

**DESIGN CONDITIONS:**

Occupied Space Temperature: ..... 75 ° F. Nominal  
Entering Water Temperature: ..... 44 ° F. Nominal  
Return Water Temperature: ..... 60 ° F. Nominal

**COOLING LOAD SUMMARY:**

Electrical Contribution (EC) = 66.3 KW x 3,413 Btu / KW Hr = 226,281 Btu/Hr

NOTE: Enter Total Cooling Load (KW) from Electrical Tabulation Form ET-1

People Contribution (PC) = 88 People x 350 Btu / Hr = 30,800 Btu/Hr

Total Sensible Load (TSL) = Electrical Contribution + People Contribution = 257,081 Btu/Hr

**CHILLED WATER REQUIREMENTS:**

CHILLED WATER SUPPLY (CWS) = Total Sensible Load (TSL) = 32.1 GPM  
( 500 x ( 60 - 44 ) )

**LOAD FACTOR CALCULATION:**

$$\text{LOAD FACTOR} = \frac{\left( 24.0 + \left( \left( \frac{\text{Electrical Contribution}}{\text{Leased Area}} \right) - 20.5 \right) + \left( \left( \frac{\text{People Contribution}}{\text{Leased Area}} \right) - 3.5 \right) \right)}{24.0}$$

NOTE: Load Factor must be equal to or greater than 1.00. If remainder of either the electrical or people cooling load component is less than or equal to zero, enter zero.

LOAD FACTOR = 1.21

Engineering Firm: \_\_\_\_\_  
Address: **S A M P L E** \_\_\_\_\_  
Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Engineer: \_\_\_\_\_ Date: \_\_\_\_\_

TENANT NAME ABC SERVICES	SPACE NUMBER #3456	LEASED AREA: SF 8,800 SF
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QUAKERBRIDGE MALL LAWRENCEVILLE, NJ 08648	MECHANICAL TABULATION FORM	MT-1
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**DESIGN CONDITIONS:**

Occupied Space Temperature: ..... 75 ° F. Nominal  
 Entering Water Temperature: ..... 44 ° F. Nominal  
 Return Water Temperature: ..... 60 ° F. Nominal

**COOLING LOAD SUMMARY:**

Electrical Contribution (EC) = \_\_\_\_\_ KW x 3,413 Btu / KW Hr = \_\_\_\_\_ Btu/Hr

NOTE: Enter Total Cooling Load (KW) from Electrical Tabulation Form ET-1

People Contribution (PC) = \_\_\_\_\_ People x 350 Btu / Hr = \_\_\_\_\_ Btu/Hr

Total Sensible Load (TSL) = Electrical Contribution + People Contribution = \_\_\_\_\_ Btu/Hr

**CHILLED WATER REQUIREMENTS:**

CHILLED WATER SUPPLY (CWS) =  $\frac{\text{Total Sensible Load (TSL)}}{(500 \times (60 - 44))}$  = \_\_\_\_\_ GPM

**LOAD FACTOR CALCULATION:**

LOAD FACTOR =  $\frac{\left( 24.0 + \left( \left( \frac{\text{Electrical Contribution}}{\text{Leased Area}} \right) - 20.5 \right) + \left( \left( \frac{\text{People Contribution}}{\text{Leased Area}} \right) - 3.5 \right) \right)}{24.0}$

NOTE: Load Factor must be equal to or greater than 1.00. If remainder of either the electrical or people cooling load component is less than or equal to zero, enter zero.

LOAD FACTOR = \_\_\_\_\_

Engineering Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Engineer: \_\_\_\_\_ Date: \_\_\_\_\_

TENANT NAME	SPACE NUMBER	LEASED AREA: SF
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