

Submittal Data Sheet

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

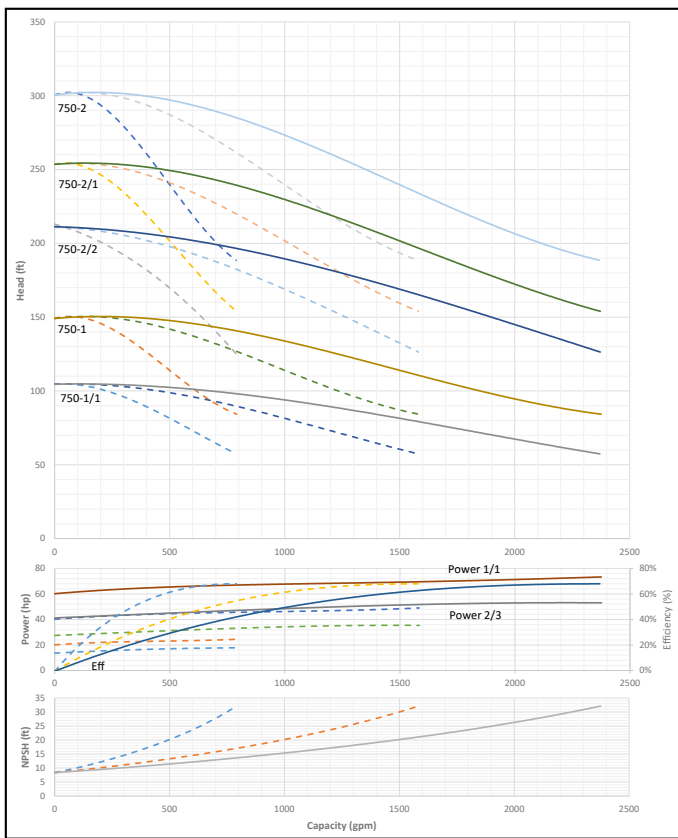


CO3 MVI-1SB-750



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

| Tag # | Model # | Flow | BOOST PSI | Min. Inlet PSI | HP/Pump | Phase | Voltage | RPM |
|-------|-----------------|------|-----------|----------------|---------|-------|---------|------|
| | CO3 MVI-1SB-750 | | | | 1 | | | 3600 |



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

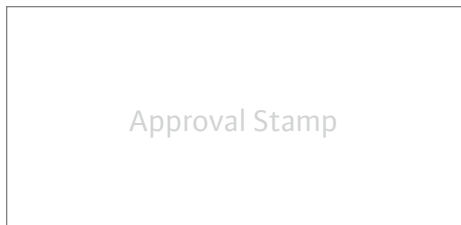
| Materials of Construction | |
|---------------------------|---|
| Volute | AISI 304 Stainless Steel with Cast Iron ANSI flanges |
| Impeller | AISI 304 Stainless Steel |
| Shaft | ANSI 431 Stainless Steel |
| Elastomers | EPDM |
| Manifold | AISI 304 Stainless Steel |
| Suction Isolation Valves | 150# 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 |



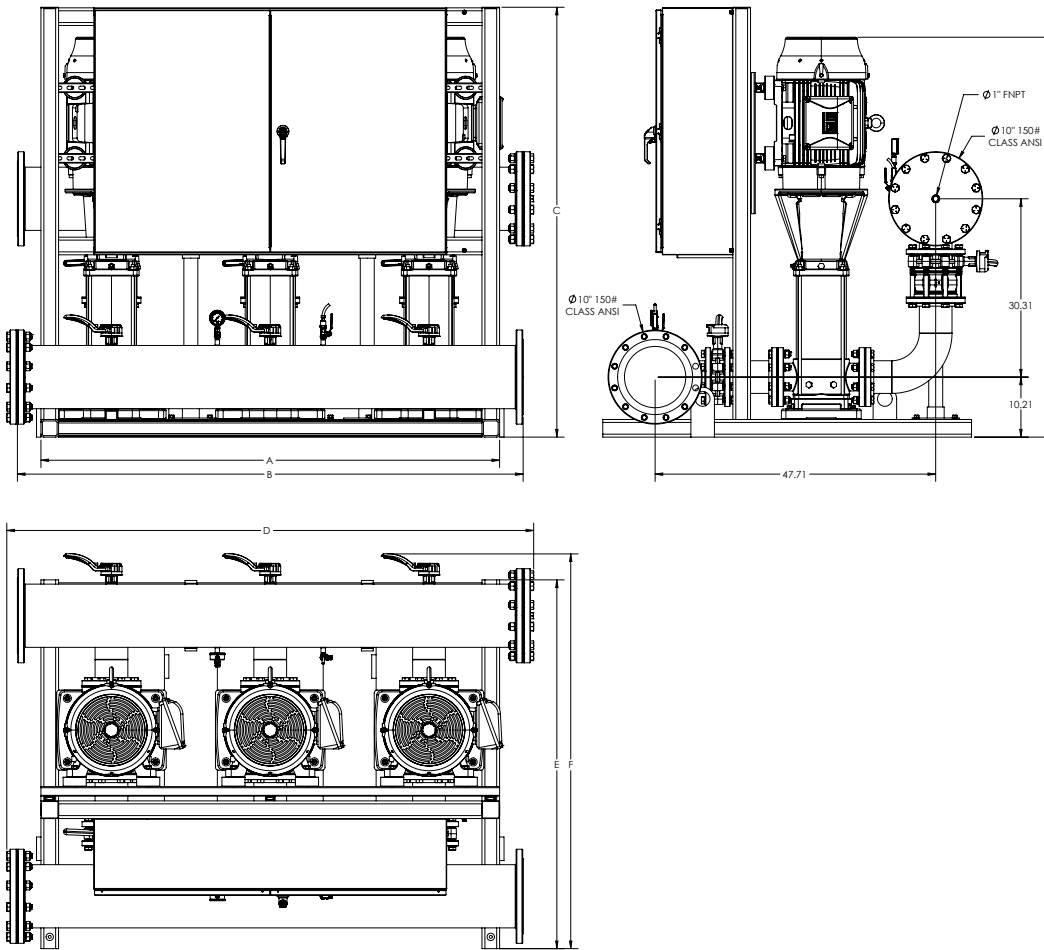
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CO3 MVI-1SB-750

