LIGHT AND MEDIUM WEIGHT OIL APPLICATIONS

#### **NWHO/NWHOB Series**

- ✓ 3 to 10" ANSI Blind Flange Design
- ✓ 3 to 10" Carbon Steel Pipe Body, 150 Lb Construction
- ✓ 3 to 120 kW
- 240 and 480V, 1 and 3 Phase
- General Purpose, Moisture Resistant/ Explosion Resistant, Explosion Resistant or Moisture Resistant Terminal Enclosure
- ✓ 0.475" Dia. Steel Sheath Elements (20 to 23 W/in²)
- ✓ With and Without Side Mounted AR Thermostat (200 to 550°F)
- UL, CSA and Other Third Party Approval, Listing or Certification Available

**APPLICATIONS** 

## **Light and Medium Weight Oil:** Temperature maintenance and heating of heat transfer oils.

heating of heat transfer oils. Improve flow ability of medium weight oils.

#### **FEATURES**

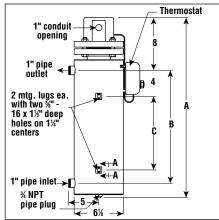
#### **Terminal Enclosure:**

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 to 10" ANSI B-16.5 Blind flange with ½" thermowell for thermostat bulb and a ¼ NPT threaded opening for a thermocouple or RTD.

### Dimensions: in NWHO-03



**Note**: Add 2" to A dimension for E2 enclosure.

**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 3 and 6 stock and assembly stock heaters come equipped with side mounted thermostat. Series 18 and 27 are furnished without thermostat.



**WARNING:** Hazard of Fire. These devises 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 online.

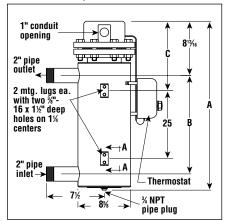
To Order								
			Dimensions: in					
kW	Volts	Ckt & Phase	Α	В	С	Model No.	Wt. Ib	
				Steel Ve	ssel—3	Steel Elements (23 W/in²) with Side		
			at—1 NPT					
3	240	1-1	3215/16	22½	16½	NWHO-03-003P-E1/240	70	
3	240	1-3	3215/16	22½	16½	NWHO-03-003P-E1/240/3P	70	
3	480	1-1	3215/16	22½	16½	NWHO-03-003P-E1/480	70	
3	480	1-3	3215/16	22½	16½	NWHO-03-003P-E1/480/3P	70	
4.5	240	1-1	3215/16	22½	16½	NWHO-03-04P5-E1/240	70	
4.5	240	1-3	3215/16	22½	16½	NWHO-03-04P5-E1/240/3P	70	
4.5	480	1-1	3215/16	22½	16½	NWHO-03-04P5-E1/480	70	
4.5	480	1-3	3215/16	22½	16½	NWHO-03-04P5-E1/480/3P	70	
6	240	1-1	4215/16	32½	26½	NWHO-03-006P-E1/240	80	
6	240	1-3	4215/16	32½	26½	NWHO-03-006P-E1/240/3P	80	
6	480	1-1	4215/16	32½	26½	NWHO-03-006P-E1/480	80	
6	480	1-3	4215/16	32½	26½	NWHO-03-006P-E1/480/3P	80	
7.5	480	1-1	557/16	45	39	NWHO-03-07P5-E1/480	94	
7.5	480	1-3	557/16	45	39	NWHO-03-07P5-E1/480/3P	94	
9	240	1-1	55¾6	45	39	NWHO-03-009P-E1/240	94	
9	240	1-3	557/16	45	39	NWHO-03-009P-E1/240/3P	94	
9	480	1-1	557/16	45	39	NWHO-03-009P-E1/480	94	
9	480	1-3	55¾6	45	39	NWHO-03-009P-E1/480/3P	94	

Ordering Examples: NWHO-03-04P5-E1/480/3P, 4.5 kWt, 3-phase 480V heater. NWHO-03-009P-E1/480, 9 kW, 1-phase 480V heater.

