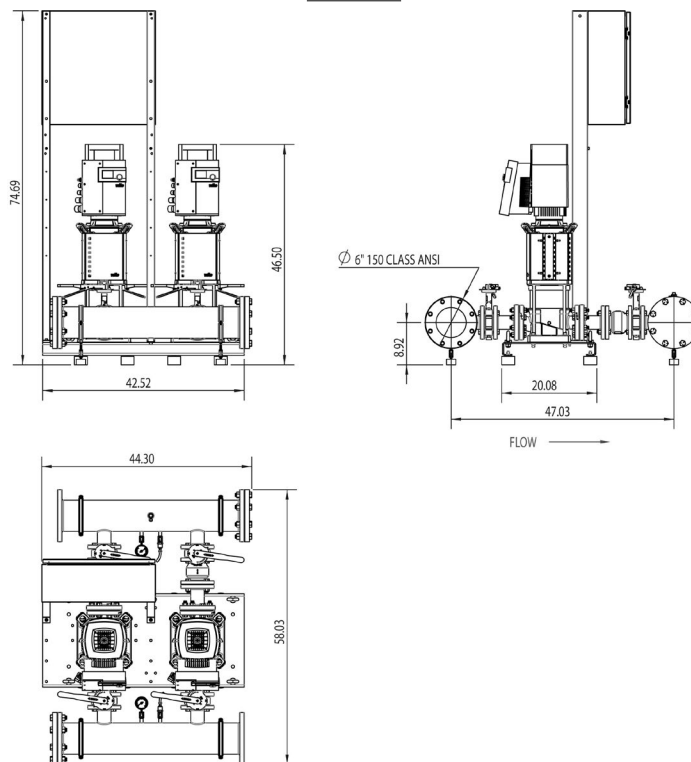
Submittal Data Sheet

Wilo-SiBooster EXCEL – NSF 61/372 Pressure Boosting System

wilo®

SiBooster-2 EXCEL V190-02/2-1/5.7/VCE

460 V~3



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

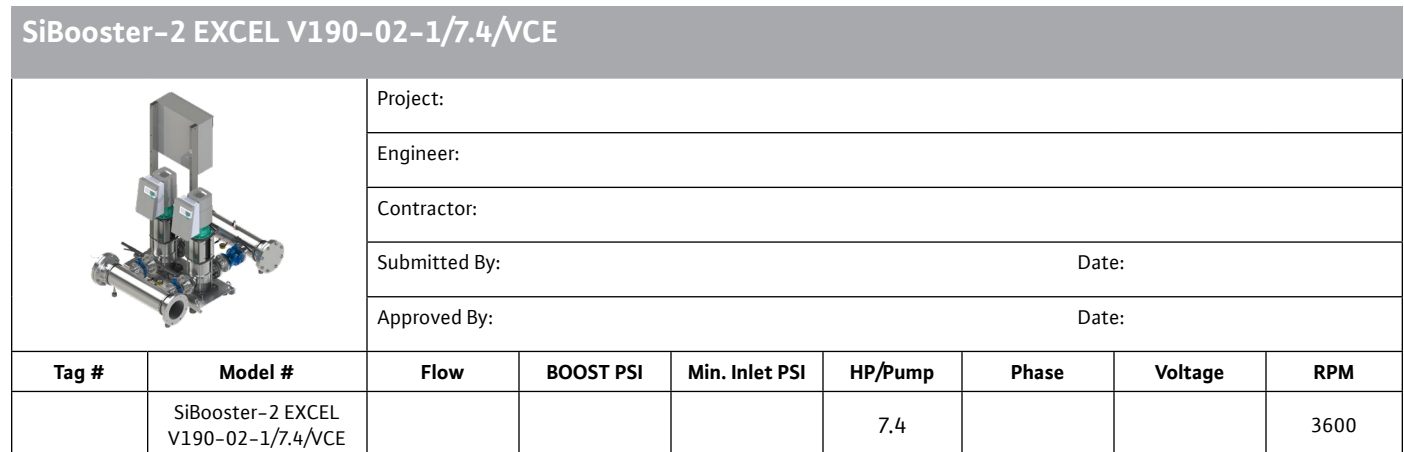
Dimensions and Weights

Model	Voltage (V)	H (in)	W (in)	L (in)	Dimensions-inches					Individual Pump Weight		Package Weight
					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)	
SiBooster-2 EXCEL V190-02/2-1/5.7/VCE	460 V	74-3/4	59-3/4	45	6"-150# ANSI	2-1/2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	185	859	

EC Motor Data (Single Motor Operation)

Model	P2	Phase	Voltage	FLA (per pump)	Efficiency	Pmax
	(HP)	(-)	(V)	(A)	ηm 100%	(PSI)
SiBooster-2 EXCEL V190-02/2-1/5.7/VCE	5.7	3	460 (±10%)	6.5	95.8	232

Wilo-SiBooster EXCEL – NSF 61/372 Pressure Boosting System



The figure consists of three vertically stacked plots sharing a common x-axis labeled "System flow - USgpm" ranging from 0 to 600.

- Top Plot: Head - ft vs System flow - USgpm**
 - The y-axis ranges from 0 to 200 ft.
 - Curve (1) is a dashed blue line that starts at approximately 165 ft and drops sharply after 150 USgpm, ending at approximately 35 USgpm and 35 ft.
 - Curve (2) is a solid blue line that starts at approximately 165 ft and decreases gradually, ending at approximately 510 USgpm and 35 ft.