150# Discharge



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

CO3 MVI-1SB-750

| CO3 MVI-1SB-750 | | | | | | | | | | | | | | TEFC Motor Data (Per Motor) | | | |
|---------------------|---------|----|-----------|-------|------------------------------|---------------|--------------------------|----|-------|--------|----|-------|-------|--------------------------------|------------------------|-----------|--------|
| Model | Article | HP | Voltage | Phase | System Header Size (ANSI) | Pmax (PSI) | Dimensions - Inches (in) | | | | | | | | System Weight (Lbs) | Motor FLA | System |
| | | | | | | | A | B | C | D | E | F | H | (A) | | FLA | |
| CO3 MVI-1SB-750-1/1 | 3354966 | 25 | 208V-230V | ~3 | 8" 150# | 232 | 72 | 80 | 69.1 | 83.37 | 61 | 65.93 | 59.13 | 3435.71 | 63.0-57.6 | 196 | |
| CO3 MVI-1SB-750-1 | 3354967 | 30 | 208V-230V | ~3 | 8" 150# | 232 | 72 | 80 | 91.1 | 83.37 | 61 | 65.93 | 59.13 | 3556.25 | 76.7-68.4 | 229 | |
| CO3 MVI-1SB-750-2/2 | 3354968 | 40 | 208V-230V | ~3 | 8" 150# | 232 | 78 | 86 | 91.1 | 89.37 | 61 | 65.93 | 67.8 | 4104.37 | 101-92.6 | 312.1 | |
| CO3 MVI-1SB-750-1/1 | 3355256 | 25 | 460V | ~3 | 8" 150# | 232 | 72 | 80 | 65.1 | 83.37 | 61 | 65.93 | 59.13 | 3684.22 | 28.8 | 88.9 | |
| CO3 MVI-1SB-750-1 | 3355257 | 30 | 460V | ~3 | 8" 150# | 232 | 72 | 80 | 65.1 | 83.37 | 61 | 65.93 | 59.13 | 3718.81 | 34.2 | 104.8 | |
| CO3 MVI-1SB-750-2/2 | 3355258 | 40 | 460V | ~3 | 8" 150# | 232 | 78 | 86 | 75.1 | 89.37 | 61 | 65.93 | 67.8 | 4030.07 | 46.3 | 148.6 | |
| CO3 MVI-1SB-750-2/1 | 3355259 | 50 | 460V | ~3 | 8" 150# | 232 | 78 | 86 | 75.1 | 89.37 | 61 | 65.93 | 67.8 | 4187.15 | 56.1 | 182.8 | |
| CO3 MVI-1SB-750-2 | 3355260 | 60 | 460V | ~3 | 8" 150# | 232 | 90 | 98 | 71.1 | 101.37 | 61 | 65.93 | 77.13 | 5069.36 | 67 | 218.5 | |
| CO3 MVI-1SB-750-1/1 | 3355546 | 25 | 575V | ~3 | 8" 150# | 232 | 72 | 80 | 69.1 | 83.37 | 61 | 65.93 | 59.13 | 3414.71 | 23 | 78.1 | |
| CO3 MVI-1SB-750-1 | 3355547 | 30 | 575V | ~3 | 8" 150# | 232 | 72 | 80 | 69.1 | 83.37 | 61 | 65.93 | 59.13 | 3473.3 | 27.4 | 95.5 | |
| CO3 MVI-1SB-750-2/2 | 3355548 | 40 | 575V | ~3 | 8" 150# | 232 | 78 | 86 | 75.1 | 89.37 | 61 | 65.93 | 67.8 | 4042.07 | 37 | 129.7 | |
| CO3 MVI-1SB-750-2/1 | 3355549 | 50 | 575V | ~3 | 8" 150# | 232 | 78 | 86 | 103.1 | 89.37 | 61 | 65.93 | 67.8 | 4224.96 | 44.9 | 157 | |
| CO3 MVI-1SB-750-2 | 3355550 | 60 | 575V | ~3 | 8" 150# | 232 | 90 | 98 | 103.1 | 101.37 | 61 | 65.93 | 70.53 | 5160.91 | 53.6 | 190.9 | |