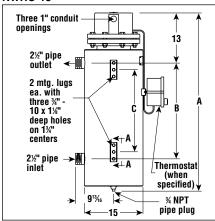
# LIGHT AND MEDIUM WEIGHT OIL APPLICATIONS

#### **NWHO/NWHOB Series**

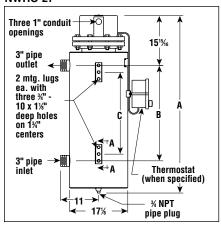
#### Dimensions: in, NWHO-06



#### NWHO-18



#### NWHO-27



NWHO-18-030P-E1/240 shown smaller than actual size.

To Order								
			Dimensions: in					
kW	Volts	Ckt &	Λ	В	С	Medel No	Wt.	
		Phase	A Carbon	_		Model No.	lb	
Series 06—5", 150 lb Carbon Steel Vessel—6 Steel Elements (23 W/in²) with Side Mounted Thermostat—2 NPT Pipe Inlet and Outlet								
12	240	1-3	41¾	30	11%	NWHO-06-012P-E1/240	140	
12	480	1-3	41%	30	11%	NWHO-06-012P-E1/480	140	
15	240	1-3	48¾	37	14%	NWHO-06-015P-E1/240	155	
15	480	1-3	48¾	37	14%	NWHO-06-015P-E1/480	155	
20	240	2-3	601/4	48½	20%	NWHO-06-020P-E1/240/2C	176	
20	480	1-3	601/4	48½	20%	NWHO-06-020P-E1/480	176	
25	480	2-3	73%	61%	275/16	NWHO-06-025P-E1/480/2C	212	
25	480	1-3	73%	61%	275/16	NWHO-06-025P-E1/480	212	
30	480	2-3	86%	74%	33%	NWHO-06-030P-E1/480/2C	240	
30	480	1-3	86%	74%	33%	NWHO-06-030P-E1/480	240	
Serie 2½ NF	Series 18—8", 150 lb Carbon Steel Vessel—18 Steel Elements (20 W/in²)— 2½ NPT Pipe Inlet and Outlet							
30	240	3-3	53¼	3211/16	29¾6	NWHO-18-030P-E1/240	360	
30	480	3-3	53¼	3211/16	29¾6	NWHO-18-030P-E1/480	360	
40	240	3-3	601/4	3911/16	36¾6	NWHO-18-040P-E1/240	436	
40	480	3-3	601/4	3911/16	36¾6	NWHO-18-040P-E1/480	436	
50	240	3-3	67%	475/16	4313/16	NWHO-18-050P-E1/240	500	
50	480	3-3	67%	475/16	4313/16	NWHO-18-050P-E1/480	500	
60	240	3-3	77%	56 <sup>13</sup> / <sub>16</sub>	535/16	NWHO-18-060P-E1/240	600	
60	480	3-3	77%	56 <sup>13</sup> / <sub>16</sub>	535/16	NWHO-18-060P-E1/480	600	
70	240	3-3	86%	65 <sup>13</sup> / <sub>16</sub>	625/16	NWHO-18-070P-E1/240	660	
70	480	3-3	86%	65 <sup>13</sup> / <sub>16</sub>	625/16	NWHO-18-070P-E1/480	660	
80	240	3-3	96%	75 <sup>13</sup> / <sub>16</sub>	725/16	NWHO-18-080P-E1/240	750	
80	480	3-3	96%	75¹¾6	725/16	NWHO-18-080P-E1/480	750	
Series 27—10", 150 lb Carbon Steel Vessel—27 Steel Elements (20 W/in²)— 3 NPT Pipe Inlet and Outlet								
80	240	3-3	77%	52	48½	NWHO-27-080P-E1/240	720	
80	480	3-3	77%	52	48-⁄2	NWHO-27-080P-E1/480	720	
90	240	3-3	81%	56	52½	NWHO-27-090P-E1/240	735	
90	480	3-3	81%	56	52½	NWHO-27-090P-E1/480	735	
100	480	3-3	87%	62	58½	NWHO-27-100P-E1/480	750	
120	480	3-3	97%	72	68½	NWHO-27-120P-E1/480	765	

**Note:** Refer to the controls section for side mounted controls or control panels. **Ordering Examples: NWHO-18-060P-E1/240**, 60 kW, 240V heater.

