



EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		(N1)		(N2)	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-102-2E2	48 1/8	1222	24 1/2	622	15 1/4	387	26	660	4	102	1 1/2	38
WS-103-2E2	60 1/8	1527	36 1/2	927	27 1/4	692	38	965	4	102	1 1/2	38
WS-104-2E2	72 1/8	1832	48 1/2	1232	39 1/4	997	50	1270	6	152	2	51
WS-105-2E2	84 1/8	2137	60 1/2	1537	51 1/4	1302	62	1575	6	152	2	51
WS-106-2E2	96 1/8	2442	72 1/2	1842	63 1/4	1607	74	1880	6	152	2	51
WS-107-2E2	108 1/8	2746	84 1/2	2146	75 1/4	1911	86	2184	6	152	2	51
WS-108-2E2	120 1/8	3051	96 1/2	2451	87 1/4	2216	98	2489	6	152	2	51
WS-109-2E2	132 1/8	3356	108 1/2	2756	99 1/4	2521	110	2794	6	152	2	51
WS-1010-2E2	144 1/8	3661	120 1/2	3061	111 1/4	2826	122	3099	6	152	2	51
WS-1011-2E2	156 1/8	3966	132 1/2	3366	123 1/4	3131	134	3404	6	152	2	51
WS-1012-2E2	168 1/8	4270	144 1/2	3670	135 1/4	3435	146	3708	6	152	2	51
WS-1013-2E2	180 1/8	4575	156 1/2	3975	147 1/4	3740	158	4013	6	152	2	51
WS-1014-2E2	192 1/8	4880	168 1/2	4280	159 1/4	4045	170	4318	6	152	2	51

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	(N1)	AS PER TABLE	(N5)	4 (102) FLG
OUTLET	(N2)	AS PER TABLE	(N6)	4 (102) FLG
DRAIN	(N3)	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 DIMN'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	G.A. 150 LB. WS SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER	WS-10-2P-E2	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