

High Temperature Water U-Tube Heat Exchangers HTWU Series

HIGH-TEMPERATURE U-TUBE

SHELL & TUBE

REMOVABLE HEAT-TRANSFER BUNDLE



Performance Notes

- HTWU exchangers are U-tube removable-bundle units designed for high-temperature water heating, with high-temperature water on the tube side and higher-pressure tube-side head construction.
- Shell diameter range in supplied data: 4-12 in..
- Tube length range in supplied data: 36-120 in..
- Tube-pass arrangements in supplied data: 2-Pass, 4-Pass, 6-Pass.

Ratings	Materials
Shell pressure 150 PSI	Shell Steel
Tube pressure 400 PSI	Tubes Copper
Maximum temperature 375°F	Tubesheet / bonnets Steel / Cast Iron

Series Configuration

Shell diameter	Tube OD	Tube passes	Tube lengths	Surface area
4-12 in.	3/4" O.D.	2-Pass, 4-Pass, 6-Pass	36-120 in.	6.8-212 ft²

Ratings, materials and dimensional ranges above are summarized from the supplied HeatX/Bell & Gossett catalog spreadsheet. Exact construction varies by model and option code.

HTWU Series Size Range & Model Guid



CATALOG RANGE FROM SUPPLIED DATA

Shell dia.	Catalog records	Tube length	Surface area	Passes	Tube-side conn.
4"	20	36-84 in.	6.8-16.3 ft ²	2-Pass, 4-Pass	1.5" NPT, 1.25" NPT
6"	36	36-96 in.	9.6-36.2 ft ²	2-Pass, 4-Pass, 6-Pass	2.0 " NPT, 1.5" NPT, 1.25" NPT
8"	36	48-108 in.	26-75 ft ²	2-Pass, 4-Pass, 6-Pass	3.0" NPT, 2.0 " NPT
10"	36	48-108 in.	45-131 ft ²	2-Pass, 4-Pass, 6-Pass	3.0" NPT, 2.5" NPT
12"	42	48-120 in.	68-212 ft ²	2-Pass, 4-Pass, 6-Pass	3.0" NPT

Construction Summary

Feature	Catalog summary
Tube construction	3/4" O.D.
Shell material	Steel
Tube material	Copper
Tubesheet	Steel
Bonnet / head	Cast Iron
Tube passes	2-Pass, 4-Pass, 6-Pass
Pressure / temperature	Shell: 150 PSI; Tube: 400 PSI; Temp: 375°F

The range table is intended as a family-level guide. Use the complete part number and current dimensional submittal when replacing an installed exchanger.

Representative HTWU Models

SELECTED FROM THE SUPPLIED PART-NUMBER FILE

Part / model	Shell	Length	Surface	Tube conn.	Passes
5-268-04-036-001	4"	36"	6.8	1.5" NPT	2-Pass
HTWU46-44	4"	72"	13.9	1.25" NPT	4-Pass
HTWU64-63	6"	48"	13.1	1.25" NPT	6-Pass
5-268-06-084-003	6"	84"	23.8	1.25" NPT	6-Pass
HTWU84-64	8"	48"	26	2.0 " NPT	6-Pass
HTWU87-24	8"	84"	58	3.0" NPT	2-Pass
5-268-10-048-001	10"	48"	56	3.0" NPT	2-Pass
HTWU106-45	10"	72"	82	3.0" NPT	4-Pass
5-268-10-108-002	10"	108"	124	3.0" NPT	4-Pass
HTWU125-44	12"	60"	98	3.0" NPT	4-Pass
5-268-12-096-003	12"	96	139	3.0" NPT	6-Pass
HTWU1210-64	12"	120"	174	3.0" NPT	6-Pass

Model / Part-Number Identification

Bell & Gossett heat-transfer equipment exists under multiple numbering generations. The supplied data includes current 5-xxx drawing-style numbers as well as legacy model designations on some series. For replacement work, retain the complete original model, part number and nameplate information rather than inferring construction from a shortened designation.

Selection Inputs

- Heat load or required duty
- Hot- and cold-side fluids
- Entering and leaving temperatures
- Flow rates on both sides
- Available pressure drop
- Design pressure and temperature
- Fouling allowance and fluid properties
- Required materials, code stamping and double-wall requirement where applicable

HTWU Application & Specification Guid



ENGINEERING CHECKLIST

Typical Applications

- High-temperature hydronic systems
- District heating interfaces
- Process water heating
- High-pressure hot-water service

Specification Notes

- Series: Bell & Gossett HTWU
- Configuration: High-Temperature U-Tube
- Size the exchanger on the actual fluid properties, temperatures, flow rates and allowable pressure drops.
- Confirm the exact model pressure rating, connection size, materials and tube-pass arrangement before release.
- Provide service clearance for bonnet/head removal and bundle withdrawal where the construction is removable.
- For steam service, provide proper condensate drainage and venting. For liquid service, arrange piping to keep the exchanger flooded and ventable.
- Where potable or contamination-sensitive fluids are involved, confirm local code requirements for double-wall construction and leak detection.

Source & Data Basis

Catalog values and representative part numbers in this HeatX guide are derived from the supplied Bell & Gossett series spreadsheet dated 8/9/2026. Product-family descriptions were cross-checked against official Bell & Gossett / Xylem literature, including: Bell & Gossett HTWU High Temperature Heat Exchangers; Xylem brochure C-122 and submittal C-135C.

This document is a HeatX selection and replacement reference, not a substitute for the current manufacturer-certified submittal. Dimensions and ratings should be verified for the exact part number before fabrication, purchase or installation.

