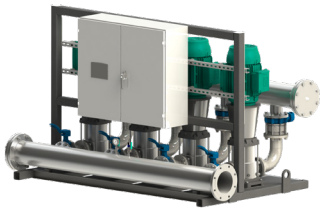
Submittal Data Sheet

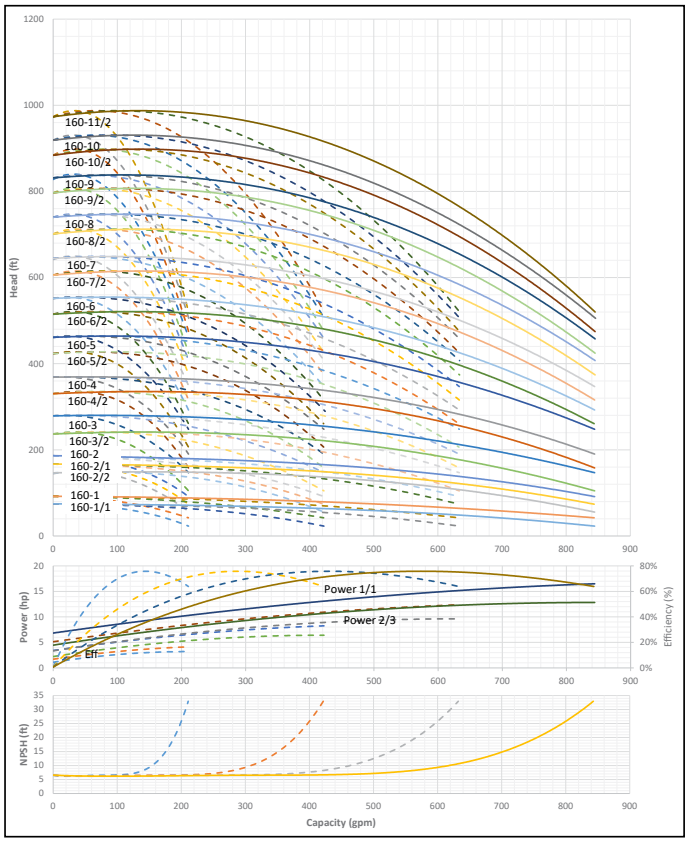
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-160



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO4 MVI-160				1			3600



Applications

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

Materials of Construction

Volute	AISI 304 Stainless Steel with Cast Iron ANSI flanges
Impeller	AISI 304 Stainless Steel
Shaft	ANSI 431 Stainless Steel
Elastomers	EPDM
Manifold	AISI 304 Stainless Steel
Suction Isolation Valves	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components
Discharge Isolation Valve	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components or 300# 304SS Ball Valve
Check Valve	Wafer Style, 316 Stainless Steel internals, non-slam, plunger type with EPDM seal/ cast iron body
Mechanical Seal	Frame and Springs 304SS
Pressure Transducers	¼" MNPT, 316 Stainless Steel
Pressure Gauges	¼" MNPT, 304 Stainless Steel Housing with 316 Stainless Steel wetted parts
System Base	Epoxy Coated A-500 Steel Tubing and A36 C-Channel/Plates

Technical Data – Operational Ranges

Liquid Temp Range	5°F to 248°F (Min. 32 °F for Domestic Water)
Ambient Temp Range	+32°F to +104 °F

Technical Data – Panel

Liquid Temp Range	208-230/460~3 or 575~3
Enclosure	NEMA 3R up to 20 HP NEMA 12 for 25 HP and above (NEMA 4 and 4X available upon request)
Standard	Meets UL 508A
Variable Frequency Drives	Danfoss FC-101: • 1 HP to 3 HP 208-230V~1 IN / 208-230V~3 OUT • 1 HP to 60 HP 208-230V~3 • 1 HP to 100 HP 460V~3 • 1 HP to 100 HP 575V~3

Technical Data – PLC

User Interface	7" Diagonal Color LCD Touchscreen
Display Resolution	800 x 480 Pixels
Supply Voltage	24VDC
Max. Current Consumption	320mA@24V
Number of Analog Inputs	4
Number of Analog Outputs	4
Number of Digital Inputs	18
Number of Digital Outputs	17
Onboard Communications	Modbus Protocol (Optional Gateways for BACnet, LonWorks, and CANbus)
Ethernet Port	RJ45 port capable of transmitting data 10/100Mbps
Additional Ports	2.0 USB Port; Micro-SD Port

Motor Data

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

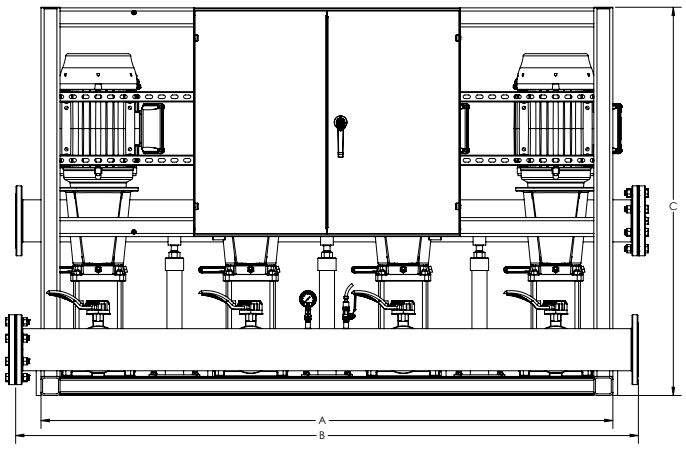
Approval Stamp

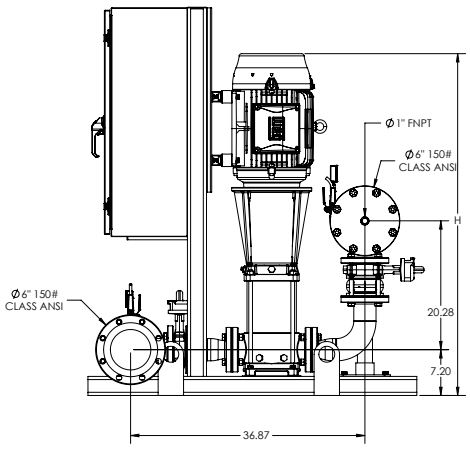
Submittal Data Sheet

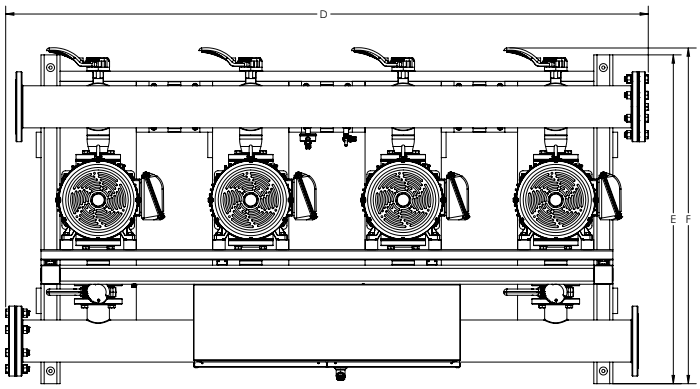
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-160

150# Discharge







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

CO4 MVI-160															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-160-1/1	3353158	3	208V-230V	~1 IN / ~3 OUT	6" 150#	232	65.25	73.25	61.1	76.38	48	48.77	36.56	1969.14	8.12-7.34	61.8
CO4 MVI-160-1/1	3353575	3	208V-230V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	36.56	1922.47	8.12-7.34	39.4
CO4 MVI-160-1	3353576	5	208V-230V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	38.14	1983.27	13.1-11.8	61.8
CO4 MVI-160-2/2	3353577	7.5	208V-230V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	42.59	2514.88	19.2-17.3	85-73
CO4 MVI-160-2/1	3353578	7.5	208V-230V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	42.59	2514.88	19.2-17.3	85-73
CO4 MVI-160-2	3353579	7.5	208V-230V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	42.59	2514.88	19.2-17.3	85-73
CO4 MVI-160-3/2	3353580	10	208V-230V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	46.89	2649.48	25.4-23	114.2-97
CO4 MVI-160-3	3353581	15	208V-230V	~3	6" 150#	232	90	98	61.1	101.13	51.75	52.88	53.8	3467.74	38.5-34.8	165-153.8
CO4 MVI-160-4/2	3353582	15	208V-230V	~3	6" 150#	232	90	98	61.1	101.13	51.75	52.88	56.55	3493.82	38.5-34.8	165-153.8
CO4 MVI-160-4	3353583	15	208V-230V	~3	6" 150#	232	90	98	61.1	101.13	51.75	52.88	56.55	3494.18	38.5-34.8	165-153.8
CO4 MVI-160-5/2	3353584	20	208V-230V	~3	6" 150#	232	90	98	87.1	101.13	51.75	56.26	59.31	3373.63	50.2-45.4	211.8
CO4 MVI-160-5	3353585	20	208V-230V	~3	6" 150#	232	90	98	87.1	101.13	51.75	56.26	59.31	3374.51	50.2-45.4	211.8
CO4 MVI-160-1/1	3354064	3	460V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	36.56	1922.47	3.67	20.2
CO4 MVI-160-1	3354065	5	460V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	38.14	1983.27	5.9	33.8
CO4 MVI-160-2/2	3354066	7.5	460V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	42.59	2215.07	8.67	45
CO4 MVI-160-2/1	3354067	7.5	460V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	42.59	2215.07	8.67	45
CO4 MVI-160-2	3354068	7.5	460V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	42.59	2215.07	8.67	45

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Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-160 150# Discharge															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-160-3/2	3354069	10	460V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	46.89	2349.67	11.5	57
CO4 MVI-160-3	3354070	15	460V	~3	6" 150#	232	90	98	61.1	101.13	51.75	52.88	53.8	3467.74	17.4	74.6
CO4 MVI-160-4/2	3354071	15	460V	~3	6" 150#	232	90	98	61.1	101.13	51.75	52.88	56.55	3493.82	17.4	74.6
CO4 MVI-160-4	3354072	15	460V	~3	6" 150#	232	90	98	61.1	101.13	51.75	52.88	56.55	3494.18	17.4	74.6
CO4 MVI-160-5/2	3354073	20	460V	~3	6" 150#	232	90	98	61.1	101.13	51.75	52.88	59.31	3552.62	22.7	99.8
CO4 MVI-160-5	3354074	20	460V	~3	6" 150#	232	90	98	61.1	101.13	51.75	52.88	59.31	3553.5	22.7	99.8
CO4 MVI-160-1/1	3354553	3	575V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	36.56	1926.51	2.9	15
CO4 MVI-160-1	3354554	5	575V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	38.14	1986.91	4.72	32.4
CO4 MVI-160-2/2	3354555	7.5	575V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	42.59	2226.31	6.94	34.2
CO4 MVI-160-2/1	3354556	7.5	575V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	42.59	2226.31	6.94	34.2
CO4 MVI-160-2	3354557	7.5	575V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	42.59	2226.31	6.94	34.2
CO4 MVI-160-3/2	3354558	10	575V	~3	6" 150#	232	65.25	73.25	61.1	76.38	51.75	52.88	46.89	2368.91	9.2	46.6
CO4 MVI-160-3	3354559	15	575V	~3	6" 150#	232	90	98	69.1	101.13	51.75	52.88	53.8	3023.21	13.8	63.8
CO4 MVI-160-4/2	3354560	15	575V	~3	6" 150#	232	90	98	69.1	101.13	51.75	52.88	56.55	3049.29	13.8	63.8
CO4 MVI-160-4	3354561	15	575V	~3	6" 150#	232	90	98	69.1	101.13	51.75	52.88	56.55	3049.65	13.8	63.8
CO4 MVI-160-5/2	3354562	20	575V	~3	6" 150#	232	90	98	69.1	101.13	51.75	52.88	59.31	3108.09	18.2	86.6
CO4 MVI-160-5	3354563	20	575V	~3	6" 150#	232	90	98	69.1	101.13	51.75	52.88	59.31	3108.97	18.2	86.6

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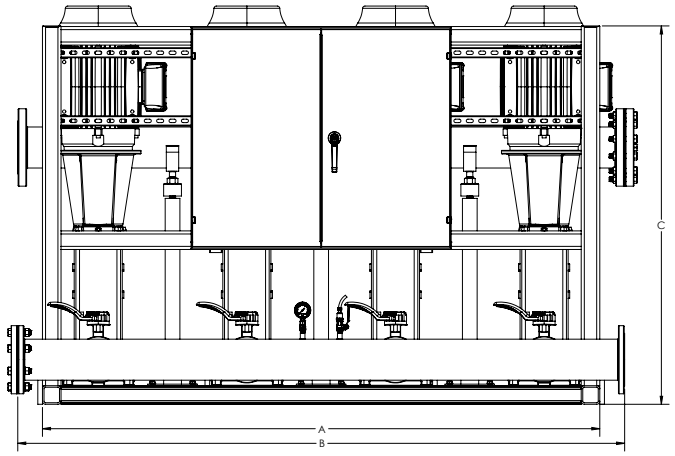
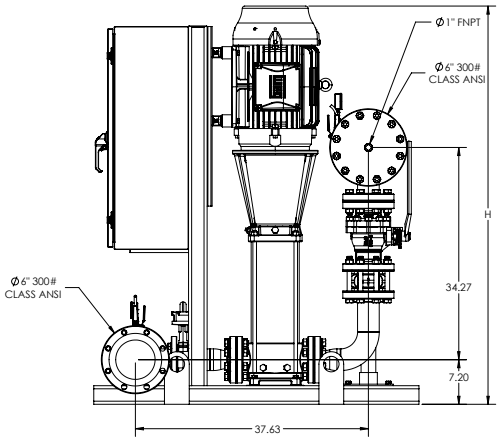
Submittal Data Sheet

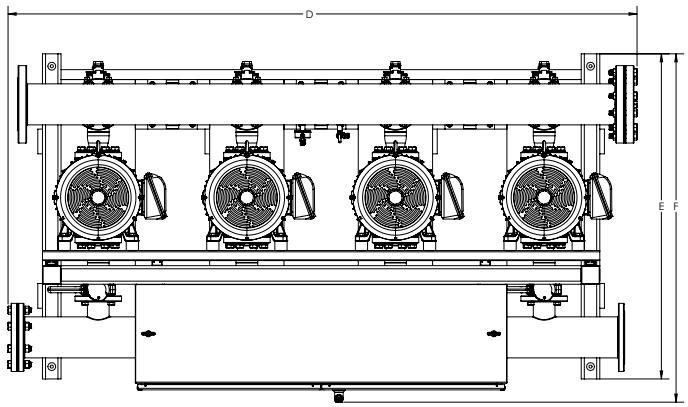
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-160

