

# IEH1 EVOLUTION SERIES SUBMITTAL

For Non-Hazardous Locations

For Non-Corrosive Areas



KW	Volts	Ph	Total Amps (1)	Approximate Air Temperature Rise °F (°C)	Motor			Premium Fan Motor Availability	Catalog Number	☒
					HP	Volts	Ph			
3	120	1	29	15 (8)	1/4	120	1	Standard	IEH1-030-120160	<input type="checkbox"/>
	208	1	17	21 (12)	1/4	208	1	Optional	IEH1-030-208160	<input type="checkbox"/>
	240	1	15	21 (12)	1/4	240	1	Optional	IEH1-030-240160	<input type="checkbox"/>
	277	1	13	15 (8)	1/4	277	1	Standard	IEH1-030-277160	<input type="checkbox"/>
	347	1	11	15 (8)	1/4	347	1	Standard	IEH1-030-347160	<input type="checkbox"/>
	480	1	8	21 (12)	1/4	480	1	Optional	IEH1-030-480160	<input type="checkbox"/>
	600	1	6	15 (8)	1/4	600	1	Standard	IEH1-030-600160	<input type="checkbox"/>
	208	3	11	21 (12)	1/4	208	1	Optional	IEH1-030-208360	<input type="checkbox"/>
	240	3	10	21 (12)	1/4	240	1	Optional	IEH1-030-240360	<input type="checkbox"/>
	480	3	5	21 (12)	1/4	480	1	Optional	IEH1-030-480360	<input type="checkbox"/>
5	208	1	27	35 (19)	1/4	208	1	Optional	IEH1-050-208160	<input type="checkbox"/>
	240	1	23	35 (19)	1/4	240	1	Optional	IEH1-050-240160	<input type="checkbox"/>
	277	1	20	26 (14)	1/4	277	1	Standard	IEH1-050-277160	<input type="checkbox"/>
	347	1	17	26 (14)	1/4	347	1	Standard	IEH1-050-347160	<input type="checkbox"/>
	480	1	12	35 (19)	1/4	480	1	Optional	IEH1-050-480160	<input type="checkbox"/>
	600	1	10	26 (14)	1/4	600	1	Standard	IEH1-050-600160	<input type="checkbox"/>
	208	3	16	35 (19)	1/4	208	1	Optional	IEH1-050-208360	<input type="checkbox"/>
	240	3	15	35 (19)	1/4	240	1	Optional	IEH1-050-240360	<input type="checkbox"/>
	480	3	8	35 (19)	1/4	480	1	Optional	IEH1-050-480360	<input type="checkbox"/>
	600	3	6	26 (14)	1/4	600	1	Standard	IEH1-050-600360	<input type="checkbox"/>
7.5	208	1	39	53 (29)	1/4	208	1	Optional	IEH1-075-208160	<input type="checkbox"/>
	240	1	34	53 (29)	1/4	240	1	Optional	IEH1-075-240160	<input type="checkbox"/>
	277	1	29	39 (22)	1/4	277	1	Standard	IEH1-075-277160	<input type="checkbox"/>
	347	1	24	39 (22)	1/4	347	1	Standard	IEH1-075-347160	<input type="checkbox"/>
	480	1	17	53 (29)	1/4	480	1	Optional	IEH1-075-480160	<input type="checkbox"/>
	600	1	14	39 (22)	1/4	600	1	Standard	IEH1-075-600160	<input type="checkbox"/>
	208	3	23	53 (29)	1/4	208	1	Optional	IEH1-075-208360	<input type="checkbox"/>
	240	3	21	53 (29)	1/4	240	1	Optional	IEH1-075-240360	<input type="checkbox"/>
	480	3	11	53 (29)	1/4	480	1	Optional	IEH1-075-480360	<input type="checkbox"/>
	600	3	9	39 (22)	1/4	600	1	Standard	IEH1-075-600360	<input type="checkbox"/>
9	208	1	46	64 (36)	1/4	208	1	Optional	IEH1-090-208160	<input type="checkbox"/>
	240	1	40	64 (36)	1/4	240	1	Optional	IEH1-090-240160	<input type="checkbox"/>
	277	1	35	47 (26)	1/4	277	1	Standard	IEH1-090-277160	<input type="checkbox"/>
	347	1	29	47 (26)	1/4	347	1	Standard	IEH1-090-347160	<input type="checkbox"/>
	480	1	20	64 (36)	1/4	480	1	Optional	IEH1-090-480160	<input type="checkbox"/>
	600	1	17	47 (26)	1/4	600	1	Standard	IEH1-090-600160	<input type="checkbox"/>
	208	3	28	64 (36)	1/4	208	1	Optional	IEH1-090-208360	<input type="checkbox"/>
	240	3	24	64 (36)	1/4	240	1	Optional	IEH1-090-240360	<input type="checkbox"/>
	480	3	12	64 (36)	1/4	480	1	Optional	IEH1-090-480360	<input type="checkbox"/>
	600	3	10	47 (26)	1/4	600	1	Standard	IEH1-090-600360	<input type="checkbox"/>

