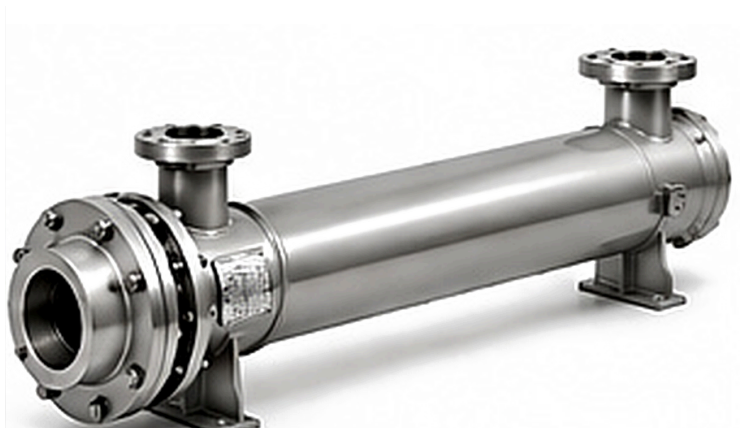


Gas Coolers GC Series

STRAIGHT-TUBE GAS COOLER

SHELL & TUBE

REMOVABLE HEAT-TRANSFER BUNDLE



Performance Notes

- GC units are straight-tube shell-and-tube exchangers for cooling gas streams with a liquid utility. Straight tubes and removable-head construction support inspection and mechanical cleaning.
- Shell diameter range in supplied data: 3-12 in..
- Tube length range in supplied data: 39-123 in..
- Tube-pass arrangements in supplied data: Model dependent.

Ratings	Materials
Shell pressure Model dependent	Shell Steel
Tube pressure Model dependent	Tubes Copper, Steel, Copper or Steel
Maximum temperature 1000°F	Tubesheet / bonnets Steel / Cast Iron

Series Configuration

Shell diameter	Tube OD	Tube passes	Tube lengths	Surface area
3-12 in.	5/8" O.D.	Model dependent	39-123 in.	Model dependent

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

GC Series Size Range & Model Guide



CATALOG RANGE FROM SUPPLIED DATA

Shell dia.	Catalog records	Tube length	Surface area	Passes	Tube-side conn.
3"	21	39-111 in.	Model dependent	Model dependent	Model dependent
4"	21	39-111 in.	Model dependent	Model dependent	Model dependent
6"	63	39-111 in.	Model dependent	Model dependent	Model dependent
8"	63	51-123 in.	Model dependent	Model dependent	Model dependent
10"	63	51-123 in.	Model dependent	Model dependent	Model dependent
12"	21	51-123 in.	Model dependent	Model dependent	Model dependent

Construction Summary

Feature	Catalog summary
Tube construction	5/8" O.D.
Shell material	Steel
Tube material	Copper, Steel, Copper or Steel
Tubesheet	Steel
Bonnet / head	Cast Iron
Tube passes	Model dependent
Pressure / temperature	Shell: Model dependent; Tube: Model dependent; Temp: 1000°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 GC Models

SELECTED FROM THE SUPPLIED PART-NUMBER FILE

Part / model	Shell	Length	Surface	Tube conn.	Passes
5-153-03-039-001	3"	39"	—	—	—
GC43-20	4"	39"	—	—	—
5-153-06-039-005	6"	39"	—	—	—
GC65-55	6"	63"	—	—	—
5-153-06-099-005	6"	99"	—	—	—
5-153-08-063-001	8"	63"	—	—	—
5-153-08-087-006	8"	87"	—	—	—
5-153-08-123-002	8"	123"	—	—	—
GC105-120	10"	63"	—	—	—
5-153-10-099-002	10"	99"	—	—	—
GC1010-120	10"	123"	—	—	—
GC1210-168	12"	123"	—	—	—

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

GC Application & Specification Guide



ENGINEERING CHECKLIST

Typical Applications

- Compressed gas cooling
- Process gas cooling
- Interstage cooling
- Gas-to-water heat rejection

Specification Notes

- Series: Bell & Gossett GC
- Configuration: Straight-Tube Gas Cooler
- 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 Gas Cooler GC; Xylem/Bell & Gossett straight-tube heat exchanger literature.

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.

