## Appendix C.  Equipment Data Sheet Examples

**Motor Data Sheet**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Data Sheet No.: EDS - XXXXXX | | | | | | Rev.: | | | Specification No.: | | | |
| Project ID: | | Project Title: | | | | | | | | | | |
| TA- | Facility No.: | | | | | | Facility Name: | | | | | |
| Equipment ID: | | | | | Equipment Name: | | | | | | | |
| Selection: | Manufacturer: | | | | | | | | | Model No.: | | |
|  | | | Prepared By | | | | | Checked By | | | Approved By | |
| Name | | |  | | | | |  | | |  | |
| Z Number | | |  | | | | |  | | |  | |
| Signature | | |  | | | | |  | | |  | |
| Date | | |  | | | | |  | | |  | |
| **Specification** | | | | | | | | | | | | |
| Rated HP | | | |  | | | | | NEMA Design Letter | | |  |
| Volts/Phase/Hz | | | |  | | | | | Starting Torque, lb-ft | | |  |
| Locked Rotor Current, Amps. | | | |  | | | | | Pull-out Torque, lb-ft | | |  |
| Temperature Rise, o F | | | |  | | | | | Duty Rating | | |  |
| Locked Rotor KVA Code | | | |  | | | | | Sound Level | | |  |
| Full Load Torque, lb-ft | | | |  | | | | | Bearings | | |  |
| Rotation Facing Coupling | | | |  | | | | | Lubrication | | |  |
| Electrical Type | | | |  | | | | | Insulation | | |  |
| Enclosure | | | |  | | | | | Couplings Furnished By | | |  |
| Altitude above sea level, ft | | | |  | | | | | Base Furnished By | | |  |
| Full Load Current, Amps | | | |  | | | | | Non-Standard Mount or Extension | | |  |
| Ambient Temperature, o F | | | |  | | | | |  | | |  |
| **Performance** | | | | | | | | | | | | |
| Power Factor Percent | | | |  | | | | | Efficiency Percent | | |  |
|  | | | |  | | | | |  | | |  |
| **General Information** | | | | | | | | | | | | |
| Serial Number | | | |  | | | | | Frame Number | | |  |
|  | | | |  | | | | |  | | |  |
| **Type Mounting** | | | | | | | | | | | | |
| Foot, Face, or Flanged | | | |  | | | | | Ceiling, Floor, or Wall | | |  |
| Horizontal or Vertical | | | |  | | | | |  | | |  |

* **Remarks:** Motor shall comply with applicable NEMA Standards

|  |  |  |  |
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| **Furnish the following manufacturer’s data in the quantities indicated** | **NUMBER OF COPIES** | | |
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| 2. Operational and performance data |  |  |  |
| 3. Literature and parts list |  |  |  |
| 4. Operating and maintenance instructions |  |  |  |
| 5. Installation instructions |  |  |  |
| 6. Test and inspection reports |  |  |  |
| 7. Materials Certification |  |  |  |

