

Water-to-Liquid U-Tube Heat Exchangers WU Series

LIQUID-TO-LIQUID U-TUBE

SHELL & TUBE

REMOVABLE HEAT-TRANSFER BUNDLE



Performance Notes

- WU exchangers use a removable U-tube bundle for liquid-to-liquid service. The U-bend bundle accommodates differential thermal expansion and can be withdrawn for inspection or replacement.
- Shell diameter range in supplied data: 4-30 in..
- Tube length range in supplied data: 36-120 in..
- Tube-pass arrangements in supplied data: 2-Pass, 4-Pass, 6-Pass, 2- Pass.

Ratings		Materials	
Shell pressure 150 PSI		Shell Steel	
Tube pressure 150 PSI, 125 PSI		Tubes Copper	
Maximum temperature 300°F		Tubesheet / bonnets Steel, Brass, Steel or Brass / Cast Iron, Cast Brass, Cast Iron or Brass	

Series Configuration

Shell diameter	Tube OD	Tube passes	Tube lengths	Surface area
4-30 in.	3/4" O.D.	2-Pass, 4-Pass, 6-Pass, 2-	Pass	36-120 in.

6.8-1439 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.

WU Series Size Range & Model Guide



CATALOG RANGE FROM SUPPLIED DATA

Shell dia.	Catalog records	Tube length	Surface area	Passes	Tube-side conn.
4"	40	36-84 in.	6.8-16.3 ft ²	2-Pass, 4-Pass	1.5" NPT, 1.25" NPT
6"	66	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"	66	48-108 in.	26-75 ft ²	2- Pass, 4-Pass, 6-Pass +	3.0" NPT, 2.0" NPT
10"	77	48-120 in.	45-146 ft ²	2-Pass, 4-Pass, 6-Pass	4.0" NPT, 3.0" NPT, 2.5" NPT
12"	66	48-108 in.	68-191 ft ²	2-Pass, 4-Pass, 6-Pass	4.0" NPT, 3.0" NPT
14"	36	48-108 in.	111-263 ft ²	2-Pass, 4-Pass, 6-Pass	6.0" NPT, 4.0" NPT
16"	36	48-108 in.	143-342 ft ²	2-Pass, 4-Pass, 6-Pass	6.0" NPT, 4.0" NPT
18"	36	48-108 in.	195-435 ft ²	2-Pass, 4-Pass, 6-Pass	6.0" NPT, 4.0" NPT
20"	36	48-108 in.	251-582 ft ²	2-Pass, 4-Pass, 6-Pass	8.0" NPT, 6.0" NPT
22"	14	48-120 in.	325-803 ft ²	2-Pass, 4-Pass	10.0" FLG, 6.0" FLG
24"	14	48-120 in.	385-969 ft ²	2-Pass, 4-Pass	10.0" FLG, 8.0" FLG
26"	14	48-120 in.	475-1159 ft ²	2-Pass, 4-Pass	12.0" FLG, 8.0" FLG
28"	14	48-120 in.	447-1240 ft ²	2-Pass, 4-Pass	12.0" FLG, 10.0" FLG
30"	14	48-120 in.	529-1439 ft ²	2-Pass, 4-Pass	14.0" FLG, 10.0" FLG

Construction Summary

Feature	Catalog summary
Tube construction	3/4" O.D.
Shell material	Steel
Tube material	Copper
Tubesheet	Steel, Brass, Steel or Brass
Bonnet / head	Cast Iron, Cast Brass, Cast Iron or Brass
Tube passes	2-Pass, 4-Pass, 6-Pass, 2- Pass
Pressure / temperature	Shell: 150 PSI; Tube: 150 PSI, 125 PSI; Temp: 300°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 WU Models

SELECTED FROM THE SUPPLIED PART-NUMBER FILE

Part / model	Shell	Length	Surface	Tube conn.	Passes
5-265-04-036-001	4"	36"	6.8	1.5" NPT	2-Pass
WU63-23	6"	36"	12.7	2.0" NPT	2-Pass
5-265-06-096-002	6"	96"	36.2	1.5" NPT	4-Pass
5-266-08-084-003	8"	84"	48	2.0" NPT	6-Pass
WU105-45	10"	60"	68	3.0" NPT	4-Pass
5-265-10-120-003	10"	120"	116	2.5" NPT	6-Pass
5-266-12-084-004	12"	84"	148	4.0" NPT	2-Pass
WU147-48	14"	84"	196	4.0" NPT	4-Pass
WU169-45	16"	108"	327	4.0" NPT	4-Pass
WU205-48	20"	60"	314	6.0" NPT	4-Pass
WU247-4	24"	84"	666	8.0" FLG	4-Pass
WU3010-4	30"	120"	1410	10.0" FLG	4-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

WU Application & Specification Guide



ENGINEERING CHECKLIST

Typical Applications

- Hydronic water heating
- Process liquid heating or cooling
- Boiler-water heat transfer
- Closed-loop heat recovery

Specification Notes

- Series: Bell & Gossett WU
- Configuration: Liquid-To-Liquid 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 SU/WU U-Tube Heat Exchangers; Xylem brochure C-122 and WU submittals.

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.

