

WS SERIES | WS-4-2P-E1 | HEAT EXCHANGERS | SUBMITTAL DRAWING

File No: WS-4-2P-E1
Date: AUGUST 12, 2014
Supersedes: NEW
Date: NEW

Job: _____ Representative: _____

Order No: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

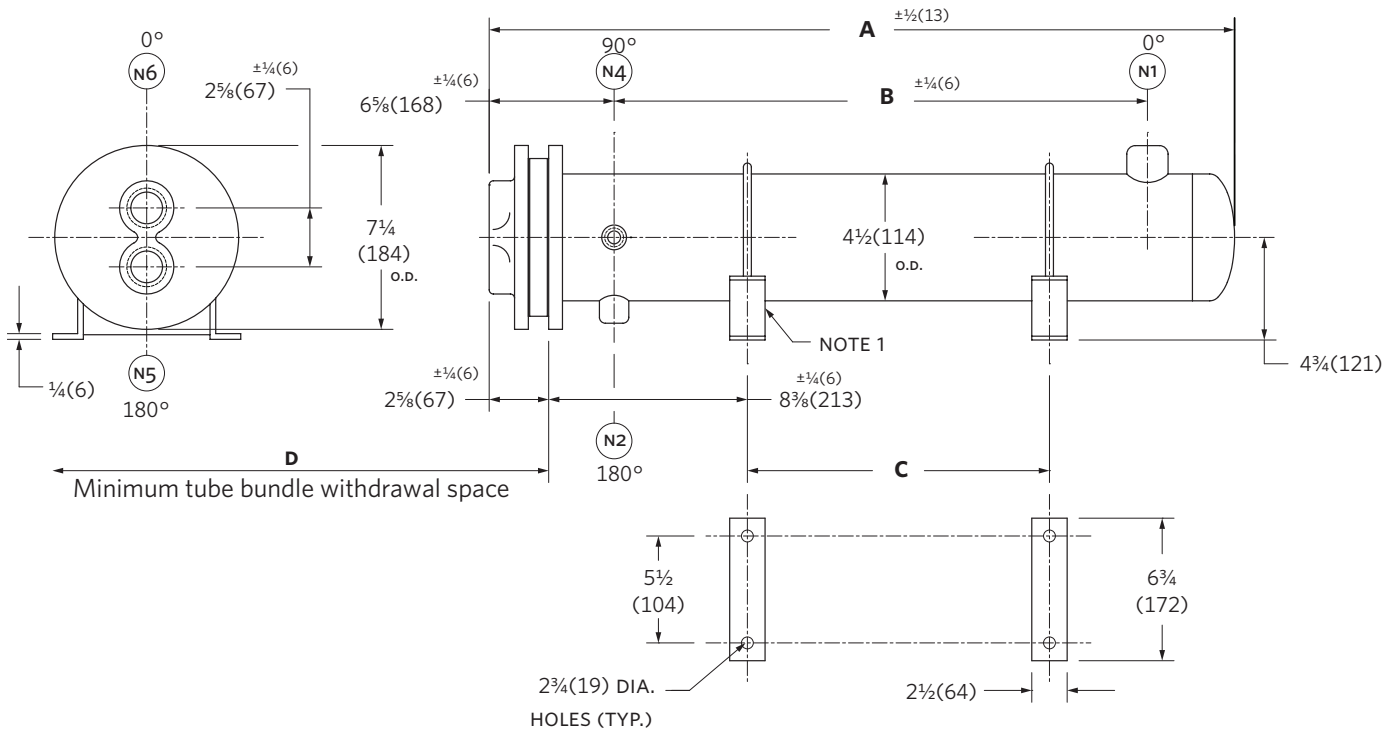
EXCHANGER SIZE	DIMENSIONS in inches (mm)					
	A	B	C	D	N1	N2
WS-42-2E1	35.62 (905)	23.25 (591)	16.00 (406)	26.00 (660)	2.00 (51)	1.00 (25)
WS-43-2E1	47.62 (1210)	35.25 (895)	28.00 (711)	38.00 (965)	2.00 (51)	1.00 (25)
WS-44-2E1	59.62 (1514)	47.25 (1200)	40.00 (1016)	50.00 (1270)	2.00 (51)	1.00 (25)
WS-45-2E1	71.62 (1819)	59.25 (1505)	52.00 (1321)	62.00 (1575)	2.50 (64)	1.25 (32)
WS-46-2E1	83.62 (2124)	71.25 (1810)	64.00 (1626)	74.00 (1880)	2.50 (64)	1.25 (32)
WS-47-2E1	95.62 (2429)	83.25 (2115)	76.00 (1930)	86.00 (2184)	2.50 (64)	1.25 (32)
WS-48-2E1	107.62 (2734)	95.25 (2419)	88.00 (2235)	98.00 (2489)	2.50 (64)	1.25 (32)
WS-49-2E1	119.62 (3038)	107.25 (2724)	100.00 (2540)	110.00 (2794)	2.50 (64)	1.25 (32)
WS-410-2E1	131.62 (3343)	119.25 (3029)	112.00 (2845)	122.00 (3099)	2.50 (64)	1.25 (32)
WS-411-2E1	143.62 (3648)	131.25 (3334)	124.00 (3150)	134.00 (3404)	2.50 (64)	1.25 (32)
WS-412-2E1	155.62 (3953)	143.25 (3639)	136.00 (3454)	146.00 (3708)	2.50 (64)	1.25 (32)

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
Inlet	(N1)	As per table	(N5)	1¼(32)NPT
Outlet	(N2)	As per table	(N6)	1¼(32)NPT
Vent	(N4)	¾(19)NPT		

DESIGN CONDITIONS				
Contents	SHELL		TUBES	
	Steam	Water	Steam	Water
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

NOTES:

- 1 Supports supplied only if specified on order.
- 2 Nozzle sizes shown are recommended for maximum exchanger life, no external forces apply.
- 3 Fabricated to ASME code section VIII division 1 and latest addenda.
- 4 Drawing is not to scale.
- 5 All dimn's ± $\frac{1}{8}$ (3) unless otherwise shown.



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