



EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-85-2E1	76 1/2	1943	60 1/2	1537	51	1295	62	1575	4	102	1	25
WS-86-2E1	88 1/2	2248	72 1/2	1842	63	1600	74	1880	4	102	1 1/4	32
WS-87-2E1	100 1/2	2553	84 1/2	2146	75	1905	86	2184	4	102	1 1/4	32
WS-88-2E1	112 1/2	2858	96 1/2	2451	87	2210	98	2489	6	152	1 1/4	32
WS-89-2E1	124 1/2	3162	108 1/2	2756	99	2515	110	2794	6	152	1 1/4	32
WS-810-2E1	136 1/2	3467	120 1/2	3061	111	2819	122	3099	6	152	1 1/4	32
WS-811-2E1	148 1/2	3772	132 1/2	3366	123	3124	134	3404	6	152	1 1/4	32
WS-812-2E1	160 1/2	4077	144 1/2	3670	135	3429	146	3708	6	152	1 1/4	32
WS-813-2E1	172 1/2	4382	156 1/2	3975	147	3734	158	4013	6	152	1 1/4	32
WS-814-2E1	184 1/2	4686	168 1/2	4280	159	4039	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 DIMN'S $\pm 1/8$ (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	G.A. 150 LB. WS SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER	WS-8-2P-E1-(6)	REV.	
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		