 - Points on curve (2) are marked with pink vertical lines and labeled with values: 34, 48, 59, 66, 70, 72, 72, 70, 66, 59, 48, 34.
 - A red vertical line at 5.28 in is labeled "Allowable operating region".
- Middle Plot: Power - hp vs System flow - USgpm**
 - The y-axis ranges from 0 to 20 hp.
 - Curve (1) is a dashed blue line that starts at approximately 4 hp and increases slightly to about 7.5 hp at 250 USgpm.
 - Curve (2) is a solid blue line that starts at approximately 7.5 hp and increases to about 15 hp at 500 USgpm.
- Bottom Plot: NPSHr - ft vs System flow - USgpm**
 - The y-axis ranges from 0 to 30 ft.
 - Curve (1) is a dashed blue line that starts at approximately 1 ft and rises sharply after 200 USgpm, reaching about 20 ft at 250 USgpm.
 - Curve (2) is a solid blue line that starts at approximately 1 ft and increases gradually to about 20 ft at 510 USgpm.

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

Pump Volute	AIISI304 stainless steel with ANSI flanges
Impeller	3D Laser welded AISI 304 Stainless Steel
Shaft	AIISI304, AISI318 LN, or AISI431 Stainless Steel
Elastomers	EPDM
Manifolds	304 SS with 150 Class ANSI Flanges
Isolation Valves	304 Stainless Steel Ball Valves
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

Liquid Temp Range	-4°F to +248°F (Min. 32 °F for Domestic Water)
Ambient Temp Range	+32°F to +104 °F
Max System Pressure	200 PSI