300# Discharge







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

CO4 MVI-160															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-160-6/2	3353586	25	208V-230V	~3	6" 300#	435	90	98	87.1	101.57	52.51	56.25	64.32	4044.15	63.0-57.6	261
CO4 MVI-160-6	3353587	25	208V-230V	~3	6" 300#	435	90	98	87.1	101.57	52.51	56.25	64.32	4045.03	63.0-57.6	261
CO4 MVI-160-7/2	3353588	30	208V-230V	~3	6" 300#	435	90	98	103.1	101.57	52.51	56.25	67.08	4142.86	76.7-68.4	305
CO4 MVI-160-7	3353589	30	208V-230V	~3	6" 300#	435	90	98	103.1	101.57	52.51	56.25	67.08	4143.74	76.7-68.4	305
CO4 MVI-160-8/2	3353590	30	208V-230V	~3	6" 300#	435	90	98	103.1	101.57	52.51	56.25	69.83	4171.58	76.7-68.4	305
CO4 MVI-160-8	3353591	40	208V-230V	~3	6" 300#	435	99	106.94	103.1	110.57	52.26	57.26	72.38	4835.12	101-92.6	415.8
CO4 MVI-160-9/2	3353592	40	208V-230V	~3	6" 300#	435	99	106.94	103.1	110.57	52.26	57.26	75.14	4859.12	101-92.6	415.8
CO4 MVI-160-9	3353593	40	208V-230V	~3	6" 300#	435	99	106.94	103.1	110.57	52.26	57.26	75.14	4859.12	101-92.6	415.8
CO4 MVI-160-10/2	3353594	40	208V-230V	~3	6" 300#	435	99	106.94	103.1	110.57	52.26	57.26	77.9	4883.12	101-92.6	415.8
CO4 MVI-160-10	3353595	40	208V-230V	~3	6" 300#	435	99	106.94	103.1	110.57	52.26	57.26	77.9	4883.12	101-92.6	415.8
CO4 MVI-160-11/2	3353596	40	208V-230V	~3	6" 300#	435	99	106.94	103.1	110.57	52.26	57.26	80.65	4907.12	101-92.6	415.8
CO4 MVI-160-6/2	3354075	25	460V	~3	6" 300#	435	90	98	61.1	101.57	52.51	52.51	64.32	4223.15	28.8	118.2
CO4 MVI-160-6	3354076	25	460V	~3	6" 300#	435	90	98	61.1	101.57	52.51	52.51	64.32	4224.03	28.8	118.2
CO4 MVI-160-7/2	3354077	30	460V	~3	6" 300#	435	90	98	63.1	101.57	52.51	52.51	67.08	4296.83	34.2	139.4
CO4 MVI-160-7	3354078	30	460V	~3	6" 300#	435	90	98	63.1	101.57	52.51	52.51	67.08	4297.71	34.2	139.4
CO4 MVI-160-8/2	3354079	30	460V	~3	6" 300#	435	90	98	66.1	101.57	52.51	52.51	69.83	4329.92	34.2	139.4
CO4 MVI-160-8	3354080	40	460V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	72.38	4789.69	46.3	197.8

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Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-160 300# Discharge															TEFC Motor Data (Per Motor)	
								Dimensions – Inches (In)							Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-160-9/2	3354081	40	460V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	75.14	4813.69	46.3	197.8
CO4 MVI-160-9	3354082	40	460V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	75.14	4813.69	46.3	197.8
CO4 MVI-160-10/2	3354083	40	460V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	77.9	4837.69	46.3	197.8
CO4 MVI-160-10	3354084	40	460V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	77.9	4837.69	46.3	197.8
CO4 MVI-160-11/2	3354085	40	460V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	80.65	4861.69	46.3	197.8
CO4 MVI-160-6/2	3354564	25	575V	~3	6" 300#	435	90	98	87.1	101.57	52.51	56.25	64.32	4016.15	23	103.8
CO4 MVI-160-6	3354565	25	575V	~3	6" 300#	435	90	98	87.1	101.57	52.51	56.25	64.32	4017.03	23	103.8
CO4 MVI-160-7/2	3354566	30	575V	~3	6" 300#	435	90	98	87.1	101.57	52.51	56.25	67.08	4118.91	27.4	127
CO4 MVI-160-7	3354567	30	575V	~3	6" 300#	435	90	98	87.1	101.57	52.51	56.25	67.08	4119.79	27.4	127
CO4 MVI-160-8/2	3354568	30	575V	~3	6" 300#	435	90	98	87.1	101.57	52.51	56.25	69.83	4147.63	27.4	127
CO4 MVI-160-8	3354569	40	575V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	72.38	4805.69	37	172.6
CO4 MVI-160-9/2	3354570	40	575V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	75.14	4829.69	37	172.6
CO4 MVI-160-9	3354571	40	575V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	75.14	4829.69	37	172.6
CO4 MVI-160-10/2	3354572	40	575V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	77.9	4853.69	37	172.6
CO4 MVI-160-10	3354573	40	575V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	77.9	4853.69	37	172.6
CO4 MVI-160-11/2	3354574	40	575V	~3	6" 300#	435	99	106.94	87.1	110.57	52.26	57.26	80.65	4877.69	37	172.6
CO4 MVI-160-5	3354563	20	575V	~3	6" 150#	232	90	98	69.1	101.13	51.75	52.88	59.31	3108.97	18.2	86.6

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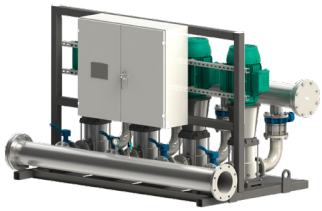
Submittal Data Sheet

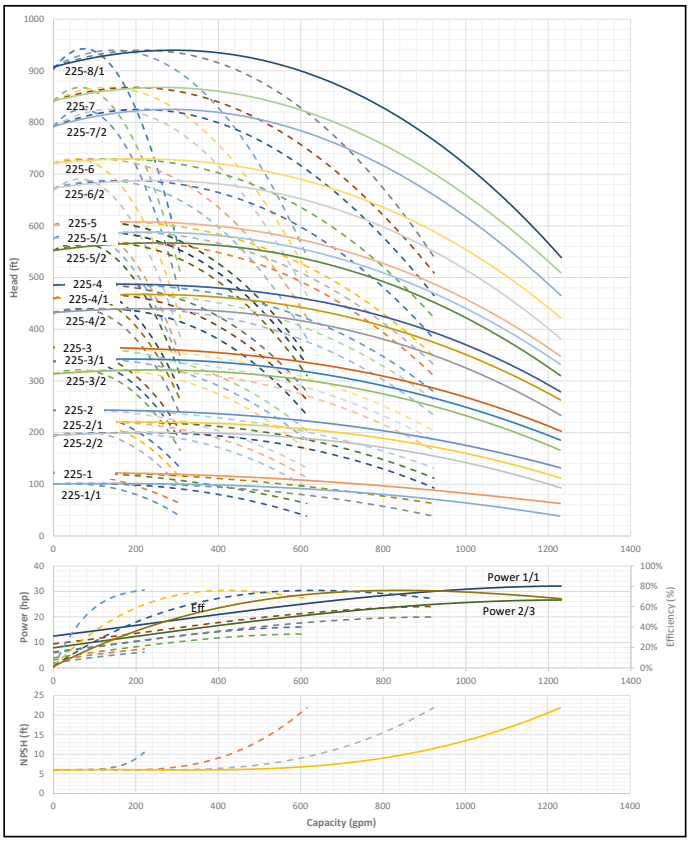
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-225



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO4 MVI-225				1			3600



Applications

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

Materials of Construction

Volute	AISI 304 Stainless Steel with Cast Iron ANSI flanges
Impeller	AISI 304 Stainless Steel
Shaft	ANSI 431 Stainless Steel
Elastomers	EPDM
Manifold	AISI 304 Stainless Steel
Suction Isolation Valves	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components
Discharge Isolation Valve	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components or 300# 304SS Ball Valve
Check Valve	Wafer Style, 316 Stainless Steel internals, non-slam, plunger type with EPDM seal/ cast iron body
Mechanical Seal	Frame and Springs 304SS
Pressure Transducers	¼" MNPT, 316 Stainless Steel
Pressure Gauges	¼" MNPT, 304 Stainless Steel Housing with 316 Stainless Steel wetted parts
System Base	Epoxy Coated A-500 Steel Tubing and A36 C-Channel/Plates

Technical Data – Operational Ranges

Liquid Temp Range	5°F to 248°F (Min. 32 °F for Domestic Water)
Ambient Temp Range	+32°F to +104 °F

Technical Data – Panel

Liquid Temp Range	208-230/460~3 or 575~3
Enclosure	NEMA 3R up to 20 HP NEMA 12 for 25 HP and above (NEMA 4 and 4X available upon request)
Standard	Meets UL 508A
Variable Frequency Drives	Danfoss FC-101: • 1 HP to 3 HP 208-230V~1 IN / 208-230V~3 OUT • 1 HP to 60 HP 208-230V~3 • 1 HP to 100 HP 460V~3 • 1 HP to 100 HP 575V~3

Technical Data – PLC

User Interface	7" Diagonal Color LCD Touchscreen
Display Resolution	800 x 480 Pixels
Supply Voltage	24VDC
Max. Current Consumption	320mA@24V
Number of Analog Inputs	4
Number of Analog Outputs	4
Number of Digital Inputs	18
Number of Digital Outputs	17
Onboard Communications	Modbus Protocol (Optional Gateways for BACnet, LonWorks, and CANbus)
Ethernet Port	RJ45 port capable of transmitting data 10/100Mbps
Additional Ports	2.0 USB Port; Micro-SD Port

Motor Data

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

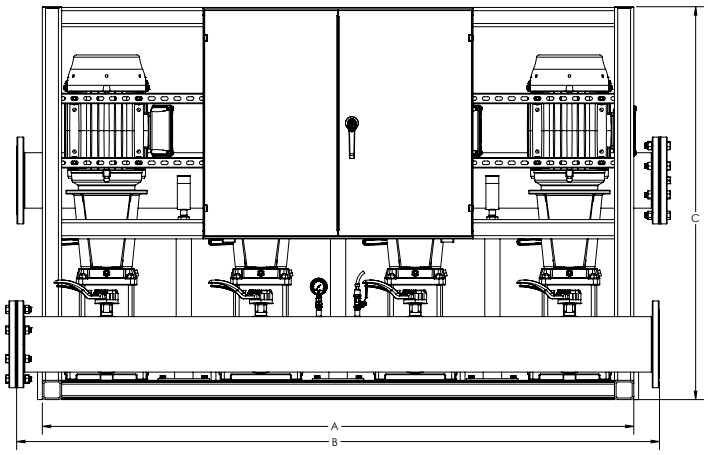
Approval Stamp

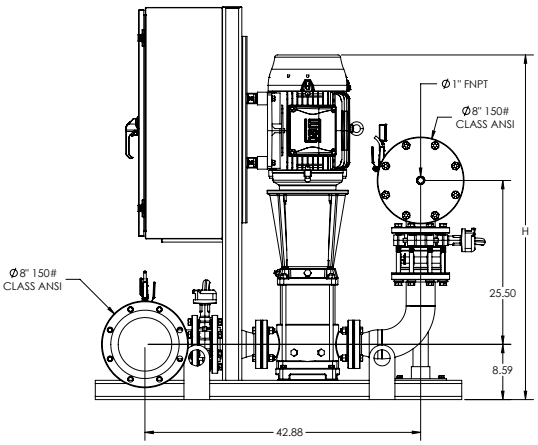
Submittal Data Sheet

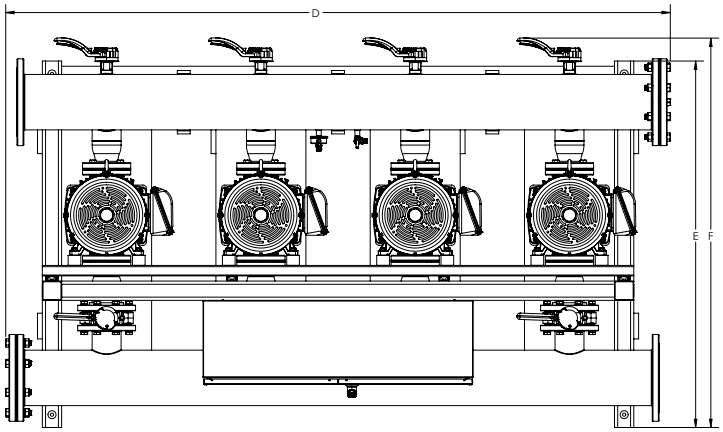
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-225

150# Discharge







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

CO3 MVI-160

															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-225-1/1	3353597	7.5	208V-230V	~3	8" 150#	232	67.25	75.25	61.1	78.62	57	60.62	42	2863.06	19.2-17.3	85-73
CO4 MVI-225-1	3353598	7.5	208V-230V	~3	8" 150#	232	67.25	75.25	61.1	78.62	57	60.62	42	2863.18	19.2-17.3	85-73
CO4 MVI-225-2/2	3353599	15	208V-230V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.07	38.5-34.8	165-153.8
CO4 MVI-225-2/1	3353600	15	208V-230V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.15	38.5-34.8	165-153.8
CO4 MVI-225-2	3353601	15	208V-230V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.23	38.5-34.8	165-153.8
CO4 MVI-225-3/2	3353602	20	208V-230V	~3	8" 150#	232	92	100	91.1	103.37	59.76	60.62	56.76	3715.26	50.2-45.4	211.8
CO4 MVI-225-3/1	3353603	25	208V-230V	~3	8" 150#	232	92	100	91.1	103.37	57	60.62	59.02	4023.99	63.0-57.6	261
CO4 MVI-225-3	3353604	25	208V-230V	~3	8" 150#	232	92	100	91.1	103.37	59.76	60.62	59.02	4024.11	63.0-57.6	261
CO4 MVI-225-4/2	3353605	30	208V-230V	~3	8" 150#	232	92	100	103.1	103.37	59.76	60.62	62.17	4126.41	76.7-68.4	305
CO4 MVI-225-1/1	3354086	7.5	460V	~3	8" 150#	232	67.25	75.25	61.1	78.62	59.76	60.62	42	2562.77	8.67	45
CO4 MVI-225-1	3354087	7.5	460V	~3	8" 150#	232	67.25	75.25	61.1	78.62	59.76	60.62	42	2562.89	8.67	45
CO4 MVI-225-2/2	3354088	15	460V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.07	17.4	74.6
CO4 MVI-225-2/1	3354089	15	460V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.15	17.4	74.6
CO4 MVI-225-2	3354090	15	460V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	53.61	3820.23	17.4	74.6
CO4 MVI-225-3/2	3354091	20	460V	~3	8" 150#	232	92	100	61.1	103.37	57	60.62	56.76	3884.39	22.7	99.8
CO4 MVI-225-3/1	3354092	25	460V	~3	8" 150#	232	92	100	61.1	103.37	59.76	60.62	59.02	4201.18	28.8	118.2
CO4 MVI-225-3	3354093	25	460V	~3	8" 150#	232	92	100	61.1	103.37	59.76	60.62	59.02	4201.3	28.8	118.2

