



# BAS HEAT EXCHANGERS

ENGINEERED FOR  
INDUSTRY – BUILT  
TOUGH, BUILT TO LAST



Shell and Tube Construction with 1-, 2- and 4-pass options

Cast iron bonnet construction

Standard and Custom Fittings options

UNS C12200 copper alloy shell construction

Cooling core bundles in Copper or Copper-Nickel

## KEY FEATURES & ADVANTAGES

### High Corrosion Resistance:

- Copper or optional CuNi cooling bundles and CN12200 copper shell
- All fluids involved in heat exchange are in contact with corrosion resistant materials

### Fully configurable:

- Any combination of diameter and length can be ordered
- Single pass cooling available on all models
- 2-pass and 4-pass cooling available on select models
- Cooling core materials and end-cap options for enhanced corrosion resistance
- Large diameter 5/8" tubing optional for 'dirty coolant' applications

### Robust and reliable all-copper construction

- Less risk of brazing failure due to temperature expansion/contraction
- Non-sparking, non-magnetic
- Lighter weight to support mounting and mobility limits

## TECHNICAL SPECIFICATIONS

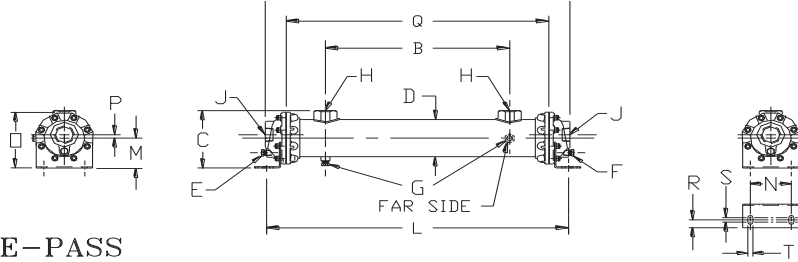
Bundle Material	Copper Standard, CuNi (90/10)
Core Diameter and Tube Sizes	5", 6", 8" BAS: 0.375 (3/8" OD) 0.625 (5/8" OD)
Lengths	14" to 72"
Bonnets (End-Caps)	Cast Iron - Standard, Bronze - Option
Passes	Single Pass, 2-Pass, 4-Pass

## INDUSTRIAL COOLING APPLICATIONS

- Irrigation
- Oil & Gas production
- Fermentation and Brewery
- Process gases and condensation
- Oil and transmission
- Chemical processes
- Manufacturing processes

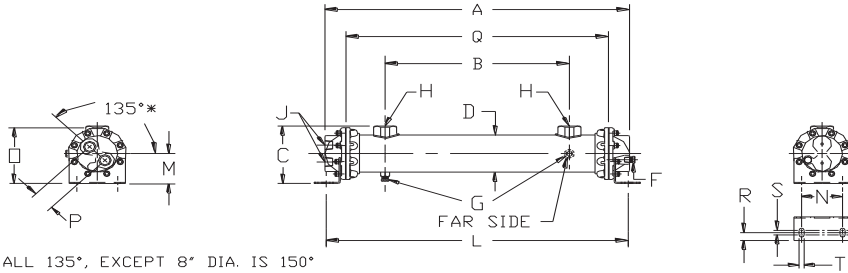
# Rugged by Design. Relentless in Performance

## Built tough to cool fast and run longer



SINGLE-PASS

PRESSURE & TEMPERATURE RATINGS	
WORKING PRESSURE	
SHELL	150 PSI
TUBES	150 PSI
WORKING TEMPERATURE	250° F
TEST PRESSURE	
SHELL	250 PSI
TUBES	250 PSI



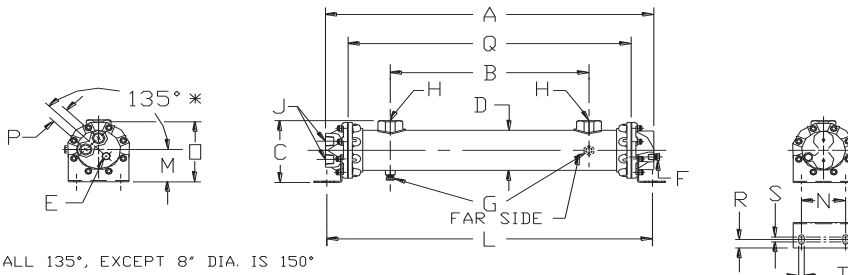
\* - ALL 135°, EXCEPT 8" DIA. IS 150°

TWO-PASS

MATERIAL SPECIFICATIONS	
SHELL	COPPER OR BRASS
TUBES	COPPER *
TUBESHEETS	COPPER
BAFFLES	COPPER
END HUBS	COMPOSITION BRONZE
END BONNETS	CAST IRON **
MOUNTING BRACKET	STEEL

