

Submittal Data Sheet

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



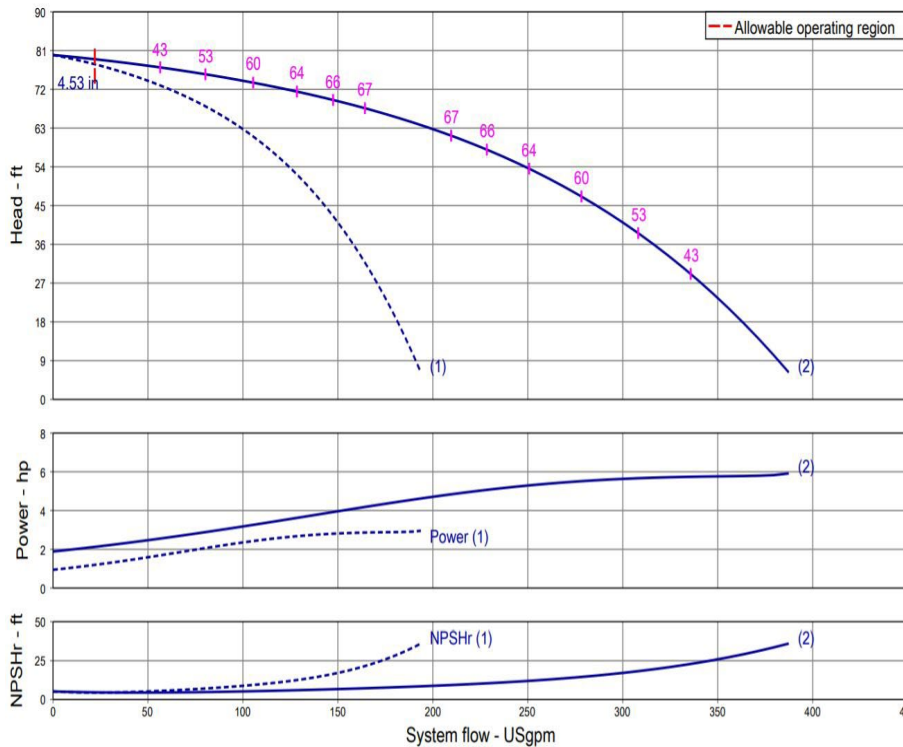
SiBooster-2 EXCEL V110-01-1/3/VCE



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	SiBooster-2 EXCEL V110-01-1/3/VCE				3			3600

Article Number: 3322336



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

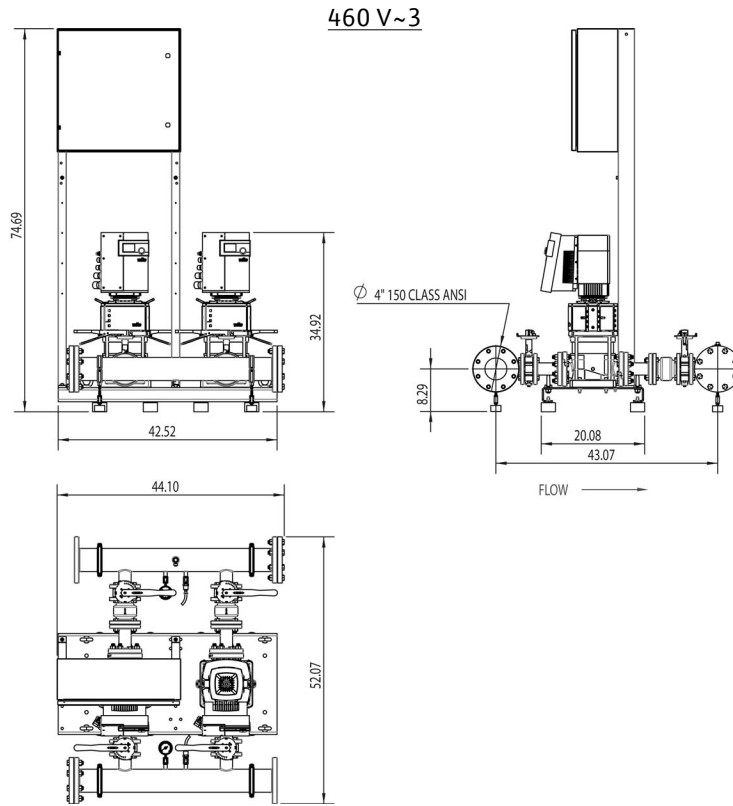
Approval Stamp

Submittal Data Sheet

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



SiBooster-2 EXCEL V110-01-1/3/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)	Dimensions-inches								Individual Pump Weight	Package Weight
		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)
SiBooster-2 EXCEL V110-01-1/3/VCE	460 V	74-3/4	53-1/8	44-1/2	4"-150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	150	600

