

## WHOLE HOUSE VENTILATION—UNIT K

### MINIMUM VENTILATION RATE, Eq.4.1:

$Q_{fan}=0.03(A_{floor}) + 7.5(N_{br} + 1)$   
 $Q_{fan}=0.03(520) + 7.5(1 + 1)$   
 $Q_{fan}=15.6 + 15.0$   
 $Q_{fan}=30.6$   
 $Q_{fan}=31$  CFM MINIMUM

MINIMUM CALCULATED VENTILATION RATE IS 31 CFM. THE WHOLE HOUSE FAN (EF-4) IS SUFFICIENT TO PROVIDE THE MINIMUM REQUIREMENT OF THE WHOLE HOUSE VENTILATION. THE MECHANICALLY FAN VENTILATION METHOD IS USED TO EXHAUST A TOTAL OF 98 CFM OF AIR, WHICH MEETS OR EXCEEDS THE MINIMUM CALCULATED VENTILATION RATE OF 31 CFM.

### LEGEND:

$Q_{fan}$  = REQUIRED VENTILATION (CFM)  $A_{floor}$  = TOTAL CONDITIONED FLOOR AREA  
 $N_{br}$  = NUMBER OF BEDROOMS  
 $Q_r$  = VENTILATION REQ. FROM Eq. 4.1  
 $f$  = DAILY FRACTIONAL ON TIME  
 $e$  = VENTILATION EFFECTIVENESS (TABLE 4.8)  
 $Q_f$  = MIN. FAN FLOW RATE DURING ON CYCLE (cfm)

## WHOLE HOUSE VENTILATION—UNIT L

### MINIMUM VENTILATION RATE, Eq.4.1:

$Q_{fan}=0.03(A_{floor}) + 7.5(N_{br} + 1)$   
 $Q_{fan}=0.03(520) + 7.5(1 + 1)$   
 $Q_{fan}=15.6 + 15.0$   
 $Q_{fan}=30.6$   
 $Q_{fan}=31$  CFM MINIMUM

MINIMUM CALCULATED VENTILATION RATE IS 31 CFM. THE WHOLE HOUSE FAN (EF-4) IS SUFFICIENT TO PROVIDE THE MINIMUM REQUIREMENT OF THE WHOLE HOUSE VENTILATION. THE MECHANICALLY FAN VENTILATION METHOD IS USED TO EXHAUST A TOTAL OF 98 CFM OF AIR, WHICH MEETS OR EXCEEDS THE MINIMUM CALCULATED VENTILATION RATE OF 31 CFM.

### LEGEND:

$Q_{fan}$  = REQUIRED VENTILATION (CFM)  $A_{floor}$  = TOTAL CONDITIONED FLOOR AREA  
 $N_{br}$  = NUMBER OF BEDROOMS  
 $Q_r$  = VENTILATION REQ. FROM Eq. 4.1  
 $f$  = DAILY FRACTIONAL ON TIME  
 $e$  = VENTILATION EFFECTIVENESS (TABLE 4.8)  
 $Q_f$  = MIN. FAN FLOW RATE DURING ON CYCLE (cfm)

## WHOLE HOUSE VENTILATION—UNIT M

### MINIMUM VENTILATION RATE, Eq.4.1:

$Q_{fan}=0.03(A_{floor}) + 7.5(N_{br} + 1)$   
 $Q_{fan}=0.03(630) + 7.5(1 + 1)$   
 $Q_{fan}=18.9 + 15.0$   
 $Q_{fan}=33.9$   
 $Q_{fan}=34$  CFM MINIMUM

MINIMUM CALCULATED VENTILATION RATE IS 34 CFM. THE WHOLE HOUSE FAN (EF-4) IS SUFFICIENT TO PROVIDE THE MINIMUM REQUIREMENT OF THE WHOLE HOUSE VENTILATION. THE MECHANICALLY FAN VENTILATION METHOD IS USED TO EXHAUST A TOTAL OF 98 CFM OF AIR, WHICH MEETS OR EXCEEDS THE MINIMUM CALCULATED VENTILATION RATE OF 34 CFM.