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					HP	Volts	Ph			
10	240	1	44	52 (29)	1/4	240	1	Standard	IEH1-100-240160	<input type="checkbox"/>
	277	1	39	52 (29)	1/4	277	1		IEH1-100-277160	<input type="checkbox"/>
	347	1	32	52 (29)	1/4	347	1		IEH1-100-347160	<input type="checkbox"/>
	480	1	22	52 (29)	1/4	480	1		IEH1-100-480160	<input type="checkbox"/>
	600	1	19	52 (29)	1/4	600	1		IEH1-100-600160	<input type="checkbox"/>
	208	3	30	52 (29)	1/4	208	1		IEH1-100-208360	<input type="checkbox"/>
	240	3	27	52 (29)	1/4	240	1		IEH1-100-240360	<input type="checkbox"/>
	480	3	14	52 (29)	1/4	480	1		IEH1-100-480360	<input type="checkbox"/>
	600	3	11	52 (29)	1/4	600	1		IEH1-100-600360	<input type="checkbox"/>
12	277	1	46	62 (34)	1/4	277	1	Standard	IEH1-120-277160	<input type="checkbox"/>
	347	1	38	62 (34)	1/4	347	1		IEH1-120-347160	<input type="checkbox"/>
	480	1	27	62 (34)	1/4	480	1		IEH1-120-480160	<input type="checkbox"/>
	208	3	36	62 (34)	1/4	208	1		IEH1-120-208360	<input type="checkbox"/>
	240	3	32	62 (34)	1/4	240	1		IEH1-120-240360	<input type="checkbox"/>
	480	3	16	62 (34)	1/4	480	1		IEH1-120-480360	<input type="checkbox"/>
	600	3	13	62 (34)	1/4	600	1		IEH1-120-600360	<input type="checkbox"/>
12.5	347	1	39	22 (12)	1/4	347	1	Standard	IEH1-125-347160	<input type="checkbox"/>
	208	3	37	31 (17)	1/4	208	1	Optional	IEH1-125-208360	<input type="checkbox"/>
	240	3	33	31 (17)	1/4	240	1	Optional	IEH1-125-240360	<input type="checkbox"/>
	480	3	17	31 (17)	1/4	480	1	Optional	IEH1-125-480360	<input type="checkbox"/>
	600	3	14	22 (12)	1/4	600	1	Standard	IEH1-125-600360	<input type="checkbox"/>
15	347	1	47	27 (15)	1/4	347	1	Standard	IEH1-150-347160	<input type="checkbox"/>
	208	3	44	38 (21)	1/4	208	1	Optional	IEH1-150-208360	<input type="checkbox"/>
	240	3	39	38 (21)	1/4	240	1	Optional	IEH1-150-240360	<input type="checkbox"/>
	480	3	20	38 (21)	1/4	480	1	Optional	IEH1-150-480360	<input type="checkbox"/>
	600	3	16	27 (15)	1/4	600	1	Standard	IEH1-150-600360	<input type="checkbox"/>
20	480	3	26	35 (19)	1/4	480	1	Standard	IEH1-200-480360	<input type="checkbox"/>
	600	3	21	35 (19)	1/4	600	1		IEH1-200-600360	<input type="checkbox"/>
25	480	3	32	66 (37)	1/4	480	1	Optional	IEH1-250-480360	<input type="checkbox"/>
	600	3	26	44 (24)	1/4	600	1	Standard	IEH1-250-600360	<input type="checkbox"/>
30	480	3	38	79 (44)	1/4	480	1	Optional	IEH1-300-480360	<input type="checkbox"/>
	600	3	31	53 (29)	1/4	600	1	Standard	IEH1-300-600360	<input type="checkbox"/>
35	480	3	44	61 (34)	1/4	480	1	Standard	IEH1-350-480360	<input type="checkbox"/>
	600	3	35	61 (34)	1/4	600	1		IEH1-350-600360	<input type="checkbox"/>
38.4	480	3	48	70 (39)	1/4	480	1	Standard	IEH1-384-480360	<input type="checkbox"/>
	600	3	38	70 (39)	1/4	600	1		IEH1-384-600360	<input type="checkbox"/>

