

| Existing Packaged Rooftop Units with Gas Heat | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|----------------|------|-----------|-----|------------------|------|---------------|------|--------|-------|------|---------|------------------|-----------------|-----------|------------|---------|----------|-----------------|----------|-------|--------------|--------------|-------|
| Project Name: | | Station Park | | | | | | | | | | | | | | | | | | | | | | | |
| Tag # | Size (Tons) | Evaporator Fan | | | | Cooling | | | | | | | | Total Cap. (MBH) | Sens. Cap (MBH) | EER/ SEER | Alt. (Ft.) | Heating | | Unit Electrical | | | Weight (LBS) | Model Number | Brand |
| | | SA (CFM) | HP | ESP (IWG) | RPM | Temperature (°F) | | | | | MBH | | Voltage | | | | | MCA | Max Fuse | | | | | | |
| | | | | | | Ent. Air | | Discharge Air | | OD Amb | In | Out | | | | | | | | | | | | | |
| | | | | | | DB | WB | DB | WB | | | | | | | | | | | | | | | | |
| RTU-1 | 12.5 | 4800 | 2.00 | 0.75 | 669 | 77.7 | 57.1 | 56.2 | 55.2 | 106.0 | 108.7 | 87.0 | 12.1 | 4226.0 | 150.0 | 120.0 | 460-3-60 | 32 | 40 | 2335 | YFD151F4 | TRANE | | | |
| RTU-2 | 12.5 | 4800 | 2.00 | 0.75 | 665 | 75.8 | 63.1 | 55.8 | 54.8 | 106.0 | 115.1 | 94.8 | 12.1 | 4226.0 | 150.0 | 120.0 | 460-3-60 | 32 | 40 | 2335 | YFD151F4 | TRANE | | | |
| FACTORY INSTALLED OPTIONS: | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. (4) SETS OF 4" DEEP PLEATED MERV 13 RATED FILTERS. | | | | | | | | | | | | | | | | | | | | | | | | | |

| OUTSIDE AIR REQUIREMENTS, IMC-2015 (IP) | | | | | | | | | | | | | |
|---|----------------------------------|--|--|---|---|--|--|--|---|--|--|--|-------|
| SYSTEM DESIGNATION | SYSTEM TAB NAME OR LIST 'SINGLE' | SINGLE-ZONE SYSTEMS ONLY | | MULTI-ZONE SYSTEMS ONLY | | FLOOR AREA SERVED BY SYSTEM [A _s] (SF) | SYSTEM AVERAGED AREA-BASED OUTDOOR AIR RATE (CFM/SF) | SYSTEM POPULATION [P _s] (PEOPLE) | SYSTEM AVERAGED PEOPLE-BASED OUTDOOR AIR RATE (CFM/P) | REQUIRED OA INTAKE FLOW [V _{o1}] (CFM) | REQUIRED DCV OA INTAKE FLOW [V _{o1}] (CFM) | DESIGN OA INTAKE FLOW [V _{o1}] (CFM) | NOTES |
| | | SINGLE-ZONE SYSTEM ASSOCIATED VENTILATION ZONE | SINGLE ZONE WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS [E _z] | SYSTEM VENTILATION EFFICIENCY [E _v] | | | | | | | | | |
| RTU-1 | SINGLE ZONE | SALES | 0.80 | - | - | 2,039 | 0.120 | 30.585 | 7.50 | 593 | 306 | 595 | |
| RTU-2 | RTU-2 | - | - | 1.00 | - | 1,217 | 0.052 | 0.795 | 7.03 | 69 | 64 | 70 | |
| TOTALS | | | | | | | | | | 662 | 369 | 665 | |
| GENERAL NOTES: | | | | | | | | | | | | | |
| 1. VENTILATION CALCULATIONS BASED ON IMC-2015. | | | | | | | | | | | | | |
| 2. SYSTEM POPULATIONS BASED ON MAX SEATING AND/OR CODE MAXIMUM VALUES. | | | | | | | | | | | | | |
| 3. SINGLE ZONE SYSTEMS (V _{o1} = V _{o2}): SYSTEM VENTILATION EFFICIENCY CALCULATION IS NOT REQUIRED FOR SINGLE ZONE SYSTEMS. WORST CASE AIR DISTRIBUTION EFFECTIVENESS BETWEEN HEATING AND COOLING MODES OF OPERATION IS SHOWN IN TABLE. | | | | | | | | | | | | | |
| 4. 100% OA SYSTEMS (V _{o1} = Σ _{all zones} V _{o2}): WHEN ONE AIR HANDLER SUPPLIES ONLY OUTDOOR AIR TO ONE OR MORE ZONES. EACH ZONE IS INDIVIDUALLY CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING). | | | | | | | | | | | | | |
| 5. MULTI-ZONE RECIRCULATING SYSTEMS: CALCULATOR USED TO DETERMINE VENTILATION AIRFLOW IN COMPLIANCE WITH IMC-2015 VRP AND ASHRAE 62.1-2013 APPENDIX A. VENTILATION RATE SHOWN IS ACTUAL CALCULATED WITH CORRECTION FACTORS INCLUDED. EACH ZONE IS CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING) AS PART OF CALCULATIONS TO FIND E _v . | | | | | | | | | | | | | |

