Site and Equipment Surveying for Turntide RTU HVAC Retrofits

Survey Questions to Set Up Your Project for Success For Rooftop Units (RTUs)

TURNTIDE

An important step in rolling out Turntide HVAC retrofits to your customers involves the evaluation and surveying of a customers' sites and existing HVAC systems. This information enables you to determine the right Turntide solutions to specify for installation.

You can use this list to build questions into your preferred surveying tool, or as a reference document when you're preparing for a site visit or when you're on-site.

IMPORTANT:

This document should be only used for field notes, but NOT as a substitute for the surveying process.

Turntide Site and Equipment Surveying Questions

#	Question	Answer	#	Question	Answer
1	Photo of Unit ID (Example: RTU1, etc.)	☐ Photo taken	2	Photo of the Entire Unit Nameplate	☐ Photo taken
3	Manufacturer Name		4	Model Name	
5	Serial Number		6	Tonnage (if applicable)	
7	RTU Voltage		8	RTU Phase	
9	Number of Heating Stages	☐ 3 ☐ 2 ☐ 1 ☐ 0	10	Number of Cooling Stages	☐ 3 ☐ 2 ☐ 1 ☐ 0
11	Photo of Existing Motor Nameplate	☐	12	Existing Motor Manufacturer Name	
13	Existing Motor Model Name		14	Existing Motor Serial Number	
15	Horsepower		16	Frame	
17	Voltage		18	Phase	
19	Max RPM		20	Efficiency	☐ Premium ☐ Standard
21	Fan Type	☐ Exhaust ☐ Return ☐ Supply			
22	VFD Installed On-Site	☐ Yes ☐ No If Yes: **1.** Photo of VFD **2.** Min and Max Speed	23	Photos of the Controls Cabinet	☐ Photo taken

24	Photos of the Control Wiring Diagram (if applicable)	☐ Photo taken			
25	Photos or Video Confirming RTU Control Board Receives Digital Input Calls for Fan (G), Cooling Stages (Y1 and Y2), Heating Stages (W1 and W1) from Thermostat or BAS That Can Be Intercepted by a Turntide Motor Controller Provide Notes to Explain the Control Scheme (If Applicable)				☐ Photo taken
26	Indoor Supply Fan Control Scheme Does the indoor air supply fan ONLY run when cooling or heating is called for (AUTO), or does it run continuously (ON)? If you can't determine AUTO or ON, please choose UNSURE				☐ Auto ☐ On ☐ Unsure
27	AC Voltage Supplied to the Fan Blower Motor Note and Record All 3 Phases		28	Measure the Current Draw of the Fan Blower Motor. Note and Record All 3 Phases	
29	Picture(s) of the Fan Cabinet Confirm Turntide Motor Controller Fits in Fan Cabinet	☐ Photo taken	30	Motor Pulley Outside Diameter (in Inches)	
31	Motor Shaft Diameter (in Inches)		32	Motor Shaft Length (in Inches)	
33	Largest Diameter Motor That Could Replace the Existing Motor (in Inches)				
34	Pre-Existing Issues / Issues with Unit Performance Identified Throughout the Survey (If applicable)				