(1) Total Amps = Heating element amps and motor amps.  
Consult factor for other KW or optional 2 stage operation.

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## Factory Built-in Options

Code	Description	<input checked="" type="checkbox"/>
D	Power Disconnect Switch	<input type="checkbox"/>
G	Adjustable Outlet Louvers	<input type="checkbox"/>
M	Manual Reset Thermal Cutout	<input type="checkbox"/>
L	"Heater On" Pilot Light	<input type="checkbox"/>
R	Built-in Fan Relay - Required for Remote Fan Switch	<input type="checkbox"/>
S	Three-position Selector Switch (Heat-Standby-Fan)	
T *	Built-in Bulb Type Thermostat 40° to 120°F (4° to 49°C) Range	<input type="checkbox"/>
H †	Premium Fan Motor	<input type="checkbox"/>
C	Substitute wall mounting bracket with ceiling bracket	<input type="checkbox"/>

\* Thermostat setting should not exceed a room temperature of 104°F (40°C).

† The 10, 12, 20, 35 & 38.4 kW models and all 120V, 277V, 347V & 600V models come standard with premium fan motor. On all other models it is an option.

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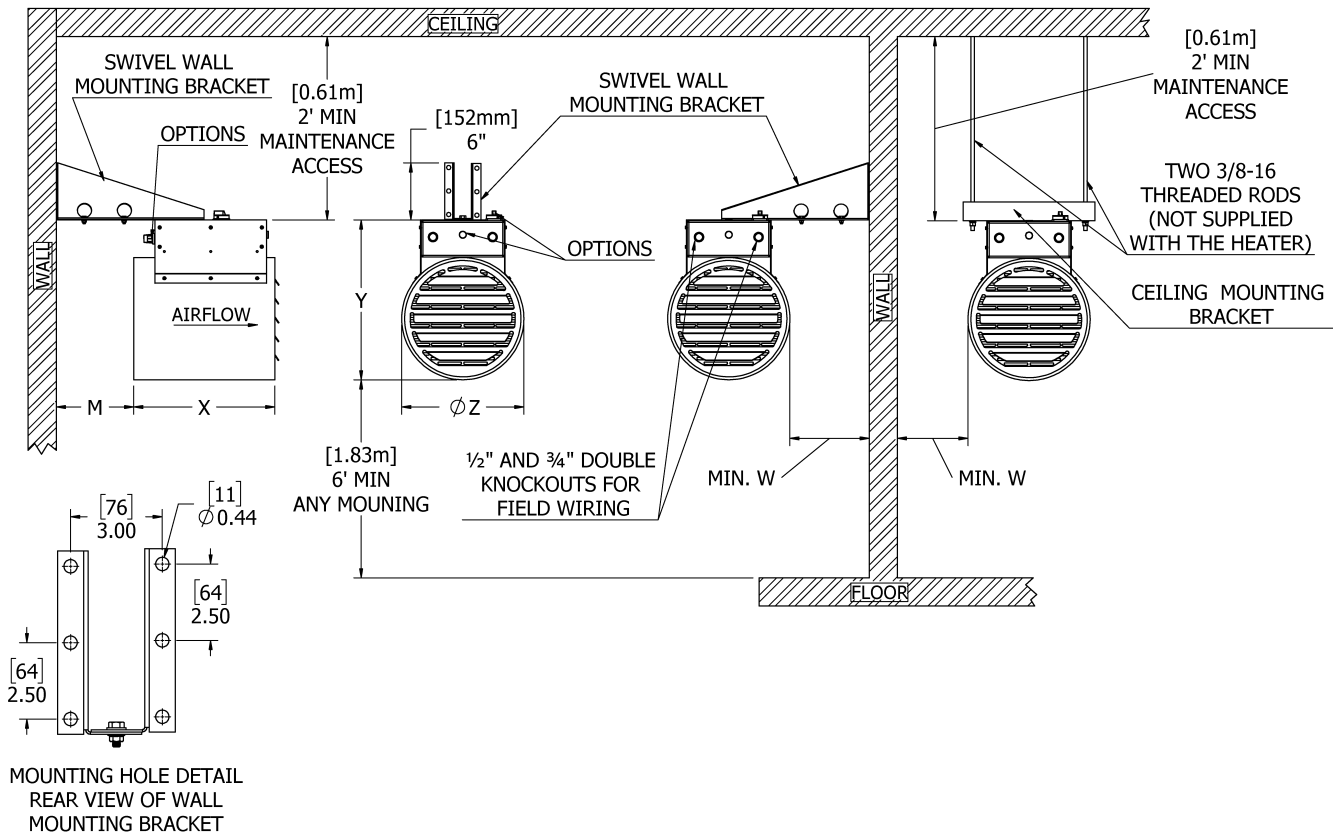