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Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-225 150# Discharge															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-225-4/2	3354094	30	460V	~3	8" 150#	232	92	100	61.1	103.37	59.76	60.62	62.17	4277.46	34.2	139.4
CO4 MVI-225-1/1	3354575	7.5	575V	~3	8" 150#	232	67.25	75.25	61.1	78.62	59.76	60.62	42	2574.02	6.94	34.2
CO4 MVI-225-1	3354576	7.5	575V	~3	8" 150#	232	67.25	75.25	61.1	78.62	59.76	60.62	42	2574.14	6.94	34.2
CO4 MVI-225-2/2	3354577	15	575V	~3	8" 150#	232	92	100	69.1	103.37	59.76	60.62	53.61	3379.56	13.8	63.8
CO4 MVI-225-2/1	3354578	15	575V	~3	8" 150#	232	92	100	69.1	103.37	59.76	60.62	53.61	3379.64	13.8	63.8
CO4 MVI-225-2	3354579	15	575V	~3	8" 150#	232	92	100	69.1	103.37	59.76	60.62	53.61	3379.72	13.8	63.8
CO4 MVI-225-3/2	3354580	20	575V	~3	8" 150#	232	92	100	69.1	103.37	59.76	60.62	56.76	3443.88	18.2	86.6
CO4 MVI-225-3/1	3354581	25	575V	~3	8" 150#	232	92	100	91.1	103.37	57	60.62	59.02	3995.99	23	103.8
CO4 MVI-225-3	3354582	25	575V	~3	8" 150#	232	92	100	91.1	103.37	57	60.62	59.02	3996.11	23	103.8
CO4 MVI-225-4/2	3354583	30	575V	~3	8" 150#	232	92	100	91.1	103.37	57	60.62	62.17	4104.27	27.4	127

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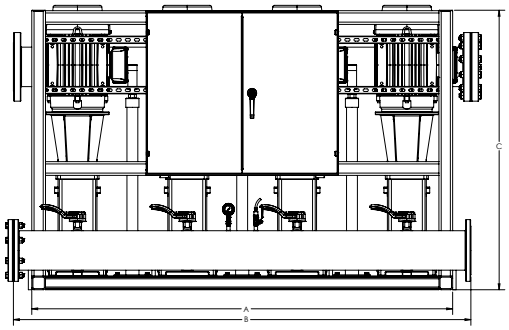
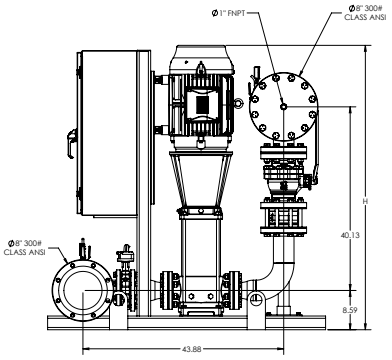
Submittal Data Sheet

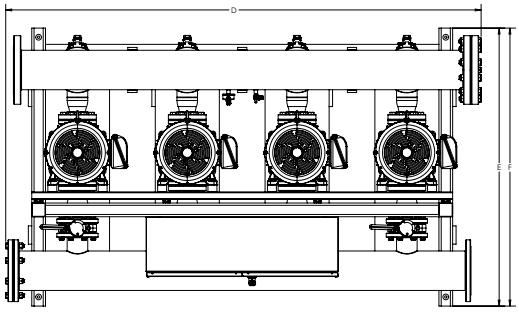
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-225

300# Discharge







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

CO3 MVI-160

															TEFC Motor Data (Per Motor)	
										Dimensions – Inches (In)					Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-225-4/1	3353606	30	208V-230V	~3	8" 300#	435	92	100	103.1	103.87	60.76	60.76	62.17	4586.77	76.7-68.4	305
CO4 MVI-225-4	3353607	30	208V-230V	~3	8" 300#	435	92	100	103.1	103.87	60.76	60.76	62.17	4586.85	76.7-68.4	305
CO4 MVI-225-5/2	3353608	40	208V-230V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	67.87	5285.66	101-92.6	415.8
CO4 MVI-225-5/1	3353609	40	208V-230V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	67.87	5285.66	101-92.6	415.8
CO4 MVI-225-5	3353610	40	208V-230V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	67.87	5285.66	101-92.6	415.8
CO4 MVI-225-4/1	3354095	30	460V	~3	8" 300#	435	92	100	61.1	103.87	60.76	60.76	62.17	4737.82	34.2	139.4
CO4 MVI-225-4	3354096	30	460V	~3	8" 300#	435	92	100	61.1	103.87	60.76	60.76	62.17	4737.9	34.2	139.4
CO4 MVI-225-5/2	3354097	40	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5246.07	46.3	197.8
CO4 MVI-225-5/1	3354098	40	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5246.07	46.3	197.8
CO4 MVI-225-5	3354099	40	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5246.07	46.3	197.8
CO4 MVI-225-6/2	3354100	50	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	71.02	5489.03	56.1	243.4
CO4 MVI-225-6	3354101	50	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	71.02	5489.19	56.1	243.4
CO4 MVI-225-7/2	3354102	50	460V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	74.17	5521.35	56.1	243.4
CO4 MVI-225-7	3354103	60	460V	~3	8" 300#	435	121	129	92.1	132.87	60.76	61.71	77.9	6799.73	67	291
CO4 MVI-225-8/1	3354104	60	460V	~3	8" 300#	435	121	129	92.1	132.87	60.76	61.71	81.05	6827.85	67	291
CO4 MVI-225-4/1	3354584	30	575V	~3	8" 300#	435	92	100	91.1	103.87	60.76	60.76	62.17	4568.67	27.4	127
CO4 MVI-225-4	3354585	30	575V	~3	8" 300#	435	92	100	91.1	103.87	60.76	60.76	62.17	4568.75	27.4	127
CO4 MVI-225-5/2	3354586	40	575V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5262.07	37	172.6
CO4 MVI-225-5/1	3354587	40	575V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5262.07	37	172.6
CO4 MVI-225-5	3354588	40	575V	~3	8" 300#	435	101	109	91.1	112.87	60.76	61.28	67.87	5262.07	37	172.6
CO4 MVI-225-6/2	3354589	50	575V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	71.02	5456.62	44.9	209
CO4 MVI-225-6	3354590	50	575V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	71.02	5456.78	44.9	209
CO4 MVI-225-7/2	3354591	50	575V	~3	8" 300#	435	101	109	103.1	112.87	60.76	61.28	74.17	5488.94	44.9	209
CO4 MVI-225-7	3354592	60	575V	~3	8" 300#	435	121	129	104.1	132.87	60.76	62.4	77.9	6829.58	53.6	254.2
CO4 MVI-225-8/1	3354593	60	575V	~3	8" 300#	435	121	129	104.1	132.87	60.76	62.4	81.05	6857.7	53.6	254.2

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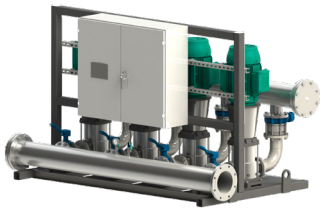
Submittal Data Sheet

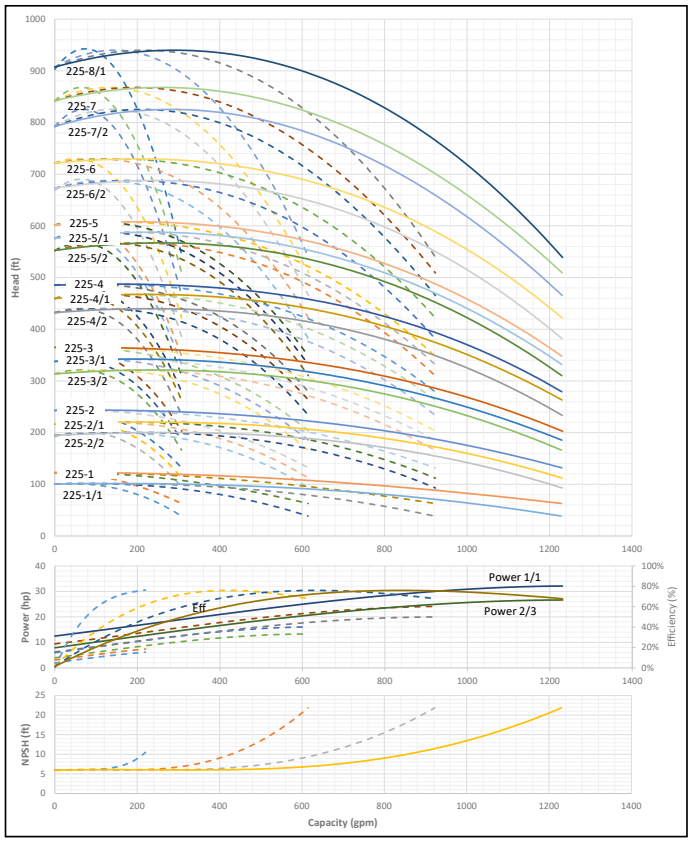
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-1SB-225



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO4 MVI-1SB-225				1			3600



Applications

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

Materials of Construction

Volute	AISI 304 Stainless Steel with Cast Iron ANSI flanges
Impeller	AISI 304 Stainless Steel
Shaft	ANSI 431 Stainless Steel
Elastomers	EPDM
Manifold	AISI 304 Stainless Steel
Suction Isolation Valves	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components
Discharge Isolation Valve	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components or 300# 304SS Ball Valve
Check Valve	Wafer Style, 316 Stainless Steel internals, non-slam, plunger type with EPDM seal/ cast iron body
Mechanical Seal	Frame and Springs 304SS
Pressure Transducers	¼" MNPT, 316 Stainless Steel
Pressure Gauges	¼" MNPT, 304 Stainless Steel Housing with 316 Stainless Steel wetted parts
System Base	Epoxy Coated A-500 Steel Tubing and A36 C-Channel/Plates

Technical Data – Operational Ranges

Liquid Temp Range	5°F to 248°F (Min. 32 °F for Domestic Water)
Ambient Temp Range	+32°F to +104 °F

Technical Data – Panel

Liquid Temp Range	208-230/460~3 or 575~3
Enclosure	NEMA 3R up to 20 HP NEMA 12 for 25 HP and above (NEMA 4 and 4X available upon request)
Standard	Meets UL 508A
Variable Frequency Drives	Danfoss FC-101: • 1 HP to 3 HP 208-230V~1 IN / 208-230V~3 OUT • 1 HP to 60 HP 208-230V~3 • 1 HP to 100 HP 460V~3 • 1 HP to 100 HP 575V~3

Technical Data – PLC

User Interface	7" Diagonal Color LCD Touchscreen
Display Resolution	800 x 480 Pixels
Supply Voltage	24VDC
Max. Current Consumption	320mA@24V
Number of Analog Inputs	4
Number of Analog Outputs	4
Number of Digital Inputs	18
Number of Digital Outputs	17
Onboard Communications	Modbus Protocol (Optional Gateways for BACnet, LonWorks, and CANbus)
Ethernet Port	RJ45 port capable of transmitting data 10/100Mbps
Additional Ports	2.0 USB Port; Micro-SD Port