| AIR DISTRIBUTION DEVICE SCHEDULE | | | | | | | | | | |
|--|--------------------------|---------|----------------------|----------------------------------|------------------------------------|------------|---------------|---|-------------|-----------------------|
| MARK | MANUFACTURER | MODEL | TYPE | NECK SIZE (L" X W" OR DIAMETER") | FACE SIZE (L" X W") | FRAME TYPE | FINISH | MATERIAL | ACCESSORIES | REMARKS |
| SD-1 | (1) | (1) | PLAQUE FACE | 10" | 24 X24 | (1) | (1) | STEEL | PFS, DMPR | FOUR WAY BLOW PATTERN |
| TG-3 | (4) | (4) | WALL TRANSFER GRILLE | 24 X12 | - | (4) | (4) | STEEL | - | |
| EG-1 | (5) | (5) | PERFORATED FACE | 6" | 12 X 12 | (5) | (5) | STEEL | - | |
| SR-1 | (6) | (6) | DUCT SUPPLY GRILLE | 36 x 6 | - | (6) | (6) | STEEL | DMPR | |
| SR-3 | (6) | (6) | DUCT SUPPLY GRILLE | 24 X 6 | - | (6) | (6) | STEEL | DMPR | |
| SR-4 | (6) | (6) | DUCT SUPPLY GRILLE | 18 X 6 | - | (6) | (6) | STEEL | DMPR | |
| ACCESSORIES: PFS-PLASTER FRAME DMPR- DAMPER DL-DRUM LOUVER EXT-LINK AIR EXTRACTOR OBD-OPPOSED BLADE DAMF | | | | | | | | | | |
| REMARKS 1 NO EXCEPTIONS ALLOWED. 2 SPEC THE FOLLOWING DIFFUSER TYPE FOR RECTANGULAR DUCTWORK. 3 NECK SIZE REFERS TO THE SIZE OF THE DUCTWORK CONNECTION TO THE DROP BOX. FACE SIZE IS THE SIZE OF THE DRUM LOUVER IN THE DROP BOX. 4 FOR AES PRODUCT QUESTIONS CONTACT AES BY PHONE AT (800) 786-0402 OR BY EMAIL AT SALES@AESCURB.COM. 5 PROVIDE BASE LOUVER WITH OPPOSED BLADE DAMPER AND WHITE FACTORY PAINT. | | | | | | | | | | |
| KEY NOTE | MARK | MANUF | MODEL | FRAME TYPE | ACCESSORIES DAMPER PLASTER FRAME | | FINISH | REMARKS | | |
| (1) | SD-1/SD-2/SD-3 | KRUEGER | PLQ | 23 | PRD10 | 5HCF23 | BRITISH WHITE | FOUR WAY BLOW PATTERN | | |
| | | PRICE | SPD | 31 | VCR-7 | APF | B12 | | | |
| | | TITUS | OMNI | 3 | AG-75 | TRM | 26 | | | |
| (4) | TG-1/TG-3 RG-1 | KRUEGER | S85 | SURFACE | - | - | BRITISH WHITE | | | |
| | | PRICE | 535 | SURFACE | - | - | B12 | | | |
| | | TITUS | 25RL | SURFACE | - | - | 26 | | | |
| (5) | RD-2/RD-3 TG-2 EG-1/EG-2 | KRUEGER | 6290 (DUCTED RETURN) | 23 | - | 5HCF23 | BRITISH WHITE | | | |
| | | PRICE | PDDR (DUCTED RETURN) | 31 | - | APF | B12 | | | |
| | | TITUS | PAR (DUCTED RETURN) | 3 | - | TRM | 26 | | | |
| (6) | SR-1/SR-2 SR-3/SR-4 | LINX | RGS-3 | DUCT | EXT | - | GALVANIZED | 'EXT' IS THE AIR EXTRACTOR | | |
| | | PRICE | SDGE | DUCT | AS | - | GALVANIZED | "AS" IS THE AIR SCOOP | | |
| | | | | | | | | OR APPROVED EQUAL WITH FULL-SIZED SCOOP | | |

| FAN SCHEDULE | | | | | | | | |
|--|------------|---------|-----|----------------|------------|------------|---------------|---------|
| MARK | MFR | MODEL | CFM | S.P. (IN W.G.) | ELECTRICAL | | OPER WT (LBS) | REMARKS |
| | | | | | H.P. | VOLT/PH/HZ | | |
| EF-1 | LOREN COOK | 70 ACEB | 150 | 0.625 | 0.25 | 120/1/60 | 30 | 1, 2 |
| REMARKS: 1 PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH AND BACKDRAFT DAMPER. 2 EXHAUST FAN TO BE CONTROLLED THRU SCENE 2 CONTROLLER. REFER TO ELECTRICAL DWGS | | | | | | | | |

| ELECTRIC AIR CURTAIN SCHEDULE | | | | | | | | | | |
|--|------|-----------|---------------------------|--------------|---------------------|---------------------------|------------|-----|------|---------------|
| MARK | MFR | MODEL | AIRFLOW RATE - HIGH (CFM) | MOTOR (#/HP) | DOOR WIDTH (INCHES) | HEATING CAPACITY (BTU/HR) | ELECTRICAL | | | REMARKS |
| | | | | | | | VOLT/PH/HZ | MCA | MOCP | WEIGHT (LBS.) |
| HAC-1 | MARS | STD272-2E | 2758 | 2 / 0.5 | 72 | 81,912 | 480/3/60 | 23 | 25 | 180 |
| REMARKS: 1 PROVIDE WITH CONTROL PACKAGE INCLUDING THERMOSTAT, DOOR SWITCH, TIME DELAY AND MOUNTING BRACKETS. 2 PROVIDE A SEPARATE DISCONNECT SWITCH. | | | | | | | | | | |

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