



**MAGIC- PAK® THRU THE WALL  
PACKAGED COOLING/GAS HEAT**

**HWC**  
Bulletin #490086  
September 1998

**7.6 to 14.9 kW (26 000 to 51 000 Btuh) Gas Heating Input**  
**3.2 to 7.4 kW (10 800 to 25 200 Btuh) Net Cooling Capacity**

**FEATURES**

**Applications**

- Completely self-contained.
- Ideal for apartments, condominium and hotels for individual control of units.
- No outside condensing unit, no external refrigerant lines no separate indoor coil.
- Slide out cooling chassis.
- Pre-wired and pre-charged.

**Completely Tested**

- Each unit is factory run tested to ensure proper operation.

**Unit Cabinet**

- Baked-on powder paint finish provides rust and corrosion protection.
- Mounts flush with any wall.

**Direct Drive Blower**

- Units are equipped with quiet multi-speed direct drive blower.
- Each blower assembly is statically and dynamically balanced.
- Multiple-speed motor is resiliently mounted.
- See blower performance table.

**Gas Control Valve**

- 24 volt redundant combination gas control valve combines a manual main shutoff valve, pressure regulation and automatic electric valve (dual) into one compact combination control.

**Direct Spark Ignition**

- Solid-state electronic direct spark ignition control provides positive and safe main burner ignition.
- Spark is intermittent and occurs only when required.
- Separate electronic flame sensor control assures safe and reliable operation.
- Should loss of flame occur, flame sensor controls will initiate a re-ignition trial before locking out unit operation for 60 minutes.
- Ignition control has LED to indicate status and as an aid in troubleshooting.
- Watchguard circuit automatically resets ignition controls after one hour of continuous thermostat demand after unit lockout, eliminating nuisance calls for service.

**Tubular Heat Exchanger**

- Constructed of aluminized steel for superior resistance to corrosion and oxidation.
- Curving design allows complete exposure of heating surfaces to supply air stream.
- Round surfaces create minimum air resistance and allow air to surround all surfaces for excellent heat transfer.
- Compact design reduces space requirements in unit cabinet.

**Inshot Burners**

- Aluminized steel inshot burners provide efficient trouble free operation.
- Burner venturi mixes air and gas in correct proportion for proper combustion.
- Assembly is removeable from the unit as a single component for ease of service and each burner may be removed individually.



Unit Showing Slide-Out Cooling Section

**Induced Draft Blower**

- Shaded pole heavy duty induced draft blower prepurges heat exchanger and safely vents flue products.
- Pressure switch prevents unit operation in case of blockage of combustion air or flue outlet.
- Induced draft blower operates only during heating cycle.

**Compressor**

- High efficiency scroll or rotary compressor.
- Designed for dependable efficiency with minimum operating cost.
- Suction cooled and overload protected with internal pressure relief.
- Hermetically sealed with built-in protection from excessive current and temperatures.

**Copper Tube/Enhanced Fin Coil**

- Ripple-edged aluminum fins.
- Copper tube construction.
- Coil is factory tested under high pressure to insure leakproof construction.

**Controls**

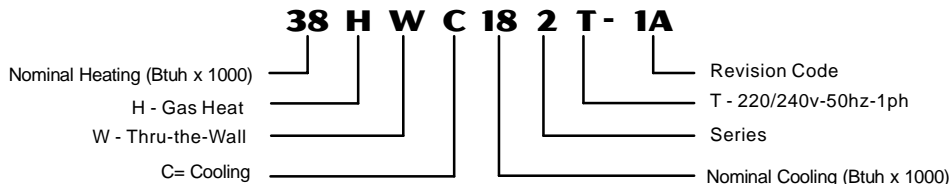
- Standard trade available components.
- Color coded wiring for easy service.

**ACCESSORIES**

**Wall Sleeve**

- Use for roughing in opening for units.
- Unit cabinet slides into the wall sleeve for ease of installation.

