

Submittal Data Sheet

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

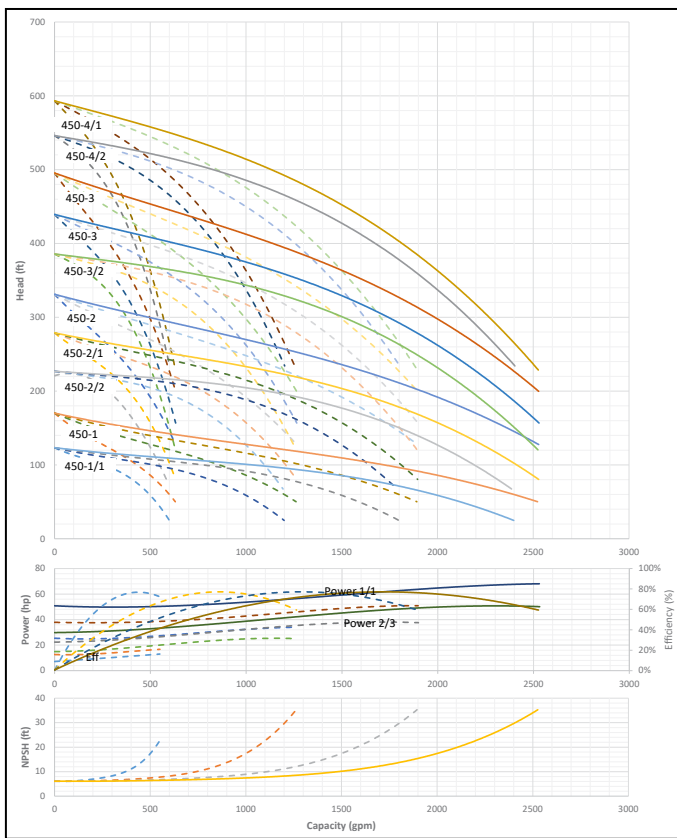


CO4 MVI-450



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

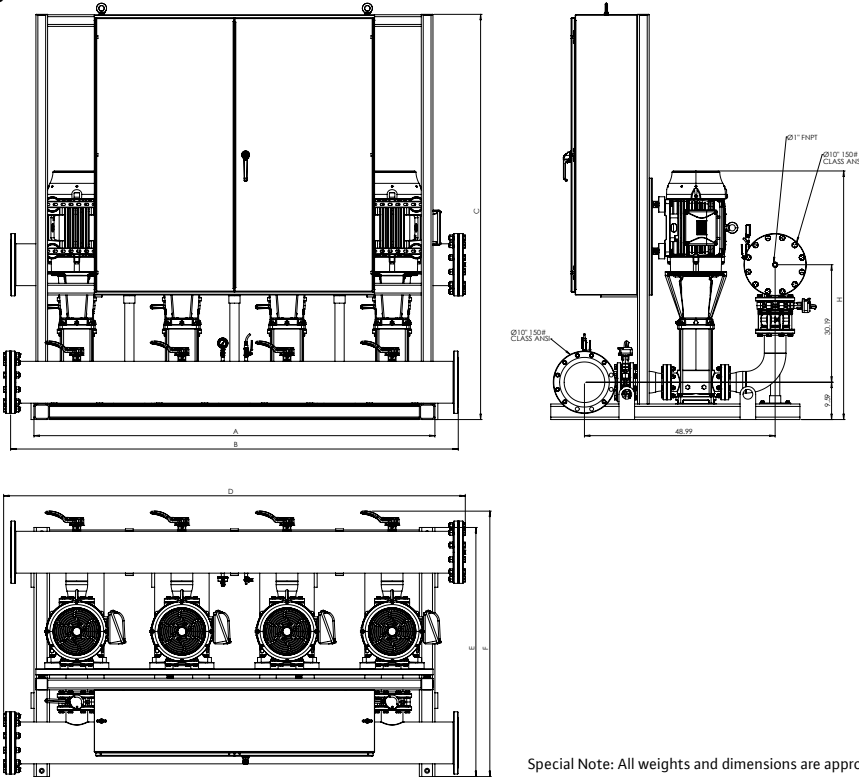
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Wilo-CO MVI - NSF 61/372 Pressure Boosting System



