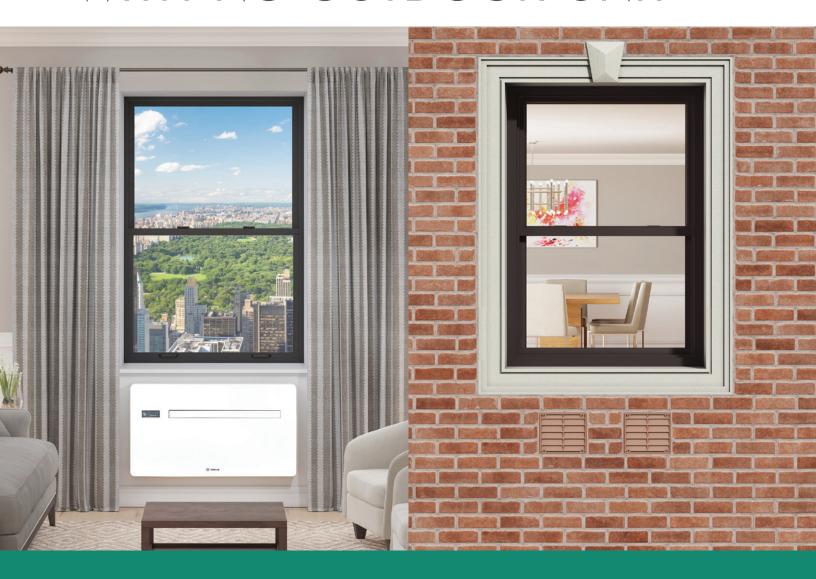
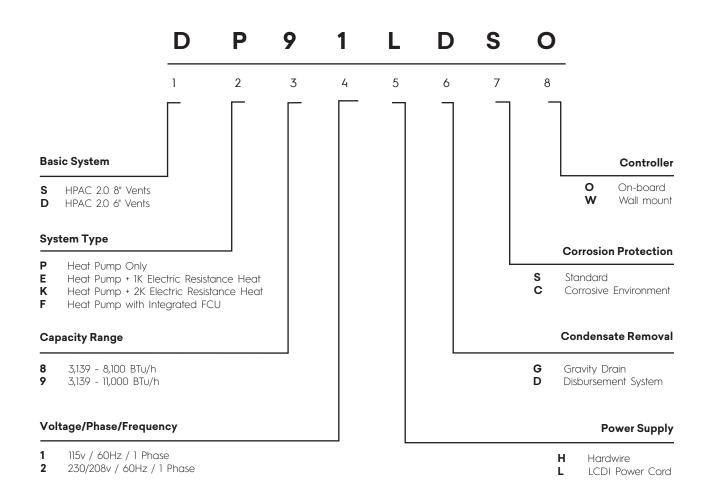


THE HEAT PUMP AC - WITH NO OUTDOOR UNIT



TECHNICAL SPECIFICATIONS

NOMENCLATURE



LCDI POWER CORD RECEPTACLE





NEMA5 115V receptacle used on 115V units.



NEMA6 250V receptacle used on 208/230V units.



Wall Mounted Touch Controller



On-board Backlit Touch Control



KEY BENEFITS

Sleek Inside

Clean, crisp lines inconspicuously blend into any decor. At just $6.5^{\prime\prime}$ deep, HPAC 2.0 will barely intrude in the room.

Clean Facade

All that's visible on the exterior are two small 6" (interior diameter) louvers that can be colored to blend discreetly into any facade.

Whisper Quiet

Ultra-quiet 27 dB for a library quiet environment. An industry leading STC and OITC rating keep the outside noise out.

Fast Cooling & Heating

Heat pump technology with Inverter cools down fast in the summer and heats up fast in the winter. Optional supplemental resistance heat.

Paintable

 $\ensuremath{\mathsf{HPAC}}$ 2.0's all-metal cabinet can be painted to blend into any color scheme.

