

CONSULTANT

END USER

PROJECT LOCATION

SHEET TITLE

SHEET MANAGEMENT

SHEET NUMBER

ASHRAE Standard 62.1-2004-2010

By KCE

System Ventilation Requirements

| AHU Location | Description | \sum Vpz cfm | Ps People | \sum Pz People | D Ps / \sum Pz | Vou cfm | Vps cfm | Xs | Ev | Vot cfm | %OA Vot / Vps |
|----------------------|--------------------------------------|-------------------|--------------|---------------------|---------------------|------------|------------|-------|-------|------------|------------------|
| Zone native 1 | | | | | | | | | | | |
| Zone | IDX GEN SL WAREHOUSE RTU-A | 344,952 | 889 | 889 | 1.00 | 53,352 | 344,952 | 0.155 | 1.000 | 53,352 | 15.5 |
| | REMO BREAK RM RTU-15 | 344,952 | 889 | 889 | 1.00 | 53,352 | 344,952 | 0.155 | 1.000 | 53,352 | 15.5 |
| | REMO BREAK RM RTU-15 | 1,810 | 12 | 12 | 1.00 | 100 | 1,810 | 0.005 | 1.000 | 100 | 5 |
| | REMO BREAK RM RTU-15 | 1,810 | 12 | 12 | 1.00 | 100 | 1,810 | 0.005 | 1.000 | 100 | 5 |
| Zone | Main Breakroom RTU-1 | 17,155 | 450 | 450 | 1.00 | 3,332 | 17,155 | 0.194 | 0.915 | 3,332 | 19.4 |
| | REMO DRIVER RM GRID A1 RTU- | 17,155 | 450 | 450 | 1.00 | 3,332 | 17,155 | 0.194 | 0.915 | 3,332 | 19.4 |
| | REMO DRIVER RM GRID A1 RTU- | 702 | 8 | 8 | 1.00 | 88 | 702 | 0.125 | 0.971 | 88 | 12.5 |
| | REMO DRIVER RM GRID M41 RTL | 638 | 8 | 8 | 1.00 | 88 | 638 | 0.138 | 0.968 | 88 | 13.8 |
| Zone | IDX security/entry RTU-5 | 3,689 | 10 | 10 | 1.00 | 467 | 3,689 | 0.127 | 0.992 | 467 | 12.7 |
| | IDX security/entry RTU-5 | 3,689 | 10 | 10 | 1.00 | 467 | 3,689 | 0.127 | 0.992 | 467 | 12.7 |
| | IDX First day training room A RTU-6A | 924 | 30 | 30 | 1.00 | 208 | 924 | 0.225 | 1.000 | 208 | 22.5 |
| | IDX HR Open Office RTU-9 | 924 | 30 | 30 | 1.00 | 208 | 924 | 0.225 | 1.000 | 208 | 22.5 |
| Zone | IDX employee lockers RTU-4 | 1,971 | 25 | 25 | 1.00 | 272 | 1,971 | 0.138 | 0.978 | 272 | 13.8 |
| | IDX employee lockers RTU-4 | 1,971 | 25 | 25 | 1.00 | 272 | 1,971 | 0.138 | 0.978 | 272 | 13.8 |
| | IDX ext office (secut) RTU-12 | 1,850 | 40 | 40 | 1.00 | 700 | 1,850 | 0.378 | 1.000 | 700 | 37.8 |
| | IDX ext office (secut) RTU-12 | 3,243 | 10 | 10 | 1.00 | 149 | 3,243 | 0.046 | 1.000 | 149 | 4.6 |
| Zone | IDX LARGE conf room RTU-11 | 1,200 | 12 | 12 | 1.00 | 88 | 1,200 | 0.073 | 1.000 | 88 | 7.3 |
| | IDX LARGE conf room RTU-11 | 1,200 | 12 | 12 | 1.00 | 88 | 1,200 | 0.073 | 1.000 | 88 | 7.3 |
| | IDX Interview room RTU-13 | 1,149 | 20 | 20 | 1.00 | 138 | 1,149 | 0.121 | 0.999 | 138 | 12.1 |
| | IDX SMALL CONFERENCE RTU-10 | 507 | 12 | 12 | 1.00 | 72 | 507 | 0.142 | 1.000 | 72 | 14.2 |
| Zone | IDX First day training room RTU-6B | 507 | 12 | 12 | 1.00 | 72 | 507 | 0.142 | 0.972 | 72 | 14.2 |
| | IDX First day training room RTU-6B | 924 | 30 | 30 | 1.00 | 208 | 924 | 0.225 | 0.944 | 220 | 23.8 |