EC Motor Data (Single Motor Operation)

Model	P2 (HP)	Phase (-)	Voltage (V)	FLA (per pump) (A)	Efficiency η m 100%	Pmax (PSI)
SiBooster-2 EXCEL V110-01-1/3/VCE	3	3	460 ($\pm 10\%$)	4.4	93	232

Submittal Data Sheet

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



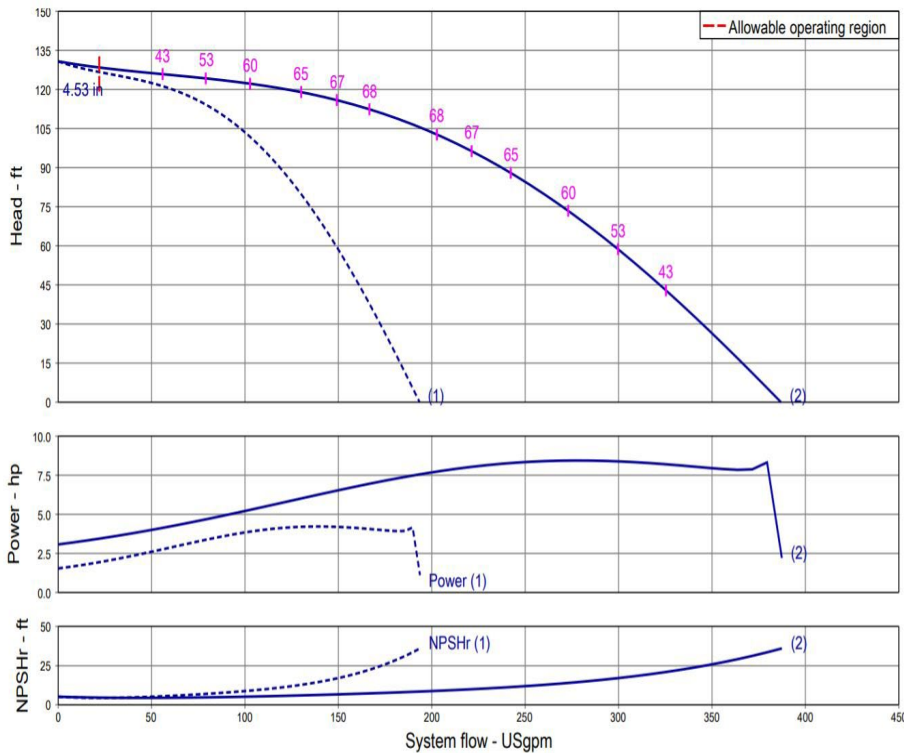
SiBooster-2 EXCEL V110-02-1/4.3/VCE



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 V110-02-1/4.3/VCE				4.3			3600