Motor Data

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

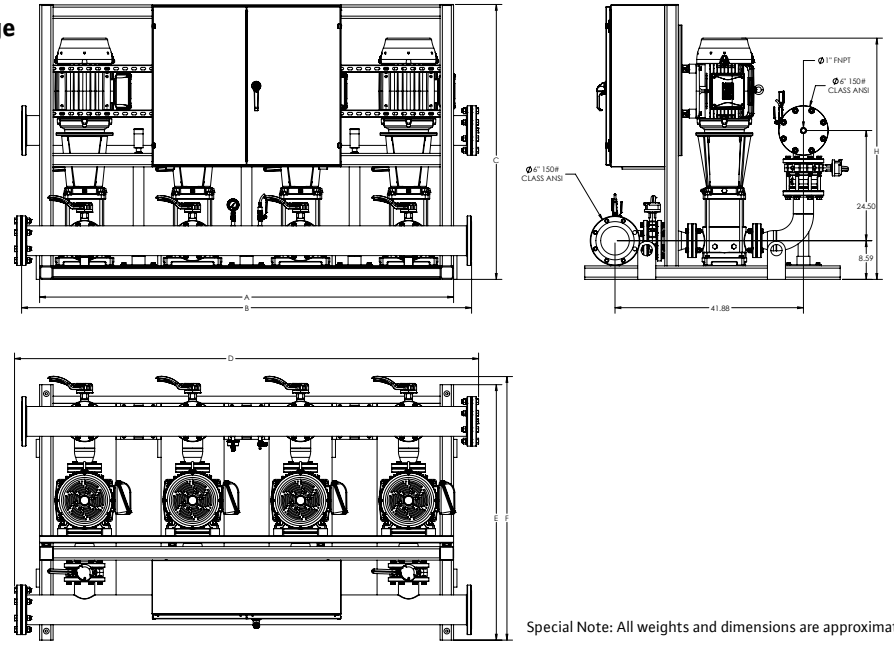
Approval Stamp

Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-1SB-225

150# Discharge



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

CO4 MVI-1SB-225

							Dimensions – Inches (In)								TEFC Motor Data (Per Motor)	
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**Motor FLA (per pump) (A)**	**System FLA**
CO4 MVI-1SB-225-1/1	3355001	7.5	208V-230V	~3	6" 150#	232	67.25	75.25	61.1	78.38	56.76	58.62	42	2801.5	19.2-17.3	85-73
CO4 MVI-1SB-225-1	3355002	7.5	208V-230V	~3	6" 150#	232	67.25	75.25	61.1	78.38	56.76	58.62	42	2801.62	19.2-17.3	85-73
CO4 MVI-1SB-225-2/2	3355003	15	208V-230V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	53.61	3756.35	38.5-34.8	165-153.8
CO4 MVI-1SB-225-2/1	3355004	15	208V-230V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	53.61	3756.43	38.5-34.8	165-153.8
CO4 MVI-1SB-225-2	3355005	15	208V-230V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	53.61	3756.51	38.5-34.8	165-153.8
CO4 MVI-1SB-225-3/2	3355006	20	208V-230V	~3	6" 150#	232	92	100	91.1	103.13	56.76	58.62	56.76	3647.51	50.2-45.4	211.8
CO4 MVI-1SB-225-3/1	3355007	25	208V-230V	~3	6" 150#	232	92	100	91.1	103.13	56.76	60.63	59.02	3960.27	63.0-57.6	261
CO4 MVI-1SB-225-3	3355008	25	208V-230V	~3	6" 150#	232	92	100	91.1	103.13	56.76	60.63	59.02	3960.39	63.0-57.6	261
CO4 MVI-1SB-225-4/2	3355009	30	208V-230V	~3	6" 150#	232	92	100	103.1	103.13	56.76	60.63	62.17	4058.66	76.7-68.4	305
CO4 MVI-1SB-225-1/1	3355291	7.5	460V	~3	6" 150#	232	67.25	75.25	61.1	78.38	56.76	58.62	42	2497.19	8.67	45
CO4 MVI-1SB-225-1	3355292	7.5	460V	~3	6" 150#	232	67.25	75.25	61.1	78.38	56.76	58.62	42	2497.31	8.67	45
CO4 MVI-1SB-225-2/2	3355293	15	460V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	53.61	3756.35	17.4	74.6
CO4 MVI-1SB-225-2/1	3355294	15	460V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	53.61	3756.43	17.4	74.6
CO4 MVI-1SB-225-2	3355295	15	460V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	53.61	3756.51	17.4	74.6
CO4 MVI-1SB-225-3/2	3355296	20	460V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	56.76	3820.67	22.7	99.8
CO4 MVI-1SB-225-3/1	3355297	25	460V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	59.02	4133.43	28.8	118.2
CO4 MVI-1SB-225-3	3355298	25	460V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	59.02	4133.55	28.8	118.2
CO4 MVI-1SB-225-4/2	3355299	30	460V	~3	6" 150#	232	92	100	61.1	103.13	56.76	58.62	62.17	4209.71	34.2	139.4
CO4 MVI-1SB-225-1/1	3355581	7.5	575V	~3	6" 150#	232	67.25	75.25	61.1	78.38	56.76	58.62	42	2508.43	6.94	34.2
CO4 MVI-1SB-225-1	3355582	7.5	575V	~3	6" 150#	232	67.25	75.25	61.1	78.38	56.76	58.62	42	2508.55	6.94	34.2
CO4 MVI-1SB-225-2/2	3355583	15	575V	~3	6" 150#	232	92	100	69.1	103.13	56.76	58.61	53.61	3311.82	13.8	63.8
CO4 MVI-1SB-225-2/1	3355584	15	575V	~3	6" 150#	232	92	100	69.1	103.13	56.76	58.61	53.61	3311.9	13.8	63.8
CO4 MVI-1SB-225-2	3355585	15	575V	~3	6" 150#	232	92	100	69.1	103.13	56.76	58.61	53.61	3311.98	13.8	63.8
CO4 MVI-1SB-225-3/2	3355586	20	575V	~3	6" 150#	232	92	100	69.1	103.13	56.76	58.61	56.76	3376.14	18.2	86.6
CO4 MVI-1SB-225-3/1	3355587	25	575V	~3	6" 150#	232	92	100	91.1	103.13	56.76	60.63	59.02	3932.27	23	103.8
CO4 MVI-1SB-225-3	3355588	25	575V	~3	6" 150#	232	92	100	91.1	103.13	56.76	60.63	59.02	3932.39	23	103.8
CO4 MVI-1SB-225-4/2	3355589	30	575V	~3	6" 150#	232	92	100	91.1	103.13	56.76	60.63	62.17	4040.55	27.4	127

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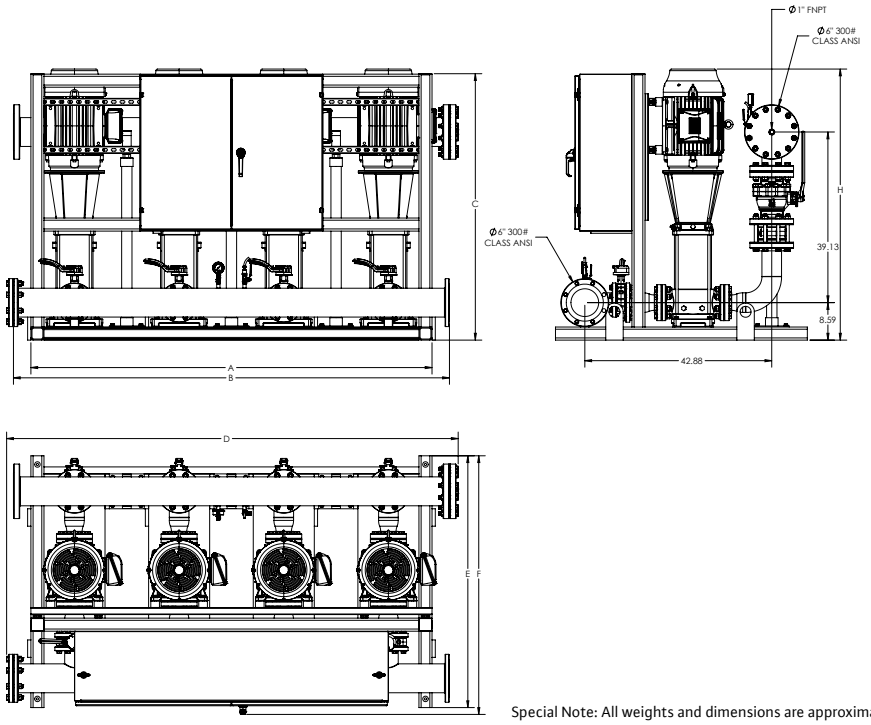
Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-1SB-225

300# Discharge



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

CO4 MVI-1SB-225															TEFC Motor Data (Per Motor)	
										Dimensions – Inches (In)					Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-1SB-225-4/1	3355010	30	208V-230V	~3	6" 300#	435	92	100	103.1	103.57	57.76	59.32	62.17	4502.1	76.7-68.4	305
CO4 MVI-1SB-225-4	3355011	30	208V-230V	~3	6" 300#	435	92	100	103.1	103.57	57.76	59.32	62.17	4502.18	76.7-68.4	305
CO4 MVI-1SB-225-5/2	3355012	40	208V-230V	~3	6" 300#	435	101	109	103.1	112.57	57.76	60.28	67.87	5200.2	101-92.6	415.8
CO4 MVI-1SB-225-5/1	3355013	40	208V-230V	~3	6" 300#	435	101	109	103.1	112.57	57.76	60.28	67.87	5200.2	101-92.6	415.8
CO4 MVI-1SB-225-5	3355014	40	208V-230V	~3	6" 300#	435	101	109	103.1	112.57	57.76	60.28	67.87	5200.2	101-92.6	415.8
CO4 MVI-1SB-225-4/1	3355300	30	460V	~3	6" 300#	435	92	100	61.1	103.57	57.76	57.76	62.17	4653.15	34.2	139.4
CO4 MVI-1SB-225-4	3355301	30	460V	~3	6" 300#	435	92	100	61.1	103.57	57.76	57.76	62.17	4653.23	34.2	139.4
CO4 MVI-1SB-225-5/2	3355302	40	460V	~3	6" 300#	435	101	109	91.1	112.57	57.76	60.28	67.87	5160.61	46.3	197.8
CO4 MVI-1SB-225-5/1	3355303	40	460V	~3	6" 300#	435	101	109	91.1	112.57	57.76	60.28	67.87	5160.61	46.3	197.8
CO4 MVI-1SB-225-5	3355304	40	460V	~3	6" 300#	435	101	109	91.1	112.57	57.76	60.28	67.87	5160.61	46.3	197.8
CO4 MVI-1SB-225-6/2	3355305	50	460V	~3	6" 300#	435	101	109	91.1	112.57	57.76	60.28	71.02	5403.57	56.1	243.4
CO4 MVI-1SB-225-6	3355306	50	460V	~3	6" 300#	435	101	109	91.1	112.57	57.76	60.28	71.02	5403.73	56.1	243.4
CO4 MVI-1SB-225-7/2	3355307	50	460V	~3	6" 300#	435	101	109	91.1	112.57	57.76	60.28	74.17	5435.89	56.1	243.4
CO4 MVI-1SB-225-7	3355308	60	460V	~3	6" 300#	435	121	129	92.1	132.57	57.76	61.4	77.9	6709.49	67	291
CO4 MVI-1SB-225-8/1	3355309	60	460V	~3	6" 300#	435	121	129	92.1	132.57	57.76	61.4	81.05	6737.61	67	291
CO4 MVI-1SB-225-4/1	3355590	30	575V	~3	6" 300#	435	92	100	91.1	103.57	57.76	59.28	62.17	4483.99	27.4	127
CO4 MVI-1SB-225-4	3355591	30	575V	~3	6" 300#	435	92	100	91.1	103.57	57.76	59.28	62.17	4484.07	27.4	127
CO4 MVI-1SB-225-5/2	3355592	40	575V	~3	6" 300#	435	101	109	91.1	112.57	57.76	60.28	67.87	5176.61	37	172.6
CO4 MVI-1SB-225-5/1	3355593	40	575V	~3	6" 300#	435	101	109	91.1	112.57	57.76	60.28	67.87	5176.61	37	172.6
CO4 MVI-1SB-225-5	3355594	40	575V	~3	6" 300#	435	101	109	91.1	112.57	57.76	60.28	67.87	5176.61	37	172.6
CO4 MVI-1SB-225-6/2	3355595	50	575V	~3	6" 300#	435	101	109	103.1	112.57	57.76	60.28	71.02	5371.16	44.9	209
CO4 MVI-1SB-225-6	3355596	50	575V	~3	6" 300#	435	101	109	103.1	112.57	57.76	60.28	71.02	5371.32	44.9	209
CO4 MVI-1SB-225-7/2	3355597	50	575V	~3	6" 300#	435	101	109	103.1	112.57	57.76	60.28	74.17	5403.48	44.9	209
CO4 MVI-1SB-225-7	3355598	60	575V	~3	6" 300#	435	121	129	104.1	132.57	56	59.64	77.9	6734.99	53.6	254.2
CO4 MVI-1SB-225-8/1	3355599	60	575V	~3	6" 300#	435	121	129	104.1	132.57	56	59.64	81.05	6763.11	53.6	254.2

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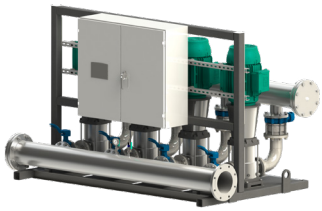
Submittal Data Sheet

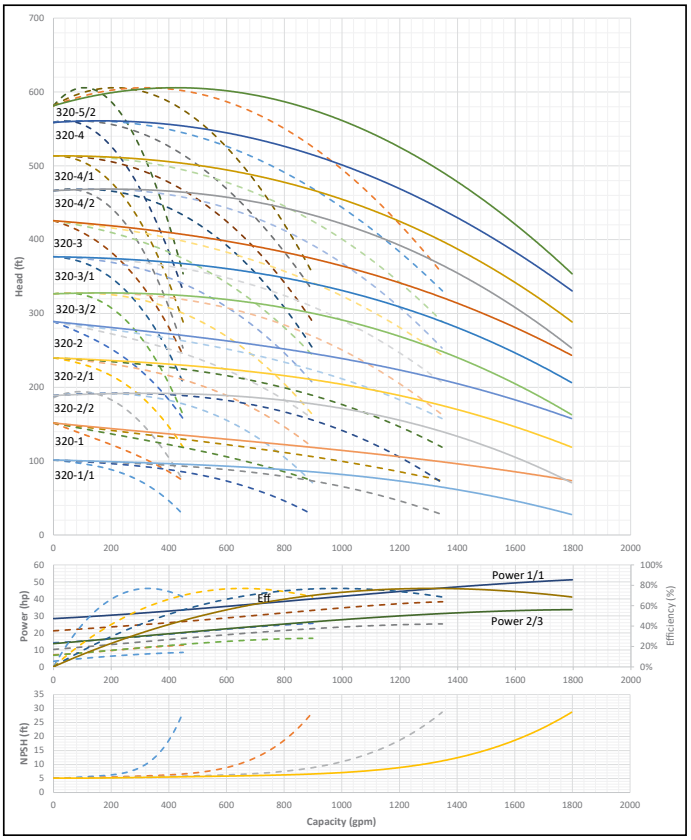
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-320



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO4 MVI-320				1			3600



Applications

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

Materials of Construction

Volute	AISI 304 Stainless Steel with Cast Iron ANSI flanges
Impeller	AISI 304 Stainless Steel
Shaft	ANSI 431 Stainless Steel
Elastomers	EPDM
Manifold	AISI 304 Stainless Steel
Suction Isolation Valves	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components
Discharge Isolation Valve	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components or 300# 304SS Ball Valve
Check Valve	Wafer Style, 316 Stainless Steel internals, non-slam, plunger type with EPDM seal/ cast iron body
Mechanical Seal	Frame and Springs 304SS
Pressure Transducers	¼" MNPT, 316 Stainless Steel
Pressure Gauges	¼" MNPT, 304 Stainless Steel Housing with 316 Stainless Steel wetted parts
System Base	Epoxy Coated A-500 Steel Tubing and A36 C-Channel/Plates

Technical Data – Operational Ranges

Liquid Temp Range	5°F to 248°F (Min. 32 °F for Domestic Water)
Ambient Temp Range	+32°F to +104 °F

Technical Data – Panel

Liquid Temp Range	208-230/460~3 or 575~3
Enclosure	NEMA 3R up to 20 HP NEMA 12 for 25 HP and above (NEMA 4 and 4X available upon request)
Standard	Meets UL 508A
Variable Frequency Drives	Danfoss FC-101: • 1 HP to 3 HP 208-230V~1 IN / 208-230V~3 OUT • 1 HP to 60 HP 208-230V~3 • 1 HP to 100 HP 460V~3 • 1 HP to 100 HP 575V~3

Technical Data – PLC

User Interface	7" Diagonal Color LCD Touchscreen
Display Resolution	800 x 480 Pixels
Supply Voltage	24VDC
Max. Current Consumption	320mA@24V
Number of Analog Inputs	4
Number of Analog Outputs	4
Number of Digital Inputs	18
Number of Digital Outputs	17
Onboard Communications	Modbus Protocol (Optional Gateways for BACnet, LonWorks, and CANbus)
Ethernet Port	RJ45 port capable of transmitting data 10/100Mbps
Additional Ports	2.0 USB Port; Micro-SD Port

Motor Data

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

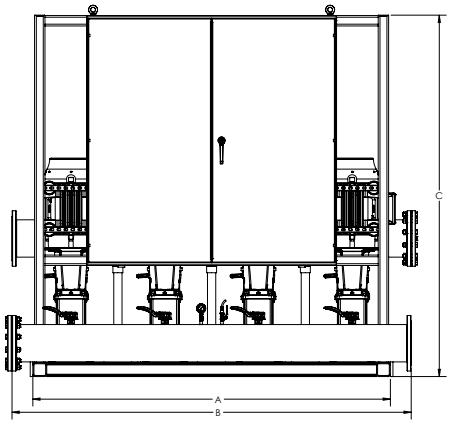
Approval Stamp

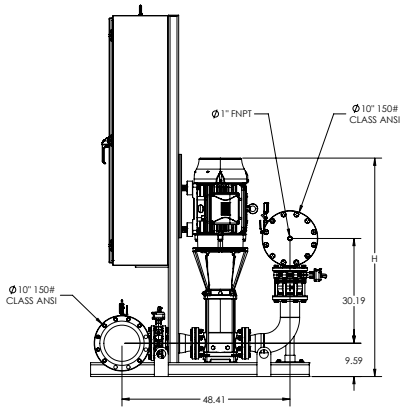
Submittal Data Sheet

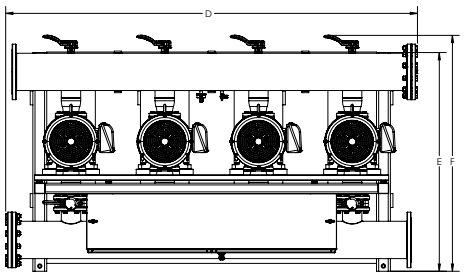
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-320