\* CUPRO-NICKEL ALSO AVAILABLE

\*\* BRONZE ALSO AVAILABLE



\* - ALL 135°, EXCEPT 8" DIA. IS 150°

FOUR-PASS

MAXIMUM FLOW RATES IN GPM				
SERIES	SHELL	TUBE		
BAS-5xx	50	85	50	38
BAS-6xx	85	180	85	50
BAS-8xx	180	350	180	85

HEAT EXCHANGER DIMENSIONS - INCHES																																										
Model Number	Overall Length			Shell Side Connections Center Distance	Overall Height	Shell Diameter	1st Tubeside Drain Size #	2nd Tubeside Drain Size	Shellside Drain Size	Shellside Connections	Tubeside Connections			Bolt Centers - Length	Height to Center	Bolt Centers - Width	Height to End Caps	Tubeside Connections -Center Distance			Shell Length - Less End Caps	Bolt Hole to End of Bracket	Hole Length- Center to Center	Bolt Hole Width	Effective Surface Area Area Sq. Ft.		Number of Tubes per Bundle															
																													A			B	C	D	E	F	G	H	J			L
	1-Pass	2-Pass	4-Pass								1-Pass	2-Pass	4-Pass					1-Pass	2-Pass	4-Pass					1-Pass	2-Pass	4-Pass	1-Pass	2-Pass	4-Pass	1-Pass	2-Pass	4-Pass	1-Pass	2-Pass	4-Pass	1/4" Tubes	3/8" Tubes	1/4" Tubes	3/8" Tubes		
BAS514-37-3-*	19.50	18.56	18.56	9.00	7.81	5.13	3/8- NPT	3/8- NPT	3/8- NPT	1-1/2 NPT	2-1/2 NPT	1-1/2 NPT	1- NPT	17.50	3.88	4.00	7.75	0.00	3.75	2.69	14.50	1.06	0.88	0.50		9.2		80														
BAS524-37-3-*	29.50	28.56	28.56	19.00										27.50															27.50				24.50				15.7				80	
BAS536-37-3-*	41.50	40.56	40.56	31.00																									39.50								36.50					80
BAS624-37-3-*	30.00	29.62	29.81	18.25																									29.31								24.50					116
BAS636-37-3-*	42.00	41.62	41.81	30.25	8.75	6.13	3/8- NPT	3/8- NPT	3/8- NPT	2- NPT	3- NPT	2- NPT	1-1/2 NPT	41.31	4.56	5.00	8.43	0.00	3.06	3.00	36.50	0.88	0.88	0.50		34.2		116														
BAS648-37-4-*	54.00	53.62	53.81	42.25										53.31															53.31				48.50				45.6				116	
BAS660-37-3-*	66.00	65.62	65.81	54.25										65.31															65.31				60.50				57.0				116	
BAS824-37-6-*	31.31	29.50	29.50	17.00																									28.19								24.50					216
BAS836-37-3-*	43.31	41.50	41.50	19.00	11.38	8.13	3/8- NPT	3/8- NPT	3/8- NPT	3- NPT	4- NPT	2-1/2 NPT	2- NPT	40.19	6.00	7.00	11.06	0.00	4.75	4.00	36.50	1.06	0.94	0.56		63.6		216														
BAS848-37-3-*	55.31	53.50	53.50	41.00										52.19															52.19				48.50				84.8				216	
BAS860-37-4-*	67.31	65.50	65.50	53.00										64.19															64.19				60.50				106.0				216	
BAS872-37-4-*	79.31	77.50	77.50	65.00										76.19															76.19				72.50				127.3				216	

\* - NUMBER OF PASSES TO BE SPECIFIED. "1" DENOTES 1 PASS, "2" DENOTES 2 PASS, "4" DENOTES 4 PASS.

# - NOT AVAILABLE ON 2-PASS UNITS.

## - NOT AVAILABLE ON THESE 4-PASS UNITS.

Our product and applications experts can assist you in selecting the best BAS option for your heat exchange requirements- call us TODAY!

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