Bespoke

HPAC 2.0 can be fully integrated into a wall or cabinet with only the supply and return air outlets visible.

Perfect Comfort

Inverter technology keeps the room at a consistent temperature all the time. Auto mode selects heat or cool as needed.

Connected

Access HPAC 2.0 from Alexa or any Android/IOS device and any Windows/MAC desktop. Setup integrations with IFTT.

Flexible

HPAC 2.0 can be installed high on a wall, under a window, integrated, or even perpendicular to an outside wall¹

Superb Quality

Crafted in Italy with the highest-grade materials by skilled technicians.

No Energy Loss

HPAC 2.0's small exterior holes are completely sealed ensuring no air leakage.

Clean, Fresh Air

Breathe easier with easy to clean washable antibacterial filters, and optional HRV fresh air system.

Super-Efficient

A BLDC inverter compressor, high efficiency heat exchanger and EC fans optimize power usage making HPAC 2.0 as efficient as possible.

No Condensate

With the Integrated Condensate Dispersement System, there is no need for a drain in cooling mode as condensate is dispersed onto the heat exchanger

Smart

HPAC 2.0 can be easily programmed with different schedules for each day of the week. Control a group of HPAC 2.0's via the app. Touch-screen lock, and temperature limiting offer full control. Auto restarts after a power outage.

Intuitive Controls

Wi-Fi, desktop app, on-board and wall mountable touch-screen with dimmable backlit display.

Saves Energy

Comprehensive and easy-to-program scheduling as well as sleep mode. Occupancy sensors can limit wasted power.

Unrivaled Reliability

Reliability backed up with industry-leading 10-year limited warranty.

¹ Requires optional Sidewall Kit

² Requires optional Integrated Condensate Dispersement System which must be Specified when ordering.

PERFORMANCE

Model			DP81XXXX	DP91XXXX	DP92XXXX	DE92XXXX	DK92XXXX		
	Rated Capacity	Btu/h			8,100¹				
Cooling ¹	Capacity Range (Min - Max)	Btu/h	3,139 ² -8,100 3,139 ² -10,600 ³						
	Input Power (Rated)	W		730					
	Input Power (Max)	W	730 1,060						
	Operating Range (Outdoor)	°F	23 - 109						
	Turndown Ratio		3.4:1						
	Energy Efficiency	SEER	18						
		EER							
	Moisture Removal	Pts/h	1.9						
	Sensible Heat Factor	%							
Heating 47°F ⁴	Rated Capacity	Btu/h	8,200	8,200		11,600	15,000		
	Capacity Range (Min - Max)	Btu/h	2,635² - 8,100	2,635²	- 10,407³	2,635² - 13,819³	2,635² - 17,23°		
	Input Power (Rated)	W	701	701		1,701	2,701		
	Input Power (Max)	W	710	1060		2,060	3,060		
	Electric Heater Size	W		N/A		1,000	2,000		
	Operating Range (Outdoor)	°F	0 °F - 64.5 °F						
	Defrost Method		Reverse Cycle						
	Turndown Ratio								
	Energy Efficiency	HSPF (IV)	10.3						
		COP ⁵	3.43						
	Rated Capacity	Btu/h	3,040	4,5037		7,915	11,327		
Heating 17°F ⁶	Capacity Range (Min - Max)	Btu/h	2,635 ² - 3,040	2,635²	- 4,503	2,635 ² - 7,.915	2,635² - 11,32°		
	Input Power (Rated)	W	730	750		1,750	2,750		
	Electric Heater Size	W		N/A		1,000	2,000		
	Energy Efficiency	COP ⁵	1.76						
	Rated Capacity	Btu/h		3,983 ⁷		7,915	11,327		
Heating 5°F 7	Capacity Range (Min - Max)	Btu/h	2,635 ² - 2,021	2,635²	- 3,983	2,635 ² - 7,915	2,635 ² - 11,32		
	Input Power (Rated)	W	730	9	33	1,933	2,933		
	Electric Heater Size	W		N/A		1,000	2,000		
	Energy Efficiency	COP ⁵	1.25						
Sound	STC ⁸	dB	37						
	OITC8	dB	28						
	Indoor	dB(A)	194/229/282						
	Outdoor	dB(A)							

¹ Rating conditions: Indoor: D.B. 80°F, W.B. 67°F; Outdoor: D.B. 95°F, W.B. 75°F.