150# Discharge







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

CO4 MVI-320															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-320-1/1	3354650	7.5	208V-230V	~3	10" 150#	232	69.25	77.25	62.1	80.81	63	68	43.16	3286.18	19.2-17.3	85-73
CO4 MVI-320-1	3354651	15	208V-230V	~3	10" 150#	232	94	106	62.1	109.56	63	68	51.62	4220.7	38.5-34.8	165-153.8
CO4 MVI-320-2/2	3354652	15	208V-230V	~3	10" 150#	232	94	106	62.1	109.56	63	68	54.86	4255.34	38.5-34.8	165-153.8
CO4 MVI-320-2/1	3354653	20	208V-230V	~3	10" 150#	232	94	106	92.1	109.56	63	68	54.86	4111.93	50.2-45.4	211.8
CO4 MVI-320-2	3354654	25	208V-230V	~3	10" 150#	232	94	106	92.1	109.56	63	68	57.12	4427.4	63.0-57.6	261
CO4 MVI-320-3/2	3354655	30	208V-230V	~3	10" 150#	232	94	106	104.1	109.56	63	68	60.37	4545.38	76.7-68.4	305
CO4 MVI-320-3/1	3354656	40	208V-230V	~3	10" 150#	232	103	115	104.1	118.56	63	68	62.92	5198.62	101-92.6	415.8
CO4 MVI-320-3	3354657	40	208V-230V	~3	10" 150#	232	103	115	104.1	118.56	63	68	62.92	5198.62	101-92.6	415.8
CO4 MVI-320-1/1	3354686	7.5	460V	~3	10" 150#	232	69.25	77.25	62.1	80.81	63	68	43.16	2986.37	8.67	45
CO4 MVI-320-1	3354687	15	460V	~3	10" 150#	232	94	106	62.1	109.56	63	68	51.62	4220.7	17.4	74.6
CO4 MVI-320-2/2	3354688	15	460V	~3	10" 150#	232	94	106	62.1	109.56	63	68	54.86	4255.34	17.4	74.6
CO4 MVI-320-2/1	3354689	20	460V	~3	10" 150#	232	94	106	62.1	109.56	63	68	54.86	4287.34	22.7	99.8
CO4 MVI-320-2	3354690	25	460V	~3	10" 150#	232	94	106	62.1	109.56	63	68	57.12	4600.02	28.8	118.2
CO4 MVI-320-3/2	3354691	30	460V	~3	10" 150#	232	94	106	62.1	109.56	63	68	60.37	4679.34	34.2	139.4
CO4 MVI-320-3/1	3354692	40	460V	~3	10" 150#	232	103	115	92.1	118.56	63	68	62.92	5156.78	46.3	197.8
CO4 MVI-320-3	3354693	40	460V	~3	10" 150#	232	103	115	92.1	118.56	63	68	62.92	5156.78	46.3	197.8
CO4 MVI-320-1/1	3354722	7.5	575V	~3	10" 150#	232	69.25	77.25	62.1	80.81	63	68	43.16	2997.62	6.94	34.2
CO4 MVI-320-1	3354723	15	575V	~3	10" 150#	232	94	106	72.1	109.56	63	68	51.62	3780.22	13.8	63.8
CO4 MVI-320-2/2	3354724	15	575V	~3	10" 150#	232	94	106	72.1	109.56	63	68	54.86	3814.86	13.8	63.8
CO4 MVI-320-2/1	3354725	20	575V	~3	10" 150#	232	94	106	72.1	109.56	63	68	54.86	3846.86	18.2	86.6
CO4 MVI-320-2	3354726	25	575V	~3	10" 150#	232	94	106	92.1	109.56	63	68	57.12	4396.61	23	103.8
CO4 MVI-320-3/2	3354727	30	575V	~3	10" 150#	232	94	106	92.1	109.56	63	68	60.37	4507.93	27.4	127
CO4 MVI-320-3/1	3354728	40	575V	~3	10" 150#	232	103	115	92.1	118.56	63	68	62.92	5172.78	37	172.6
CO4 MVI-320-3	3354729	40	575V	~3	10" 150#	232	103	115	92.1	118.56	63	68	62.92	5172.78	37	172.6
CO4 MVI-320-4/2	3354658	40	208V-230V	~3	10" 300#	435	103	115	104.1	119.24	64	73.8	66.17	5860.25	101-92.6	415.8

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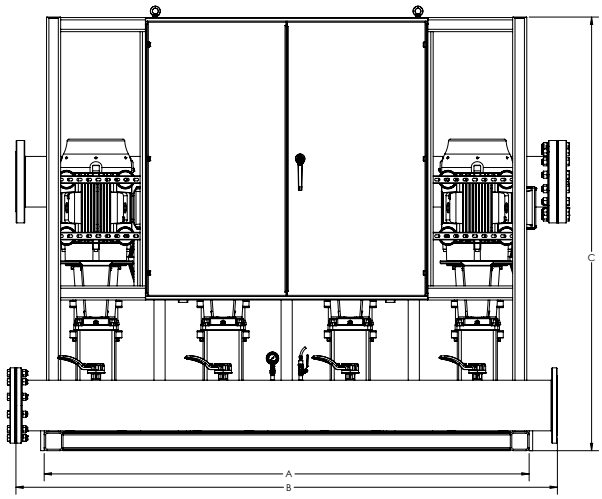
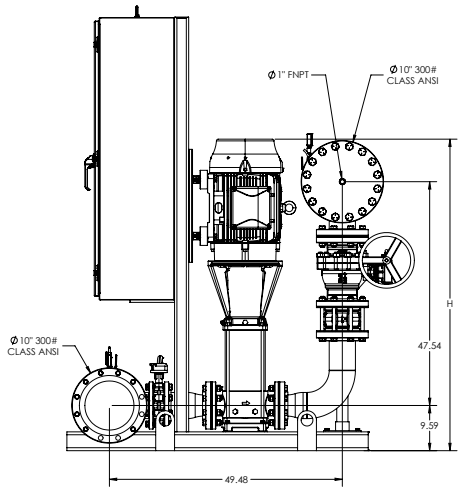
Submittal Data Sheet

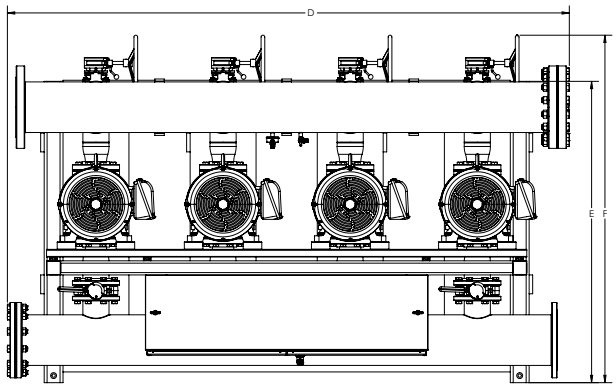
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-320

300# Discharge







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

CO4 MVI-320															TEFC Motor Data (Per Motor)	
							Dimensions - Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-320-4/2	3354694	40	460V	~3	10" 300#	435	103	115	92.1	119.24	64	73.8	66.17	5815.93	46.3	197.8
CO4 MVI-320-4/1	3354695	50	460V	~3	10" 300#	435	103	115	92.1	119.24	64	73.8	66.17	6032.95	56.1	243.4
CO4 MVI-320-4	3354696	50	460V	~3	10" 300#	435	103	115	92.1	119.24	64	73.8	66.17	6027.37	56.1	243.4
CO4 MVI-320-5/2	3354697	60	460V	~3	10" 300#	435	121	135	92.1	139.24	64.6	73.8	72.15	7200.07	67	291
CO4 MVI-320-4/2	3354730	40	575V	~3	10" 300#	435	103	115	92.1	119.24	64	73.8	66.17	5831.93	37	172.6
CO4 MVI-320-4/1	3354731	50	575V	~3	10" 300#	435	103	115	104.1	119.24	64	73.8	66.17	5999.69	44.9	209
CO4 MVI-320-4	3354732	50	575V	~3	10" 300#	435	103	115	104.1	119.24	64	73.8	66.17	5999.69	44.9	209
CO4 MVI-320-5/2	3354733	60	575V	~3	10" 300#	435	121	135	104.1	139.24	64.6	73.8	72.15	7229.92	53.6	254.2

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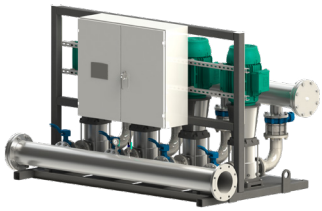
Submittal Data Sheet

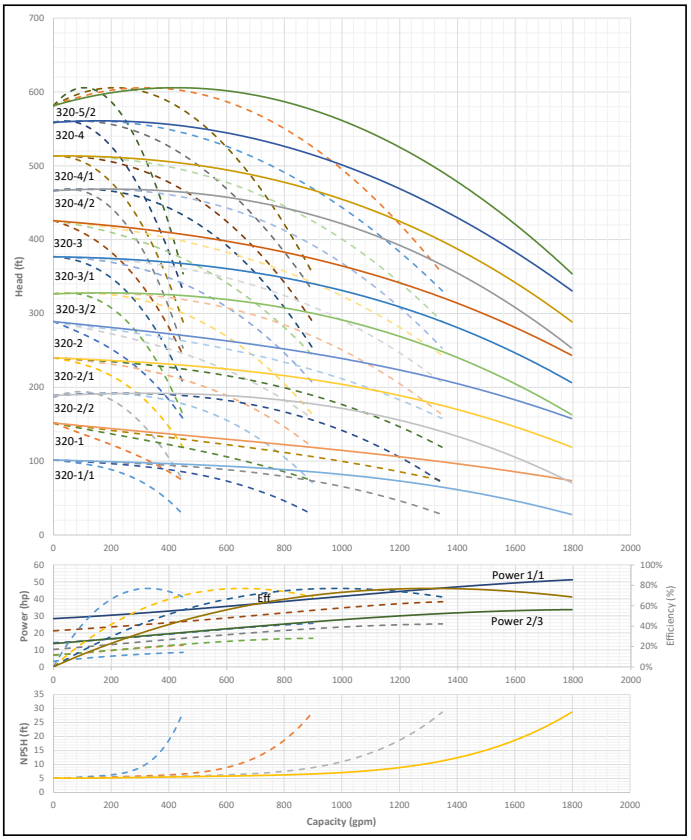
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-1SB-320



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO4 MVI-1SB-320				1			3600



Applications

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

Materials of Construction

Volute	AISI 304 Stainless Steel with Cast Iron ANSI flanges
Impeller	AISI 304 Stainless Steel
Shaft	ANSI 431 Stainless Steel
Elastomers	EPDM
Manifold	AISI 304 Stainless Steel
Suction Isolation Valves	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components
Discharge Isolation Valve	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components or 300# 304SS Ball Valve
Check Valve	Wafer Style, 316 Stainless Steel internals, non-slam, plunger type with EPDM seal/ cast iron body
Mechanical Seal	Frame and Springs 304SS
Pressure Transducers	¼" MNPT, 316 Stainless Steel
Pressure Gauges	¼" MNPT, 304 Stainless Steel Housing with 316 Stainless Steel wetted parts
System Base	Epoxy Coated A-500 Steel Tubing and A36 C-Channel/Plates

Technical Data – Operational Ranges

Liquid Temp Range	5°F to 248°F (Min. 32 °F for Domestic Water)
Ambient Temp Range	+32°F to +104 °F

Technical Data – Panel

Liquid Temp Range	208-230/460~3 or 575~3
Enclosure	NEMA 3R up to 20 HP NEMA 12 for 25 HP and above (NEMA 4 and 4X available upon request)
Standard	Meets UL 508A
Variable Frequency Drives	Danfoss FC-101: • 1 HP to 3 HP 208-230V~1 IN / 208-230V~3 OUT • 1 HP to 60 HP 208-230V~3 • 1 HP to 100 HP 460V~3 • 1 HP to 100 HP 575V~3

Technical Data – PLC

User Interface	7" Diagonal Color LCD Touchscreen
Display Resolution	800 x 480 Pixels
Supply Voltage	24VDC
Max. Current Consumption	320mA@24V
Number of Analog Inputs	4
Number of Analog Outputs	4
Number of Digital Inputs	18
Number of Digital Outputs	17
Onboard Communications	Modbus Protocol (Optional Gateways for BACnet, LonWorks, and CANbus)
Ethernet Port	RJ45 port capable of transmitting data 10/100Mbps
Additional Ports	2.0 USB Port; Micro-SD Port

