

## HTF Series Heat Exchangers

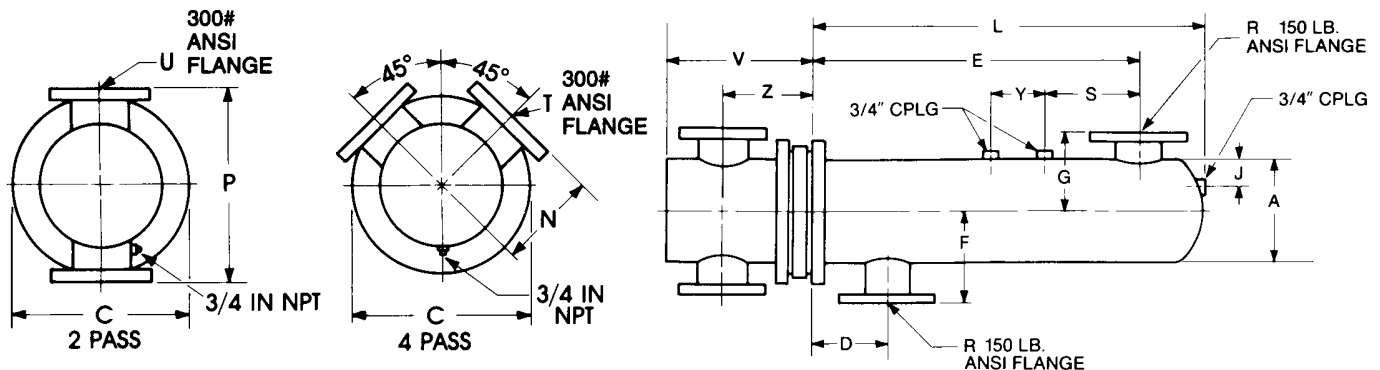
SUPERSEDES: July 1, 1997

EFFECTIVE: March 11, 2021

12" DIAMETER 2 &amp; 4 PASS

| Item No. | Model No. | Pass | GPM Tubes | Temp. In | Temp. Out | P.D. Tubes | Vel. Tubes | GPM Shell | Temp. In | Temp. Out | P.D. Shell | Vel. Shell |
|----------|-----------|------|-----------|----------|-----------|------------|------------|-----------|----------|-----------|------------|------------|
|          |           |      |           |          |           |            |            |           |          |           |            |            |

