

Condenser Expanders

G-8012 Series Heat Exchanger & Condenser Tube Expanders



G-8012 Series

O.D. Range: 1-3/4" – 4" (44.4 – 76.2 mm)

- Expanders with 2-1/4" (57.1 mm) long rolls will accommodate tube sheet thicknesses of 1/2" to 4" (12.7 mm to 101.6 mm)



NOTE: Step expanding becomes necessary if the tube sheet thickness exceeds the length of the roll. Specify "S" Type rolls for step rolling applications.

Sizes not listed available upon request.

Tube O.D.		Tube Gauge		Tube I.D.		Tube Sheet Thickness		Min. I.D. Tool Enters		Max. Expan. of Tool		Mandrel Number (Order No.) 3/4 in. Sq. Dr. (19.0 mm)	Recommended Rolling Motors (Order No.)		
						1/2 in. to 4 in. (12.7 mm to 101.6 mm)							Airetool	Electric	
in.	mm	bwg	in.	mm	in.	mm	Tool No. (Order No.)	Roll Set No. (Order No.)	in.	mm	in.	mm			
1-3/4	44.4	8	0.165	4.19	1.420	36.06	8012-1-3/4-8 (5518639)	R-33-A (5297100)	1.368	34.74	1.550	39.37	M-90 (2541900)	1550-250 (8404280)	979-C-210/ ATC-900
		10	0.134	3.40	1.482	37.64	8012-1-3/4-10 (5139000)	R-37-A (5298700)	1.420	36.06	1.607	40.81			
		11	0.120	3.04	1.510	38.35	8012-1-3/4-11 (5139100)	R-42 (5299400)	1.454	36.93	1.635	41.52			
		12	0.109	2.76	1.532	38.91	8012-1-3/4-12 (5139200)	R-44 (5299500)	1.482	37.64	1.657	42.08			
		13	0.095	2.41	1.560	39.62	8012-1-3/4-13 (5139300)	R-46 (5299600)	1.510	38.35	1.685	42.79			
		14	0.083	2.10	1.584	40.23	8012-1-3/4-14 (5139400)	R-48 (5299700)	1.532	38.91	1.709	43.40			
2	50.8	8	0.165	4.19	1.670	42.41	8012-2-8 (5518643)	R-48 (5299700)	1.595	40.51	1.795	45.59	M-91 (2542200)	1550-250 (8404280)	979-C-210/ ATC-900
		10	0.134	3.40	1.732	43.99	8012-2-10 (5139500)	R-50 (5299800)	1.640	41.65	1.857	47.16			
		11	0.120	3.04	1.760	44.70	8012-2-11 (5139600)	R-52 (5299900)	1.670	42.41	1.885	47.87			
		12	0.109	2.76	1.782	45.26	8012-2-12 (5139700)	R-54 (5300000)	1.704	43.28	1.907	48.43			
		13	0.095	2.41	1.810	45.97	8012-2-13-18 (5139800)	R-56 (5300100)	1.732	43.99	1.956	49.68			
		14	0.083	2.10	1.834	46.58									
		15	0.072	1.82	1.856	47.14									
		16	0.065	1.65	1.870	47.49									
		17	0.058	1.47	1.884	47.85									
18	0.049	1.24	1.902	48.31											
2-1/4	57.1	10	0.134	3.40	1.982	50.34	8012-2-1/4-10 (5140100)	R-56 (5300100)	1.890	48.00	2.107	53.51	M-92 (2542300)	1550-250 (8404280)	999-C-45/ ATC-900
		11	0.120	3.04	2.010	51.05	8012-2-1/4-11 (5140200)	R-58 (5300200)	1.920	48.76	2.135	54.22			
		12	0.109	2.76	2.032	51.61	8012-2-1/4-12 (5140300)	R-60 (5300300)	1.954	49.63	2.157	54.78			
		13	0.095	2.41	2.060	52.32	8012-2-1/4-13-16 (5140400)	R-62 (5300400)	1.982	50.34	2.185	55.49			
		14	0.083	2.10	2.084	52.93									
		15	0.072	1.82	2.106	53.49									
16	0.065	1.65	2.120	53.84											

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G-8012 Series Heat Exchanger & Condenser Tube Expanders (cont.)

Tube O.D.		Tube Gauge			Tube I.D.		Tube Sheet Thickness		Min. I.D. Tool Enters		Max. Expan. of Tool		Mandrel Number (Order No.) 3/4 in. Sq. Dr. (19.0 mm)	Recommended Rolling Motors (Order No.)	
							1/2 in. to 4 in. (12.7 mm to 101.6 mm)							Tool No. (Order No.)	Roll Set No. (Order No.)
in.	mm	bwg	in.	mm	in.	mm									
2-1/2	63.5	10	0.134	3.40	2.232	56.69	8012-2-1/2-10-12 (5139900)	R-64 (5300500)	2.140	54.35	2.407	61.13	M-93 (2542400)	1550-250 (8404280)	999-C-45/ ATC-900
		11	0.120	3.04	2.260	57.40									
		12	0.109	2.76	2.282	57.96									
		13	0.095	2.41	2.310	58.67	8012-2-1/2-13-18 (5140000)	R-64 (5300500)	2.232	56.69	2.450	62.23	M-94 (2542500)		
		14	0.083	2.10	2.334	59.28									
		15	0.072	1.82	2.356	59.84									
		16	0.065	1.65	2.370	60.19									
		17	0.058	1.47	2.384	60.55									
		18	0.049	1.24	2.402	61.01									
2-3/4	69.8	10	0.134	3.40	2.482	63.04	8012-2-3/4-10-16 (5140500)	R-66 (5300700)	2.390	60.70	2.702	68.63	M-96 (2542700)	1850-90 (8405315)	999-C-45/ ATC-900
		11	0.120	3.04	2.510	63.75									
		12	0.109	2.76	2.532	64.31									
		13	0.095	2.41	2.560	65.02									
		14	0.083	2.10	2.584	65.63									
		15	0.072	1.82	2.606	66.19									
		16	0.065	1.65	2.620	66.54									
3	76.2	8	0.165	4.19	2.670	67.81	8012-3-8-9 (5512193)	R-67 (5300800)	2.560	65.02	2.829	71.85	M-97 (2968867)	1850-90 (8405315)	999-C-45/ ATC-900
		9	0.148	3.75	2.704	68.68									
		10	0.134	3.40	2.732	69.39	8012-3-10-18 (5140600)	R-67 (5300800)	2.640	67.05	2.952	74.98	M-96 (25)		
		11	0.120	3.04	2.760	70.10									
		12	0.109	2.76	2.782	70.66									
		13	0.095	2.41	2.810	71.37									
		14	0.083	2.10	2.834	71.98									
		15	0.072	1.82	2.856	75.54									
		16	0.065	1.65	2.870	72.89									
			0.058	1.47	2.884	73.25									
		18	0.049	1.24	2.902	73.71									