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)

Model	Article	HP	Voltage	Phase	System Header Size (ANSI)	Pmax (PSI)	Dimensions - Inches (in)							System Weight (Lbs)	Motor FLA (per pump)	System FLA
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	H (in)		(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

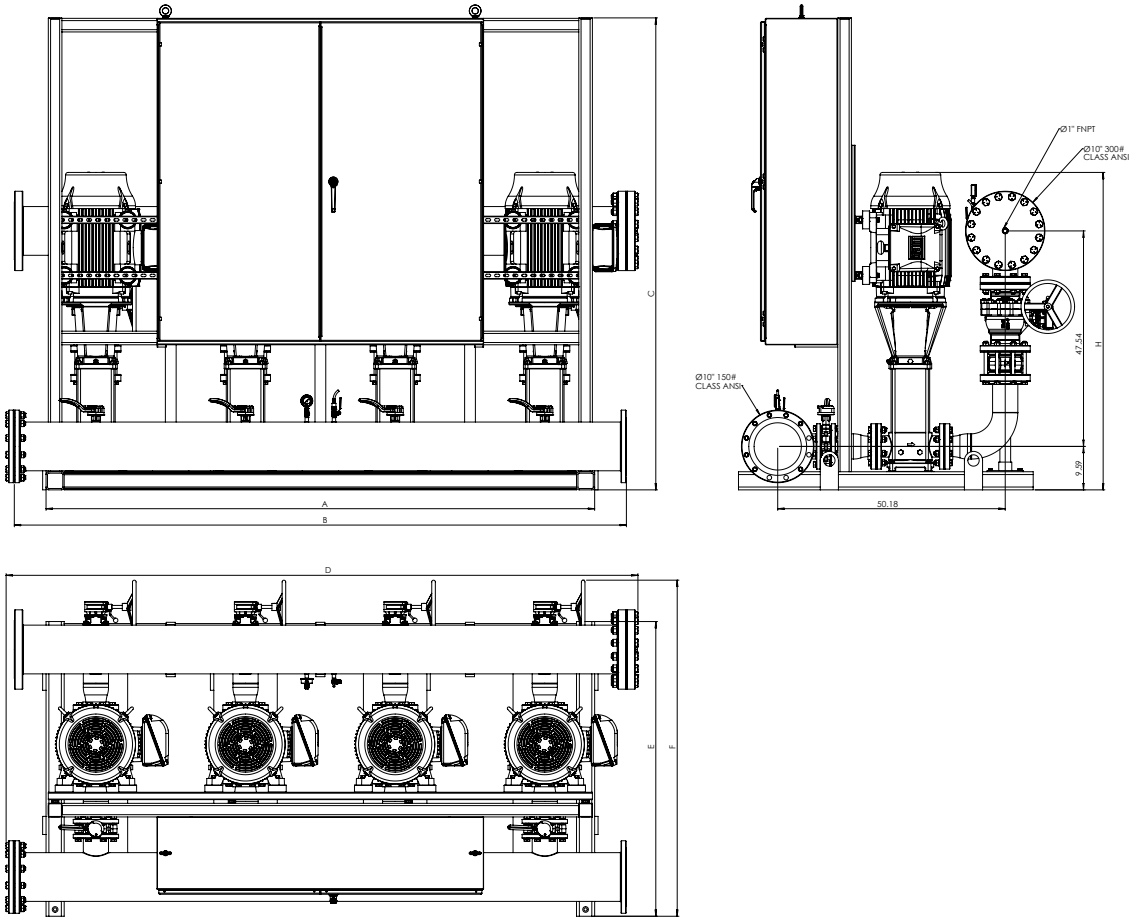
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Wilo-CO MVI - NSF 61/372 Pressure Boosting System



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