Tube Fluid \_\_\_\_\_ Shell Fluid \_\_\_\_\_



| Model Number |          | Fabricated Steel Heads |                                |   |    |        |                                |   |    | Dimensions (inches)            |                                |    |                                 |                                |                                |                               |                                 |    |                               |    |       | Heating Surface (Sq. Ft.) | Approx. Shipping Weight (Lbs.) |
|--------------|----------|------------------------|--------------------------------|---|----|--------|--------------------------------|---|----|--------------------------------|--------------------------------|----|---------------------------------|--------------------------------|--------------------------------|-------------------------------|---------------------------------|----|-------------------------------|----|-------|---------------------------|--------------------------------|
| 2 Pass       | 4 Pass   | 2 Pass                 |                                |   |    | 4 Pass |                                |   |    | 2 and 4 Pass                   |                                |    |                                 |                                |                                |                               |                                 |    |                               |    |       |                           |                                |
|              |          | V                      | Z                              | P | U  | V      | Z                              | N | T  | A                              | C                              | D  | E                               | F                              | G                              | J                             | L                               | R  | S                             | Y  |       |                           |                                |
| 12206HTF     | 12406HTF | 16                     | 10 <sup>3</sup> / <sub>8</sub> | 4 | 4F | 16     | 10 <sup>1</sup> / <sub>2</sub> | 2 | 3F | 12 <sup>3</sup> / <sub>4</sub> | 20 <sup>1</sup> / <sub>2</sub> | 10 | 26 <sup>3</sup> / <sub>4</sub>  | 11 <sup>7</sup> / <sub>8</sub> | 11 <sup>7</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 36 <sup>1</sup> / <sub>4</sub>  | 6F | 9 <sup>3</sup> / <sub>4</sub> | 12 | 58.6  | 490                       |                                |
| 12208HTF     | 12408HTF | 16                     | 10 <sup>3</sup> / <sub>8</sub> | 4 | 4F | 16     | 10 <sup>1</sup> / <sub>2</sub> | 2 | 3F | 12 <sup>3</sup> / <sub>4</sub> | 20 <sup>1</sup> / <sub>2</sub> | 10 | 38 <sup>3</sup> / <sub>4</sub>  | 11 <sup>7</sup> / <sub>8</sub> | 11 <sup>7</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 48 <sup>1</sup> / <sub>4</sub>  | 6F | 9 <sup>3</sup> / <sub>4</sub> | 12 | 79.0  | 563                       |                                |
| 12210HTF     | 12410HTF | 16                     | 10 <sup>3</sup> / <sub>8</sub> | 4 | 4F | 16     | 10 <sup>1</sup> / <sub>2</sub> | 2 | 3F | 12 <sup>3</sup> / <sub>4</sub> | 20 <sup>1</sup> / <sub>2</sub> | 10 | 50 <sup>3</sup> / <sub>4</sub>  | 11 <sup>7</sup> / <sub>8</sub> | 11 <sup>7</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 60 <sup>1</sup> / <sub>4</sub>  | 6F | 9 <sup>3</sup> / <sub>4</sub> | 12 | 99.5  | 637                       |                                |
| 12212HTF     | 12412HTF | 16                     | 10 <sup>3</sup> / <sub>8</sub> | 4 | 4F | 16     | 10 <sup>1</sup> / <sub>2</sub> | 2 | 3F | 12 <sup>3</sup> / <sub>4</sub> | 20 <sup>1</sup> / <sub>2</sub> | 10 | 62 <sup>3</sup> / <sub>4</sub>  | 11 <sup>7</sup> / <sub>8</sub> | 11 <sup>7</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 72 <sup>1</sup> / <sub>4</sub>  | 6F | 9 <sup>3</sup> / <sub>4</sub> | 12 | 119.9 | 711                       |                                |
| 12214HTF     | 12414HTF | 16                     | 10 <sup>3</sup> / <sub>8</sub> | 4 | 4F | 16     | 10 <sup>1</sup> / <sub>2</sub> | 2 | 3F | 12 <sup>3</sup> / <sub>4</sub> | 20 <sup>1</sup> / <sub>2</sub> | 10 | 74 <sup>3</sup> / <sub>4</sub>  | 11 <sup>7</sup> / <sub>8</sub> | 11 <sup>7</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 84 <sup>1</sup> / <sub>4</sub>  | 6F | 9 <sup>3</sup> / <sub>4</sub> | 12 | 140.3 | 785                       |                                |
| 12216HTF     | 12416HTF | 16                     | 10 <sup>3</sup> / <sub>8</sub> | 4 | 4F | 16     | 10 <sup>1</sup> / <sub>2</sub> | 2 | 3F | 12 <sup>3</sup> / <sub>4</sub> | 20 <sup>1</sup> / <sub>2</sub> | 10 | 86 <sup>3</sup> / <sub>4</sub>  | 11 <sup>7</sup> / <sub>8</sub> | 11 <sup>7</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 96 <sup>1</sup> / <sub>4</sub>  | 6F | 9 <sup>3</sup> / <sub>4</sub> | 12 | 160.8 | 859                       |                                |
| 12218HTF     | 12418HTF | 16                     | 10 <sup>3</sup> / <sub>8</sub> | 4 | 4F | 16     | 10 <sup>1</sup> / <sub>2</sub> | 2 | 3F | 12 <sup>3</sup> / <sub>4</sub> | 20 <sup>1</sup> / <sub>2</sub> | 10 | 98 <sup>3</sup> / <sub>4</sub>  | 11 <sup>7</sup> / <sub>8</sub> | 11 <sup>7</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 108 <sup>1</sup> / <sub>4</sub> | 6F | 9 <sup>3</sup> / <sub>4</sub> | 12 | 181.2 | 933                       |                                |
| 12220HTF     | 12420HTF | 16                     | 10 <sup>3</sup> / <sub>8</sub> | 4 | 4F | 16     | 10 <sup>1</sup> / <sub>2</sub> | 2 | 3F | 12 <sup>3</sup> / <sub>4</sub> | 20 <sup>1</sup> / <sub>2</sub> | 10 | 110 <sup>3</sup> / <sub>4</sub> | 11 <sup>7</sup> / <sub>8</sub> | 11 <sup>7</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 120 <sup>1</sup> / <sub>4</sub> | 6F | 9 <sup>3</sup> / <sub>4</sub> | 12 | 201.6 | 1007                      |                                |

MATERIALS OF CONSTRUCTION (Unless otherwise indicated, standard will be furnished.)

|                  | Standard                       | Optional                               |
|------------------|--------------------------------|----------------------------------------|
| Shell            | Steel                          | 304ss, 316ss                           |
| Head             | Fabricated Steel               | Fabricated 304ss/316ss                 |
| Tubes            | 3/4x20 BWG 90/10 Cu Ni         | 304ss, 316ss                           |
| Tube Sheet       | Steel                          | 304ss, 316ss                           |
| Separators       | Steel                          | Naval Brass, 304ss, 316ss, 90/10 Cu Ni |
| Working Pressure | Tubes 400 psi<br>Shell 150 psi | Consult Factory                        |
| Max. Temperature | 450°F                          | Consult Factory                        |

All units have ASME "U" stamp on name plate