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

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

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

WILO_SUB_SIBOOST2_1019

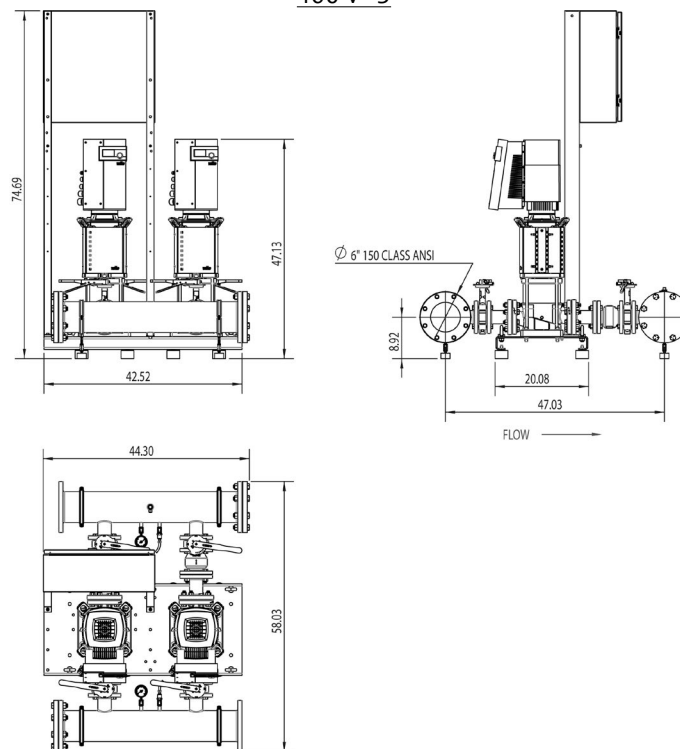
Submittal Data Sheet

Wilo-SiBooster EXCEL – NSF 61/372 Pressure Boosting System



SiBooster-2 EXCEL V190-02-1/7.4/VCE

460 V~3



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

Dimensions and Weights

Model	Voltage (V)	H (in)	W (in)	L (in)	Dimensions-inches					Individual Pump Weight	Package Weight
					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)
SiBooster-2 EXCEL V190-02-1/7.4/VCE	460 V	74-3/4	59-34	45	6"-150# ANSI	2-1/2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	218	885

EC Motor Data (Single Motor Operation)

Model	P2	Phase	Voltage	FLA (per pump)	Efficiency	Pmax
	(HP)	(-)	(V)	(A)	ηm 100%	(PSI)
SiBooster-2 EXCEL V190-02-1/7.4/VCE	7.4	3	460 (±10%)	8.2	95.8	232

Submittal Data Sheet

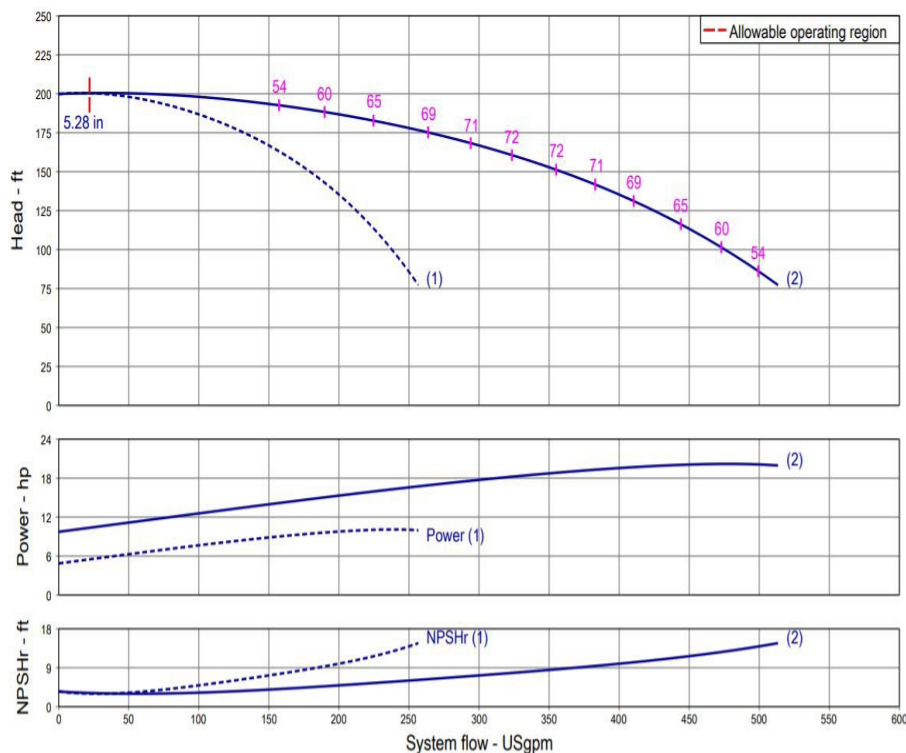
Wilo-SiBooster EXCEL - NSF 61/372 Pressure Boosting System