Motor Data

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

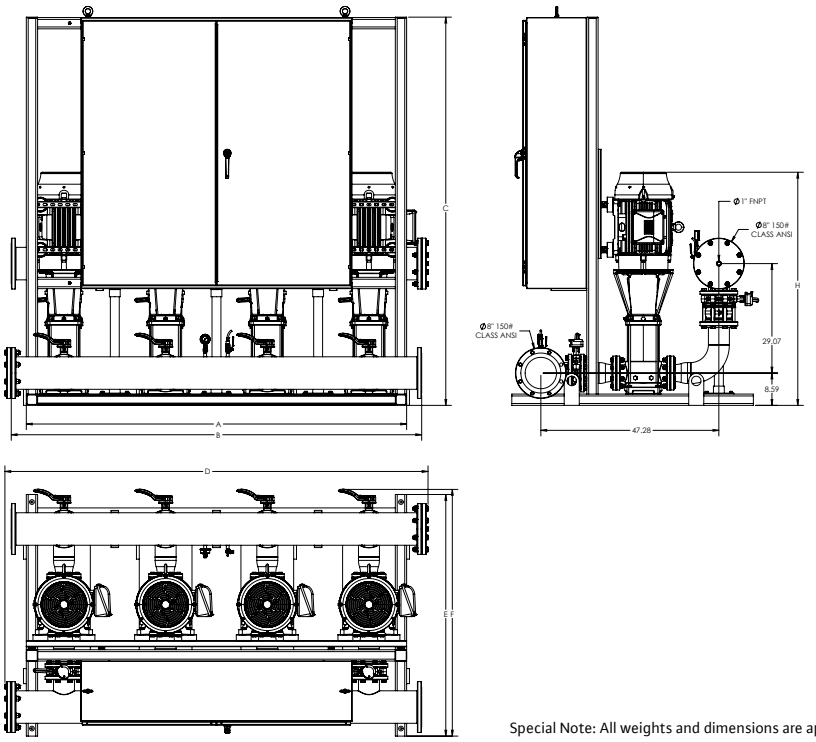
Approval Stamp

Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-1SB-320

150# Discharge



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

CO4 MVI-1SB-320															TEFC Motor Data (Per Motor)	
										Dimensions – Inches (In)					Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-1SB-320-1/1	3355020	7.5	208V-230V	~3	8" 150#	232	67.25	75.25	61.1	78.62	64.16	65.56	42.16	3085.06	19.2-17.3	85-73
CO4 MVI-1SB-320-1	3355021	15	208V-230V	~3	8" 150#	232	92	100	61.1	103.37	64.16	65.56	50.62	4009.79	38.5-34.8	165-153.8
CO4 MVI-1SB-320-2/2	3355022	15	208V-230V	~3	8" 150#	232	92	100	61.1	103.37	64.16	65.56	53.86	4044.43	38.5-34.8	165-153.8
CO4 MVI-1SB-320-2/1	3355023	20	208V-230V	~3	8" 150#	232	92	100	91.1	103.37	64.16	65.56	53.86	3903.27	50.2-45.4	211.8
CO4 MVI-1SB-320-2	3355024	25	208V-230V	~3	8" 150#	232	92	100	91.1	103.37	64.16	65.56	56.12	4215.95	63.0-57.6	261
CO4 MVI-1SB-320-3/2	3355025	30	208V-230V	~3	8" 150#	232	92	100	103.1	103.37	64.16	65.56	59.37	4317.38	76.7-68.4	305
CO4 MVI-1SB-320-3/1	3355026	40	208V-230V	~3	8" 150#	232	101	109	103.1	112.37	64.16	65.56	61.92	4985.31	101-92.6	415.8
CO4 MVI-1SB-320-3	3355027	40	208V-230V	~3	8" 150#	232	101	109	103.1	112.37	64.16	65.56	61.92	4985.31	101-92.6	415.8
CO4 MVI-1SB-320-1/1	3355310	7.5	460V	~3	8" 150#	232	67.25	75.25	61.1	78.62	64.16	65.56	42.16	2780.75	8.67	45
CO4 MVI-1SB-320-1	3355311	15	460V	~3	8" 150#	232	92	100	61.1	103.37	64.16	65.56	50.62	4009.79	17.4	74.6
CO4 MVI-1SB-320-2/2	3355312	15	460V	~3	8" 150#	232	92	100	61.1	103.37	64.16	65.56	53.86	4044.43	17.4	74.6
CO4 MVI-1SB-320-2/1	3355313	20	460V	~3	8" 150#	232	92	100	61.1	103.37	64.16	65.56	53.86	4076.43	22.7	99.8
CO4 MVI-1SB-320-2	3355314	25	460V	~3	8" 150#	232	92	100	61.1	103.37	64.16	65.56	56.12	4389.11	28.8	118.2
CO4 MVI-1SB-320-3/2	3355315	30	460V	~3	8" 150#	232	92	100	61.1	103.37	64.16	65.56	59.37	4468.43	34.2	139.4
CO4 MVI-1SB-320-3/1	3355316	40	460V	~3	8" 150#	232	101	109	91.1	112.37	64.16	65.56	61.92	4945.71	46.3	197.8
CO4 MVI-1SB-320-3	3355317	40	460V	~3	8" 150#	232	101	109	91.1	112.37	64.16	65.56	61.92	4945.71	46.3	197.8
CO4 MVI-1SB-320-1/1	3355600	7.5	575V	~3	8" 150#	232	67.25	75.25	61.1	78.62	64.16	65.56	42.16	2791.99	6.94	34.2
CO4 MVI-1SB-320-1	3355601	15	575V	~3	8" 150#	232	92	100	71.1	103.37	64.16	65.56	50.62	3568.18	13.8	63.8
CO4 MVI-1SB-320-2/2	3355602	15	575V	~3	8" 150#	232	92	100	71.1	103.37	64.16	65.56	53.86	3602.82	13.8	63.8
CO4 MVI-1SB-320-2/1	3355603	20	575V	~3	8" 150#	232	92	100	71.1	103.37	64.16	65.56	53.86	3634.82	18.2	86.6
CO4 MVI-1SB-320-2	3355604	25	575V	~3	8" 150#	232	92	100	91.1	103.37	64.16	65.56	56.12	4187.95	23	103.8
CO4 MVI-1SB-320-3/2	3355605	30	575V	~3	8" 150#	232	92	100	91.1	103.37	64.16	65.56	59.37	4299.27	27.4	127
CO4 MVI-1SB-320-3/1	3355606	40	575V	~3	8" 150#	232	101	109	91.1	112.37	64.16	65.56	61.92	4961.71	37	172.6
CO4 MVI-1SB-320-3	3355607	40	575V	~3	8" 150#	232	101	109	91.1	112.37	64.16	65.56	61.92	4961.71	37	172.6

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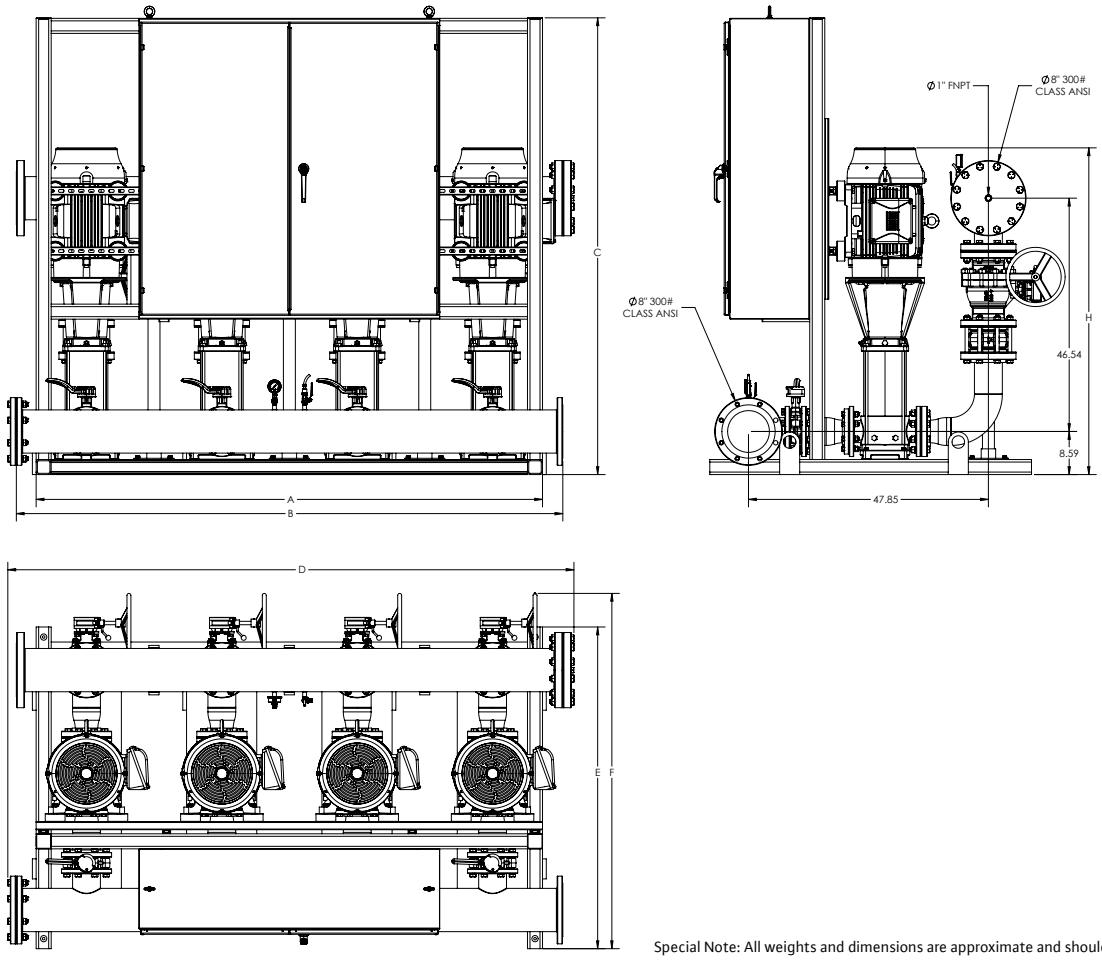
Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-1SB-320

300# Discharge



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

CO4 MVI-1SB-320															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-1SB-320-4/2	3355028	40	208V-230V	~3	8" 300#	435	101	109	103.1	112.87	64.16	70.86	65.17	5554.75	101-92.6	415.8
CO4 MVI-1SB-320-4/2	3355318	40	460V	~3	8" 300#	435	101	109	91.1	112.87	64.16	70.86	65.17	5515.15	46.3	197.8
CO4 MVI-1SB-320-4/1	3355319	50	460V	~3	8" 300#	435	101	109	91.1	112.87	64.16	70.86	65.17	5726.59	56.1	243.4
CO4 MVI-1SB-320-4	3355320	50	460V	~3	8" 300#	435	101	109	91.1	112.87	64.16	70.86	65.17	5726.59	56.1	243.4
CO4 MVI-1SB-320-5/2	3355321	60	460V	~3	8" 300#	435	121	129	92.1	132.87	65.23	71.25	72.15	7066.3	67	291
CO4 MVI-1SB-320-4/2	3355608	40	575V	~3	8" 300#	435	101	109	91.1	112.87	64.16	69.98	65.17	5531.15	37	172.6
CO4 MVI-1SB-320-4/1	3355609	50	575V	~3	8" 300#	435	101	109	103.1	112.87	64.16	69.98	65.17	5694.19	44.9	209
CO4 MVI-1SB-320-4	3355610	50	575V	~3	8" 300#	435	101	109	103.1	112.87	64.16	69.98	65.17	5694.19	44.9	209
CO4 MVI-1SB-320-5/2	3355611	60	575V	~3	8" 300#	435	121	129	104.1	132.87	65.23	71.25	72.15	7096.15	53.6	254.2

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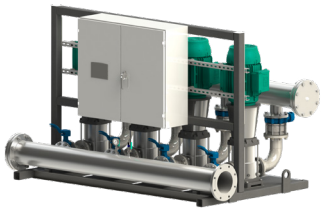
Submittal Data Sheet

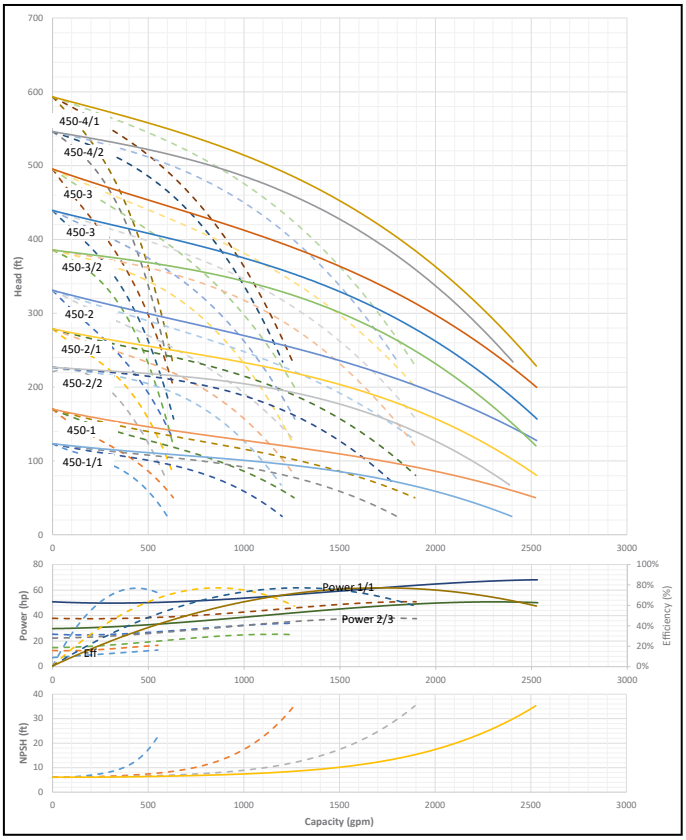
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-450



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO4 MVI-450				1			3600



Applications

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

Materials of Construction

Volute	AISI 304 Stainless Steel with Cast Iron ANSI flanges
Impeller	AISI 304 Stainless Steel
Shaft	ANSI 431 Stainless Steel
Elastomers	EPDM
Manifold	AISI 304 Stainless Steel
Suction Isolation Valves	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components
Discharge Isolation Valve	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components or 300# 304SS Ball Valve
Check Valve	Wafer Style, 316 Stainless Steel internals, non-slam, plunger type with EPDM seal/ cast iron body
Mechanical Seal	Frame and Springs 304SS
Pressure Transducers	¼" MNPT, 316 Stainless Steel
Pressure Gauges	¼" MNPT, 304 Stainless Steel Housing with 316 Stainless Steel wetted parts
System Base	Epoxy Coated A-500 Steel Tubing and A36 C-Channel/Plates

Technical Data – Operational Ranges

Liquid Temp Range	5°F to 248°F (Min. 32 °F for Domestic Water)
Ambient Temp Range	+32°F to +104 °F

Technical Data – Panel

Liquid Temp Range	208-230/460~3 or 575~3
Enclosure	NEMA 3R up to 20 HP NEMA 12 for 25 HP and above (NEMA 4 and 4X available upon request)
Standard	Meets UL 508A
Variable Frequency Drives	Danfoss FC-101: • 1 HP to 3 HP 208-230V~1 IN / 208-230V~3 OUT • 1 HP to 60 HP 208-230V~3 • 1 HP to 100 HP 460V~3 • 1 HP to 100 HP 575V~3

Technical Data – PLC

User Interface	7" Diagonal Color LCD Touchscreen
Display Resolution	800 x 480 Pixels
Supply Voltage	24VDC
Max. Current Consumption	320mA@24V
Number of Analog Inputs	4
Number of Analog Outputs	4
Number of Digital Inputs	18
Number of Digital Outputs	17
Onboard Communications	Modbus Protocol (Optional Gateways for BACnet, LonWorks, and CANbus)
Ethernet Port	RJ45 port capable of transmitting data 10/100Mbps
Additional Ports	2.0 USB Port; Micro-SD Port

