

System Verification Checklist

[Project Name]

System: **Hydronic Pump**

Tag:

Service: **Cooling/Heating Water Loop**

<i>Installation Check/Reference</i>	<i>Provided</i>	<i>Initials</i>	<i>Date</i>	<i>IC</i>
Manufacturer:				MC
Model Number:				MC
General Checks				
Installed In Accordance With Manufacturer's Instructions, Spec. 230000-1.16				MC
Permanent Label Affixed, Spec. 230500-2.4, 3.5				MC
Unit Service Access, Spec. 230500-3.6.C, 232123-3.1.B				MC
Unit Installed Level and Plumb, Spec. 230500-3.6.B, 233423-3.1.A				MC
Pump and Motor Shaft Is Installed in Horizontal Position, Spec. 232123-2.3.B				MC
Installed On Concrete Pad, H3.3, H4.1				MC
Installed on Inertia Base for Vibration Isolation, H4.1, H5.1, Spec. 232123-3.1.F				MC
Pump Alignment Complete as Specified, Spec. 232123-3.2				MC
Install Support for Piping, H4.1				MC
Drain with Garden Hose Connection, H4.1				MC
Suction Diffuser with Integral Strainer (Suction), H4.1, H5.1, Spec. 232123-2.4.A, 3.3.E				MC
Flexible Connections Installed, H4.1, Spec. 232123-3.3.F				MC
Pressure Gauges w/ 1/2" Ball Valve, H4.1, Spec. 232123-3.3.G				MC
Check Valve (Discharge), H4.1				MC
Butterfly Valves, H4.1				MC
OSHA Coupling Guard, H4.1, Spec. 232123-2.3.E				MC
Electrical				
Unit Wired (208V/3Ph.) to Panelboard ____/Circuits ____, E5.1, E5.3				EC
Furnished and Install All Field Wiring Connection to Unit VFD As Required Per Mfr. Recommendations, E5.1				EC
50A/3P Circuit Breaker Installed, E5.1				EC
Grounding for Components and Unit Installed, Spec. 260526				EC

Installing Contractors: **MC**-Mechanical Contractor; **EC**-Electrical Contractor; **CC**-Controls Contractor

"This System Verification Checklist represents FCG's standard test protocol, basic functional test, and FCG's best understanding of the designed sequence of operation. This document DOES NOT define design intent, supersede contract documents, or direct means & methods."

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Controls				
DDC Programmed, Spec. 230993-1.11.A				CC
Control Devices and Wiring Complete				CC
Unit Interlocked to Frontend Graphics As Specified/Indicated, Spec. 230993-1.11.B				CC
HOA Switch, Spec. 230993-1.11.A				CC
Differential Pressure Sensors Installed/Located Per Drawings, Spec. 230993-1.11.A.2				CC
Variable Frequency Drive				
Installation In Accordance With Recommendations of VFD Manufacturer In Installation Manual				MC
Engage A Factory-Authorized Service Representative to Inspect Field-Assembled Components and Equipment Installation, Including Pretesting and Adjusting VFD's, Spec. 230900-2.5.D				MC
Integral Bypass, H5.1				MC
Interfaced into DDC system				MC
VFD Powered (wired to controlled equipment)				MC
Drive Size Matches Motor Size				MC
Permanent Label Affixed and UL Stamp Approved, Spec. 230553				MC
Operation Checked in HAND, OFF, AUTO and Bypass				MC
Safeties Are Active In All Modes				MC

<i>Notes:</i>

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