



DIMENSIONS SHOWN AS: inches (mm)

EXCHANGER SIZE *-BAFFLE SPACING	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS3T-85-2*-E4	85 1/4	2165	60 1/4	1530	48 5/8	1235	62	1574	4	102	1	25
WS3T-86-2*-E4	97 1/4	2470	72 1/4	1835	60 5/8	1540	74	1880	4	102	1 1/4	32
WS3T-87-2*-E4	109 1/4	2775	84 1/4	2140	72 5/8	1845	86	2184	4	102	1 1/4	32
WS3T-88-2*-E4	121 1/4	3080	96 1/4	2445	84 5/8	2149	98	2489	6	152	1 1/4	32
WS3T-89-2*-E4	133 1/4	3385	108 1/4	2750	96 5/8	2454	110	2794	6	152	1 1/4	32
WS3T-810-2*-E4	145 1/4	3689	120 1/4	3054	108 5/8	2759	122	3099	6	152	1 1/4	32
WS3T-811-2*-E4	157 1/4	3994	132 1/4	3359	120 5/8	3064	134	3404	6	152	1 1/4	32
WS3T-812-2*-E4	169 1/4	4299	144 1/4	3664	132 5/8	3369	146	3708	6	152	1 1/4	32
WS3T-813-2*-E4	181 1/4	4604	156 1/4	3969	144 5/8	3673	158	4013	6	152	1 1/4	32
WS3T-814-2*-E4	193 1/4	4909	168 1/4	4274	156 5/8	3978	170	4318	6	152	1 1/4	32

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	(N1)	AS PER TABLE	(N5)	3 (76) 300# FLG.
OUTLET	(N2)	AS PER TABLE	(N6)	3 (76) 300# FLG.
VENT	(N4)	3/4 (19) NPT		

NOTES: 1. SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.
 2. NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAX. EXCHANGER LIFE, NO EXTERNAL FORCES APPLY.
 3. FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA.
 4. DRAWING IS NOT TO SCALE.
 5. ALL DIMN'S ±1/8 (3) UNLESS OTHERWISE SHOWN.

DESIGN CONDITIONS				
	SHELL		TUBES	
DESIGN PRESSURE	150 PSIG	1034 KPa	300 PSIG	2068 KPa
DESIGN TEMPERATURE	375 °F	191 °C	375 °F	191 °C
MIN. DESIGN METAL TEMP.	35 °F	1.7 °C	35 °F	1.7 °C
HYDRO. TEST PRESSURE	225 PSIG	1551 KPa	450 PSIG	3102 KPa
CONTENTS	STEAM		WATER	

CUSTOMER:
 LOCATION:
 ENGINEER:
 ORDER No.:
 PROJECT/JOB:
 LOCATION:
 TAG: (QUOTE #)

TITLE	G.A. 300 LB. WS SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER	WS3T-8-2P-E4(6)	REV.			
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