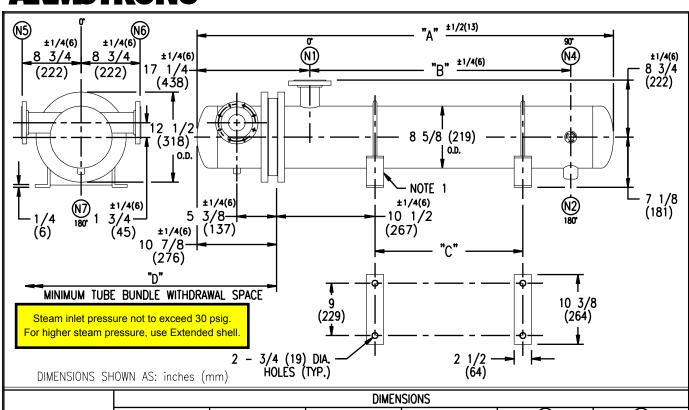
## **ARMSTRONG®**



	DIMENSIONS											
EXCHANGER SIZE	A		В		С		D		N)		(12)	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-85-4-4	72	1829	49	1245	40 3/4	1035	62	1575	4	102	1	25
WS-86-4-4	84	2134	61	1549	52 3/4	1340	74	1880	4	102	1 1/4	32
WS-87-4-4	96	2438	73	1854	64 3/4	1645	86	2184	4	102	1 1/4	32
WS-88-4-4	108	2743	85	2159	76 3/4	1949	98	2489	6	152	1 1/4	32
WS-89-4-4	120	3048	97	2464	88 3/4	2254	110	2794	6	152	1 1/4	32
WS-810-4-4	132	3353	109	2769	100 3/4	2559	122	3099	6	152	1 1/4	32
WS-811-4-4	144	3658	121	3073	112 3/4	2864	134	3404	6	152	1 1/4	32
WS-812-4-4	156	3962	133	3378	124 3/4	3169	146	3708	6	152	1 1/4	32
WS-813-4-4	168	4267	145	3683	136 3/4	3473	158	4013	6	152	1 1/4	32
WS-814-4-4	180	4572	157	3988	148 3/4	3778	170	4318	6	152	1 1/4	32
											·	
									·			

NOZZLE SCHEDULE						
SERVICE	MARK	SHELL SIDE	MARK	Tube Side		
INLET	(N)	as per table	N5	2 (51) FLG		
OUTLET	(2)	as per table	166	2 (51) FLG		
DRAIN			(V)	1/2 (13) NPT		
VENT	(N4)	3/4 (19) NPT				

12 / 01 / 94

DATE:

NOTES: 1, SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.

- 2. NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAXIMUM EXCHANGER LIFE.
- 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.

DES	SIGN CONDITIONS		CUSTOMER:			
	SHELL	TUBES	LOCATION;			
DESIGN PRESSURE	150 PSIG 1034 KPa	150 PSIG 1034 KPa	ENGINEER;			
DESIGN TEMPERATURE	375 °F 191 °C	375 °F 191 °C	ORDER No.:			
MIN. DESIGN METAL TEMP.	35 °F 1,7 °C	35 °F 1.7 °C	PROJECT/JOB:			
HYDRO, TEST PRESSURE	225 PSIG 1551 KPa	225 PSIG 1551 KPa	LOCATION;			
CONTENTS	STEAM	WATER	TAG;	(QUOTE #		
TITLE G.A. 150 LB. WS SE	eries <b>a F</b>	R M S T	R O N G	NUMBER REV,		
HEAT EXCHANGER	S TORONTO - CANAL	IA MONTREAL – CANADA	BUFFALO - N. Y. COLCHESTER - U.K.	WS-8-4P-4-(6)		

BY: D.C.R. | TEL : (416) 755-2291 | TEL : (514) 421-2424 | TEL: (716) 693-8813 | TEL: (44) 120-657-9491