² Minimum capacity.

³ Maximum capacity. Note: maximum capacity is not to be used for design specifications. The maximum capacity is useful for when either outside temperatures exceed the design or when the room has a greater load than the design due to increased occupants, or other temporarily situations. The HPAC 2.0 will only operate beyond the rated capacity for up to 30 minutes at a time.

⁴ Rating conditions: Indoor: D.B. 70°F, W.B. 60°F; Outdoor: D.B. 47°F, W.B. 43°F.

⁵ COP performance bases on reverse cycle heat pump only.

⁶ Rating conditions Indoor: D.B. 70°F, W.B. 60°F; Outdoor: D.B. 17° F, W.B. 15° F.

 $^{^{7}}$ Rating conditions Indoor: D.B. 70°F, W.B. 60°F; Outdoor: D.B. 5° F, W.B. 3° F.

^e Tested and certified by Intertek ASTM E90-09 (2016) and classified in accordance with ASTM E413-2016 and E1332-16

ELECTRICAL, COMPRESSOR & AIRFLOW

Model			DP81XXXX	DP91XXXX	DP92XXXX	DE92XXXX	DK92XXXX	
Compressor	Туре		BLDC Rotary Inverter					
	Brand		Panasonic					
	RLA	A	5.2	7.9		2.84		
	LRA	A	7.1	8.5		3.87		
	Refrigerant	Туре			R410A			
		Oz.			21.87			
	Oil	Туре			FV50S			
		Oz.			8.45			
Electrical	Voltage		1	15		208/230		
	Volt Range		110	/126		197/253		
	Hz/ Phase				60 / 1			
	Power Supply		LCDI		Hardwired ¹ or LC	CDI Power Cord ²		
	Power Factor				0.96			
	Cooling (Rated)	А	6	0.4		3.5/3.2		
	Heating - (Rated) ³	A	6	o.3	3.5/3.2	7.8/7.1	12.6/11.4	
	Outdoor EC Fan Motor F.L.A.				0.42			
		1.2						
	Indoor EC Fan Motor	F.L.A.			0.23			
	MCA ³	A	7.34	9.3	5.1/4.6	10.7/9.75	15.7/14.25	
	MOCP ³	A	15	15	15	20	30	
	Input Power (standby)	W	10.8					
	Input Power (off mode)	W	1.7					
A : (I	Indoor	Туре	EC Tangential					
Airflow		CFM	194/229/282 3 and Auto Motorized Louver					
		Speeds						
		Control						
		dB(A)⁵	27/33/41					
	Outdoor	 Туре	EC Centrifugal					
		Speeds	Fully Variable Auto 200/265/325					
		CFM						
		dB(A) ⁶	38/45/51					
		Vent	Dual 6" Inside Diameter ⁷					

¹ All units require a Leak Current Detector Interrupter (LCDI) power cord unless hardwired with a dedicated breaker to UL 484 standards.

² LDCI power cord must be specified when ordering.

³ MCA ratings conform to National Electric Code; however, local codes should apply. For models with electric heat, the amps include the electric heat strip of 1 kW

⁴ Conforms with National Electrical Code 440.62 to allow H2P815XXXX on a 15A branch circuit where lighting outlets, other appliances, or general-use receptacles are also supplied, as the total rating of the cord-and plug-connected H2P815XXXX (7.3A) uses less than 50% of the 15A branch circuit.