Article Number: 3322337



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

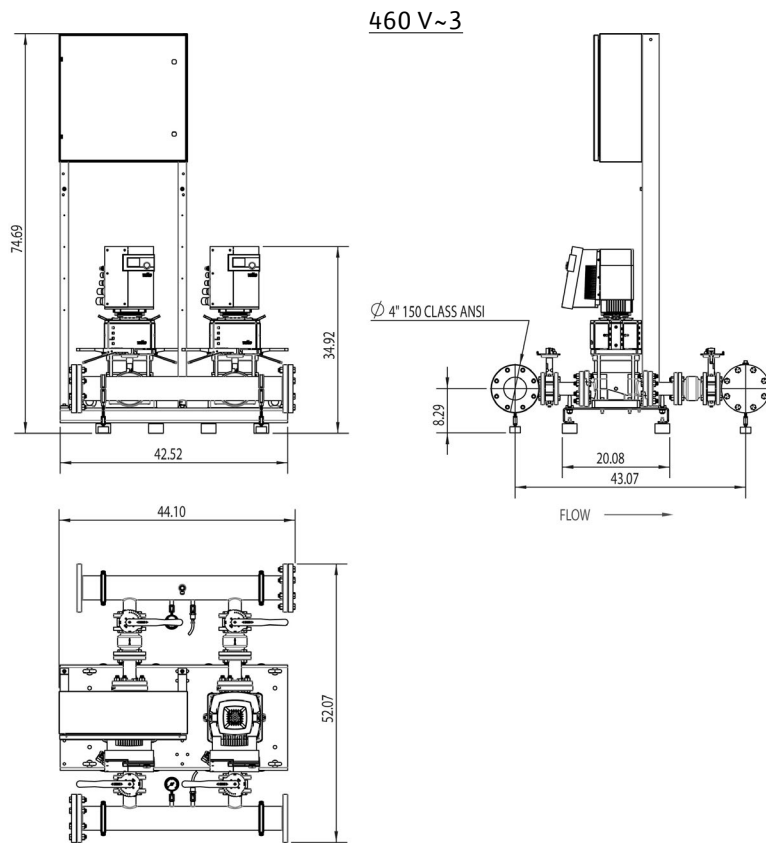
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Wilo-SiBooster EXCEL - NSF 61/372 Pressure Boosting System



SiBooster-2 EXCEL V110-02-1/4.3/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)	Dimensions-inches							Individual Pump Weight		Package Weight
		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)
SiBooster-2 EXCEL V110-02-1/4.3/VCE	460 V	74-3/4	53	44-1/2	4"-150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	170	644

EC Motor Data (Single Motor Operation)

Model	P2 (HP)	Phase (-)	Voltage (V)	FLA (per pump) (A)	Efficiency η_m 100%	Pmax (PSI)
SiBooster-2 EXCEL V110-02-1/4.3/VCE	4.3	3	460 ($\pm 10\%$)	6.0	93	232

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



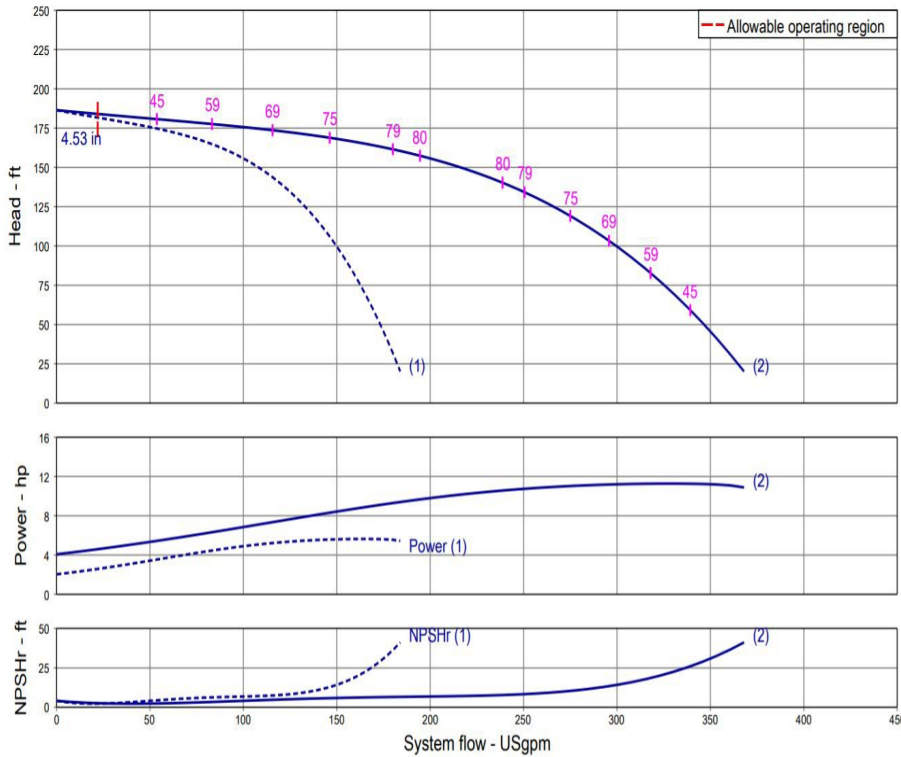
SiBooster-2 EXCEL V110-03-1/5.7/VCE



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 V110-03-1/5.7/VCE				5.7			3600