**Heat Exchanger Data Sheet**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Data Sheet No.: EDS - XXXXXX | | | | | | | Rev.: | | | | Specification No.: | | | | | |
| Project ID: | | Project Title: | | | | | | | | | | | | | | |
| TA- | Facility No.: | | | | | | | | Facility Name: | | | | | | | |
| Equipment ID | | | | | Equipment Name: | | | | | | | | | | | |
| Selection: | Manufacturer: | | | | | | | | | | | Model No.: | | | | |
|  | | | Prepared By | | | | | | | Checked By | | | | Approved By | | |
| Name | | |  | | | | | | |  | | | |  | | |
| Z Number | | |  | | | | | | |  | | | |  | | |
| Signature | | |  | | | | | | |  | | | |  | | |
| Date | | |  | | | | | | |  | | | |  | | |
| **Specification** | | | | | | | | | | | | | | | | |
| Type of Exchanger | | | Shell and Tube | | | | | | | Plate and Frame | | | | Other | | |
| Parameter | | | | Fluid 1 | | | | Fluid 2 | | Parameter | | | | | Fluid 1 | Fluid 2 |
| Fluid Circulated | | | |  | | | |  | | Specific Heat, Btu/lb F | | | | |  |  |
| Vapor, lb/hr | | | |  | | | |  | | Thermal Conductivity. Btu/hr ft F | | | | |  |  |
| Liquid, lb/hr. | | | |  | | | |  | | Latent Heat, Btu/lb | | | | |  |  |
| Liquid Vaporized, Ib/hr | | | |  | | | |  | | Temperature, F | | | | |  |  |
| Vapor Molecular Weight | | | |  | | | |  | | Operating pressure, psig | | | | |  |  |
| Viscosity, cP | | | |  | | | |  | | Allowable pressure drop, psig | | | | |  |  |
|  | | | |  | | | |  | |  | | | | |  |  |
| Fouling Resistance: | | | | | | | | | | | | | | | | |
| Heat Transferred, Btu/hr | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| **Construction** | | | | | | | | | | | | | | | | |
| TEMA Class | | | | | | | | | | | | | | | | |
| **Shell and Tube Configuration** | | | | | | | | | | | | | | | | |
| Front End Head Type: | | | | | | Shell Type: | | | | | | | Rear End Head Type: | | | |
| Design Pressure, psig | | | | | | | | | | Design Temperature, F | | | | | | |
| Tube Material | | | | | | | | | | Shell Material | | | | | | |
| **Corrosion Allowance:** | | | | | | | | | | | | | | | | |
| **Code Requirements** | | | | | | | | | | | | | | | | |
| **Remarks:** | | | | | | | | | | | | | | | | |

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| 7. Materials Certification |  |  |  |
| 8. |  |  |  |

**Pump Data Sheet**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Data Sheet No.: EDS - XXXXXX | | | | | | Rev.: | | | | | Specification No.: | | | | |
| Project ID: | | Project Title: | | | | | | | | | | | | | |
| TA- | Facility No.: | | | | | | Facility Name: | | | | | | | | |
| Equipment ID | | | | Equipment Name: | | | | | | | | | | | |
| Selection: | Manufacturer: | | | | | | | | | | | Model No.: | | | |
|  | | | Prepared By | | | | | | | Checked By | | | Approved By | | |
| Name | | |  | | | | | | |  | | |  | | |
| Z Number | | |  | | | | | | |  | | |  | | |
| Signature | | |  | | | | | | |  | | |  | | |
| Date | | |  | | | | | | |  | | |  | | |
| **General** | | | | | | | | | | | | | | | |
| Type of Pump | | |  | | | | | | | Driver | | |  | | |
| **Fluid Data** | | | | | | | | | | | | | | | |
| Fluid Pumped | | | | |  | | | Viscosity @ Pumping Temperature, Cp | | | | | | |  |
| Specific Gravity | | | | |  | | | Vapor Pressure@ Pumping Temperature, psia | | | | | | |  |
| Solids, WT% | | | | |  | | |  | | | | | | |  |
| Pumping Temperature, F | | | | |  | | |  | | | | | | |  |
|  | | | | |  | | |  | | | | | | |  |
| **Design Data** | | | | | | | | | | | | | | | |
| Design Capacity, gpm | | | | |  | | | | Total Discharge Pressure, psig | | | | |  | |
| Differential Pressure, psi | | | | |  | | | | Pump Speed, rpm | | | | |  | |
| Differential Pressure, ft | | | | |  | | | | Efficiency, % | | | | |  | |
| NPSH Available, ft | | | | |  | | | | Brake Horsepower, bhp | | | | |  | |
| **Mechanical Data** | | | | | | | | | | | | | | | |
| Material – Case | | | | |  | | | | Suction Nozzle – size, rating | | | | |  | |
| Material – Impellor, Piston, Diaphragm | | | | |  | | | | Discharge Nozzle – size, rating | | | | |  | |
| Seal Type | | | | |  | | | |  | | | | |  | |
| **Driver** | | | | | | | | | | | | | | | |
| Driver Horsepower, hp | | |  | | | | | | | Motor Data Sheet | | |  | | |
| Motor Type | | |  | | | | | | |  | | |  | | |
| **Remarks:** | | | | | | | | | | | | | | | |

