



EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-85-2-3	64	1626	49	1245	40 3/4	1035	62	1575	4	102	1	25
WS-86-2-3	76	1930	61	1549	52 3/4	1340	74	1880	4	102	1 1/4	32
WS-87-2-3	88	2235	73	1854	64 3/4	1645	86	2184	4	102	1 1/4	32
WS-88-2-3	100	2540	85	2159	76 3/4	1949	98	2489	6	152	1 1/4	32
WS-89-2-3	112	2845	97	2464	88 3/4	2254	110	2794	6	152	1 1/4	32
WS-810-2-3	124	3150	109	2769	100 3/4	2559	122	3099	6	152	1 1/4	32
WS-811-2-3	136	3454	121	3073	112 3/4	2864	134	3404	6	152	1 1/4	32
WS-812-2-3	148	3759	133	3378	124 3/4	3169	146	3708	6	152	1 1/4	32
WS-813-2-3	160	4064	145	3683	136 3/4	3473	158	4013	6	152	1 1/4	32
WS-814-2-3	172	4369	157	3988	148 3/4	3778	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) NPT
OUTLET	N2	AS PER TABLE	N6	3 (76) NPT
VENT	N4	3/4 (19) NPT		

NOTES: 1. SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.  
 2. NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAXIMUM EXCHANGER LIFE.  
 3. FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA.  
 4. DRAWING IS NOT TO SCALE.  
 5. ALL DIM'S ±1/8 (3) UNLESS OTHERWISE SHOWN.

DESIGN CONDITIONS				
	SHELL		TUBES	
DESIGN PRESSURE	150 PSIG	1034 KPa	150 PSIG	1034 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	225 PSIG	1551 KPa
CONTENTS	STEAM		WATER	

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

TITLE G.A. 150 LB. WS SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER WS-8-2P-3-(6)	REV.
DATE: 12 / 01 / 94 BY: D.C.R.	TORONTO - CANADA TEL : (416) 755-2291	MONTREAL - CANADA TEL : (514) 421-2424	BUFFALO - N. Y. TEL: (716) 693-8813	COLCHESTER - U.K. TEL: (44) 120-657-9491		