Article Number: 3322338



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

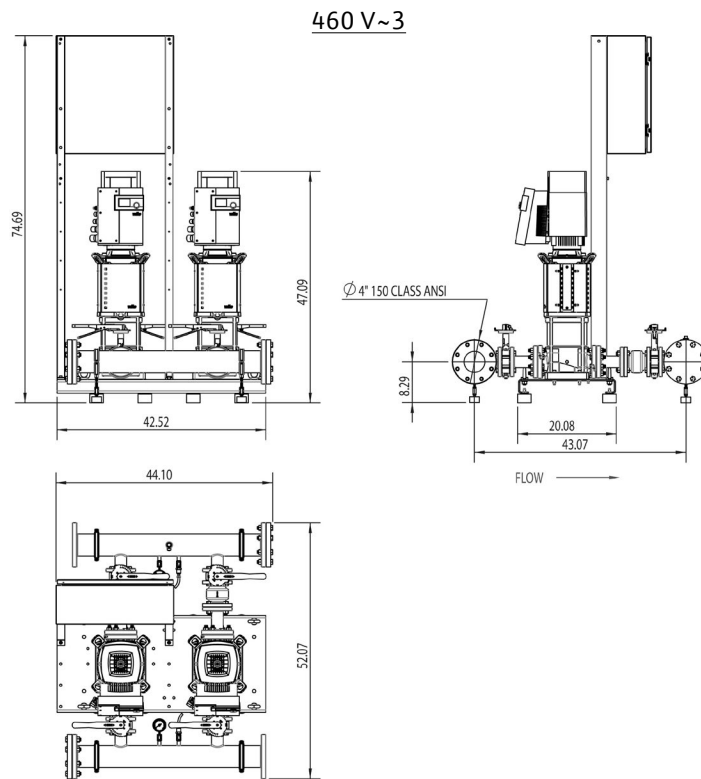
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Wilo-SiBooster EXCEL - NSF 61/372 Pressure Boosting System



SiBooster-2 EXCEL V110-03-1/5.7/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 V110-03-1/5.7/VCE	460 V	74-3/4	53	44-3/4	4"-150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	185	670

EC Motor Data (Single Motor Operation)

Model	P2 (HP)	Phase (-)	Voltage (V)	FLA (per pump) (A)	Efficiency η _m 100%	P _{max} (PSI)
SiBooster-2 EXCEL V110-03-1/5.7/VCE	5.7	3	460 (±10%)	6.5	95.8	232

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



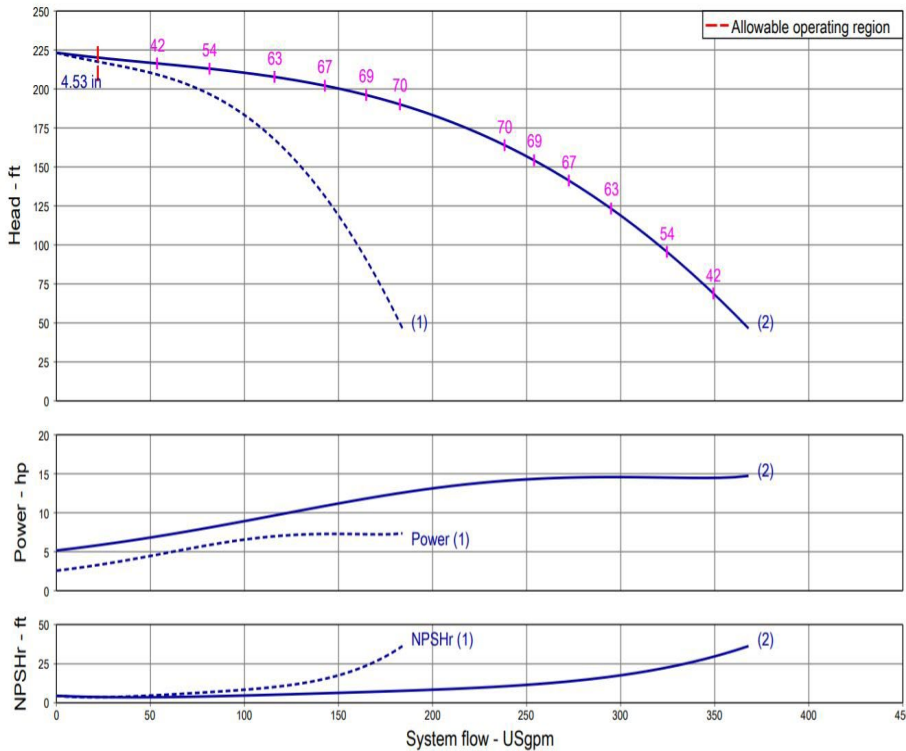
SiBooster-2 EXCEL V110-03-1/7.4/VCE



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	SiBooster-2 EXCEL V110-03-1/7.4/VCE				7.4			3600