⁵ Sound Pressure: When floor mounted, sound level is measured 39.4 in. from air-outlet in horizontal distance, 39.4 in. above the floor in vertical distance. When high wall-mounted, sound level is measured 39.4 in. from air-outlet in horizontal distance, 39.4 ft. from air-outlet in vertical distance.

⁶ Sound Pressure: Anechoic chamber conversion value, measured at a point 39.4 in. from the front of the unit at a height of 39.4 in. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

⁷ Must use approved grilles and sleeves.

PHYSICAL DATA/ WARRANTY

Model			DP81XXXX	DP91XXXX	DP92XXXX	DE92XXXX	DK92XXXX	
Controls	Basic Functionality		Backlit, Dimable, On-board Touch Controller					
Controls	Wi-Fi		Yes					
	Third Party Controller Compatibility		YES, Standard and Smart Thermostats ¹					
	BACnet/Modbus Compatible		Yes ¹					
	ADA Compliant		Yes					
	Dry Contact		Connection to 3rd Party Occupancy Sensors/Hardware					
	Restricted Options		Key Pad Lock					
	Power Outage Restart			Auto-C	On Based On Las	st Setting		
	Operation			Cool, Heat	, Dehumidify, Circ	ulation, Auto²		
Modes	Restricted Modes		Heat Only, Cool Only, Temperature Limiting ³					
	Timers		7-day, Sleep Mode ⁴					
Air Quality	Filter Power Supply	Туре	Lift-out, Washable Antibacterial Mesh					
		Class	MERV 2					
	Fresh Air		Optional HRV Available					
	Cooling		Optional Integrated Condensate Dispersion System ⁵					
Condensate Removal	Heating (Heat Pump)		Gravity Drain or Field Installed Pump					
	Drain Pipe Size	ln.	3/4					
	Vent Pipes	In.	Dual 6" (Interior Diameter) Pipes ⁷					
External Vents	Grilles		Standard and Custom Options Available					
Pl I D	Unit	ln.		39	9.7 W x 21.9 H x 6	.5 D		
Physical Data	Shipping	In.		43.31 W x 26 H x 10.3 D				
	Net Weight	Lbs.	90.4					
	Shipping Weight	Lbs.	99.2					
	Cabinet	Color	RAL 9003 Signal White - Can Be Painted					
		Finish	Powder Coated					
		Material			Steel			
Certification	Safety		Field certified to meet UL 1995 by Intertek					
	Energy Efficiency		BR Labs					
	1 Year		Parts and Labor					
Warranty⁵	10 Years		Parts and Labor on Compressor					
	2nd - 10 Year		Parts Only					
Origin	Country of Origin			Manufactured in Storo, Italy				

HEATING MODE: The fan is set to low and the temperature will automatically lower by 1.5°F after the first hour and then by another 1.5°F after the second hour. After eight hours, the HPAC 2.0 Air Conditioner will automatically turn off.

- ⁵ Must be specified when ordering unit, can not be field installed.
- 6 Warranty limited to installations in the United States only. See warranty documentation for full details.
- ⁷ Grille style and type must be approved in writing to validate the warranty. Using a non-approved grille will void the warranty.

