Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**8-1**	Primary inlet	**5" (127mm) inlet**
Model number	**VCWF05**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**125 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.07 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**5"**
Outlet size	**None**	Cooling inlet velocity	**1833 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**24.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**250 cfm**		

Heating Information

Valve heating airflow	**125 cfm**	Heating flow rate	**1.00 gpm**
Unit LAT	**108.49 F**	Heating delta T	**14.48 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**7.25 MBh**	Coil fluid PD	**1.77 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**5.49 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**1.14 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**66 dB**	**66 dB**	**54 dB**	**52 dB**	**53 dB**	**50 dB**	**26**
Radiated	**52 dB**	**54 dB**	**46 dB**	**48 dB**	**51 dB**	**48 dB**	**22**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.

Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**8-2**	Primary inlet	**5" (127mm) inlet**
Model number	**VCWF05**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**175 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.12 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**5"**
Outlet size	**None**	Cooling inlet velocity	**2567 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**24.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**350 cfm**		

Heating Information

Valve heating airflow	**175 cfm**	Heating flow rate	**1.00 gpm**
Unit LAT	**99.70 F**	Heating delta T	**16.94 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**8.48 MBh**	Coil fluid PD	**1.77 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**6.02 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**1.14 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**68 dB**	**69 dB**	**58 dB**	**56 dB**	**57 dB**	**55 dB**	**30**
Radiated	**55 dB**	**57 dB**	**50 dB**	**52 dB**	**55 dB**	**51 dB**	**26**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.

Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**8-3**	Primary inlet	**5" (127mm) inlet**
Model number	**VCWF05**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**150 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.09 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**5"**
Outlet size	**None**	Cooling inlet velocity	**2200 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**24.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**300 cfm**		

Heating Information

Valve heating airflow	**150 cfm**	Heating flow rate	**1.00 gpm**
Unit LAT	**103.54 F**	Heating delta T	**15.77 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**7.90 MBh**	Coil fluid PD	**1.77 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**5.78 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**1.14 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**67 dB**	**68 dB**	**56 dB**	**54 dB**	**55 dB**	**52 dB**	**29**
Radiated	**54 dB**	**56 dB**	**48 dB**	**50 dB**	**53 dB**	**49 dB**	**25**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.

Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**8-4**	Primary inlet	**8" (203mm) inlet**
Model number	**VCWF08**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**300 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.20 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**8"**
Outlet size	**None**	Cooling inlet velocity	**1719 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**25.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**600 cfm**		

Heating Information

Valve heating airflow	**300 cfm**	Heating flow rate	**1.00 gpm**
Unit LAT	**93.56 F**	Heating delta T	**25.06 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**12.54 MBh**	Coil fluid PD	**2.37 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**8.32 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**0.99 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**62 dB**	**59 dB**	**52 dB**	**48 dB**	**50 dB**	**50 dB**	**16**
Radiated	**53 dB**	**50 dB**	**46 dB**	**46 dB**	**52 dB**	**51 dB**	**22**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.

Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**8-5**	Primary inlet	**8" (203mm) inlet**
Model number	**VCWF08**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**250 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.14 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**8"**
Outlet size	**None**	Cooling inlet velocity	**1432 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**25.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**500 cfm**		

Heating Information

Valve heating airflow	**250 cfm**	Heating flow rate	**1.00 gpm**
Unit LAT	**97.64 F**	Heating delta T	**23.09 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**11.56 MBh**	Coil fluid PD	**2.37 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**8.04 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**0.99 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**61 dB**	**58 dB**	**51 dB**	**47 dB**	**49 dB**	**49 dB**	**15**
Radiated	**53 dB**	**49 dB**	**45 dB**	**45 dB**	**50 dB**	**50 dB**	**20**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.

Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**8-6**	Primary inlet	**6" (152mm) inlet**
Model number	**VCWF06**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**200 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.29 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**6"**
Outlet size	**None**	Cooling inlet velocity	**2037 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**24.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**400 cfm**		

Heating Information

Valve heating airflow	**200 cfm**	Heating flow rate	**1.00 gpm**
Unit LAT	**96.61 F**	Heating delta T	**18.02 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**9.02 MBh**	Coil fluid PD	**1.77 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**6.21 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**1.14 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**66 dB**	**65 dB**	**56 dB**	**52 dB**	**53 dB**	**50 dB**	**25**
Radiated	**59 dB**	**59 dB**	**50 dB**	**50 dB**	**52 dB**	**49 dB**	**29**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.

Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**8-7**	Primary inlet	**8" (203mm) inlet**
Model number	**VCWF08**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**250 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.14 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**8"**
Outlet size	**None**	Cooling inlet velocity	**1432 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**25.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**500 cfm**		

Heating Information

Valve heating airflow	**250 cfm**	Heating flow rate	**1.00 gpm**
Unit LAT	**97.64 F**	Heating delta T	**23.09 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**11.56 MBh**	Coil fluid PD	**2.37 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**8.04 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**0.99 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**61 dB**	**58 dB**	**51 dB**	**47 dB**	**49 dB**	**49 dB**	**15**
Radiated	**53 dB**	**49 dB**	**45 dB**	**45 dB**	**50 dB**	**50 dB**	**20**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.

Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**8-8**	Primary inlet	**5" (127mm) inlet**
Model number	**VCWF05**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**150 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.09 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**5"**
Outlet size	**None**	Cooling inlet velocity	**2200 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**24.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**300 cfm**		

Heating Information

Valve heating airflow	**150 cfm**	Heating flow rate	**1.00 gpm**
Unit LAT	**103.54 F**	Heating delta T	**15.77 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**7.90 MBh**	Coil fluid PD	**1.77 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**5.78 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**1.14 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**67 dB**	**68 dB**	**56 dB**	**54 dB**	**55 dB**	**52 dB**	**29**
Radiated	**54 dB**	**56 dB**	**48 dB**	**50 dB**	**53 dB**	**49 dB**	**25**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.

Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**8-9**	Primary inlet	**8" (203mm) inlet**
Model number	**VCWF08**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**375 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.29 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**8"**
Outlet size	**None**	Cooling inlet velocity	**2149 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**25.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**750 cfm**		

Heating Information

Valve heating airflow	**375 cfm**	Heating flow rate	**1.50 gpm**
Unit LAT	**91.55 F**	Heating delta T	**19.79 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**14.86 MBh**	Coil fluid PD	**4.83 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**9.58 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**1.04 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**65 dB**	**61 dB**	**55 dB**	**51 dB**	**53 dB**	**52 dB**	**19**
Radiated	**56 dB**	**53 dB**	**50 dB**	**50 dB**	**55 dB**	**53 dB**	**25**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.

Variable Air Volume Single Duct Terminal Units

Job Information

MECA 2008

Tag	**24**	Primary inlet	**12" (305mm) inlet**
Model number	**VCWF12**		
Quantity	**1**		

Unit Information

Unit model	**VCWF**	Min cooling airflow	**750 cfm**
Unit control type	**DDC - prop hot water vlv**	APD @ cooling airflow	**0.27 in H2O**
Outlet plenum	**None**	Cooling inlet diameter	**12"**
Outlet size	**None**	Cooling inlet velocity	**1910 ft/min**
Unit Insulation	**Dual wall with 1" insulation**	Operating weight	**43.0 lb**
Elevation	**0.00 ft**	Max inlet SP	**0.50 in H2O**
Design cooling airflow	**1500 cfm**		

Heating Information

Valve heating airflow	**750 cfm**	Heating flow rate	**2.00 gpm**
Unit LAT	**88.66 F**	Heating delta T	**27.35 F**
Primary EDB	**55.00 F**	Heating ent fluid temp	**180.00 F**
Coil heating capacity	**27.38 MBh**	Coil fluid PD	**2.38 ft H2O**
Room heating setpoint	**68.00 F**	Fluid type	
Room heat loss	**16.81 MBh**	Fluid concentration	
Main coil type	**1 row**	Heating Cv	**1.97 Number**
Connection side	**Left**		

Acoustical Performance

Octave Band	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC*
Discharge	**64 dB**	**59 dB**	**58 dB**	**51 dB**	**55 dB**	**52 dB**	**16**
Radiated	**61 dB**	**57 dB**	**50 dB**	**47 dB**	**51 dB**	**54 dB**	**26**

Sound power level in dB re 1 pW. Acoustical data obtained in accordance with ARI 880-98.

Noise criteria (NC) estimate is calculated using the following transfer function:

Discharge	**ARI 885-98**
Radiated	**ARI 885-98 mineral fiber**

*NC levels below 15 are left blank.