Article Number: 3322339



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

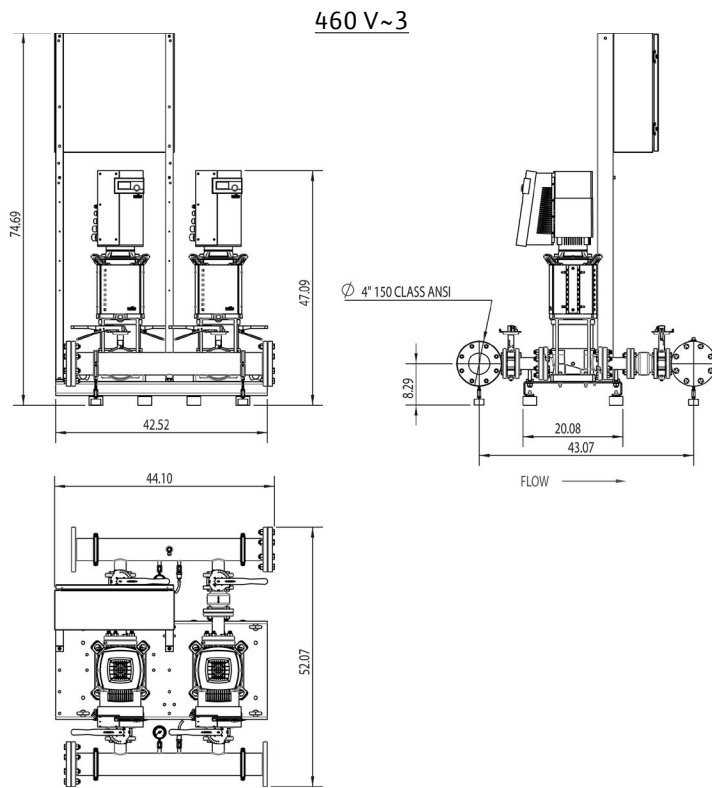
Approval Stamp

Submittal Data Sheet

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



SiBooster-2 EXCEL V110-03-1/7.4/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)	Dimensions-inches								Individual Pump Weight	Package Weight
		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)
SiBooster-2 EXCEL V110-03-1/7.4/VCE	460 V	74-3/4	45-3/8	47-7/8	4"-150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	214	697

EC Motor Data (Single Motor Operation)

Model	P2 (HP)	Phase (-)	Voltage (V)	FLA (per pump) (A)	Efficiency $\eta_{m 100\%}$	Pmax (PSI)
SiBooster-2 EXCEL V110-03-1/7.4/VCE	7.4	3	460 ($\pm 10\%$)	8.2	95.8	232

