



Bundle Diameter in Heat Exchanger Formulas

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Examples!

Conversions!

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List of 10 Bundle Diameter in Heat Exchanger Formulas

Bundle Diameter in Heat Exchanger &

1) Bundle Diameter for Eight Tube Pass Square Pitch in Heat Exchanger

$$D_{
m Bundle} = {
m Dia}_{
m O} \cdot \left(rac{N_{
m T}}{0.0331}
ight)^{rac{1}{2.643}}$$

Open Calculator

2) Bundle Diameter for Eight Tube Pass Triangular Pitch in Heat Exchanger

$$D_{
m Bundle} = {
m Dia}_{
m O} \cdot \left(rac{
m N_T}{0.0365}
ight)^{rac{1}{2.675}}$$

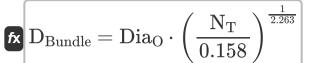
Open Calculator

$$ext{ex} \left[575.1534 ext{mm} = 19.2 ext{mm} \cdot \left(rac{325}{0.0365}
ight)^{rac{1}{2.675}}
ight]$$





3) Bundle Diameter for Four Tube Pass Square Pitch in Heat Exchanger 🖒



Open Calculator 🛂

$$\mathbf{ex} \ 558.9682 \mathrm{mm} = 19.2 \mathrm{mm} \cdot \left(rac{325}{0.158}
ight)^{rac{1}{2.263}}$$

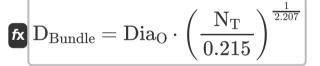
4) Bundle Diameter for Four Tube Pass Triangular Pitch in Heat Exchanger

$$D_{
m Bundle} = {
m Dia}_{
m O} \cdot \left(rac{
m N_T}{0.175}
ight)^{rac{1}{2.285}}$$

Open Calculator

ex
$$517.4497 \mathrm{mm} = 19.2 \mathrm{mm} \cdot \left(\frac{325}{0.175} \right)^{\frac{1}{2.285}}$$

5) Bundle Diameter for One Tube Pass Square Pitch in Heat Exchanger 🗹



Open Calculator 🗗

$$extbf{ex} 529.5655 ext{mm} = 19.2 ext{mm} \cdot \left(rac{325}{0.215}
ight)^{rac{1}{2.207}}$$



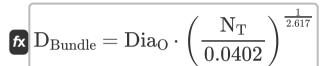
6) Bundle Diameter for One Tube Pass Triangular Pitch in Heat Exchanger

 $D_{
m Bundle} = {
m Dia}_{
m O} \cdot \left(rac{N_{
m T}}{0.319}
ight)^{rac{1}{2.142}}$

Open Calculator

$$ext{ex} \left(487.124 ext{mm} = 19.2 ext{mm} \cdot \left(rac{325}{0.319}
ight)^{rac{1}{2.142}}$$

7) Bundle Diameter for Six Tube Pass Square Pitch in Heat Exchanger



Open Calculator

$$ext{ex} 597.7 ext{mm} = 19.2 ext{mm} \cdot \left(rac{325}{0.0402}
ight)^{rac{1}{2.617}}$$

8) Bundle Diameter for Six Tube Pass Triangular Pitch in Heat Exchanger

$$D_{
m Bundle} = {
m Dia}_{
m O} \cdot \left(rac{
m N}_{
m T}}{0.0743}
ight)^{rac{1}{2.499}}$$

Open Calculator

$$ext{ex} 549.847 ext{mm} = 19.2 ext{mm} \cdot \left(rac{325}{0.0743}
ight)^{rac{1}{2.499}}$$



9) Bundle Diameter for Two Tube Pass Square Pitch in Heat Exchanger 💪

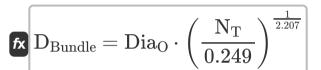


 $D_{
m Bundle} = {
m Dia}_{
m O} \cdot \left(rac{N_{
m T}}{0.156}
ight)^{rac{1}{2.291}}$

Open Calculator 🗗

 $\mathbf{ex} \left[539.3967 \mathrm{mm} = 19.2 \mathrm{mm} \cdot \left(\frac{325}{0.156} \right)^{\frac{1}{2.291}} \right]$

10) Bundle Diameter for Two Tube Pass Triangular Pitch in Heat Exchanger



Open Calculator

ex
$$495.4837 \mathrm{mm} = 19.2 \mathrm{mm} \cdot \left(\frac{325}{0.249}\right)^{\frac{1}{2.207}}$$



Variables Used

- D_{Bundle} Bundle Diameter (Millimeter)
- **Dia** Pipe Outer Diameter in Bundle Diameter (Millimeter)
- N_T Number of Tubes in Bundle Diameter





Constants, Functions, Measurements used

• Measurement: Length in Millimeter (mm)

Length Unit Conversion





Check other formula lists

- Basic Formulas Of Heat Exchanger Designs
- Bundle Diameter in Heat Exchanger Formulas
- Heat Transfer Coefficient in Heat Exchangers Formulas

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