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## Dimensions, Weights and Air Throws

KW	Dimensions - In. (cm)					Weight Lb (kgs)	Maximum Air Throw - Ft. (m)
	M	W	X	Y	Z		
3 - 12	8 ¼ (21)	8 ¾ (22)	15 (38)	17 (43)	13 (4)	45 (20)	15 (5)
12.5 - 20	7 (18)	5 ½ (14)	16 ¼ (41)	23 ½ (60)	19 ¼ (49)	60 (27)	50 (15)
25 - 38.4	4 (10)	5 ½ (14)	20 ¾ (53)	23 ½ (60)	19 ¼ (49)	80 (36)	50 (15)



## Motor Data

Description	RPM	Airflow - CFM (cubic meters/hr)			Noise Level (dB)		
		1-12 kW	12.5-20 kW	25-38.4 kW	3-12 kW	12.5-20 kW	25-38.4 kW
Standard	1200	362 (615)	1342 (2280)	1237 (2102)	64	68	68
Premium	1800	618 (1050)	1774 (3014)	1635 (2778)	75	84	84

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## IEH1 Evolution Series Engineering Specifications

A sample specification can be prepared by using the following information. A check box has been supplied so that you may mark those sections which you require. Material which is part of the standard INDEECO Industrial Unit Heater specification has already been checked.

- 1. Electric Unit Heaters shall be Hazloc Heaters™ IEH1 Evolution Series, with built-in controls and UL and cUL Listed. Heater to be forced fan type of the kW rating, voltage and phase specified in the schedule.
- 2. The heating elements shall be of type 304 stainless steel finned tubular construction.
- 3. The motor shall be UL Recognized with built-in thermal protection.
- 4. Heating elements and motor to be enclosed in a round, heavy gauge galvanized steel shroud with a Yellow baked powder coat finish.
- 5. Wall mounted bracket with single point suspension. The heater can be rotated a full 180° arc.
- 6. Outlet grille with 45° angled louvers. Inlet grille that complies with OSHA requirements for fan blade guard.
- 7. Single point, line voltage connection for incoming power. Heater, fan and controls can all be connected to the same branch circuit.
- 8. The following optional components are to be built-in and factory pre-wired:
  - Heater Control thermostat with “warmer” indicator label: 40° to 120° F (4° to 49° C) range
  - Three position selector switch (Heat - Standby - Fan)
  - “Heater On” pilot light to indicate when heating elements are energized
  - Manual reset thermal cutout
  - Power disconnect switch
  - Fan relay - remote fan switch
- 9. Substitute “Premium” high performance fan motor to increase horizontal throw distance (comes standard on some unit sizes).
- 10. Add adjustable outlet louvers to better direct flow.
- 11. Replace wall mounted bracket with mounting bracket for ceiling installations. The heater can be rotated a full 180° arc.
- 12. Add an accessory wall mounted room thermostat. Adjustable from 50° to 90° F (10° to 32° C).