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## Heat Exchanger Tube Expanders and Accessories



Tools for the maintenance and repair of...

**CONDENSERS**

**CHILLERS**

**ABSORBERS**

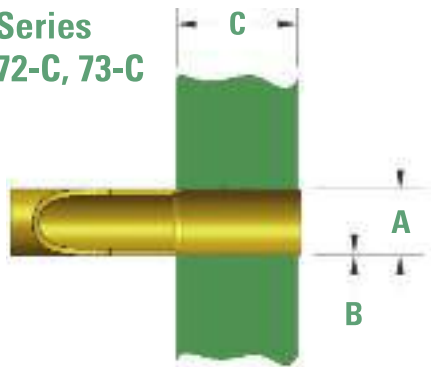
**COOLERS**

**EVAPORATORS**

**Thomas C. Wilson, LLC**  
www.tcwilson.com

## 4- & 5-Roll Condenser Expanders - 1/2 - 6 1/4-Inch Tubesheets

Series  
72-C, 73-C



**A** = 1/2 (12.7mm) to 1 1/2-Inch (38.1mm) Tube Outer Diameter

**B** = 13 (2.4mm) to 25 (.5mm) Gauge

**C** = 72-C - 1/2 (12.7mm) to 1 1/2-Inch (38.1mm) Tubesheet

73-C - 3/4 (19.1mm) to 5 1/2-Inch (139.7mm) Tubesheet

These expanders are used on light Gauge tubes of stainless steel, titanium, and materials of similar hardness.

5-Rolls with light wall tubes can prevent triangulation of the tube to the tube hole. Wilson Thin Gauge Collars also offer a large advantage for projection of tube.



Tube				72-C Expander 1/2-1 1/2-Inch Reach			73-C Expander 3/4-5 1/2-Inch Reach			1 1/2-Inch (38.1) Roll Length Common Roll Set - Part No.		
OD Inches (mm)	Wall GA	Range Inches (mm)		Assembly Part No.	Mandrel Part No.	Cage Part No.	Assembly Part No.	Mandrel Part No.	Cage Part No.			
1/2 (12.7)	18-19	.387-.449	(9.8-11.4)	41552	41879	41511	-	-	-	33361-4		
	20-25	.425-.480	(10.5-12.2)	41553	41880	41512	-	-	-			
5/8 (15.9)	18-19	.515-.570	(13.1-14.5)	41554	41881	41513	41936	42064	42000	33362-4		
	20-25	.537-.596	(13.6-15.1)	41555		41514	41937		42001			
3/4 (19.1)	13-14	.537-.596	(13.6-15.1)	41556	41882	41515	41938	42066	42002	33363-5		
	16-17	.605-.676	(15.2-17.2)	41557			41939		42003			
	18-19	.635-.715	(16.1-18.2)	41558			41833		41516		41939	42003
	20-25	.665-.750	(16.9-19.1)	41559			41884		41517		41940	42067
7/8 (22.2)	16-17	.717-.795	(18.2-20.2)	41560	41884	41518	41941	42069	42005	33365-5		
	18-19	.758-.859	(19.3-21.9)	41561			41519		41942		42006	
	20-25	.790-.885	(20.1-22.5)	41562			41885		41943		42007	
1 (25.4)	13-15	.790-.885	(20.1-22.5)	41563	41886	41521	42332	42070	42008	33366-5		
	16-17	.850-.922	(21.6-23.4)	41564			41944		42009			
	18-19	.885-.950	(22.5-24.1)	41565			41887		41522		41945	42009
	20-25	.915-1.015	(23.2-25.8)	41566			41888		41523		42303	42071
1 1/8 (28.6)	18-19	1.010-1.075	(25.7-27.3)	41567	41888	41524	41946	42072	42010	33369-5		
	20-25	1.040-1.125	(26.4-28.6)	41568			41889		41528		41947	42011
1 1/4 (31.8)	18-19	1.135-1.200	(28.8-30.5)	41569	41890	41530	41948	42073	42012	33370-5		
	20-25	1.165-1.250	(29.6-31.8)	41570			41891		41532		41949	42013
1 1/2 (38.1)	18-19	1.385-1.450	(35.2-36.8)	41571	41892	41533	41950	42074	42014	33372-5		
	20-25	1.415-1.500	(35.9-38.1)	41572			42297		41534		41951	42075

### Thin Gauge Collar

Thin Gauge Collar assembly supplied on all 5-Roll, Series 72 and 73, 20-23 Gauge Expanders. Recess adjustable by use of space washers. Unique design maintains tube end contact throughout expansion.



### 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