

HAZARDOUS AREA AIRCONDITIONING EQUIPMENT SELECTION QUESTIONNAIRE

Select everything that applies to your site. This helps us understand your working environment so we can match you with an HVAC unit that meets your exact safety classification, conditions, and operational needs.

CLIENT & PROJECT INFORMATION

Company / Organization _____	Contact Name _____	Date _____
Project Name / Site Location _____	Phone Number _____	Email Address _____

1. HAZARDOUS AREA CLASSIFICATION

Area Classification System (select one)

- NEC 500 — Division System
- NEC 505 / ATEX / IECEx — Zone System
- Unclassified / Safe Area

NEC 500 Classification (if applicable)

- Class I, Division 1 (Gases/vapors normally present)
- Class I, Division 2 (Gases/vapors abnormally present)
- Class II, Division 1 (Dusts normally present)
- Class II, Division 2 (Dusts abnormally present)

NEC 505 / ATEX / IECEx Zone Classification (if applicable)

- Zone 1 (Gases/vapors likely to occur)
- Zone 2 (Gases/vapors unlikely to occur)
- Zone 21 (Dusts likely to occur)
- Zone 22 (Dusts unlikely to occur)

Gas or Dust Group (select all that apply)

- Group A & B / IIC (Acetylene, Hydrogen)
- Group C / IIB (Ethylene)
- Group D / IIA (Propane, Methane)
- Group E, F, G / IIIA, IIIB, IIIC (Combustible Dusts)

Surface Temperature Class — T-Rating (select one)

- T3 ($\leq 200^{\circ}\text{C}$)
- T3A / T3B / T3C
- T4 ($\leq 135^{\circ}\text{C}$)
- T5 ($\leq 100^{\circ}\text{C}$)

ATEX Component Certification Scope (for Split/Mini-Split systems)

- Condenser (Outdoor Unit) ONLY certified for Zone 2
- Condenser (Outdoor Unit) ONLY certified for Zone 1
- BOTH Evaporator (Indoor) and Condenser (Outdoor) certified for Zone 2
- BOTH Evaporator (Indoor) and Condenser (Outdoor) certified for Zone 1

2. ENVIRONMENTAL AND AMBIENT CONDITIONS**Maximum Outdoor Ambient Temperature (select one)**

- Up to 104°F (40°C)
- Up to 122°F (50°C)
- Up to 131°F (55°C)
- Above 131°F (55°C) — specify below

Atmospheric Contaminants (select all that apply)

- Marine / Offshore Salinity
- High Hydrogen Sulfide (H₂S)
- High Sulfur Dioxide (SO₂)
- Standard Industrial (Non-corrosive)

Enclosure Ingress Protection Rating (select one)

- NEMA 4X / IP66 (Corrosion-proof, Watertight)
- NEMA 4 / IP65 (Watertight)
- NEMA 3R / IP54 (Weatherproof)

3. THERMAL LOAD AND REQUIRED COOLING CAPACITY

Estimated Cooling Capacity Required (select one)

- 6,000–12,000 BTU/hr (0.5–1.0 Ton)
- 30,000–36,000 BTU/hr (2.5–3.0 Tons)
- Greater than 60,000 BTU/hr (custom scope)
- 18,000–24,000 BTU/hr (1.5–2.0 Tons)
- 42,000–60,000 BTU/hr (3.5–5.0 Tons)

Internal Heat Dissipation — Electronics / VFDs (select one)

- Under 500 Watts
- 1,501 to 3,000 Watts
- 500 to 1,500 Watts
- Above 3,000 Watts

4. MECHANICAL AND MOUNTING SPECIFICATIONS

Mounting Configuration (select one)

- Wall Mount (Exterior side-mount)
- Split System (Remote condenser)
- Roof Mount
- Ductless Mini-Split

Housing Material (select one)

- 316 Stainless Steel (Maximum corrosion protection)
- 304 Stainless Steel
- Powder-Coated Carbon Steel

Coil Protective Coating (select one)

- Factory Standard Copper/Aluminum
- Blygold Coating
- Heresite Coating
- Epoxy E-Coat

5. ELECTRICAL CONFIGURATION

Supply Voltage and Phase (select one)

- 115V, Single-Phase
- 230V, Three-Phase
- 575V, Three-Phase
- 230V, Single-Phase
- 460V / 480V, Three-Phase

Line Frequency (select one)

- 60 Hz (Standard North America)
- 50 Hz (Standard Europe / Middle East / Asia)

6. ADDITIONAL SYSTEM OPTIONS**Fresh Air Purge and Pressurization (select one)**

- Required
- Not Required

Corrosion Protection Scope (select all that apply)

- Condenser Coating Only
- Evaporator Coating Only
- Both Condenser and Evaporator Coating

■ SAFETY NOTICE

Safety is life-or-death in hazardous industrial environments. Intrinsically Safe Store requires verified area classification and environmental data before finalizing any equipment recommendation, to protect both personnel and facility compliance.