

# Climate Technologies Basic Facts



**WACKER  
NEUSON**  
*all it takes!*

## HYDRONIC HEATERS

### CAPACITIES



			<b>E1250</b>	<b>E2200</b>	<b>E3000ES</b>	<b>E3000</b>	<b>E5000</b>	<b>PUREHEAT™</b>
<b>THAW</b>	<b>Excavator's Thaw</b> 18-24" (46-61 cm) Spacing <i>· Frost Islands</i>	ft <sup>2</sup> (m <sup>2</sup> )	1,875 – 2,500 (175 – 230)	3,300 – 4,400 (300 – 400)	4,500 (420)	4,500 – 6,000 (420 – 550)	10,000 (950)	18,000* (1,700)*
	<b>Contractor's Thaw</b> 12-18" (30-46 cm) Spacing <i>· No Frost Islands</i>	ft <sup>2</sup> (m <sup>2</sup> )	1,250 – 1,875 (115 – 175)	2,200 – 3,300 (200 – 300)	3,000 – 4,500 (280 – 420)	3,000 – 4,500 (280 – 420)	5,000 – 7,500 (475 – 700)	9,000 – 13,500 * (850 – 1,250)*
	<b>Accelerated Thaw</b> 6" (15 cm) Spacing <i>· Fastest!</i>	ft <sup>2</sup> (m <sup>2</sup> )	625 – 1,250 (60 – 120)	1,100 – 2,200* (100 – 200)*	1,500 (140)	1,500 – 3,000* (140 – 280)*	2,500 (240)	5,000 – 7,500* (475 – 700)*
	<b>Accessories*</b>		HHS 1101 + Single PP Standard/Premium Only	HHS 2002 + Dual PP	HHS 3002 + Dual PP	HHS 3002 + Dual PP	(2) HHS 2502	(3) HHS 3004 (1) Booster Pump (3) Remote Manifold
<b>CURE</b>	Standard Spacing 24" (61 cm)	ft <sup>2</sup> (m <sup>2</sup> )	2,500 (232.0)	4,400 (408.8)	6,000 (557.4)	6,000 (557.4)	10,000 (929.0)	N/A
	Add Accessories* to expand area	ft <sup>2</sup> (m <sup>2</sup> )	5,000* (465.0)*	13,200* (1,226.3)*	12,000* (1,115)*	18,000* (1,672.2)*	30,000* (2,787.1)*	30,000* (2,787.1)*
	Accessories*		(1) HHS 1101 (1) Single PP	(2) HHS 2202 (2) Dual PP	(1) HHS 3002 (1) Dual PP	(2) HHS 3002 (2) Dual PP	(4) HHS 2502	(5) HHS 3004 Booster Pump (5) Remote Manifold
<b>FROST PREVENTION</b>	Standard Spacing 36" (91 cm)	ft <sup>2</sup> (m <sup>2</sup> )	3,750 (350)	6,600 (557.4)	9,000 (836.1)	9,000 (836.1)	15,000 (1393.5)	N/A
	Add Accessories*	ft <sup>2</sup> (m <sup>2</sup> )	7,500 (700.0)	19,800 (1,839.5)	18,000 (1,672.0)	27,000 (2,508.4)	45,000 (4,180.6)	45,000 (4,180.6)
<b>HEAT AIR</b>	Cubic Feet	ft <sup>3</sup> (m <sup>3</sup> )	203,600 (5,765)	360,000 (10,194.1)	360,000 (10,194)	525,000 (14,866)	1,433,333 (40,587)	1,433,333 (40,587)
	Btus (kW) per hour Net		140,000 (41)	252,000 (73.9)	252,000 (73.9)	385,000 (113)	860,000 (252)	860,000 (252)
	Heat Exchangers		HX50 HX100 HX200	HX50 HX100 HX200	HX50 HX100 HX200	HX50 HX100 HX200	HX50 HX100 HX200	HX50 HX100 HX200
	HX Quantity		2 1 -	4 2 1	4 2 1	6 3 2	16 8 4	16 8 4
	4-Port Manifold Required		- - -	- - -	- - -	- - -	Yes Yes -	Yes Yes -
Pump Pack		- - -	- - -	- - -	Single Single Dual	- - -	- - -	

Performance will vary depending on building tightness.  
\*Hose Handling System & Pump Pack or Booster Pump & Remote Manifold, Circulation Hoses

INSULATION COMPARISON:	SIZE	SQ. FOOTAGE	R VALUE	ANNUAL USAGE COST/FT2
IB 750 Blanket	125 ft x 6 ft x 1/4 in (38.1 m x 1.8 m x 0.64 cm)	750 (69.7)	2 layers = R5	59¢ †
Traditional Blankets	25 ft x 6 ft x 1/2 in (7.6 m x 1.8 m x 1.3 cm)	150 (13.9)	2 layers = R5	\$1.12

†Estimated  
Blanket meets ASTM E84-09 Class 1A flammability rating.

