

NLI

Northern Lights, Inc.

FAX (208)263-6092

FACSIMILE COVER LETTERDate: 1-23

Time: _____

Please deliver the following pages to:

Name: Michele EdlFirm: Dept Water ResourcesFax No: (208) 287-6700Number of pages (including cover sheet): 5Subject: Water usage for
Northern Lights, Inc

Remarks: _____

From: Rod Babcock

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RATING BASIS: 2000 FT. ELEVATION; 90° F/64° F DB/WB AIRVENT - COOLING; 50° F MINIMUM OUTSIDE AIR TEMP - HEATING;

DESIGNATION					
MODEL NUMBER		WPHD041	WPHD041HS	WPHD041HS	WPHD051
ACTUAL AIR FLOW		1200	1300	1520	1680
E.S.P. (\"WG)		0.51	0.63	0.51	0.61
COOLING	EDB	84.9	84.4	76.1	80.0
	EWB	59.8	59.9	57.6	58.7
	CAP. MBH (SENS)	37.8	37.8	32.91	43.2
	HT OF REJECTION	44.34	44.88	43.13	55.85
	COOLING POWER KW	2.95	2.96	2.99	3.85
HEATING	EDB	11.6	11.7	11.0	11.9
	EWB	59.4	59.3	63.4	64.7
	CAP. MBH	38.16	38.81	37.21	46.15
	HT OF ABSORPTION	27.21	27.82	25.66	33.81
	HEATING POWER KW	3.21	3.16	3.39	3.62
	COP	3.5	3.6	3.2	3.7
	SEER	8.0	8.0	7.0	8.5
PD - FT. W/O NOSES		6.83	6.83	5.13	7.28
FLETERS		(1) 19½x38x1	(1) 19½x38x1	(1) 19½x38x1	(1) 19½x38x1
ELECTRICAL	FAN MOTOR HP	1/3	½	½	½
	FAN SPEED	HIGH	LOW	LOW	HIGH
	WCA	16.3	17.6	17.6	23.0
	VOLT	208	208	208	208
	PHASE	3	3	3	3
	PIPE SIZE	1"	1"	1"	1"
	CFM	750	750	180	560

WATER SOURCE HEAT PUMP SCH

F EWT COOLING 45° F EWT HEATING MAX 24" HOSE KIT LENGTH

			
WPHD051	WPHD028	WPHD051	WPHD035HS
1830	975	1400	1100
0.40	0.53	0.57	0.5
79.8	77.7	83.1	83.5
62.8	59.0	64.2	64.3
47.33	23.87	47.46	37.01
80.87	31.75	59.97	47.80
3.77	2.31	3.88	2.98
12.7	10.4	13.0	12.6
70.0	67.9	61.4	60.9
46.8	29.96	45.74	37.99
34.38	18.55	33.28	26.71
3.64	2.47	3.65	3.31
3.8	3.2	3.7	3.04
9.0	5.0	8.0	8.0
8.54	6.81	8.54	7.88
(1) 19 1/2x38x1	167x30x1	(1) 19 1/2x38x1	(1) 19 1/2x38x1
1/2	1/5	1/2	1/2
HIGH	HIGH	LOW	MEDIUM
23.0	11.9	23.0	15.3
208	208	208	208
3	3	3	3
1"	3/4"	1"	1"
275	180	500	500

WPH003HS	WPH0051	WPH003HS	WPH004HS
1260	1600	1525	1550
0.47	0.56	0.48	0.4
77.2	81.7	78.4	77.2
57.9	63.6	58.3	58.8
31.75	47.89	32.36	33.70
41.35	60.52	42.03	43.98
2.81	3.70	2.83	3.01
11.3	13.0	11.4	11.2
68.1	63.8	69.3	68.4
32.76	46.48	33.07	37.28
22.73	34.06	23.0	25.82
2.94	3.64	2.95	3.36
3.3	3.7	3.3	3.3
5.5	9.0	6.5	7.0
10.86	8.54	12.24	5.93
15 1/2x30x1	(1) 19 1/2x38x1	15 1/2x30x1	(1) 19 1/2x38x1
1/2	1/2	1/2	1/2
HIGH	MEDIUM	HIGH	LOW
15.3	23.0	15.3	17.6
208	208	208	208
3	3	3	3
1"	1"	1"	1"
225	500	160	250

		
WPHD01HS	WPHD051	WPHD051
1375	1855	1990
0.57	0.52	0.43
81.5	82.3	79.5
63.5	63.9	64.3
37.25	48.29	45.59
47.83	61.02	63.45
3.10	3.73	3.89
12.0	13.0	12.9
64.2	62.81	66.5
37.50	46.72	47.54
26.54	34.47	35.34
3.25	3.59	3.58
3.4	3.8	3.9
7.0	9.0	9.0
5.13	8.54	8.54
(1) 19½x38x1	(1) 19½x38x1	(1) 19½x38x1
½	½	½
LOW	MEDIUM	HIGH
17.6	23.0	23.0
208	208	208
3	3	3
1"	1"	1"
500	160	400