### LEGEND:

$Q_{fan}$  = REQUIRED VENTILATION (CFM)  $A_{floor}$  = TOTAL CONDITIONED FLOOR AREA  
 $N_{br}$  = NUMBER OF BEDROOMS  
 $Q_r$  = VENTILATION REQ. FROM Eq. 4.1  
 $f$  = DAILY FRACTIONAL ON TIME  
 $e$  = VENTILATION EFFECTIVENESS (TABLE 4.8)  
 $Q_f$  = MIN. FAN FLOW RATE DURING ON CYCLE (cfm)

## WHOLE HOUSE VENTILATION—UNIT N

### MINIMUM VENTILATION RATE, Eq.4.1:

$Q_{fan}=0.03(A_{floor}) + 7.5(N_{br} + 1)$   
 $Q_{fan}=0.03(650) + 7.5(1 + 1)$   
 $Q_{fan}=19.5 + 15.0$   
 $Q_{fan}=34.5$   
 $Q_{fan}=35$  CFM MINIMUM

MINIMUM CALCULATED VENTILATION RATE IS 35 CFM. THE WHOLE HOUSE FAN (EF-4) IS SUFFICIENT TO PROVIDE THE MINIMUM REQUIREMENT OF THE WHOLE HOUSE VENTILATION. THE MECHANICALLY FAN VENTILATION METHOD IS USED TO EXHAUST A TOTAL OF 98 CFM OF AIR, WHICH MEETS OR EXCEEDS THE MINIMUM CALCULATED VENTILATION RATE OF 35 CFM.

### LEGEND:

$Q_{fan}$  = REQUIRED VENTILATION (CFM)  $A_{floor}$  = TOTAL CONDITIONED FLOOR AREA  
 $N_{br}$  = NUMBER OF BEDROOMS  
 $Q_r$  = VENTILATION REQ. FROM Eq. 4.1  
 $f$  = DAILY FRACTIONAL ON TIME  
 $e$  = VENTILATION EFFECTIVENESS (TABLE 4.8)  
 $Q_f$  = MIN. FAN FLOW RATE DURING ON CYCLE (cfm)

## WHOLE HOUSE VENTILATION—UNIT P

### MINIMUM VENTILATION RATE, Eq.4.1:

$Q_{fan}=0.03(A_{floor}) + 7.5(N_{br} + 1)$   
 $Q_{fan}=0.03(1040) + 7.5(1 + 1)$   
 $Q_{fan}=31.2 + 15.0$   
 $Q_{fan}=46.2$   
 $Q_{fan}=47$  CFM MINIMUM

MINIMUM CALCULATED VENTILATION RATE IS 47 CFM. THE WHOLE HOUSE FAN (EF-4) IS SUFFICIENT TO PROVIDE THE MINIMUM REQUIREMENT OF THE WHOLE HOUSE VENTILATION. THE MECHANICALLY FAN VENTILATION METHOD IS USED TO EXHAUST A TOTAL OF 98 CFM OF AIR, WHICH MEETS OR EXCEEDS THE MINIMUM CALCULATED VENTILATION RATE OF 47 CFM.

### LEGEND:

$Q_{fan}$  = REQUIRED VENTILATION (CFM)  $A_{floor}$  = TOTAL CONDITIONED FLOOR AREA  
 $N_{br}$  = NUMBER OF BEDROOMS  
 $Q_r$  = VENTILATION REQ. FROM Eq. 4.1  
 $f$  = DAILY FRACTIONAL ON TIME  
 $e$  = VENTILATION EFFECTIVENESS (TABLE 4.8)  
 $Q_f$  = MIN. FAN FLOW RATE DURING ON CYCLE (cfm)

## WHOLE HOUSE VENTILATION—UNIT Q

### MINIMUM VENTILATION RATE, Eq.4.1:

$Q_{fan}=0.03(A_{floor}) + 7.5(N_{br} + 1)$   
 $Q_{fan}=0.03(1040) + 7.5(1 + 1)$   
 $Q_{fan}=31.2 + 15.0$   
 $Q_{fan}=46.2$   
 $Q_{fan}=47$  CFM MINIMUM

MINIMUM CALCULATED VENTILATION RATE IS 47 CFM. THE WHOLE HOUSE FAN (EF-4) IS SUFFICIENT TO PROVIDE THE MINIMUM REQUIREMENT OF THE WHOLE HOUSE VENTILATION. THE MECHANICALLY FAN VENTILATION METHOD IS USED TO EXHAUST A TOTAL OF 98 CFM OF AIR, WHICH MEETS OR EXCEEDS THE MINIMUM CALCULATED VENTILATION RATE OF 47 CFM.

