

MEDIUM, HEAVY & FUEL OIL APPLICATIONS

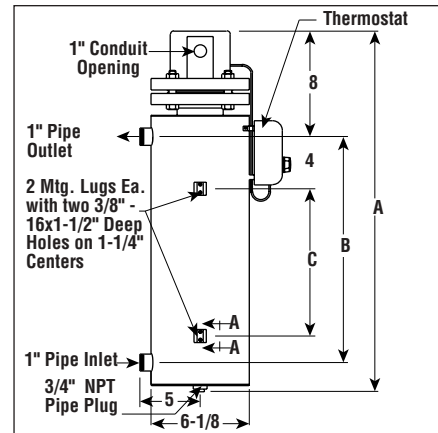


NWHOR & NWHORB Series

- ✓ 3 - 14" ANSI Blind Flange Design
- ✓ 3 - 14" Carbon Steel Pipe Body, 150 Lb Construction
- ✓ 3 - 120 kW
- ✓ 240 and 480V, 1 & 3 Phase
- ✓ General Purpose, Moisture Resistant/Explosion Resistant, Explosion Resistant or Moisture Resistant Terminal Enclosure
- ✓ 0.475" Dia. Steel Sheath Low Watt Density Elements (12 - 15 W/In²)
- ✓ With & Without Side Mounted AR Thermostat (60 - 250°F)
- ✓ UL, CSA and Other Third Party Approval, Listing or Certification Available



Dimensions (Inches)
NWHOR-03



Note — Add 2" to A dimension for E2 Enclosure.

APPLICATIONS

Medium and Heavy Weight Oil: Low watt density reduces the risk of damaging highly viscous fluids. Improve flow ability of fuel oils.

FEATURES

Terminal Enclosure: E1 General Purpose is standard. E2 Moisture Resistant/Explosion Resistant, E3 Explosion Resistant or E4 Moisture Resistant Enclosures available.

Elements: 0.475" diameter steel sheath elements.

Flange: 3 - 14" ANSI B-16.5 Blind flange with 1/2" thermowell for thermostat bulb and a 1/8" NPT threaded opening for a thermocouple or RTD.

Vessel: Pipe body and nozzles are ASTM A53B carbon steel pipe. The end disk is ASTM A516 Grade 70 carbon steel plate. Provided with thermal insulation and painted sheet metal jacket.

Wiring: Convenient field wiring

terminals are provided for easy installation.

Controls: Series 03 and 06 stock and assembly stock heaters come equipped with side mounted thermostat. Series 18, 27 and 45 are furnished without thermostat.

WARNING: Hazard of Fire. These devices function as temperature controls only. Because they do not fail-safe, an approved temperature and/or pressure safety control must be used for safe operation. Consult Controls section of this catalog.

To Order (Specify Model Number)

MOST POPULAR ITEMS HIGHLIGHTED

kW	Volts	Ckt & Phase	Dimensions (In.)			Model No.	Price	Wt. (Lbs.)
			A	B	C			
Series 03 — 3 inch 150 lb carbon steel vessel — 3 steel elements (15 W/In²) with side mounted thermostat — 1" NPT pipe inlet and outlet								
3	240	1-1	32 ¹⁵ / ₁₆	22 ¹ / ₂	16 ¹ / ₂	NWHOR-03-003P-E1/240	\$1269	70
3	240	1-3	32 ¹⁵ / ₁₆	22 ¹ / ₂	16 ¹ / ₂	NWHOR-03-003P-E1/240/3P	1269	70
3	480	1-1	32 ¹⁵ / ₁₆	22 ¹ / ₂	16 ¹ / ₂	NWHOR-03-003P-E1/480	1269	70
3	480	1-3	32 ¹⁵ / ₁₆	22 ¹ / ₂	16 ¹ / ₂	NWHOR-03-003P-E1/480/3P	1269	70
4	240	1-1	42 ¹⁵ / ₁₆	32 ¹ / ₂	26 ¹ / ₂	NWHOR-03-004P-E1/240	1297	80
4	240	1-3	42 ¹⁵ / ₁₆	32 ¹ / ₂	26 ¹ / ₂	NWHOR-03-004P-E1/240/3P	1297	80
4	480	1-1	42 ¹⁵ / ₁₆	32 ¹ / ₂	26 ¹ / ₂	NWHOR-03-004P-E1/480	1297	80
4	480	1-3	42 ¹⁵ / ₁₆	32 ¹ / ₂	26 ¹ / ₂	NWHOR-03-004P-E1/480/3P	1297	80
6	240	1-1	55 ¹⁵ / ₁₆	45	39	NWHOR-03-006P-E1/240	1661	94
6	240	1-3	55 ¹⁵ / ₁₆	45	39	NWHOR-03-006P-E1/240/3P	1661	94
6	480	1-1	55 ¹⁵ / ₁₆	45	39	NWHOR-03-006P-E1/480	1661	94
6	480	1-3	55 ¹⁵ / ₁₆	45	39	NWHOR-03-006P-E1/480/3P	1661	94

Ordering Example: NWHOR-03-004P-E1/240 is a 4 kW, 1 Phase, 240 Volt Heater, \$1297.



