



# STANDARD BRAZED PLATE

## HEAT EXCHANGER

### QUICK SELECT GUIDE

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**RADIANT FLOOR HEATING - BOILER**

Boiler side: 180°F -> 160°F  
 Radiant floor side: 100°F -> 120°F

| Model      | BTU/hr  | Boiler Side |                     | Radiant Floor Side |                     |
|------------|---------|-------------|---------------------|--------------------|---------------------|
|            |         | Flow (GPM)  | Pressure drop (psi) | Flow (GPM)         | Pressure drop (psi) |
| BT3x8-10   | 50,000  | 5.2         | 5.9                 | 5.0                | 4.2                 |
| BT3x8-16   | 60,000  | 6.2         | 8.4                 | 6.1                | 5.8                 |
| BT3x8-20   | 75,000  | 7.7         | 3.2                 | 7.5                | 3.0                 |
| BT3x8-20   | 100,000 | 10.3        | 5.2                 | 10.1               | 4.8                 |
| BT3x8-20   | 125,000 | 12.9        | 7.8                 | 12.6               | 6.7                 |
| BT3x8-26   | 150,000 | 15.5        | 5.3                 | 15.2               | 5.0                 |
| BT3x8-30   | 175,000 | 18.0        | 7.0                 | 17.7               | 6.5                 |
| BT3x8-30   | 200,000 | 20.6        | 5.8                 | 20.2               | 5.6                 |
| BT5x12-20  | 225,000 | 23.2        | 7.4                 | 22.7               | 6.9                 |
| BT5x12-20  | 250,000 | 25.8        | 3.5                 | 25.2               | 3.2                 |
| BT5x12-20  | 275,000 | 28.3        | 4.0                 | 27.8               | 3.6                 |
| BT5x12-30  | 300,000 | 30.9        | 4.9                 | 30.3               | 4.5                 |
| BT5x12-30  | 350,000 | 36.1        | 6.3                 | 35.3               | 5.5                 |
| BT5x12-40  | 400,000 | 41.7        | 5.5                 | 40.4               | 5.2                 |
| BT5x12-40  | 450,000 | 46.4        | 6.4                 | 45.4               | 6.0                 |
| BT5x12C-50 | 500,000 | 51.5        | 7.3                 | 50.5               | 7.2                 |
| BT5X12C-60 | 675,000 | 69.5        | 8.3                 | 68.5               | 7.9                 |
| BT5X12C-70 | 825,000 | 84.5        | 8.9                 | 83.8               | 8.6                 |

Larger Models Available

**RADIANT FLOOR HEATING - HOT WATER HEATER**

Hot water heater side: 140°F -> 120°F  
 Radiant floor side: 80°F -> 100°F

| Model     | BTU/hr  | Hot Water Heater |                     | Radiant Floor Side |                     |
|-----------|---------|------------------|---------------------|--------------------|---------------------|
|           |         | Flow (GPM)       | Pressure drop (psi) | Flow (GPM)         | Pressure drop (psi) |
| BT3x8-10  | 25,000  | 2.5              | 1.0                 | 2.5                | 0.6                 |
| BT3x8-10  | 50,000  | 5.0              | 3.8                 | 5.0                | 2.5                 |
| BT3x8-16  | 75,000  | 7.6              | 4.0                 | 7.6                | 3.0                 |
| BT3x8-16  | 100,000 | 10.0             | 3.4                 | 10.0               | 3.0                 |
| BT3x8-20  | 125,000 | 12.6             | 4.8                 | 12.6               | 4.6                 |
| BT3X8-26  | 150,000 | 15.2             | 5.6                 | 15.2               | 5.0                 |
| BT5X12-20 | 200,000 | 20.2             | 3.2                 | 20.0               | 3.0                 |
| BT5X12-30 | 250,000 | 25.4             | 3.8                 | 25.2               | 3.6                 |
| BT5X12-30 | 300,000 | 30.9             | 4.5                 | 30.7               | 4.2                 |
| BT5X12-40 | 350,000 | 36.4             | 5.9                 | 36.2               | 5.6                 |
| BT5X12-40 | 400,000 | 40.7             | 6.2                 | 40.3               | 5.9                 |
| BT5X12-50 | 500,000 | 50.8             | 7.4                 | 50.3               | 7.1                 |

