

System Verification Checklist

[Project Name]

 System: **Energy Recovery Unit**
 Building:

 Tag: **ERU-1**
 Location:

Service:

<i>Installation Check/Reference</i>	<i>Provided</i>	<i>Initials</i>	<i>Date</i>	<i>IC</i>
Manufacturer:				MC
Model Number:				MC
General Checks				
Unit Identification, Spec. 230553-3.2				MC
Install In Accordance with Mfr. Instructions, Spec. 237200.99-3.1				MC
Level and Plumb Installation				MC
Casing condition good: no dents, leaks, door gaskets installed				MC
4" Concrete Pad, M-401/Note 1				MC
Access doors close tightly - no leaks				MC
Service Access, Spec. 230500-3.4				MC
R-410a Refrigerant, M-601				MC
Vibration Isolation Curb Provided (by Mfr.), M-601, Spec. 237200.99-2.1.J				MC
Access Doors, Spec. 237200.99-2.1.B				MC
Ductwork				
Duct joint sealant properly installed				SM
No apparent severe duct restrictions				SM
OSA intakes located away from pollutant sources & exhaust outlets				SM
Branch duct control dampers operable				SM
Duct silencer (RA-1R) Installed				SM
Duct silencer (SA-1S) Installed				SM
Outside Air Fan				
Spec. 237200.99-2.1.D				MC
Fan Rotation Verified/Correct				MC
Outside Air Fan and Motor Aligned				MC
Outside Air Fan Belt Properly Tensioned				MC
Outside Air Fan and Motor Lubricated				MC
Outside Air Fan Acceptable Noise & Vibration				MC

Remarks: IC -Installing Contractor; SM -Sheet Metal Contractor; MC -Mechanical Contractor; EC -Electrical Contractor; CC -Controls Contractor
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Exhaust Fan				
Spec. 237200.99-2.1.D				MC
Fan Rotation Verified/Correct				MC
Exhaust Fan and Motor Aligned				MC
Exhaust Fan Belt Properly Tensioned				MC
Exhaust Fan and Motor Lubricated				MC
Exhaust Fan Acceptable Noise & Vibration				MC
DX Cooling Coil				
DX Cooling Coil, M-701				MC
Two-Way Temperature Control Valve, M-701				MC
Coil Drain Pan, Spec. 237200.99-2.1.F				MC
Hot Gas Reheat Coil				
M-701, Spec. 237200.99-2.1.F.3				MC
Enthalpy Energy Recovery Heat Wheel				
Energy Wheel, M-701, Spec. 237200.99-2.1.C				MC
Wheel Discharge Air Temperature Sensor, M-701				CC
Filter and Dampers				
MERV 13 Outside Air Filter, M-601, Spec. 237200.99-2.1.G				MC
MERV 13 Return Air Filter, M-601, Spec. 237200.99-2.1.G				MC
Filter Pressure Monitoring, Spec. 237200.99-2.1.G				MC
Filters Accessible Pull Access				MC
Exhaust Air Damper installed, M-701				MC
Outside Air Damper installed, M-701				MC
Dampers close tightly				MC
Dampers (OA, EA, SA) stroke fully without binding and spans calibrated and BAS reading site verified				MC
Electrical				
Unit Wired (480V/3Ph.) to Switchboard MDP, E-605				EC
Single point power connection, M-601, Spec. 237200.99-2.1.I				EC
Fused 50A Unit Disconnect, E-605				EC
Electrical connections tight				EC
Convenience Receptacles, Spec. 237200.99-2.1.I				EC
Unit Lights; Lights Wired to Panel B2C1/Circuit 52, Spec. 237200.99-2.1.I, E-605				EC
Power disconnects located within site of the unit it controls				EC
Grounding installed for components and unit, Spec. 260526				EC

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Electrical (continued)				
Unit Safeties installed and operational				EC
Controls				
Control devices and wiring complete				CC
Control system interlocks connected and functional				CC
Unit Interlocked to Front End Graphics As Specified/Indicated, M-701				CC
DDC Controller, Spec. 237200.99-2.1.H				CC
BAS Interface, Spec. 237200.99-2.1.H.2				CC
Sensors				
Freezestat (low-limit safety), M-701				CC
Discharge Air Humidity Sensor, M-701				CC
Discharge Air Temperature Sensor, M-701				CC
Return Air Temperature Sensor, M-701				CC
Return Air Humidity Sensor, M-701				CC
Return Air Smoke Detector; Hardwired to Fan, M-701				CC
Outside Air Temperature Sensor, M-701				CC
Supply Air Smoke Detector; Hardwired to Fan, M-701				CC
Exhaust Discharge Air Temperature Sensor, M-701				CC
Variable Frequency Drives (EA and SA)				
VFD Identification, Spec. 230553, 252923-3.3				MC
Service/workspace clearance, Spec. 262923-3.2.A				MC
Install heaters, Spec. 262923-3.2.E				MC
Installation In Accordance With Recommendations of VFD Manufacturer In Installation Manual				MC
Control Wiring Installation, Spec. 262923-3.4				EC
Fuse Thermal-Protector Monitoring Relays, Spec. 262923-3.2.F				EC
Interfaced Into DDC System				MC
Drive Size Matches Motor Size				MC
Operation Checked In HAND, OFF, AUTO and Bypass				MC
Safeties Are Active In All Modes				MC

Notes:

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