MEDIUM, HEAVY & FUEL OIL APPLICATIONS

NWHOR & NWHORB Series

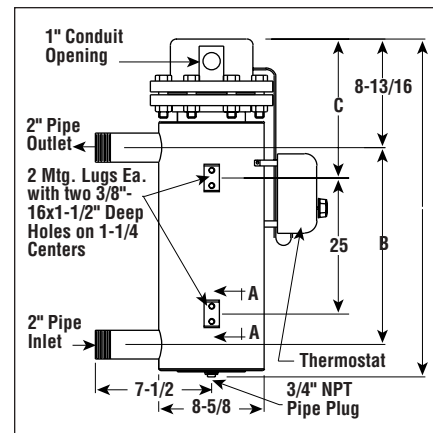
**MOST POPULAR
ITEMS HIGHLIGHTED**

To Order (Specify Model Number)

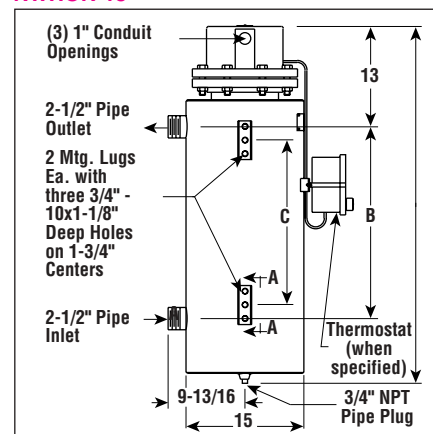
kW	Volts	Ckt & Phase	Dimensions (In.)			Model No.	Price	Wt. (Lbs.)
			A	B	C			
Series 06 — 5 inch, 150 lb carbon steel vessel — 6 steel elements (15 W/In²) with side mounted thermostat — 2" NPT pipe inlet and outlet								
8	240	1-3	41 $\frac{3}{4}$	30	11 $\frac{1}{2}$	NWHOR-06-012P-E1/240	\$2414	140
8	480	1-3	41 $\frac{3}{4}$	30	11 $\frac{1}{2}$	NWHOR-06-012P-E1/480	2414	140
10	240	1-3	48 $\frac{3}{4}$	37	14 $\frac{1}{2}$	NWHOR-06-015P-E1/240	2636	155
10	480	1-3	48 $\frac{3}{4}$	37	14 $\frac{1}{2}$	NWHOR-06-015P-E1/480	2636	155
12	240	1-3	60 $\frac{1}{2}$	48 $\frac{1}{2}$	20 $\frac{1}{2}$	NWHOR-06-020P-E1/240	2965	176
12	480	1-3	60 $\frac{1}{2}$	48 $\frac{1}{2}$	20 $\frac{1}{2}$	NWHOR-06-020P-E1/480	2965	176
15	240	1-3	73 $\frac{3}{4}$	61 $\frac{1}{4}$	27 $\frac{3}{4}$	NWHOR-06-0215P-E1/240	3303	212
15	480	1-3	73 $\frac{3}{4}$	61 $\frac{1}{4}$	27 $\frac{3}{4}$	NWHOR-06-0215P-E1/480	3303	212
18	240	1-3	86 $\frac{3}{4}$	74 $\frac{1}{4}$	33 $\frac{3}{4}$	NWHOR-06-030P-E1/240	3681	240
18	480	1-3	86 $\frac{3}{4}$	74 $\frac{1}{4}$	33 $\frac{3}{4}$	NWHOR-06-030P-E1/480	3681	240
Series 18 — 8 inch, 150 lb carbon steel vessel — 18 steel elements (12 W/In²) — 2$\frac{1}{2}$" NPT pipe inlet and outlet								
20	240	3-3	53 $\frac{3}{4}$	32 $\frac{11}{16}$	29 $\frac{3}{16}$	NWHOR-18-020P-E1/240	6353	450
20	480	3-3	53 $\frac{3}{4}$	32 $\frac{11}{16}$	29 $\frac{3}{16}$	NWHOR-18-020P-E1/480	6353	450
25	240	3-3	60 $\frac{1}{4}$	39 $\frac{1}{16}$	36 $\frac{3}{16}$	NWHOR-18-025P-E1/240	6686	500
25	480	3-3	60 $\frac{1}{4}$	39 $\frac{1}{16}$	36 $\frac{3}{16}$	NWHOR-18-025P-E1/480	6686	500
30	240	3-3	67 $\frac{1}{2}$	47 $\frac{7}{16}$	43 $\frac{13}{16}$	NWHOR-18-030P-E1/240	7064	565
30	480	3-3	67 $\frac{1}{2}$	47 $\frac{7}{16}$	43 $\frac{13}{16}$	NWHOR-18-030P-E1/480	7064	565