Larger Models Available

## DOMESTIC HOT WATER

Hot water heater side: 200°F -> 140°F

Domestic water side: 50°F -> 140°F

| Model      | BTU/hr    | Boiler Side |                     | Domestic Hot Water |                     |
|------------|-----------|-------------|---------------------|--------------------|---------------------|
|            |           | Flow (GPM)  | Pressure drop (psi) | Flow (GPM)         | Pressure drop (psi) |
| BT3x8-10   | 25,000    | 1.2         | 0.5                 | 0.6                | 0.1                 |
| BT3x8-16   | 50,000    | 2.2         | 1.2                 | 1.1                | 0.2                 |
| BT3x8-16   | 75,000    | 3.5         | 1.4                 | 1.7                | 0.4                 |
| BT3x8-20   | 100,000   | 4.5         | 1.9                 | 2.2                | 0.8                 |
| BT3x8-20   | 125,000   | 5.7         | 2.1                 | 2.8                | 0.9                 |
| BT3x8-20   | 150,000   | 6.3         | 2.4                 | 3.3                | 0.9                 |
| BT3x8-30   | 200,000   | 8.3         | 2.4                 | 4.4                | 0.8                 |
| BT5x12-20  | 250,000   | 10.2        | 2.7                 | 5.6                | 0.9                 |
| BT5x12-20  | 300,000   | 12.3        | 3.9                 | 6.7                | 1.2                 |
| BT5x12-20  | 350,000   | 14.4        | 4.2                 | 7.8                | 1.4                 |
| BT5x12-30  | 400,000   | 16.4        | 4.7                 | 8.9                | 1.5                 |
| BT5x12-30  | 500,000   | 20.5        | 7.4                 | 11.1               | 2.1                 |
| BT5x12-40  | 600,000   | 24.7        | 6.5                 | 13.3               | 2.1                 |
| BT5x12-40  | 700,000   | 28.8        | 7.8                 | 15.6               | 2.7                 |
| BT5x12-50  | 800,000   | 33.1        | 7.0                 | 17.9               | 2.5                 |
| BT5x12C-50 | 900,000   | 37.2        | 8.6                 | 20.1               | 3.1                 |
| BT5x12C-70 | 1,000,000 | 41.4        | 9.5                 | 22.3               | 2.3                 |

Larger Models Available

## SNOW MELT APPLICATIONS

Boiler side: 180°F -> 150°F

Snow melt side: 100°F -> 130°F - 40% Propylene Glycol

| Model      | BTU/hr  | Boiler Side |                     | Snow Melt Side |                     |
|------------|---------|-------------|---------------------|----------------|---------------------|
|            |         | Flow (GPM)  | Pressure drop (psi) | Flow (GPM)     | Pressure drop (psi) |
| BT3x8-16   | 50,000  | 4.6         | 4.7                 | 4.4            | 4.8                 |
| BT3x8-20   | 75,000  | 5.2         | 4.7                 | 5.4            | 3.8                 |
| BT3x8-20   | 100,000 | 6.9         | 4.9                 | 7.0            | 3.7                 |
| BT3x8-20   | 125,000 | 8.3         | 4.9                 | 8.9            | 4.2                 |
| BT3x8-30   | 150,000 | 9.9         | 4.9                 | 10.5           | 3.4                 |
| BT3x8-40   | 200,000 | 13.7        | 5.0                 | 14.3           | 3.9                 |
| BT3X8-40   | 225,000 | 15.3        | 5.0                 | 16.1           | 4.6                 |
| BT5X12-20  | 250,000 | 17.1        | 4.3                 | 17.8           | 4.9                 |
| BT5X12-30  | 300,000 | 19.6        | 5.1                 | 20.7           | 5.8                 |
| BT5X12-40  | 400,000 | 26.9        | 5.3                 | 28.0           | 6.1                 |
| BT5X12-50  | 500,000 | 32.8        | 5.8                 | 35.7           | 6.5                 |
| BT5X12C-60 | 600,000 | 40.9        | 6.2                 | 43.3           | 8.5                 |
| BT5X12C-70 | 700,000 | 47.0        | 6.8                 | 49.2           | 9.2                 |

Larger Models Available



## Heat Exchanger Sizing and Quote Form

To find out which model of heat exchanger will suit your requirements best, please provide design parameters of your application.

### Contact Information

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|                                  |                              |
|----------------------------------|------------------------------|
| Name*: _____                     | Company: _____               |
| e-mail*: _____                   | Address: _____               |
| Phone/Fax*: _____                | City: _____                  |
| Position: _____                  | State: _____ Zip Code: _____ |
| Project Reference/P.O.: _____    |                              |
| Quantity*: _____                 | Delivery required by: _____  |
| Brief project description: _____ |                              |
| _____                            |                              |

|   | Side A | Side B |
|---|--------|--------|
| Fluid Type*:                            | _____  | _____  |
| Entering Fluid Temperature* (°C or °F): | _____  | _____  |
| Leaving Fluid Temperature* (°C or °F):  | _____  | _____  |
| Flow Rate*:                             | _____  | _____  |
| Allowable Pressure Drop:                | _____  | _____  |
| Design Pressure:                        | _____  | _____  |
| Load (capacity):                        | _____  | _____  |
| Density @ Temp.:                        | _____  | _____  |
| Thermal Conductivity:                   | _____  | _____  |
| Specific Heat:                          | _____  | _____  |
| Viscosity:                              | _____  | _____  |
| Phase Change:                           | _____  | _____  |
| Optional Data (if known):               | _____  |        |

\* Denotes required fields

**Fax completed form to 718-874-0198**