Project Name: DID SM TEMPLATE
Dataset Name: DID LITS GEN SM TEMPLATE.TRC
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System Ventilation Requirements

| AHU Location | Description | \sum Vpz cfm | Ps People | \sum Pz People | D Ps / \sum Pz | Vou cfm | Vps cfm | Xs | Ev | Vot cfm | %OA Vot / Vps |
|----------------------|-------------------------------------|-------------------|--------------|---------------------|---------------------|------------|------------|-------|-------|------------|------------------|
| Alternative 1 | | | | | | | | | | | |
| Zone | IDX AM Care - RTU-8 | 783 | 12 | 12 | 1.00 | 117 | 783 | 0.149 | 0.980 | 117 | 14.9 |
| | IDX AM Care - RTU-8 | 783 | 12 | 12 | 1.00 | 117 | 783 | 0.149 | 0.980 | 117 | 14.9 |
| Zone | IDX Recruiting - RTU14 | 1,132 | 12 | 12 | 1.00 | 147 | 1,132 | 0.130 | 0.988 | 147 | 13.0 |
| | IDX Recruiting - RTU14 | 1,132 | 12 | 12 | 1.00 | 147 | 1,132 | 0.130 | 0.988 | 147 | 13.0 |
| Zone | IDX Remote break room (Corner) RTU | 1,355 | 15 | 15 | 1.00 | 171 | 1,355 | 0.126 | 1.000 | 171 | 12.6 |
| | IDX Remote break room (Corner) RTU | 1,355 | 15 | 15 | 1.00 | 171 | 1,355 | 0.126 | 0.992 | 171 | 12.6 |
| Zone | IDX Career Classroom RTU-7 | 1,900 | 60 | 60 | 1.00 | 381 | 1,900 | 0.201 | 1.000 | 381 | 20.1 |
| | IDX Career Classroom RTU-7 | 1,900 | 60 | 60 | 1.00 | 381 | 1,900 | 0.201 | 0.950 | 361 | 19.1 |
| Zone | IDX RR MultiFath RTU-2 | 1,236 | 10 | 10 | 1.00 | 182 | 1,236 | 0.147 | 0.966 | 182 | 14.7 |
| | IDX RR MultiFath RTU-2 | 1,236 | 10 | 10 | 1.00 | 182 | 1,236 | 0.147 | 0.966 | 182 | 14.7 |
| Zone | IDX RR MultiFath RTU-3 | 1,236 | 10 | 10 | 1.00 | 182 | 1,236 | 0.147 | 1.000 | 182 | 14.7 |
| | IDX RR MultiFath RTU-3 | 1,236 | 10 | 10 | 1.00 | 182 | 1,236 | 0.147 | 0.966 | 182 | 14.7 |
| Zone | IDX Remote break room (corner) RTU- | 3,055 | 30 | 30 | 1.00 | 360 | 3,055 | 0.118 | 1.000 | 360 | 11.8 |
| | IDX Remote break room (corner) RTU- | 3,055 | 30 | 30 | 1.00 | 360 | 3,055 | 0.118 | 1.000 | 360 | 11.8 |