35	240	3-3	77 $\frac{1}{2}$	56 $\frac{13}{16}$	53 $\frac{3}{16}$	NWHOR-18-035P-E1/240	7795	650
35	480	3-3	77 $\frac{1}{2}$	56 $\frac{13}{16}$	53 $\frac{3}{16}$	NWHOR-18-035P-E1/480	7795	650
40	240	3-3	86 $\frac{3}{4}$	65 $\frac{13}{16}$	62 $\frac{3}{16}$	NWHOR-18-040P-E1/240	8522	725
40	480	3-3	86 $\frac{3}{4}$	65 $\frac{13}{16}$	62 $\frac{3}{16}$	NWHOR-18-040P-E1/480	8522	725
45	240	3-3	96 $\frac{3}{4}$	75 $\frac{13}{16}$	72 $\frac{3}{16}$	NWHOR-18-045P-E1/240	9035	815
45	480	3-3	96 $\frac{3}{4}$	75 $\frac{13}{16}$	72 $\frac{3}{16}$	NWHOR-18-045P-E1/480	9035	815
Series 27 — 10 inch, 150 lb carbon steel vessel — 27 steel elements (12 W/In²) — 3" NPT pipe inlet and outlet								
50	240	3-3	77 $\frac{1}{16}$	52	48 $\frac{1}{2}$	NWHOR-27-050P-E1/240	9218	730
50	480	3-3	77 $\frac{1}{16}$	52	48 $\frac{1}{2}$	NWHOR-27-050P-E1/480	9218	730
60	240	3-3	87 $\frac{1}{16}$	62	58 $\frac{1}{2}$	NWHOR-27-060P-E1/240	9718	750
60	480	3-3	87 $\frac{1}{16}$	62	58 $\frac{1}{2}$	NWHOR-27-060P-E1/480	9718	750
70	240	3-3	97 $\frac{1}{16}$	72	68 $\frac{1}{2}$	NWHOR-27-070P-E1/240	10,472	770
70	480	3-3	97 $\frac{1}{16}$	72	68 $\frac{1}{2}$	NWHOR-27-070P-E1/480	10,472	770
Series 45 — 14 inch, 150 lb carbon steel vessel — 45 steel elements (15 W/In²) — 6" flanged pipe inlet and outlet								
90	480	3-3	76	57 $\frac{1}{16}$	66 $\frac{11}{16}$	NWHOR-45-090P-E1/480	15,658	830
125	480	3-3	91	72 $\frac{3}{16}$	81 $\frac{11}{16}$	NWHOR-45-125P-E1/480	16,659	960
150	480	3-3	106	87 $\frac{3}{16}$	96 $\frac{11}{16}$	NWHOR-45-150P-E1/480	17,423	1080
175	480	3-3	121	102 $\frac{3}{16}$	111 $\frac{11}{16}$	NWHOR-45-175P-E1/480	17,896	1200
200	480	3-3	128 $\frac{1}{2}$	109 $\frac{11}{16}$	119 $\frac{11}{16}$	NWHOR-45-200P-E1/480	18,672	1320

Ordering Example: NWHOR-18-030P-E1/240 is a 30 kW, 240 Volt Heater, \$7064.
Note — Refer to the Controls section for side mounted controls or control panels.

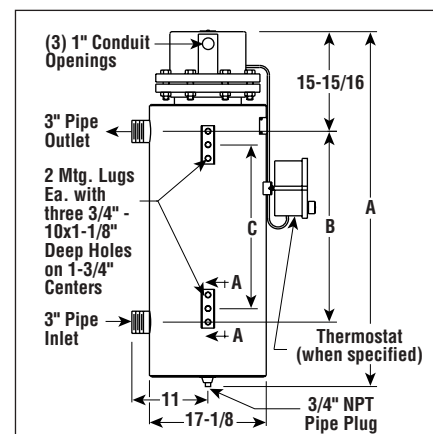
**Dimensions (Inches)
NWHO-06**



NWHOR-18



NWHOR-27





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