### LEGEND:

$Q_{fan}$  = REQUIRED VENTILATION (CFM)  $A_{floor}$  = TOTAL CONDITIONED FLOOR AREA  
 $N_{br}$  = NUMBER OF BEDROOMS  
 $Q_r$  = VENTILATION REQ. FROM Eq. 4.1  
 $f$  = DAILY FRACTIONAL ON TIME  
 $e$  = VENTILATION EFFECTIVENESS (TABLE 4.8)  
 $Q_f$  = MIN. FAN FLOW RATE DURING ON CYCLE (cfm)

## WHOLE HOUSE VENTILATION—UNIT R

### MINIMUM VENTILATION RATE, Eq.4.1:

$Q_{fan}=0.03(A_{floor}) + 7.5(N_{br} + 1)$   
 $Q_{fan}=0.03(1040) + 7.5(1 + 1)$   
 $Q_{fan}=31.2 + 15.0$   
 $Q_{fan}=46.2$   
 $Q_{fan}=47$  CFM MINIMUM

MINIMUM CALCULATED VENTILATION RATE IS 47 CFM. THE WHOLE HOUSE FAN (EF-4) IS SUFFICIENT TO PROVIDE THE MINIMUM REQUIREMENT OF THE WHOLE HOUSE VENTILATION. THE MECHANICALLY FAN VENTILATION METHOD IS USED TO EXHAUST A TOTAL OF 98 CFM OF AIR, WHICH MEETS OR EXCEEDS THE MINIMUM CALCULATED VENTILATION RATE OF 47 CFM.

### LEGEND:

$Q_{fan}$  = REQUIRED VENTILATION (CFM)  $A_{floor}$  = TOTAL CONDITIONED FLOOR AREA  
 $N_{br}$  = NUMBER OF BEDROOMS  
 $Q_r$  = VENTILATION REQ. FROM Eq. 4.1  
 $f$  = DAILY FRACTIONAL ON TIME  
 $e$  = VENTILATION EFFECTIVENESS (TABLE 4.8)  
 $Q_f$  = MIN. FAN FLOW RATE DURING ON CYCLE (cfm)

## WHOLE HOUSE VENTILATION—UNIT S

### MINIMUM VENTILATION RATE, Eq.4.1:

$Q_{fan}=0.03(A_{floor}) + 7.5(N_{br} + 1)$   
 $Q_{fan}=0.03(1300) + 7.5(1 + 1)$   
 $Q_{fan}=39.0 + 15.0$   
 $Q_{fan}=54$   
 $Q_{fan}=54$  CFM MINIMUM

MINIMUM CALCULATED VENTILATION RATE IS 54 CFM. THE WHOLE HOUSE FAN (EF-4) IS SUFFICIENT TO PROVIDE THE MINIMUM REQUIREMENT OF THE WHOLE HOUSE VENTILATION. THE MECHANICALLY FAN VENTILATION METHOD IS USED TO EXHAUST A TOTAL OF 98 CFM OF AIR, WHICH MEETS OR EXCEEDS THE MINIMUM CALCULATED VENTILATION RATE OF 54 CFM.

### LEGEND:

$Q_{fan}$  = REQUIRED VENTILATION (CFM)  $A_{floor}$  = TOTAL CONDITIONED FLOOR AREA  
 $N_{br}$  = NUMBER OF BEDROOMS  
 $Q_r$  = VENTILATION REQ. FROM Eq. 4.1  
 $f$  = DAILY FRACTIONAL ON TIME  
 $e$  = VENTILATION EFFECTIVENESS (TABLE 4.8)  
 $Q_f$  = MIN. FAN FLOW RATE DURING ON CYCLE (cfm)

## WHOLE HOUSE VENTILATION—UNIT T

### MINIMUM VENTILATION RATE, Eq.4.1:

$Q_{fan}=0.03(A_{floor}) + 7.5(N_{br} + 1)$   
 $Q_{fan}=0.03(1360) + 7.5(1 + 1)$   
 $Q_{fan}=40.8 + 15.0$   
 $Q_{fan}=55.8$   
 $Q_{fan}=56$  CFM MINIMUM

MINIMUM CALCULATED VENTILATION RATE IS 56 CFM. THE WHOLE HOUSE FAN (EF-4) IS SUFFICIENT TO PROVIDE THE MINIMUM REQUIREMENT OF THE WHOLE HOUSE VENTILATION. THE MECHANICALLY FAN VENTILATION METHOD IS USED TO EXHAUST A TOTAL OF 98 CFM OF AIR, WHICH MEETS OR EXCEEDS THE MINIMUM CALCULATED VENTILATION RATE OF 56 CFM.

### LEGEND:

$Q_{fan}$  = REQUIRED VENTILATION (CFM)  $A_{floor}$  = TOTAL CONDITIONED FLOOR AREA  
 $N_{br}$  = NUMBER OF BEDROOMS  
 $Q_r$  = VENTILATION REQ. FROM Eq. 4.1  
 $f$  = DAILY FRACTIONAL ON TIME  
 $e$  = VENTILATION EFFECTIVENESS (TABLE 4.8)  
 $Q_f$  = MIN. FAN FLOW RATE DURING ON CYCLE (cfm)

## REFRIGERANT CALCULATION

AMOUNT OF ALLOWABLE REFRIGERANT (HP-A TO D AND F TO R; MXZ-2C20NAHZ2):

Type: R-410A

TOTAL ALLOWABLE REFRIGERANT PER LAMC TABLE 1102.2: 26/1000 LBS/CU.FT.