Motor Data

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

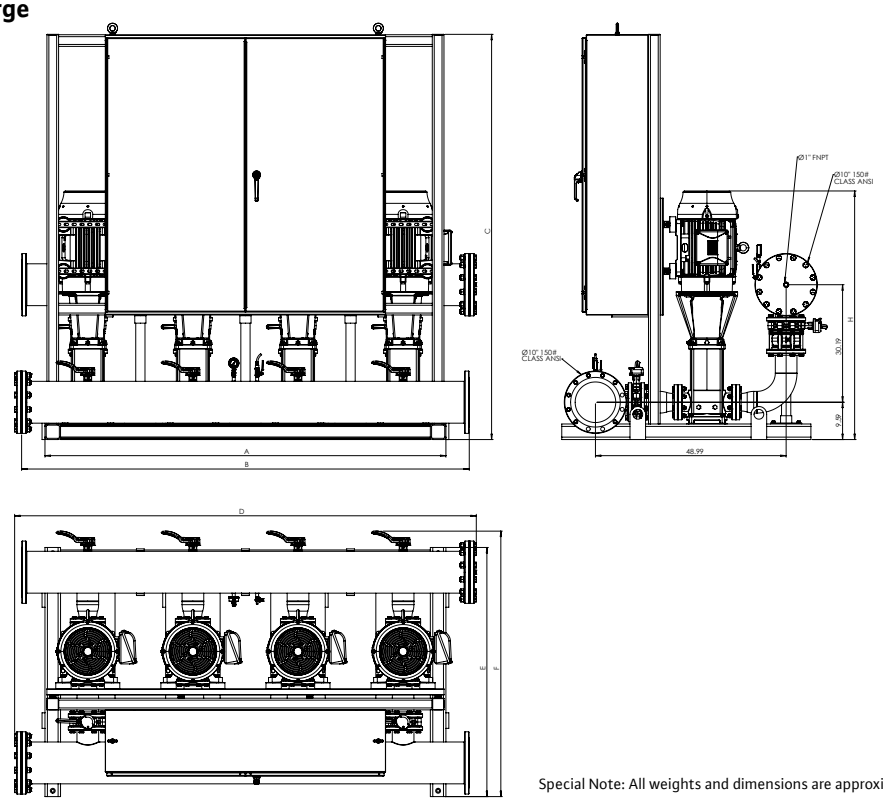
Approval Stamp

Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-450

150# Discharge



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

CO4 MVI-450															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-450-1/1	3353616	15	208V-230V	~3	10" 150#	232	94	106	62.1	109.6	64	68.16	51.79	4287.01	38.5-34.8	165-153.8
CO4 MVI-450-1	3353617	15	208V-230V	~3	10" 150#	232	94	106	62.1	109.6	64	68.16	51.79	4287.17	38.5-34.8	165-153.8
CO4 MVI-450-2/2	3353618	25	208V-230V	~3	10" 150#	232	94	106	92.1	106.9	64	68.16	57.64	4500.68	63.0-57.6	261
CO4 MVI-450-2/1	3353619	30	208V-230V	~3	10" 150#	232	94	106	104.1	109.6	64	68.16	57.64	4551.69	76.7-68.4	305
CO4 MVI-450-2	3353620	40	208V-230V	~3	10" 150#	232	103	115	104.1	118.6	64	68.16	60.19	5241.06	101-92.6	415.8
CO4 MVI-450-3/2	3353621	40	208V-230V	~3	10" 150#	232	103	115	104.1	118.6	64	68.16	63.78	5285.06	101-92.6	415.8
CO4 MVI-450-1/1	3354105	15	460V	~3	10" 150#	232	94	106	62.1	109.6	64	68.16	51.79	4287.01	17.4	74.6
CO4 MVI-450-1	3354106	15	460V	~3	10" 150#	232	94	106	62.1	109.6	64	68.16	51.79	4287.17	17.4	74.6
CO4 MVI-450-2/2	3354107	25	460V	~3	10" 150#	232	94	106	62.1	109.6	64	68.16	57.64	4676.09	28.8	118.2
CO4 MVI-450-2/1	3354108	30	460V	~3	10" 150#	232	94	106	62.1	109.6	64	68.16	57.64	4720.25	34.2	139.4
CO4 MVI-450-2	3354109	40	460V	~3	10" 150#	232	103	115	92.1	118.6	64	68.16	60.19	5199.21	46.3	197.8
CO4 MVI-450-3/2	3354110	40	460V	~3	10" 150#	232	103	115	92.1	118.6	64	68.16	63.78	5243.21	46.3	197.8
CO4 MVI-450-3/1	3354111	50	460V	~3	10" 150#	232	103	115	92.1	118.6	64	68.16	63.78	5452.25	56.1	243.4
CO4 MVI-450-3	3354112	50	460V	~3	10" 150#	232	103	115	92.1	118.6	64	68.16	63.78	5452.45	56.1	243.4
CO4 MVI-450-1/1	3354594	15	575V	~3	10" 150#	232	94	106	74.1	109.6	64	68.16	51.79	3849.93	13.8	63.8
CO4 MVI-450-1	3354595	15	575V	~3	10" 150#	232	94	106	74.1	109.6	64	68.16	51.79	3850.09	13.8	63.8
CO4 MVI-450-2/2	3354596	25	575V	~3	10" 150#	232	94	106	92.1	106.9	64	68.16	57.64	4472.68	23	103.8
CO4 MVI-450-2/1	3354597	30	575V	~3	10" 150#	232	94	106	92.1	106.9	64	68.16	57.64	4548.84	27.4	127
CO4 MVI-450-2	3354598	40	575V	~3	10" 150#	232	103	115	92.1	118.6	64	68.16	60.19	5215.21	37	172.6
CO4 MVI-450-3/2	3354599	40	575V	~3	10" 150#	232	103	115	92.1	118.6	64	68.16	63.78	5259.21	37	172.6
CO4 MVI-450-3/1	3354600	50	575V	~3	10" 150#	232	103	115	104.1	118.6	64	68.16	63.78	5422.1	44.9	209
CO4 MVI-450-3	3354601	50	575V	~3	10" 150#	232	103	115	104.1	118.6	64	68.16	63.78	5422.3	44.9	209

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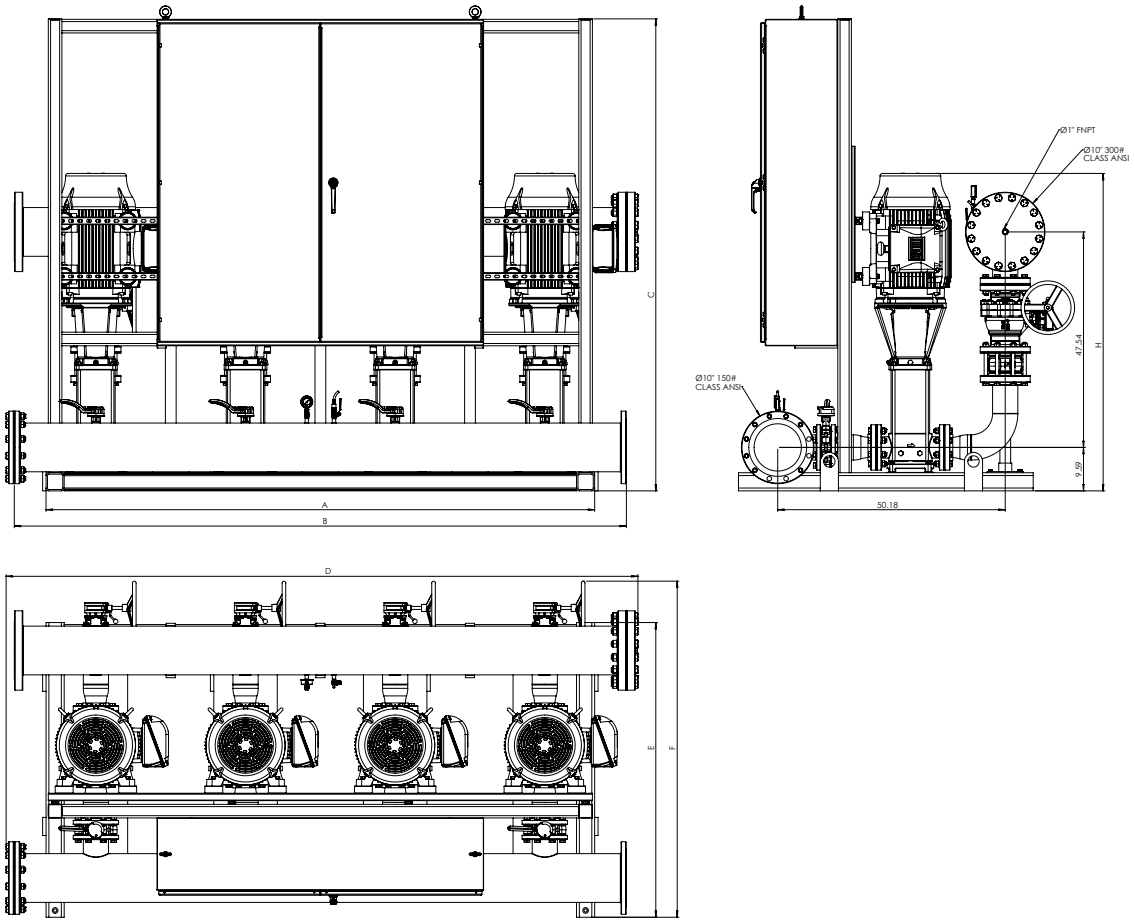
Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-450

300# Discharge



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

CO4 MVI-450															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-450-4/2	3354113	60	460V	~3	10" 300#	435	121	135	92.1	139.35	65	74.13	69.94	7341.86	67	291
CO4 MVI-450-4/1	3354114	60	460V	~3	10" 300#	435	121	135	92.1	139.35	65	74.13	69.94	7343.38	67	291
CO4 MVI-450-4/2	3354602	60	575V	~3	10" 300#	435	121	135	104.1	139.35	65	74.13	69.94	7371.71	53.6	254.2
CO4 MVI-450-4/1	3354603	60	575V	~3	10" 300#	435	121	135	104.1	139.35	65	74.13	69.94	7373.23	53.6	254.2

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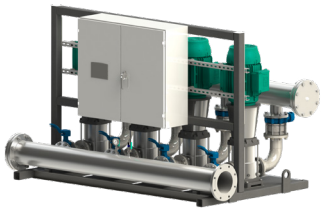
Submittal Data Sheet

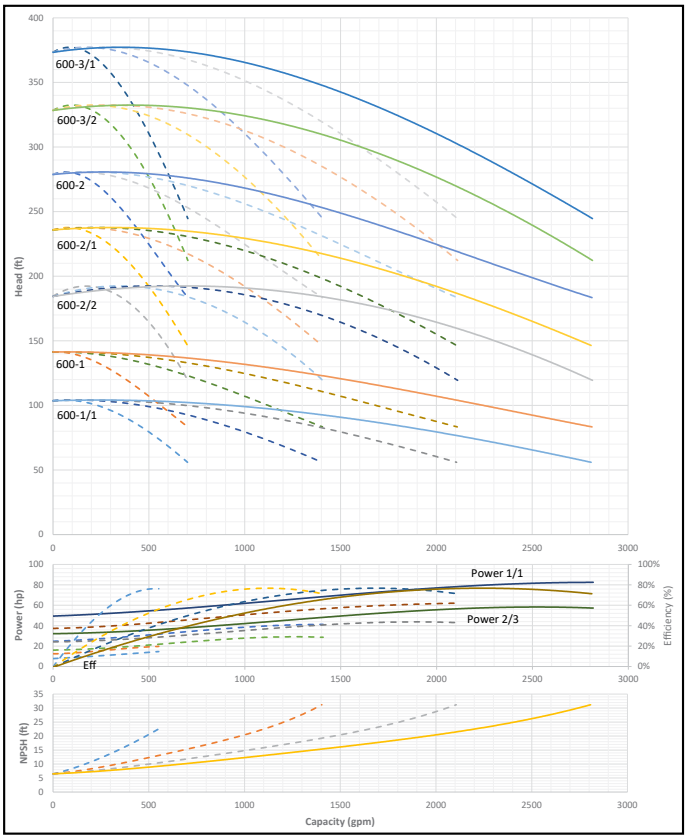
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-600



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO4 MVI-600				1			3600



Applications

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

Materials of Construction

Volute	AISI 304 Stainless Steel with Cast Iron ANSI flanges
Impeller	AISI 304 Stainless Steel
Shaft	ANSI 431 Stainless Steel
Elastomers	EPDM
Manifold	AISI 304 Stainless Steel
Suction Isolation Valves	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components
Discharge Isolation Valve	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components or 300# 304SS Ball Valve
Check Valve	Wafer Style, 316 Stainless Steel internals, non-slam, plunger type with EPDM seal/ cast iron body
Mechanical Seal	Frame and Springs 304SS
Pressure Transducers	¼" MNPT, 316 Stainless Steel
Pressure Gauges	¼" MNPT, 304 Stainless Steel Housing with 316 Stainless Steel wetted parts
System Base	Epoxy Coated A-500 Steel Tubing and A36 C-Channel/Plates

Technical Data – Operational Ranges

Liquid Temp Range	5°F to 248°F (Min. 32 °F for Domestic Water)
Ambient Temp Range	+32°F to +104 °F

Technical Data – Panel

Liquid Temp Range	208-230/460~3 or 575~3
Enclosure	NEMA 3R up to 20 HP NEMA 12 for 25 HP and above (NEMA 4 and 4X available upon request)
Standard	Meets UL 508A
Variable Frequency Drives	Danfoss FC-101: • 1 HP to 3 HP 208-230V~1 IN / 208-230V~3 OUT • 1 HP to 60 HP 208-230V~3 • 1 HP to 100 HP 460V~3 • 1 HP to 100 HP 575V~3

Technical Data – PLC

User Interface	7" Diagonal Color LCD Touchscreen
Display Resolution	800 x 480 Pixels
Supply Voltage	24VDC
Max. Current Consumption	320mA@24V
Number of Analog Inputs	4
Number of Analog Outputs	4
Number of Digital Inputs	18
Number of Digital Outputs	17
Onboard Communications	Modbus Protocol (Optional Gateways for BACnet, LonWorks, and CANbus)
Ethernet Port	RJ45 port capable of transmitting data 10/100Mbps
Additional Ports	2.0 USB Port; Micro-SD Port