wilo®

SiBooster-2 EXCEL V190-02-1/10.1/VCE

	Project:							
	Engineer:							
	Contractor:							
	Submitted By:				Date:			
	Approved By:				Date:			
Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	SiBooster-2 EXCEL V190-02-1/10.1/VCE				10.1			3600

Article Number: 3322351



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
Manifolds	304 SS with 150 Class ANSI Flanges
Isolation Valves	304 Stainless Steel Ball Valves
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 System Pressure	200 PSI

Technical Data - Panel

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

Technical Data - PLC

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

Motor Data

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

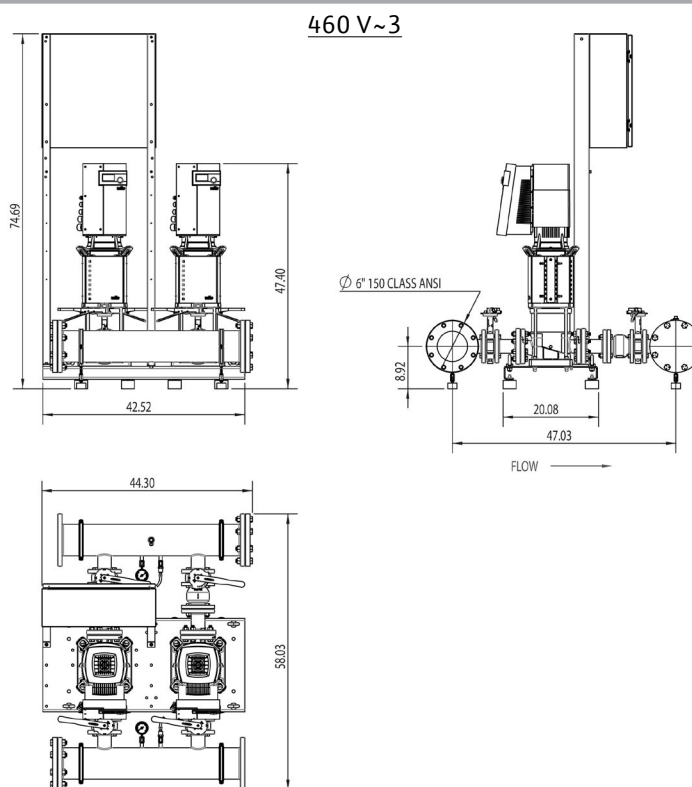
Approval Stamp

Submittal Data Sheet

Wilo-SiBooster EXCEL – NSF 61/372 Pressure Boosting System



SiBooster-2 EXCEL V190-02-1/10.1/VCE



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

Dimensions and Weights

Model	Voltage (V)	H (in)	W (in)	L (in)	Dimensions-inches					Individual Pump Weight	Package Weight
					System Header Size	Suction / Discharge Pump Size (300 Class ANSI)	Gauge Tap Size	Transducer Tap Size	Hydronumatic Tank Valve on Manifold (Plugged)	Pump Weight (lbs)	Package Weight (lbs)
SiBooster-2 EXCEL V190-02-1/10.1/VCE	460 V	74-3/4	59-3/4	45	6"-150# ANSI	2-1/2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	218	960

EC Motor Data (Single Motor Operation)

Model	P2	Phase	Voltage	FLA (per pump)	Efficiency	Pmax
	(HP)	(-)	(V)	(A)	ηm 100%	(PSI)
SiBooster-2 EXCEL V190-02-1/10.1/VCE	10.1	3	460 (±10%)	10.9	96.4	232