



EXCHANGER SIZE *—BAFFLE SPACING	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS3H-42-4*-4	33 7/8	860	15 3/4	400	9 1/2	241	26	660	2	51	1	25
WS3H-43-4*-4	45 7/8	1165	27 3/4	705	21 1/2	546	38	965	2	51	1	25
WS3H-44-4*-4	57 7/8	1470	39 3/4	1010	33 1/2	851	50	1270	2	51	1	25
WS3H-45-4*-4	69 7/8	2283	51 3/4	1314	45 1/2	1156	62	1575	2 1/2	64	1 1/4	32
WS3H-46-4*-4	81 7/8	2080	63 3/4	1619	57 1/2	1461	74	1879	2 1/2	64	1 1/4	32
WS3H-47-4*-4	93 7/8	2384	75 3/4	1924	69 1/2	1765	86	2184	2 1/2	64	1 1/4	32
WS3H-48-4*-4	105 7/8	2689	87 3/4	2229	81 1/2	2070	98	2489	2 1/2	64	1 1/4	32
WS3H-49-4*-4	117 7/8	2994	99 3/4	2534	93 1/2	2375	110	2794	2 1/2	64	1 1/4	32
WS3H-410-4*-4	129 7/8	3299	111 3/4	2838	105 1/2	2680	122	3099	2 1/2	64	1 1/4	32

NOZZLE SCHEDULE					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.
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE	
INLET	N1	AS PER TABLE	N5	1 (25) 300# FLG.	
OUTLET	N2	AS PER TABLE	N6	1 (25) 300# FLG.	
DRAIN			N7	1/2 (13) NPT	
VENT	N4	3/4 (19) NPT			

DESIGN CONDITIONS				
	SHELL		TUBES	
DESIGN PRESSURE	300 PSIG	2068 KPa	300 PSIG	2068 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	450 PSIG	3102 KPa	450 PSIG	3102 KPa
CONTENTS	STEAM		WATER	

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

TITLE	G.A. 300 LB. WS SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER	WS3H-4-4P-4	REV.	
DATE:	11 / 15 / 00	BY:	J.R.	TEL: (416) 755-2291	TEL: (514) 421-2424	TEL: (716) 693-8813	TEL: (44) 120-657-9491		