**IDENTIFICATION**

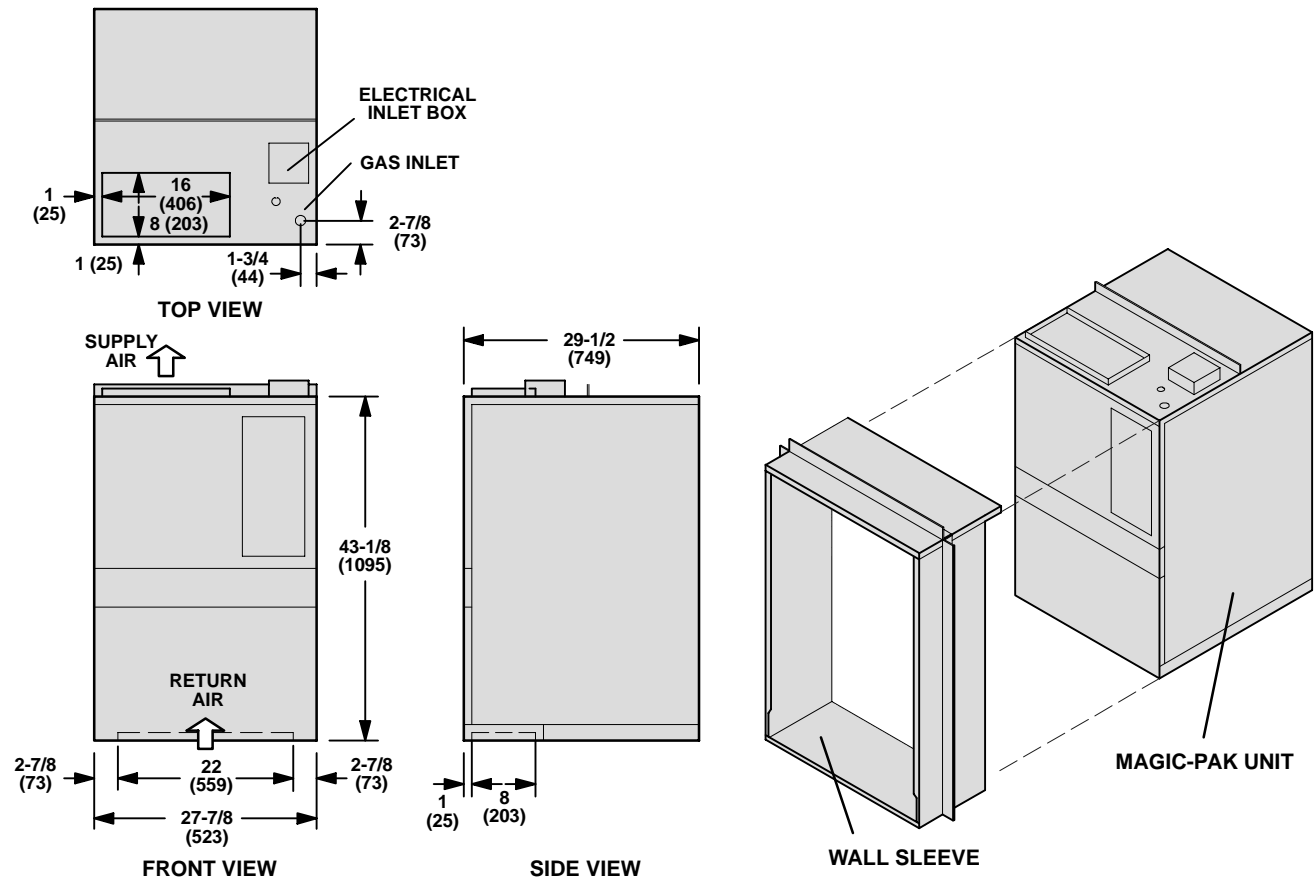


<b>SPECIFICATIONS</b>									
Model Number		26HWC122	38HWC122	38HWC182	51HWC182	38HWC242	51HWC242	51HWC302	
Heating Data	Input - kW (Btuh)	7.6 (26 000)	11.1 (38 000)	14.9 (51 000)	11.1 (38 000)	14.9 (51 000)			
	Output - kW (Btuh)	5.9 (20 000)	8.8 (30 000)	11.7 (40 000)	8.8 (30 000)	11.7 (40 000)			
	Efficiency	80.0%							
Cooling Data	kW (Btuh)	3.2 (10 800)	4.7 (16 000)	6.2 (21 200)	7.4 (25 200)				
	EER	9.0	8.8	8.7	9.0				
	Sensible/Total	0.78	0.74	0.75	0.68				
Outdoor Coil Fan	Diameter - mm (in.)	457 (18)							
	Motor output - W (hp)	93 (1/8)			186 (1/4)				
	Rev/Min	1075							
Indoor Blower	Blower wheel nominal diameter x width - mm (in.)	254 x 102 (10 x 4)							
	Nominal motor output - W (hp)	93 (1/6)	246 (1/3)						
	Voltage & phase	220/240v-1ph							
Refrigerant charge furnished — kg (oz.) HCFC-22		1162 (41)	1361 (48)			1814 (64)			
Shipping weight — kg (lbs.) 1 package		(147) 325	159 (350)		163 (360)		172 (380)		
Electrical Data	Line voltage and Phase - 50 hz		220/240 - 1						
	Voltage range (minimum — maximum)		198 — 264V						