TOTAL AMOUNT OF REFRIGERANT BASED ON SMALLEST ENCLOSED, OCCUPIED SPACE:

4680 CU.FT. (UNITS J,K,L) X 26/1000 LBS/CU.FT. = 121.68 LBS

ACTUAL EQUIPMENT REFRIGERANT CHARGE: 4.0 LBS (PER MANUFACTURER'S CATALOG)

\*4.0 LBS (ACTUAL EQUIPMENT REFRIGERANT CHARGE) < 121.68 (ALLOWABLE REFRIGERANT CHARGE PER CMC 1102.2)

\*THE QUANTITY OF REFRIGERANT WILL NOT EXCEED THE AMOUNT SHOWN ON LAMC TABLE 1102.3.

## REFRIGERANT CALCULATION

AMOUNT OF ALLOWABLE REFRIGERANT (HP-E, S AND T; MXZ-3C24NAHZ22):

Type: R-410A

TOTAL ALLOWABLE REFRIGERANT PER LAMC TABLE 1102.2: 26/1000 LBS/CU.FT.

TOTAL AMOUNT OF REFRIGERANT BASED ON SMALLEST ENCLOSED, OCCUPIED SPACE:

7020.00 CU.FT. (UNIT E) X 26/1000 LBS/CU.FT. = 182.52 LBS

ACTUAL EQUIPMENT REFRIGERANT CHARGE: 4.0 LBS (PER MANUFACTURER'S CATALOG)

\*4.0 LBS (ACTUAL EQUIPMENT REFRIGERANT CHARGE) < 182.52 (ALLOWABLE REFRIGERANT CHARGE PER CMC 1102.2)

\*THE QUANTITY OF REFRIGERANT WILL NOT EXCEED THE AMOUNT SHOWN ON LAMC TABLE 1102.3.

## REFRIGERANT CALCULATION

AMOUNT OF ALLOWABLE REFRIGERANT (HP-ML; PUZ-A12NKA7):

Type: R-410A

TOTAL ALLOWABLE REFRIGERANT PER LAMC TABLE 1102.2: 26/1000 LBS/CU.FT.

TOTAL AMOUNT OF REFRIGERANT BASED ON SMALLEST ENCLOSED, OCCUPIED SPACE:

5670.00 CU.FT. (MEDIA LOUNGE) X 26/1000 LBS/CU.FT. = 147.42 LBS

ACTUAL EQUIPMENT REFRIGERANT CHARGE: 4.0 LBS (PER MANUFACTURER'S CATALOG)

\*4.0 LBS (ACTUAL EQUIPMENT REFRIGERANT CHARGE) < 147.42 (ALLOWABLE REFRIGERANT CHARGE PER CMC 1102.2)

\*THE QUANTITY OF REFRIGERANT WILL NOT EXCEED THE AMOUNT SHOWN ON LAMC TABLE 1102.3.

REV	DESCRIPTION	DATE
1	DESIGN CHANGES	02/23/22
2	FC COMMENTS	11/22/22
3	FC COMMENTS	12/22/22

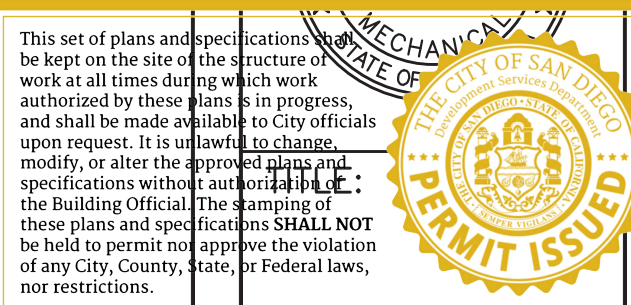
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2002 Jimmy Durante Blvd.  
Suite 200  
Del Mar, CA 92014  
858.531.9884  
www.coastalform.com  
info@coastalform.com

4060 OREGON STREET  
48 MICRO UNIT APARTMENT

4060 OREGON STREET  
SAN DIEGO, CA 92104

1111 6th Ave. #211  
San Diego, CA 92101  
phone: (619) 734-4488  
fax: (619) 594-2932  
eng@erregroup.com  
www.erregroup.com



**MECHANICAL SCHEDULES**

PRJ-1045942  
Nikola Stamenkovic

JOB NO: B1910-AA031

DRAWN: ME

CHECKED: CZ

SCALE: NONE

DATE: 10.21.2021

**M0.4**