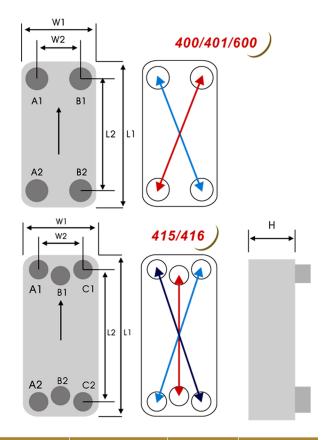
ZR Series - Large Diagonal Flow Brazed Plate Heat Exchanger



The newly innovative ZR series is designed with a diagonal flow pattern, providing higher efficiency to replace other traditional shell and tube, double tube or multi-tube heat exchangers in various applications. The advantage of ZR series dual circuit is providing the best performance in both full load and part load conditions. ZR series single circuit is specially designed for large volume and high heat transfer efficiency requirement.

(Note: 400/401/Z600: 4 connections, 415/416: Dual Circuit -6 connections)

Brazing Material	C	opper	Copper (Extra Strength)		
Model	ZR-400/ZR-600	ZR-415	ZR-401	ZR-416	
Model	(A2,B1/A1,B2)	(A2,C1/A1,C2/B1,B2)	(A2,B1/A1,B2)	(A2,C1/A1,C2/B1,B2)	
Max. Working Pressure (bar)	30/30	30/30/30	45/30	45/45/30	
Min. Test Pressure (bar)	43/43	43/43/43	65/43	65/65/43	
Max. Working Temperature (°C)	200 °C				

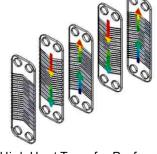


Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H Thickness (mm)	Weight (kg)	Heat Transfer Area/ plate (m²)	Total Heat Transfer Area (m²)	Volume/ Channel (liter)	Total Volume (liter)
ZR-400	751	650	321	220	14.0+2.38*N	33.64+0.89*N	0.2074	(N-2)*0.2074	0.423	(N-1)*0.423
ZR-415	751	656	321	226	14.0+2.40*N	33.82+0.87*N	0.2074	(N-2)*0.2074	0.414	(N-2)*0.414
ZR-600	945	810	375	240	14.0+2.38*N	45.94+1.23*N	0.3	(N-2)*0.3	0.62	(N-1)*0.62

Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H Thickness (mm)	Weight (kg)	Heat Transfer Area/ plate (m²)	Total Heat Transfer Area (m²)	Volume/ Channel (liter)	Total Volume (liter)
ZR-401	751	650	321	220	23.0+2.38*N	39.02+1.03*N	0.2074	(N-2)*0.2074	0.423	(N-1)*0.423
ZR-416	751	656	321	226	23.0+2.40*N	39.60+1.01*N	0.2074	(N-2)*0.2074	0.414	(N-2)*0.414

N: number of plates

The ZR series is designed with 3 different types of plates which satisfy various working conditions.



High Heat Transfer Performance



Standard



Low Pressure Drop



sales@radianheatsinks.com

1-800-689-2802

http:www.radianheatsinks.com

ZR Series - Model Selection Chart

R22 vs. Water Condenser

Based on ARI-450 Standard

1122 VS. VVa	Dascu UII	Alli-450 Standard			
RT	kW	kBTU/H	ZR-400	ZR-415	ZR-600
40	140.64	480	ZR-400Mx48	ZR-415x50	
50	175.80	600	ZR-400Mx60	ZR-415x62	
60	210.96	720	ZR-400Mx72	ZR-415x74	
75	263.70	900	ZR-400Mx90	ZR-415x90	
100	351.60	1200	ZR-400Mx124	ZR-415x126	
125	439.50	1500	ZR-400Mx162	ZR-415x162	
150	527.40	1800	ZR-400Mx208	ZR-415x210	
175	615.30	2100			ZR-600Mx166
200	703.20	2400			ZR-600Mx194
225	791.10	2700			ZR-600Mx218

R22 vs. Water Evaporator

Based on ARI-480 Standard

RT	kW	kBTU/H	ZR-400	ZR-415	ZR-600
40	140.64	480	ZR-400Hx60	ZR-415x62	
50	175.80	600	ZR-400Hx74	ZR-415x74	
60	210.96	720	ZR-400Hx90	ZR-415x90	
75	263.70	900	ZR-400Hx114	ZR-415x114	
100	351.60	1200	ZR-400Hx158	ZR-415x158	
125	439.50	1500			ZR-600Hx188
150	527.40	1800			ZR-600Hx230

R134A vs. Water Condenser

Based on ARI-450 Standard

RT	kW	kBTU/H	ZR-400	ZR-415	ZR-600
40	140.64	720	ZR-400Mx58	ZR-415x58	
50	175.80	900	ZR-400Mx72	ZR-415x74	
60	210.96	1200	ZR-400Mx84	ZR-415x86	
75	263.70	1500	ZR-400Mx106	ZR-415x106	
100	351.60	1800	ZR-400Mx140	ZR-415x142	
125	439.50	2100	ZR-400Mx176	ZR-415x178	
150	527.40	2400			ZR-600Mx190
175	615.30				ZR-600Mx224
200	703.20				ZR-600Mx254

R134A vs. Water Condenser

Based on ARI-458 Standard

RT	kW	kBTU/H	ZR-400	ZR-415	ZR-600
40	140.64	480	ZR-400Hx64	ZR-415x66	
50	175.80	600	ZR-400Hx80	ZR-415x82	
60	210.96	720	ZR-400Hx98V	ZR-415x98V	
75	263.70	900	ZR-400Hx126V	ZR-415x126V	
100	351.60	1200	ZR-400Hx202V	ZR-415x202V	
125	439.50	1500			ZR-600Hx206
150	527.40	1800			ZR-600H-254

R410A vs. Water Condenser

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RT	kW	kBTU/H	ZR-401	ZR-416
40	140.64	480	ZR-401Mx48	ZR-416x50
50	175.80	600	ZR-401Mx60	ZR-416x62
60	210.96	720	ZR-401Mx72	ZR-416x74
75	263.70	900	ZR-401Mx90	ZR-416x90
100	351.60	1200	ZR-401Mx124	ZR-416x126
125	439.50	1500	ZR-401Mx162	ZR-416x162
150	527.40	1800	ZR-401Mx208	ZR-416x210

R410A vs. Water Condenser

Based on ARI-480 Standard

RT	kW	kBTU/H	ZR-401	ZR-416	ZR-600
40	140.64	480	ZR-401Mx50	ZR-416x50	
50	175.80	600	ZR-401Mx62	ZR-416x62	
60	210.96	720	ZR-401Mx76	ZR-416x78	
75	263.70	900	ZR-401Mx96	ZR-416x98	
100	351.60	1200	ZR-401Mx130v	ZR-416x130	
125	439.50	1500	ZR-401Mx172v	ZR-416x174v	
150	527.40	1800			ZR-600Mx200
175	615.30	2100			ZR-600Mx244