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



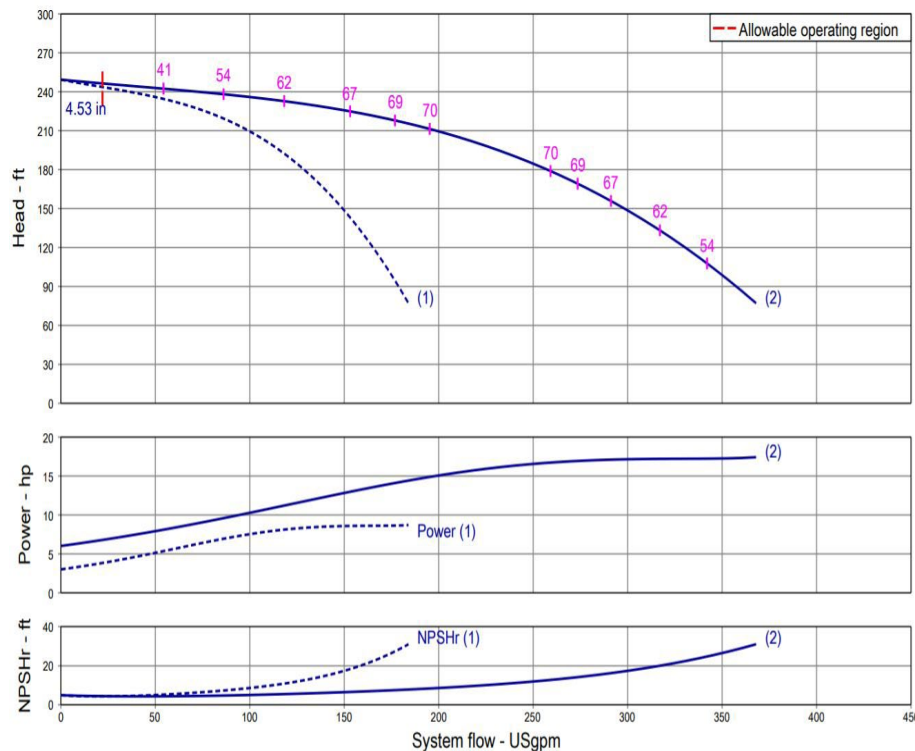
SiBooster-2 EXCEL V110-03-1/8.7/VCE



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	SiBooster-2 EXCEL V110-03-1/8.7/VCE				8.7			3600

Article Number: 3322340



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 - 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

Technical Data - Panel

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

Approval Stamp

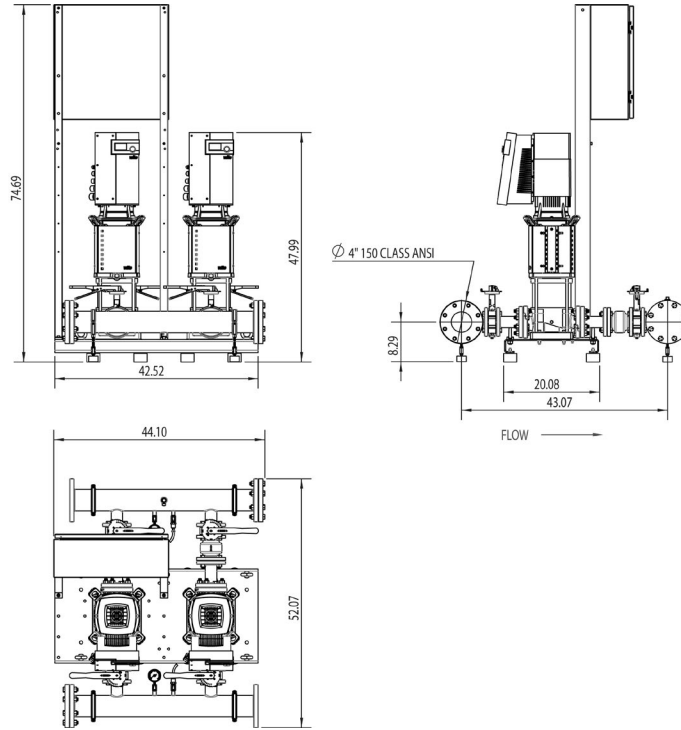
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Wilo-SiBooster EXCEL - NSF 61/372 Pressure Boosting System



SiBooster-2 EXCEL V110-03-1/8.7/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 V110-03-1/8.7/VCE	460 V	74-3/4	45-3/8	47-7/8	4"-150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	221	754

EC Motor Data (Single Motor Operation)

Model	P2 (HP)	Phase (-)	Voltage (V)	FLA (per pump) (A)	Efficiency η _m 100%	P _{max} (PSI)
SiBooster-2 EXCEL V110-03-1/8.7/VCE	8.7	3	460 (±10%)	9.7	96.5	232