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| 5. Installation instructions |  |  |  |
| 6. Test and inspection reports |  |  |  |
| 7. Materials Certification |  |  |  |
| 8. |  |  |  |

**Fan and Blower Data Sheet**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Data Sheet No.: EDS - XXXXXX | | | | | | Rev.: | | | | | Specification No.: | | | | |
| Project ID: | | Project Title: | | | | | | | | | | | | | |
| TA- | Facility No.: | | | | | | Facility Name: | | | | | | | | |
| Equipment ID | | | | Equipment Name: | | | | | | | | | | | |
| Selection: | Manufacturer: | | | | | | | | | | | Model No.: | | | |
|  | | | Prepared By | | | | | | | Checked By | | | Approved By | | |
| Name | | |  | | | | | | |  | | |  | | |
| Z Number | | |  | | | | | | |  | | |  | | |
| Signature | | |  | | | | | | |  | | |  | | |
| Date | | |  | | | | | | |  | | |  | | |
| **Gas Data** | | | | | | | | | | | | | | | |
| Gas Name | | | | |  | | | Corrosives | | | | | | |  |
| Molecular Weight | | | | |  | | |  | | | | | | |  |
| **Design Data** | | | | | | | | | | | | | | | |
| Capacity scfm | | | | |  | | | | Relative Humidity of Gas | | | | |  | |
| Capacity acfm | | | | |  | | | | Normal Inlet Temperature, F | | | | |  | |
| Elevation above sea level, ft | | | | |  | | | | Minimum Inlet Temperature, F | | | | |  | |
| Specific Gravity of Gas | | | | |  | | | | Differential Pressure, in. wg. | | | | |  | |
| **Mechanical Data** | | | | | | | | | | | | | | | |
| Fan Type: | | | | |  | | | | Blade Type | | | | |  | |
| Fan Inlet Type | | | | |  | | | | Fan Motor Location | | | | |  | |
| Fan Class | | | | |  | | | | Rotation and Discharge | | | | |  | |
| Fan Arrangement | | | | |  | | | | Wheel Construction | | | | |  | |
| Inlet Size, in | | | | |  | | | | Sound Level | | | | |  | |
| Outlet Size, in | | | | |  | | | | Drain | | | | |  | |
| **Materials** | | | | | | | | | | | | | | | |
| Housing Material | | | | |  | | | | Hub | | | | |  | |
| Housing Material Thickness | | | | |  | | | | Shaft | | | | |  | |
| Blade Material | | | | |  | | | | Shaft Sleeves | | | | |  | |
| Blade Material Thickness | | | | |  | | | |  | | | | |  | |
| **Control** | | | | | | | | | | | | | | | |
| Outlet Dampers | | | | |  | | | | Variable Speed Drive | | | | |  | |
| Variable Inlet Vanes | | | | |  | | | | Variable Pitch Blades | | | | |  | |
| **Control Power** | | | | | | | | | | | | | | | |
| Volts | | | | |  | | | | Phase | | | | |  | |
| Hertz | | | | |  | | | | Electrical Hazard Class | | | | |  | |
| **Tests** | | | | | | | | | | | | | | | |
| Mechanical Run-in | | | | |  | | | | Witness Performance | | | | |  | |
| Non-Witnessed Performance | | | | |  | | | |  | | | | |  | |

**Fan and Blower Data Sheet (CONT’D)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Included Items** | | | | | | |
| Common Base Plate | |  | Silencer | | |  |
| Inlet Screen/ Filter | |  | Ducting Transition Piece | | |  |
| Control Panel | |  | Housing Drain Connection | | |  |
| Spark Resistant Construction | |  | Vibration Isolation | | |  |
| Insulation Studs | |  | Sectional Drawing | | |  |
| Special Coatings | |  | Inspection Access Panel | | |  |
| Inlet Box | |  | Paint | | |  |
| **Driver** | | | | | | |
| Driver Horsepower, hp |  | | | Motor Data Sheet |  | |
| Motor Type |  | | |  |  | |
| **Remarks:** | | | | | | |

|  |  |  |  |
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| 8. Performance Curves |  |  |  |
| 9. |  |  |  |
| 10. |  |  |  |