## PORTABLE INDIRECT-FIRED AIR HEATERS

### CAPACITIES



		HI110 / HI110HD	HI200 / HI200HD	HI300 / HI300HD	HI400HD D	HI400HD G
Sizing-Air Heat	ft³ (m³)	150,455 (4,260)	289,970 (8,211)	409,125 (11,585)	583,528 (16,524)	548,333 (15,527)
Sizing-Drying	ft³ (m³)	61,260 (1,735)	72,540 (2,054)	151,860 (4,300)	195,000 (5,522)	195,000 (5,522)
Fuel Input (Gross)	Btu/hr	112,141	205,410	293,982	Stage 1 - 272,000 Stage 2 - 411,000	LP: 381,000 NG: 381,000
Heat Output (Net)	Btu/hr	90,273	173,982	245,475	350,117	329,000
CFM (m³/min)		1,262* (35.7)*	1,465* (41.5)*	2,531* (71.7)*	3,750* (106.2)*	3,254* (92.1)*
Air Output Temp	°F (°C)	250 (121.1)	250 (121.1)	250 (121.1)	250 (121.1)	250 (121.1)
Fuel Consumption	Diesel Natural Gas Liquid Propane	gph (lph) cfh (cmh) gph (lph)	0.81 (3.1) - -	1.48 (5.6) - -	2.12 (8) - -	- 356 (10.1) 3.65 (13.8)

\*assumes intake air of 50° F (10° C)

## LARGE INDIRECT-FIRED AIR HEATERS

## RADIANT HEAT



		HI1000D/G	HI1000GM	HI770XHD	HDR115	HDR155
Sizing-Air Heat	ft³ (m³)	1,000,000 (31,149)	1,100,000 (31,149)	962,500 (27,255)	160,000 (4,500)	215,000 (6,000)
Sizing-Drying	ft³ (m³)	348,000 (9,854)	348,000 (9,854)	240,000 (6,796)	-	-
Heater, input	Btu/hr	890,000	890,000	Up to 770,000	115,000	155,000
Heater, output	Btu/hr	702,000	702,000	Up to 577,500	-	15,000
CFM (m³/min)		5800/6450**	5800/6450**	4,000 (113.3)	-	-
Air Output Temp	°F (°C)	210 (98.9)	210 (98.9)	210 (98.9)	-	-
Fuel Consumption	Diesel Natural Gas	gph (lph) cfh (cmh)	6.2 (23.3) 850 (24.0)	6.2 (23.3) -	5.8 (22.1) -	0.76 (2.9) 1.11 (4.2)

\*\*with 3rd supply adapter, cfm increases to 6,450

## FLAMELESS AIR HEATERS



		HIF600	HIF690	HIF1200
Sizing-Air Heat	ft³ (m³)	1,000,000 (28,300)	1,000,000 (28,300)	1,700,000 (48,000)
Sizing-Drying	ft³ (m³)	250,000 (7,000)	250,000 (7,000)	425,000 (12,000)
Air Flow	CFM (m³/min)	2,500	4,000	6,500
Air Output Temp, Max	°F (°C)	200 (120)	250 (120)	250 (120)
Fuel Consumption - Diesel	gph (lph)	3.2 (12.1)	3.3 (12.5)	8.6 (32.6)

## DEHUMIDIFIERS

## AIR MOVER



		AD85LGR	AD115LGR	AM3000C /GFCI
Sizing-Drying - Construction	ft³ (m³)	18,000 (510)	18,000 (510)	1/300 (1/27.9)
- Restoration	ft³ (m³)	6,000 (550)	8,000 (750)	-
Air Flow	CFM (m³/min) fpm (m/s)	300 (8.5) -	300 (8.5) -	950 (27.0) 3000 (15)
Moisture Removal*	ppd (l/day)	83 (71)	115 (54.4)	-
Power		7.9 Amp, 115 V	11.3 Amp, 115 V	2.5 Amp, 110 V

\*At AHAM Standards: 80° F (26.7° C); 60% relative humidity

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