



EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		(N1)		(N2)	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-102-2-1	30 1/8	765	12 1/2	318	4 1/2	114	26	660	4	102	1 1/2	38
WS-103-2-1	42 1/8	1070	24 1/2	622	16 1/2	419	38	965	4	102	1 1/2	38
WS-104-2-1	54 1/8	1375	36 1/2	927	28 1/2	724	50	1270	6	152	2	51
WS-105-2-1	66 1/8	1680	48 1/2	1232	40 1/2	1029	62	1575	6	152	2	51
WS-106-2-1	78 1/8	1984	60 1/2	1537	52 1/2	1334	74	1880	6	152	2	51
WS-107-2-1	90 1/8	2289	72 1/2	1842	64 1/2	1638	86	2184	6	152	2	51
WS-108-2-1	102 1/8	2594	84 1/2	2146	76 1/2	1943	98	2489	6	152	2	51
WS-109-2-1	114 1/8	2899	96 1/2	2451	88 1/2	2248	110	2794	6	152	2	51
WS-1010-2-1	126 1/8	3204	108 1/2	2756	100 1/2	2553	122	3099	6	152	2	51
WS-1011-2-1	138 1/8	3508	120 1/2	3061	112 1/2	2858	134	3404	6	152	2	51
WS-1012-2-1	150 1/8	3813	132 1/2	3366	124 1/2	3162	146	3708	6	152	2	51
WS-1013-2-1	162 1/8	4118	144 1/2	3670	136 1/2	3467	158	4013	6	152	2	51
WS-1014-2-1	174 1/8	4423	156 1/2	3975	148 1/2	3772	170	4318	6	152	2	51
WS-1015-2-1	186 1/8	4728	168 1/2	4280	160 1/2	4077	182	4623	6	152	2	51

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		
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	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-10-2P-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		