NWHO-06-012P-E1/240, 12 kW, 240V heater.

# LIGHT AND MEDIUM WEIGHT OIL APPLICATIONS

#### **NWHO/NWHOB Series**

To Order								
			Dimensions: in					
kW	Volts	Ckt & Phase	Λ	В	С	Model No.	Wt. Ib	
			Ib Carb	_				
Series 18—8", 150 lb Carbon Steel Vessel—18 Baffled Steel Elements (20 W/in²)— 2½ NPT Pipe Inlet and Outlet								
30	240	3-3	531/4	3211/16	2913/16	NWHOB-18-030P-E1/240	366	
30	480	3-3	531/4	3211/16	2913/16	NWHOB-18-030P-E1/480	368	
40	240	3-3	601/4	3911/16	3613/16	NWHOB-18-040P-E1/240	442	
40	480	3-3	601/4	3911/16	3613/16	NWHOB-18-040P-E1/480	442	
50	240	3-3	67%	<b>47</b> <sup>5</sup> / <sub>16</sub>	4313/16	NWHOB-18-050P-E1/240	506	
50	480	3-3	67%	475/16	4313/16	NWHOB-18-050P-E1/480	506	
60	240	3-3	77%	56 <sup>13</sup> / <sub>16</sub>	535/16	NWHOB-18-060P-E1/240	606	
60	480	3-3	77%	56 <sup>13</sup> / <sub>16</sub>	535/16	NWHOB-18-060P-E1/480	606	
70	240	3-3	86%	6513/16	625/16	NWHOB-18-070P-E1/240	666	
70	480	3-3	86%	6513/16	625/16	NWHOB-18-070P-E1/480	666	
80	240	3-3	96%	7513/16	725/16	NWHOB-18-080P-E1/240	756	
80	480	3-3	96%	7513/16	725/16	NWHOB-18-080P-E1/480	756	
Series 27—10", 150 lb Carbon Steel Vessel—27 Baffled Steel Elements (20 W/in²)—								
3 NPT Pipe Inlet and Outlet								
80	240	3-3	77%6	52	48½	NWHOB-27-080P-E1/240	726	
80	480	3-3	77%	52	48½	NWHOB-27-080P-E1/480	726	
90	240	3-3	81%	56	52½	NWHOB-27-090P-E1/240	741	
90	480	3-3	81%	56	52½	NWHOB-27-090P-E1/480	741	
100	480	3-3	87%	62	58½	NWHOB-27-100P-E1/480	756	
120	480	3-3	97%	72	68½	NWHOB-27-120P-E1/480	771	

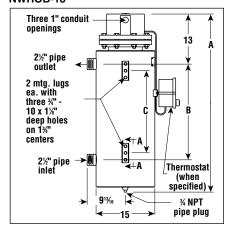
**Note:** Refer to the controls section for side mounted controls or control panels. **Ordering Example: NWHOB-18-060P-E1/240,** 60 kW, 240V heater.

#### Ordering Information:

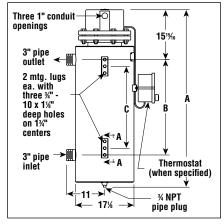
To Order— Complete the Model Number using the Matrix provided.

Model	Light ar	ıd Mediu	m Weigh	t Oil				
NWHO B	Oil Circulation Heater Internal Baffles							
	Code	Number of Elements						
	03 06 18 27	Three Six Eighte Twenty	en y Seven					
		Code	kW					
		003P 04P5 006P 07P5 009P 012P	3 4.5 6 7.5 9 12	<b>015P</b> 15 <b>020P</b> 20 <b>025P</b> 25 <b>030P</b> 30 <b>040P</b> 40 <b>050P</b> 50	060P 60 070P 70 080P 80 090P 90 100P 100 120P 120			
			Code	Terminal En	closure			
			E1 E2	General Purpose Moisture Resistant/Explosion Resistant				
			E3 E4	Explosion Re Moisture Res				
NWHOB 18 030P E			E1	Typical Model Number				

### Dimensions: in NWHOB-18



#### NWHOB-27



#### NWHOB-AA

