

ASME TUBE-IN-SHELL HEAT EXCHANGER

JHC

USA Lab ASME Heat Exchanger Condenser, 4" x 24" to 8" x 48"

This ASME tube-in-shell heat exchanger condenser handles process cooling, heating, and energy recovery in industrial, laboratory, and pilot-scale systems. It has 304 stainless steel shells and wetted surfaces and a 250 psi pressure rating, and its standard 1.5" Tri-Clamp jacket ports simplify integration with sanitary piping, manifold systems, and modular skids.

- ✓ **ASME tube-in-shell design.** ASME-compliant designs inspected for performance.
- ✓ **304 stainless construction.** 304 stainless steel shells and wetted surfaces.
- ✓ **Rated to 250 psi.** 250 psi pressure rating on all models.
- ✓ **Tri-Clamp connections.** Standard 1.5" Tri-Clamp jacket ports for sanitary piping, manifolds, and skids.
- ✓ **Five shell sizes.** 712in² to 5403in² surface area with 24 to 91 tubes of 10mm.

MODEL JHC



712 to 5403 in²
HEAT TRANSFER SURFACE
AREA

24 to 91 tubes
NUMBER OF TUBES

250 psi
PRESSURE RATING

10 mm
TUBE SIZE

4 to 8 in
SHELL TRI-CLAMP
CONNECTION

Technical Specifications

Model JHC

PERFORMANCE

Surface area	712in ² to 5403in ²
Number of tubes	24 to 91
Tube size	10mm
Pressure rating	250 psi

OPERATION

Functions	Process cooling, heating, and energy recovery
System scale	Industrial, laboratory, and pilot-scale systems
Integration	Sanitary piping, manifold systems, and modular skids
Typical uses	Chiller loops, condensers, reboilers, jacketed reactor support, solvent cooling
Refurbished option	Selected units available refurbished, cleaned and tested

CONSTRUCTION

Design	ASME tube-in-shell
Certification	ASME
Compliance	ASME-compliant, inspected for performance
Material	304 stainless
Shells and wetted surfaces	304 stainless steel
Shell Tri-Clamp connection	4" to 8"
Jacket connections	(2) 1.5" TC
Jacket port type	Standard 1.5" Tri-Clamp

DIMENSIONS AND WEIGHT

Shell sizes	4" x 24" to 8" x 48"
Dimensions (L x W x H)	6.75 x 6.75 x 24.5 in (4" x 24") to 48 x 8 x 10 in (8" x 48")
Weight	17.14 lb to 77 lb

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	SIZE
JHC6X24-ASME	USA Lab ASME Heat Exchanger 1544in ² surface area, 52 tubes	6" x 24" Tri Clamp w/ (2) 1.5" TC
JHC6X36-ASME	USA Lab ASME Heat Exchanger 2315in ² surface area, 52 tubes	6" x 36" Tri Clamp w/ (2) 1.5" TC
JHC6X48-ASME	USA Lab ASME Heat Exchanger 3087in ² surface area, 52 tubes	6" x 48" Tri Clamp w/ (2) 1.5" TC
JHC8X48-ASME	USA Lab ASME Heat Exchanger 5403in ² surface area, 91 tubes	8" x 48" Tri Clamp w/ (2) 1.5" TC
JHC4X24-ASME	USA Lab ASME Heat Exchanger 712in ² surface area, 24 tubes	4" x 24" Tri Clamp w/ (2) 1.5" TC

IDEAL APPLICATIONS

- Chiller loops
- Condensers
- Reboilers
- Jacketed reactor support
- Solvent cooling
- Energy recovery

Specifications by Size

Model JHC

Specification	6" x 24" JHC6X24-ASME	6" x 36" JHC6X36-ASME	6" x 48" JHC6X48-ASME	8" x 48" JHC8X48-ASME	4" x 24" JHC4X24-ASME
Shell Tri-Clamp connection	6"	6"	6"	8"	4"
Surface area	1544in ²	2315in ²	3087in ²	5403in ²	712in ²
Number of tubes	52	52	52	91	24
Dimensions (L x W x H)	7.75 x 7.75 x 24 in	8 x 8 x 36 in	8 x 8 x 48.5 in	8 x 8 x 48 in	6.75 x 6.75 x 24.5 in
Weight	38.88 lb	51 lb	61.5 lb	77 lb	17.14 lb