



EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		(N1)		(N2)	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-123-4-1	42 3/4	1086	22 3/4	578	12 1/2	318	38	965	6	152	2	51
WS-124-4-1	54 3/4	1391	34 3/4	883	24 1/2	622	50	1270	6	152	2	51
WS-125-4-1	66 3/4	1695	46 3/4	1187	36 1/2	927	62	1575	6	152	2	51
WS-126-4-1	78 3/4	2000	58 3/4	1492	48 1/2	1232	74	1880	6	152	2	51
WS-127-4-1	90 3/4	2305	70 3/4	1797	60 1/2	1537	86	2184	8	203	2 1/2	64
WS-128-4-1	102 3/4	2610	82 3/4	2102	72 1/2	1842	98	2489	8	203	2 1/2	64
WS-129-4-1	114 3/4	2915	94 3/4	2407	84 1/2	2146	110	2794	8	203	2 1/2	64
WS-1210-4-1	126 3/4	3219	106 3/4	2711	96 1/2	2451	122	3099	8	203	2 1/2	64
WS-1211-4-1	138 3/4	3524	118 3/4	3016	108 1/2	2756	134	3404	8	203	2 1/2	64
WS-1212-4-1	150 3/4	3829	130 3/4	3321	120 1/2	3061	146	3708	8	203	2 1/2	64
WS-1213-4-1	162 3/4	4134	142 3/4	3626	132 1/2	3366	158	4013	8	203	2 1/2	64
WS-1214-4-1	174 3/4	4439	154 3/4	3931	144 1/2	3670	170	4318	8	203	2 1/2	64
WS-1215-4-1	186 3/4	4743	166 3/4	4235	156 1/2	3975	182	4623	8	203	2 1/2	64

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	(N1)	AS PER TABLE	(N5)	4 (102) NPT
OUTLET	(N2)	AS PER TABLE	(N6)	4 (102) NPT
DRAIN	(N3)	1/2 (13) NPT	(N7)	1/2 (13) 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	125 PSIG	862 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	250 PSIG	1723 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-12-4P-1	
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	