* Apply Single Zone Ventilation Calculation

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Ventilation Parameters

| System Zone Room | Occupancy Category | Rp cfm / p | Pz People | Ra cfm/ft ² | Az ft ² | Vbz cfm | Std 170 Min OA ach | Cooling Ez cfm | Heating Ez cfm |
|--|--------------------|---------------|--------------|---------------------------|-----------------------|------------|--------------------------|----------------------|----------------------|
| Alternative 1 | | | | | | | | | |
| IDX GEN SL WAREHOUSE RTU-A | Warehouses | 0.00 | 889.20 | 0.06 | 889.200 | 53,352 | 1.00 | 53,352 | 1.00 |
| WAREHOUSE | Break Rooms | 0.00 | 889.20 | 0.06 | 889.200 | 53,352 | 1.00 | 53,352 | 1.00 |
| IDX remote break room RTU-15 | None | 0.00 | 8.00 | 0.06 | 1,000 | 100 | 1.00 | 100 | 1.00 |
| IDX mens/women | None | 0.00 | 4.00 | 0.00 | 850 | 0 | 1.00 | 0 | 1.00 |
| REMO BREAK RM RTU-15 | Break Rooms | 3.33 | 12.00 | 0.03 | 1,850 | 100 | 1.00 | 100 | 1.00 |
| IDX large main breakroom Int RTU-1 | Break Rooms | 5.00 | 240.00 | 0.06 | 9,750 | 1,765 | 1.00 | 1,765 | 1.00 |
| IDX large breakroom vending RTU-1 | Break Rooms | 5.00 | 10.00 | 0.06 | 1,150 | 119 | 1.00 | 119 | 1.00 |
| IDX Large main break room Exterior RTU-1 | Break Rooms | 5.00 | 200.00 | 0.06 | 7,125 | 1,428 | 1.00 | 1,428 | 1.00 |
| Main Breakroom RTU-1 | Break Rooms | 5.00 | 450.00 | 0.06 | 15,025 | 3,352 | 1.00 | 3,352 | 1.00 |
| IDX Remote break rm vending RTU-18 | Break Rooms | 5.00 | 0.00 | 0.06 | 300 | 18 | 1.00 | 18 | 1.00 |
| REMOE trucker lounge 409 RTU-18 | Break Rooms | 5.00 | 8.00 | 0.06 | 500 | 70 | 1.00 | 70 | 1.00 |
| IDX Remote break rm RTU-19 | Break Rooms | 5.00 | 8.00 | 0.06 | 800 | 88 | 1.00 | 88 | 1.00 |
| REMOE trucker lounge RTU-19 | Break Rooms | 5.00 | 8.00 | 0.06 | 500 | 70 | 1.00 | 70 | 1.00 |
| REMOE DRIVER RM GRID M41 RTU-19 | Break Rooms | 5.00 | 8.00 | 0.06 | 800 | 88 | 1.00 | 88 | 1.00 |
| IDX security/entry RTU-5 | Office space | 5.00 | 10.00 | 0.06 | 6,560 | 467 | 1.00 | 467 | 1.00 |
| IDX First day training room A RTU-6A | Office space | 5.00 | 30.00 | 0.06 | 960 | 208 | 1.00 | 208 | 1.00 |
| IDX HR Open Office RTU-9 | Office space | 5.00 | 25.00 | 0.06 | 2,450 | 272 | 1.00 | 272 | 1.00 |
| IDX employee lockers RTU-4 | None | 0.00 | 40.00 | 0.00 | 2,615 | 700 | 1.00 | 700 | 1.00 |
| IDX ext office (secut) RTU-12 | Office space | 5.00 | 10.00 | 0.06 | 1,650 | 149 | 1.00 | 149 | 1.00 |
| IDX LARGE conf room RTU-11 | Office space | 5.00 | 12.00 | 0.06 | 460 | 88 | 1.00 | 88 | 1.00 |
| IDX Interview room RTU-13 | Office space | 5.00 | 20.00 | 0.06 | 640 | 138 | 1.00 | 138 | 1.00 |
| IDX SMALL CONFERENCE RTU-10 | Office space | 5.00 | 12.00 | 0.06 | 200 | 72 | 1.00 | 72 | 1.00 |
| IDX First day training room RTU-6B | Office space | 5.00 | 30.00 | 0.06 | 960 | 208 | 1.00 | 208 | 1.00 |
| IDX AM Care - RTU-8 | Office space | 5.00 | 12.00 | 0.06 | 960 | 117 | 1.00 | 117 | 1.00 |
| IDX Recruiting - RTU14 | Office space | 5.00 | 12.00 | 0.06 | 1,450 | 147 | 1.00 | 147 | 1.00 |
| IDX Remote break room (Corner) RTU-17 | Break Rooms | 5.00 | 15.00 | 0.06 | 1,600 | 171 | 1.00 | 171 | 1.00 |
| IDX Career Classroom RTU-7 | Break Rooms | 5.00 | 60.00 | 0.06 | 1,350 | 381 | 1.00 | 381 | 1.00 |
| IDX RR MultiFath RTU-2 | Break Rooms | 5.00 | 10.00 | 0.06 | 2,200 | 182 | 1.00 | 182 | 1.00 |
| IDX RR MultiFath RTU-3 | Break Rooms | 5.00 | 10.00 | 0.06 | 2,200 | 182 | 1.00 | 182 | 1.00 |
| IDX Remote break room (corner) RTU-16 | Break Rooms | 5.00 | 30.00 | 0.06 | 3,500 | 360 | 1.00 | 360 | 1.00 |

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Ventilation Parameters

| System Zone Room | Occupancy Category | Rp cfm / p | Pz People | Ra cfm/ft ² | Az ft ² | Vbz cfm | Std 170 Min OA ach | Cooling Ez cfm | Heating Ez cfm |
|----------------------|--------------------|---------------|--------------|---------------------------|-----------------------|------------|--------------------------|----------------------|----------------------|
| Alternative 1 | | | | | | | | | |
| OFFICE | | 4.73 | 816.00 | 0.07 | 51,610 | 7,449 | 1.00 | 7,449 | 9.136 |