Motor Data

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

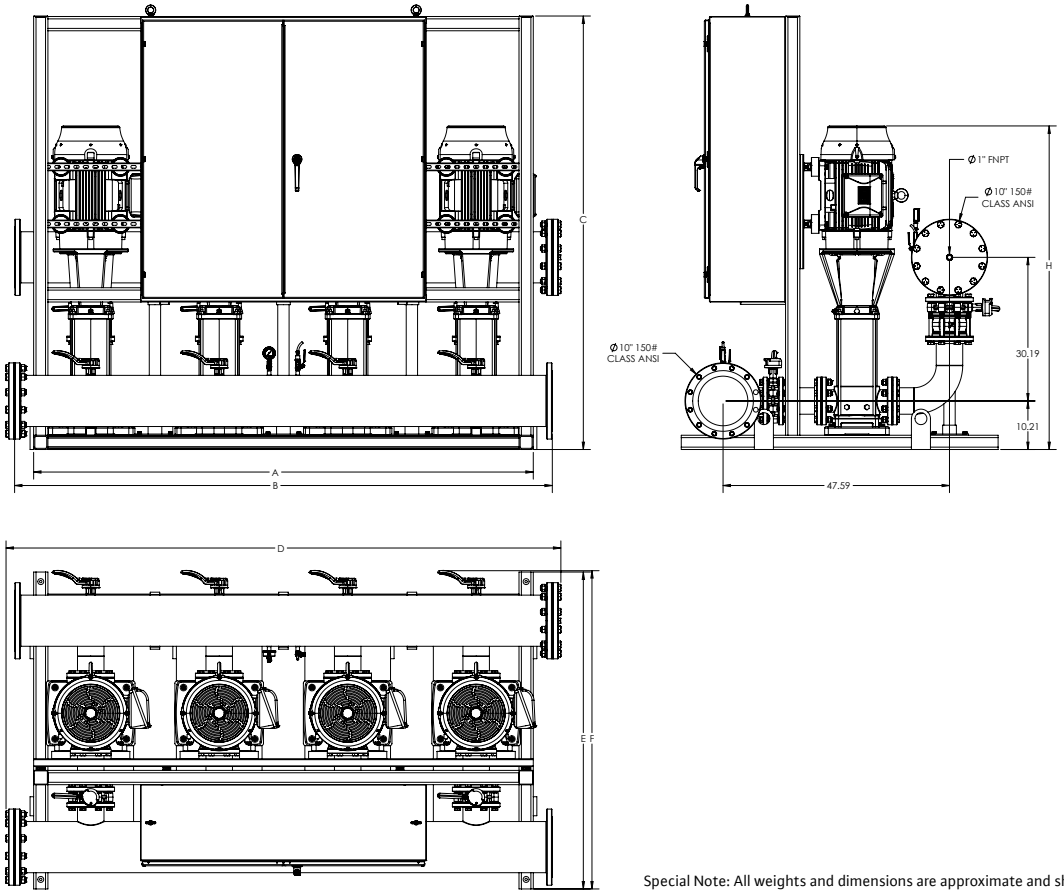
Approval Stamp

Submittal Data Sheet

Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-600

150# Discharge



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

CO4 MVI-600															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-600-1/1	3353626	20	208V-230V	~3	10" 150#	232	96	104	91.1	107.56	66.59	66.93	56.87	4345.89	50.2-45.4	211.8
CO4 MVI-600-1	3353627	25	208V-230V	~3	10" 150#	232	96	104	91.1	107.56	66.59	66.93	59.13	4659.29	63.0-57.6	261
CO4 MVI-600-2/2	3353628	40	208V-230V	~3	10" 150#	232	105	113	103.1	116.56	66.59	66.93	67.8	5517.15	101-92.6	415.8
CO4 MVI-600-2/1	3353629	40	208V-230V	~3	10" 150#	232	105	113	103.1	116.56	66.59	66.93	67.8	5517.15	101-92.6	415.8
CO4 MVI-600-1/1	3354115	20	460V	~3	10" 150#	232	96	104	65.1	107.56	66.59	66.93	56.87	4525.21	22.7	99.8
CO4 MVI-600-1	3354116	25	460V	~3	10" 150#	232	96	104	65.1	107.56	66.59	66.93	59.13	4838.61	28.8	118.2
CO4 MVI-600-2/2	3354117	40	460V	~3	10" 150#	232	105	113	91.1	116.56	66.59	66.93	67.8	5475.3	46.3	197.8
CO4 MVI-600-2/1	3354118	40	460V	~3	10" 150#	232	105	113	91.1	116.56	66.59	66.93	67.8	5475.3	46.3	197.8
CO4 MVI-600-2	3354119	50	460V	~3	10" 150#	232	105	113	91.1	116.56	66.59	66.93	67.8	5687.26	56.1	243.4
CO4 MVI-600-3/2	3354120	60	460V	~3	10" 150#	232	125	133	92.1	136.56	66.59	66.8	77.66	7062.88	67	291
CO4 MVI-600-3/1	3354121	60	460V	~3	10" 150#	232	125	133	92.1	136.56	66.59	66.8	77.66	7063.56	67	291
CO4 MVI-600-1/1	3354604	20	575V	~3	10" 150#	232	96	104	75.1	107.56	66.59	66.93	56.87	4084.24	18.2	86.6
CO4 MVI-600-1	3354605	25	575V	~3	10" 150#	232	96	104	91.1	107.56	66.59	66.93	59.13	4631.29	23	103.8
CO4 MVI-600-2/2	3354606	40	575V	~3	10" 150#	232	105	113	91.1	116.56	66.59	66.93	67.8	5491.3	37	172.6
CO4 MVI-600-2/1	3354607	40	575V	~3	10" 150#	232	105	113	91.1	116.56	66.59	66.93	67.8	5491.3	37	172.6
CO4 MVI-600-2	3354608	50	575V	~3	10" 150#	232	105	113	103.1	116.56	66.59	66.93	67.8	5657.11	44.9	209
CO4 MVI-600-3/2	3354609	60	575V	~3	10" 150#	232	125	133	104.1	136.56	66.59	66.8	77.66	7096.6	53.6	254.2
CO4 MVI-600-3/1	3354610	60	575V	~3	10" 150#	232	125	133	104.1	136.56	66.59	66.8	77.66	7097.28	53.6	254.2

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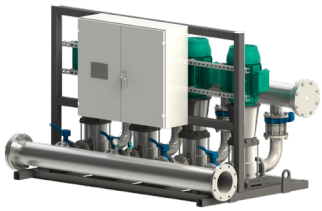
Submittal Data Sheet

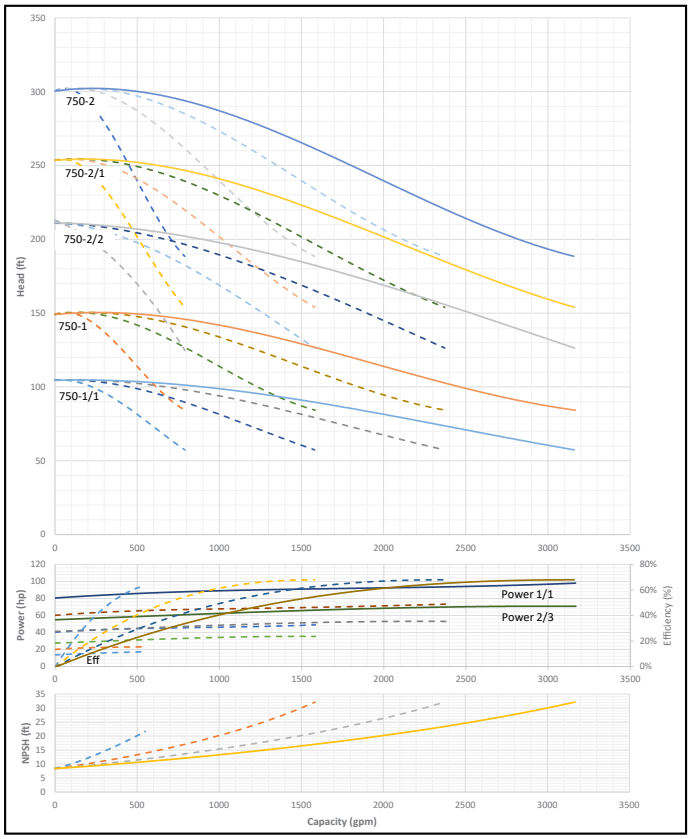
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-750



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

Tag #	Model #	Flow	BOOST PSI	Min. Inlet PSI	HP/Pump	Phase	Voltage	RPM
	CO4 MVI-750				1			3600



Applications

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

Materials of Construction

Volute	AISI 304 Stainless Steel with Cast Iron ANSI flanges
Impeller	AISI 304 Stainless Steel
Shaft	ANSI 431 Stainless Steel
Elastomers	EPDM
Manifold	AISI 304 Stainless Steel
Suction Isolation Valves	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components
Discharge Isolation Valve	150# Cast Iron Wafer Butterfly, All Stainless Steel Wetted Components or 300# 304SS Ball Valve
Check Valve	Wafer Style, 316 Stainless Steel internals, non-slam, plunger type with EPDM seal/ cast iron body
Mechanical Seal	Frame and Springs 304SS
Pressure Transducers	¼" MNPT, 316 Stainless Steel
Pressure Gauges	¼" MNPT, 304 Stainless Steel Housing with 316 Stainless Steel wetted parts
System Base	Epoxy Coated A-500 Steel Tubing and A36 C-Channel/Plates

Technical Data – Operational Ranges

Liquid Temp Range	5°F to 248°F (Min. 32 °F for Domestic Water)
Ambient Temp Range	+32°F to +104 °F

Technical Data – Panel

Liquid Temp Range	208-230/460~3 or 575~3
Enclosure	NEMA 3R up to 20 HP NEMA 12 for 25 HP and above (NEMA 4 and 4X available upon request)
Standard	Meets UL 508A
Variable Frequency Drives	Danfoss FC-101: • 1 HP to 3 HP 208-230V~1 IN / 208-230V~3 OUT • 1 HP to 60 HP 208-230V~3 • 1 HP to 100 HP 460V~3 • 1 HP to 100 HP 575V~3

Technical Data – PLC

User Interface	7" Diagonal Color LCD Touchscreen
Display Resolution	800 x 480 Pixels
Supply Voltage	24VDC
Max. Current Consumption	320mA@24V
Number of Analog Inputs	4
Number of Analog Outputs	4
Number of Digital Inputs	18
Number of Digital Outputs	17
Onboard Communications	Modbus Protocol (Optional Gateways for BACnet, LonWorks, and CANbus)
Ethernet Port	RJ45 port capable of transmitting data 10/100Mbps
Additional Ports	2.0 USB Port; Micro-SD Port

Motor Data

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

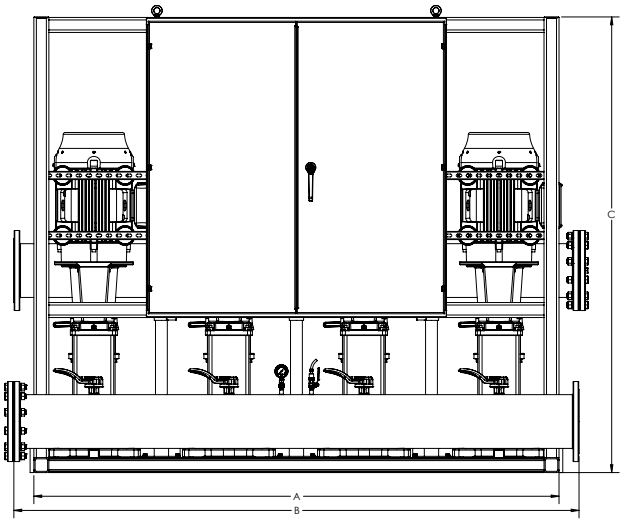
Approval Stamp

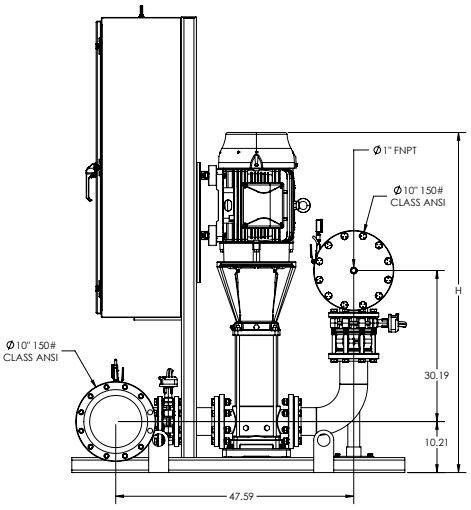
Submittal Data Sheet

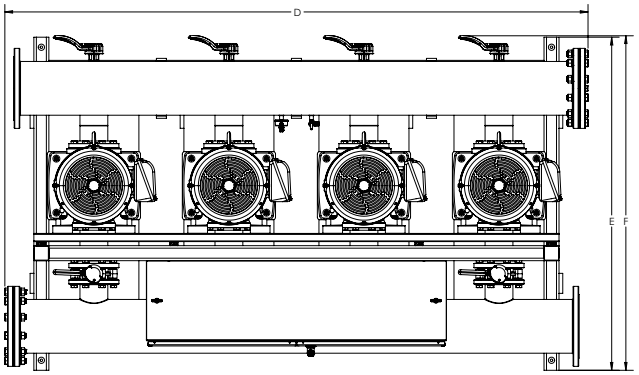
Wilo-CO MVI – NSF 61/372 Pressure Boosting System

CO4 MVI-750

150# Discharge







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

CO4 MVI-750															TEFC Motor Data (Per Motor)	
							Dimensions – Inches (In)								Motor FLA (per pump)	System FLA
Model	**Article**	**HP**	**Voltage**	**Phase**	**System Header Size (ANSI)**	**Pmax (PSI)**	**A (in)**	**B (in)**	**C (in)**	**D (in)**	**E (in)**	**F (in)**	**H (in)**	**System Weight (Lbs)**	**(A)**	
CO4 MVI-750-1/1	3353638	25	208V-230V	~3	10" 150#	232	96	104	91.1	107.56	66.59	66.93	59.13	4689.33	63.0-57.6	261
CO4 MVI-750-1	3353639	30	208V-230V	~3	10" 150#	232	96	104	103.1	107.56	66.59	66.93	59.13	4759.81	76.7-68.4	305
CO4 MVI-750-2/2	3353640	40	208V-230V	~3	10" 150#	232	105	113	103.1	116.56	66.59	66.93	67.8	5513.15	101-92.6	415.8
CO4 MVI-750-1/1	3354127	25	460V	~3	10" 150#	232	96	104	65.1	107.56	66.59	66.93	59.13	4868.65	28.8	118.2
CO4 MVI-750-1	3354128	30	460V	~3	10" 150#	232	96	104	65.1	107.56	66.59	66.93	59.13	4914.77	34.2	139.4
CO4 MVI-750-2/2	3354129	40	460V	~3	10" 150#	232	105	113	91.1	116.56	66.59	66.93	67.8	5471.3	46.3	197.8
CO4 MVI-750-2/1	3354130	50	460V	~3	10" 150#	232	105	113	91.1	116.56	66.59	66.93	67.8	5680.74	56.1	243.4
CO4 MVI-750-2	3354131	60	460V	~3	10" 150#	232	125	133	92.1	136.56	66.59	66.8	71.53	6972.04	67	291
CO4 MVI-750-1/1	3354616	25	575V	~3	10" 150#	232	96	104	91.1	107.56	66.59	66.93	59.13	4661.33	23	103.8
CO4 MVI-750-1	3354617	30	575V	~3	10" 150#	232	96	104	91.1	107.56	66.59	66.93	59.13	4739.45	27.4	127
CO4 MVI-750-2/2	3354618	40	575V	~3	10" 150#	232	105	113	91.1	116.56	66.59	66.93	67.8	5487.3	37	172.6
CO4 MVI-750-2/1	3354619	50	575V	~3	10" 150#	232	105	113	103.1	116.56	66.59	66.93	67.8	5650.59	44.9	209
CO4 MVI-750-2	3354620	60	575V	~3	10" 150#	232	125	133	104.1	136.56	66.59	66.8	71.53	7005.76	53.6	254.2

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