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## Heat Exchanger Tube Expanders and Accessories



Tools for the maintenance and repair of...

**CONDENSERS**

**CHILLERS**

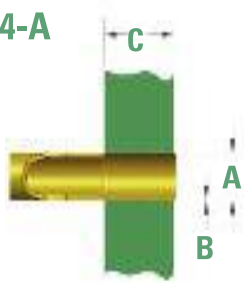
**ABSORBERS**

**COOLERS**

**EVAPORATORS**

# 3-Roll Condenser Expanders - 1/4 - 3 1/2-Inch Tubesheets

## Series 41-A, 44-A



**A** = 1/4 (6.4mm) to 3/8-Inch (9.5mm) Tube Outer Diameter

**B** = 18 (1.2mm) to 28 (.4mm) Gauge

**C** = 41-A - 1/4 (6.4mm) to 1-Inch (25.4mm)  
44-A - 1 (25.4mm) to 3 1/2-Inch (89.0mm)

The Model 41-A and 44-A expanders were primarily designed for very small tubes as generally found on lubricating oil coolers and heat exchangers of similar characteristics. It features an adjustable ball bearing collar to meet the requirements of various thicknesses of tubesheets. The assembly comes complete with mandrel, rolls, cage, and collar with a flush (for 1/4-inch size) or 1/16-inch recess (for 3/8-inch size).

**NOTE:** On selection of expanders, wall thickness of tubes run either nominally or minimum wall.



Tube		41-A Expander 1/4-1-Inch Reach			44-A Expander 1-3 1/2-Inch Reach			1-Inch (25.4) Roll Length Common Roll Set - Part No.		
OD	GA	Range		Assembly Part No.	Mandrel Part No.	Cage Part No.	Assembly Part No.	Mandrel Part No.	Cage Part No.	
Inches (mm)		Inches	(mm)							
1/4 (6.4)	18	.147-.174	(3.7-4.4)	34339		34348	-	-	-	34375
	19	.159-.186	(4.0-4.7)	34388	34380	34389	-	-	-	34390
	20	.175-.202	(4.4-5.1)	34338		34347	-	-	-	
	21	.180-.207	(4.6-5.3)	34385	34387	34386	-	-	-	34374
	22	.189-.216	(4.8-5.5)	34337		34346	-	-	-	
	23	.195-.222	(5.0-5.6)	34408		34413	-	-	-	34417
	24	.201-.228	(5.1-5.8)	34336	34379	34345	-	-	-	34373
	26	.209-.236	(5.3-6.0)	34407		34412	-	-	-	34416
3/8 (9.5)	28	.216-.244	(5.5-6.2)	34391		34400	-	-	-	34399
	15	.225-.266	(5.7-6.8)	34418	34378	34419	33955	33954	33965	34373
	16	.237-.278	(6.0-7.1)	34335		34344	33956		33966	34372
	17	.253-.294	(6.4-7.5)	34406		34411	33957		33967	34399
	18	.269-.310	(6.8-7.9)	34334	34377	34343	33958	33953	33968	34371
	19	.283-.324	(7.2-8.2)	34405		34410	33959		33969	34415
	20	.297-.338	(7.5-8.6)	34333		34342	33960		33970	
	21	.303-.344	(7.7-8.7)	34365	34366	34367	33961	33949	33971	34370
22	.311-.352	(7.9-8.9)	34332		34341	33962		33972		
23	.317-.358	(8.1-9.1)	34404	34376	34409	33963	33952	33973	34414	
24	.323-.364	(8.2-9.2)	34331		34340	33964		33974	34369	

### TUBE WALL THICKNESS OF WALL IN BIRMINGHAM WIRE GAUGE

GA	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6
Inch	.014	.016	.018	.020	.022	.025	.028	.032	.035	.042	.049	.058	.065	.072	.083	.095	.109	.120	.134	.148	.165	.180	.203
mm	.4	.4	.5	.5	.6	.6	.7	.8	.9	1.1	1.2	1.5	1.7	1.8	2.1	2.4	2.8	3.0	3.4	3.8	4.2	4.6	5.2