	Compressor	Rated load amps	5	8.3	13.6	16.4			
		Locked rotor amps	26.3	49.0	61.0	83.0			
	Outdoor Coil Fan Motor - Rated load amps		0.9			1.8			
	Minimum Circuit Ampacity		8.3	13.6	18.6	21.9			
	Maximum Fuse/HACR Breaker		15	20	5	30			
<b>OPTIONAL ACCESSORIES - Must Be Ordered Extra</b>									
Wall Sleeve		CA-239 (40L33)							

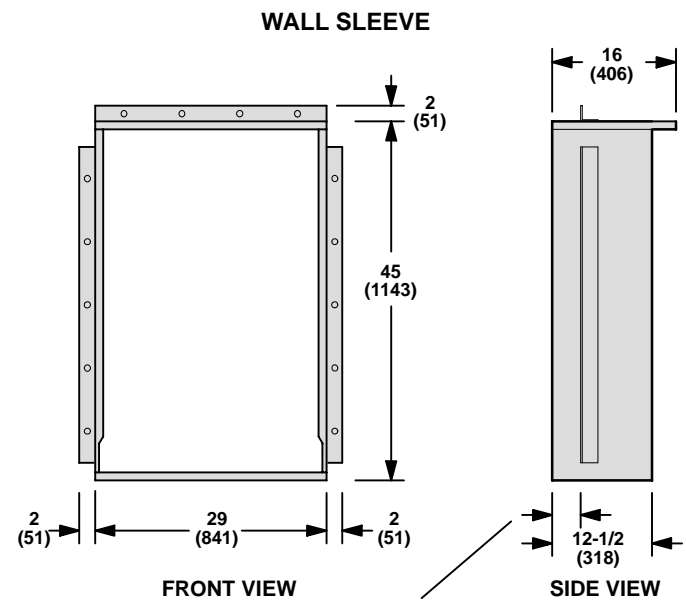
NOTE — Refer to local electrical codes to determine wire, fuse and disconnect size requirements.

<b>BLOWER PERFORMANCE</b>					
Model No.	Blower Speed	L/s (cfm) at external static pressure with filter - kPa (in. wc)			
		50 (0.2)	75 (0.3)	100 (0.4)	125 (0.5)
HWC122	High	265 (560)	250 (530)	235 (495)	220 (465)
	Medium	195 (410)	185 (390)	170 (365)	165 (345)
	Low	170 (355)	165 (350)	160 (335)	155 (330)
HWC182 HWC242 HWC302	High	355 (755)	335 (710)	315 (670)	295 (625)
	Medium	345 (730)	325 (690)	310 (655)	290 (610)
	Low	255 (540)	245 (520)	305 (650)	225 (475)

**DIMENSIONS – INCHES (MM)**



**ACCESSORY DIMENSIONS – INCHES (MM)**



Flange may be assembled 1 in. (25 mm) or 3-3/4 (95 mm) from front of sleeve.