Submittal Data Sheet

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



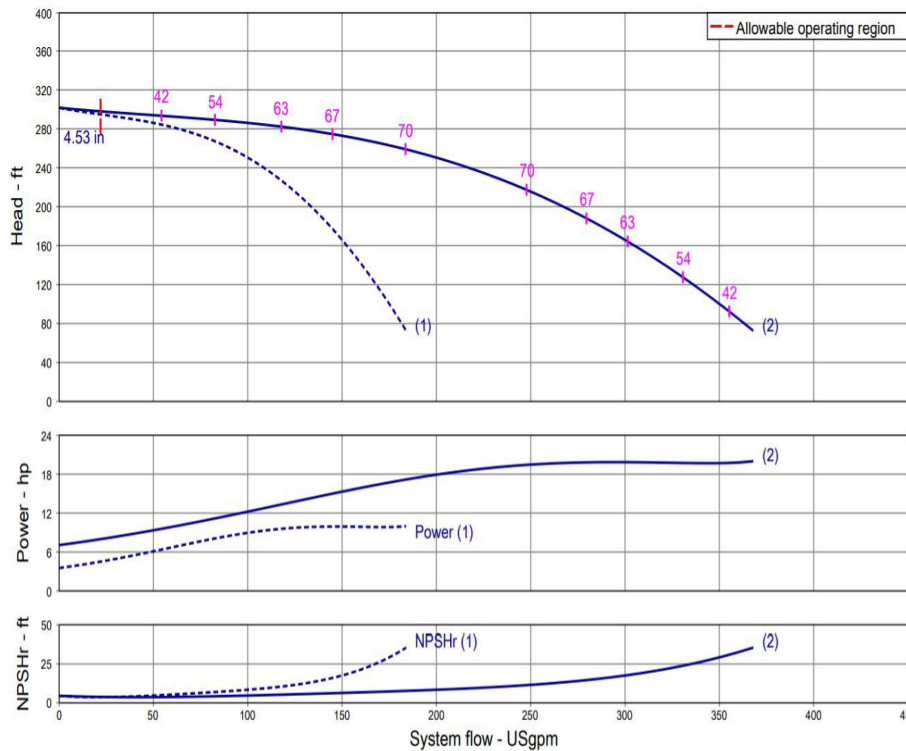
SiBooster-2 EXCEL V110-04-1/10.1/VCE



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 V110-04-1/10.1/VCE				10.1			3600

Article Number: 3322341



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 - 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

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

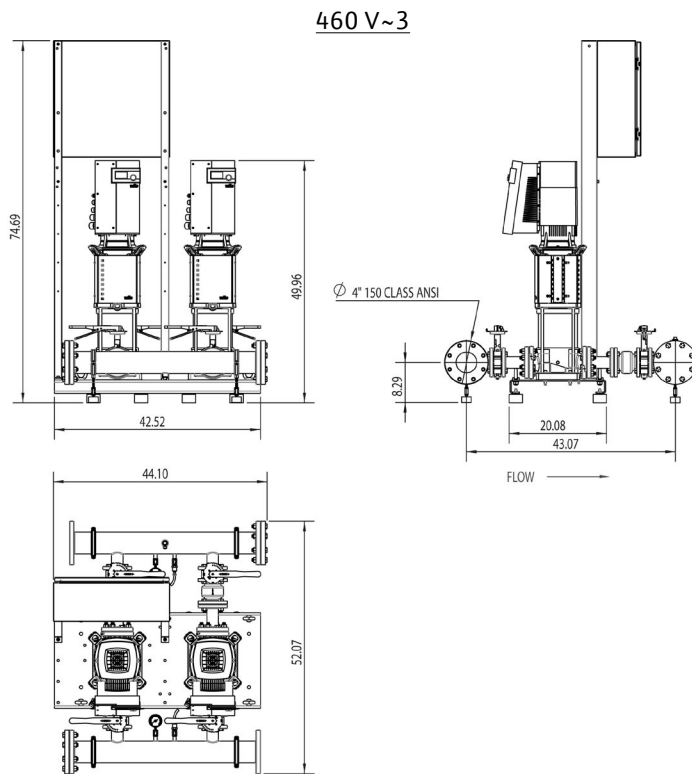
Approval Stamp

Submittal Data Sheet

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



SiBooster-2 EXCEL V110-04-1/10.1/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 V110-04-1/10.1/VCE	460 V	74-3/4	53	44-3/4	4"-150# ANSI	2"	1/4" FNPT	1/4" FNPT	3/4" MNPT x 3/4" FNPT	229	767

EC Motor Data (Single Motor Operation)

Model	P2 (HP)	Phase (-)	Voltage (V)	FLA (per pump) (A)	Efficiency η _m 100%	P _{max} (PSI)
SiBooster-2 EXCEL V110-04-1/10.1/VCE	10.1	3	460 (±10%)	10.9	96.4	232