



EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-85-2-1	65 1/8	1654	49	1245	40 3/4	1035	62	1575	4	102	1	25
WS-86-2-1	77 1/8	1959	61	1549	52 3/4	1340	74	1880	4	102	1 1/4	32
WS-87-2-1	89 1/8	2264	73	1854	64 3/4	1645	86	2184	4	102	1 1/4	32
WS-88-2-1	101 1/8	2569	85	2159	76 3/4	1949	98	2489	6	152	1 1/4	32
WS-89-2-1	113 1/8	2873	97	2464	88 3/4	2254	110	2794	6	152	1 1/4	32
WS-810-2-1	125 1/8	3178	109	2769	100 3/4	2559	122	3099	6	152	1 1/4	32
WS-811-2-1	137 1/8	3483	121	3073	112 3/4	2864	134	3404	6	152	1 1/4	32
WS-812-2-1	149 1/8	3788	133	3378	124 3/4	3169	146	3708	6	152	1 1/4	32
WS-813-2-1	161 1/8	4093	145	3683	136 3/4	3473	158	4013	6	152	1 1/4	32
WS-814-2-1	173 1/8	4397	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	300 PSIG	2068 KPa	
CONTENTS	STEAM		WATER		

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

TITLE	A R M S T R O N G				NUMBER	REV.
G.A. 150 LB. WS SERIES HEAT EXCHANGERS	TORONTO - CANADA	MONTREAL - CANADA	BUFFALO - N. Y.	COLCHESTER - U.K.	WS-8-2P-1-(6)	
DATE: 12 / 01 / 94	BY: D.C.R.	TEL : (416) 755-2291	TEL : (514) 421-2424	TEL: (716) 693-8813	TEL: (44) 120-657-9491	