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Ventilation Calculations for Cooling Design

| System Zone Room | Box Type | Vpz cfm | Vfan cfm | Vdz cfm | Vpz-min cfm | Voz-dlg cfm | Zdi | Ep | Er | Fa | Fb | Fc | Evz |
|-------------------------------------|---------------|------------|-------------|------------|----------------|----------------|-------|------|------|------|------|------|-------|
| Alternative 1 | | | | | | | | | | | | | |
| IDX GEN SL WAREHOUSE RTU-A | Single Fan CV | 344,952 | 344,952 | 344,952 | 0 | 53,352 | 0.155 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| WAREHOUSE | Single Fan CV | 344,952 | 344,952 | 344,952 | 0 | 53,352 | 0.155 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX remote breakroom RTU-15 | Single Fan CV | 1,325 | 1,325 | 1,325 | 0 | 100 | 0.075 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX mens/women | Single Fan CV | 484 | 484 | 484 | 0 | 0 | 0.000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| REMOE BREAK RM RTU-15 | Single Fan CV | 1,810 | 1,810 | 1,810 | 0 | 100 | 0.075 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX large main breakroom Int RTU- | Single Fan CV | 6,392 | 6,392 | 6,392 | 0 | 1,785 | 0.279 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX large breakroom vending RTU- | Single Fan CV | 1,087 | 1,087 | 1,087 | 0 | 119 | 0.109 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX Large main break room Exterior | Single Fan CV | 9,675 | 9,675 | 9,675 | 0 | 1,428 | 0.148 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| Mon Breakroom RTU-1 | Single Fan CV | 17,150 | 17,150 | 17,150 | 0 | 3,332 | 0.143 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX remote trucker RM 406 RTU-18 | Single Fan CV | 126 | 126 | 126 | 0 | 18 | 0.043 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX remote trucker trucker 409 RT1 | Single Fan CV | 576 | 576 | 576 | 0 | 70 | 0.121 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| REMOE TRUCKER RM 404 RT1 | Single Fan CV | 702 | 702 | 702 | 0 | 88 | 0.114 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX remote trucker rm vending RTU- | Single Fan CV | 157 | 157 | 157 | 0 | 18 | 0.043 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX remote driver trucker RTU-19 | Single Fan CV | 480 | 480 | 480 | 0 | 70 | 0.146 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| REMOE DRIVER TRUCK RT44 RM1 | Single Fan CV | 638 | 638 | 638 | 0 | 88 | 0.127 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX security RTU-6 | Single Fan CV | 3,686 | 3,686 | 3,686 | 0 | 208 | 0.225 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX First day training room RTU-10 | Single Fan CV | 924 | 924 | 924 | 0 | 208 | 0.225 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX HR Ops Office RTU-9 | Single Fan CV | 1,971 | 1,971 | 1,971 | 0 | 272 | 0.138 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX HR Ops Office RTU-4 | Single Fan CV | 1,850 | 1,850 | 1,850 | 0 | 337 | 0.078 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX ext office (recruit) RTU-2 | Single Fan CV | 3,243 | 3,243 | 3,243 | 0 | 149 | 0.046 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX LARGE conf room RTU-11 | Single Fan CV | 1,200 | 1,200 | 1,200 | 0 | 88 | 0.073 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX LARGE conf room RTU-13 | Single Fan CV | 1,149 | 1,149 | 1,149 | 0 | 121 | 0.101 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX SMALL CONFERENCE RTU-1 | Single Fan CV | 507 | 507 | 507 | 0 | 72 | 0.142 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX First day training room RTU-EE | Single Fan CV | 924 | 924 | 924 | 0 | 208 | 0.225 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX AM RTU-8 | Single Fan CV | 783 | 783 | 783 | 0 | 149 | 0.117 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX Recruiting RTU-14 | Single Fan CV | 1,132 | 1,132 | 1,132 | 0 | 147 | 0.130 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX RR remote break room (Corner) F | Single Fan CV | 1,355 | 1,355 | 1,355 | 0 | 171 | 0.128 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX RR remote break room RTU-7 | Single Fan CV | 1,900 | 1,900 | 1,900 | 0 | 201 | 0.141 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX RR Multi-Faith RTU-2 | Single Fan CV | 1,236 | 1,236 | 1,236 | 0 | 182 | 0.147 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX RR Multi-Faith RTU-3 | Single Fan CV | 1,236 | 1,236 | 1,236 | 0 | 182 | 0.147 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| IDX RR remote break room (corner) R | Single Fan CV | 1,055 | 1,055 | 1,055 | 0 | 160 | 0.118 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.0 |
| OFFICE | Single Fan CV | 46,458 | 46,458 | 46,458 | 0 | 7,449 | 0.089 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.915 |