¹ Requires an adapter module, which must be purchased separately

² On Auto mode, deadband is 7.2°F

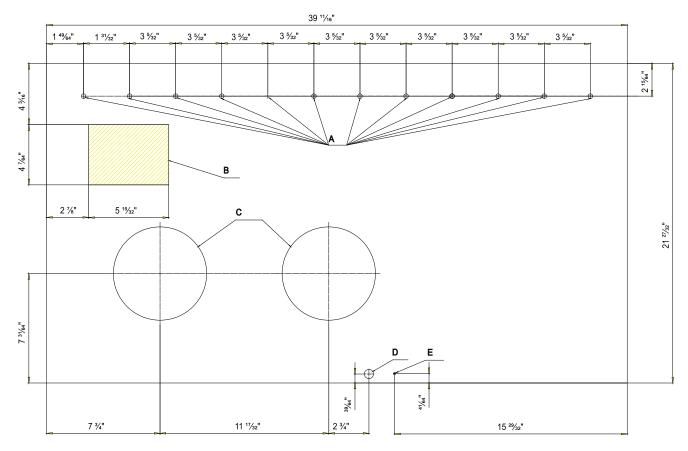
³ This mode restricts the temperature setting to 71.5°F to 82.5°F in cooling mode and 61°F to 75°F in heating mode. It also disables dehumidification mode and automatic mode.

⁴ COOLING MODE: The fan is set to low and the temperature will automatically increase by 1.5°F after the first hour and then by 1.5°F after the second hour. After eight hours, the HPAC 2.0 Air Conditioner will automatically turn off.

ACCESSORIES

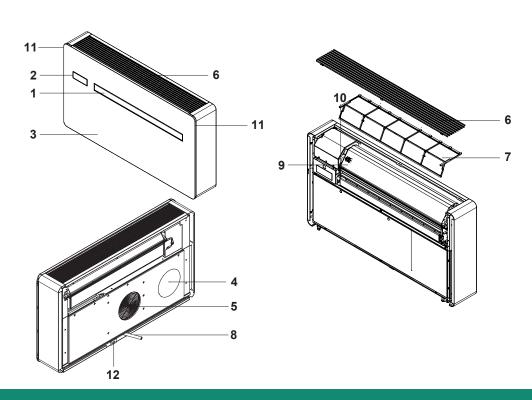
Control	Accessory Name	Model#	Description		
Control	Wall-Mounted Touch Controller	LTCH20	Simple and easy to use with both icons and text for each button. The Touch Controller is sleek and blends into any decor.		
	Wall-Mounted Touch Screen Controller	TFTH20	For the easiest and most comprehensive control, the full-color Touchscreen Controller is the best choice. About the size of a standard light switch plate, it can be mounted right next to the light switch. Comprehensive programming offers multiple settings for each day. All selection is simple and intuitive.		
	Third Party Standard Thermostat Adapter	STDH20	Allows for connection to any third party thermostat includes R C G Y W G1 G2 and G3 terminals		
	Third Party Smart Thermostat Adapter	SMTH20	Allows for connection to any smart thermostat Including Nest, Eco-bee, Honeywell, etc interface includes R C G Y and W terminals which are required for such controllers.		
	BACnet Adapter	BACH20	Enables connection to BACnet systems with IP/MSTP gateway		
	Modbus Adapter	MODH20	Enables connection to Modbus systems with RTU/ TCIP/IP Gateway		
Condensate Removal	Nebulizer	For the most energy-efficient solution when replacing air conditioning supplied heat, pair the HPAC 2.0 with an FCU. The Integrated FCU er pump during the mild winter and water based heat from a boiler du est winter temperatures. The FCU is designed to replace the radiator to the radiators hot water pipes.			
Mounting	Sidewall Adapter	GB0740II	Where it's not feasible or practical to mount the HPAC 2.0 on an exterior wall, HPAC 2.0 can be mounted on a wall perpendicular to the exterior using the SWA. The SWA is recessed into the wall and includes additional fans that assist the supply and exhaust air through the bend. SWA is available in a right or left side application.		
	Underbody Cover Plate	CB0737II	When mounting HPAC 2.0 in a high-wall position, the unfinished steel underbody of the unit will be visible. The underbody cover conceals the unfinished steel with a cover plate in the same color (RAL 9003) and finish as the unit.		
	Sub Base	GB0740II	Where HPAC 2.0 can not be installed on a supporting wall such as a glass curtain wall installation, the unit can be mounted on the floor with steel support brackets. A decorative base cover in the same color and finish as the unit provides a finished look.		
	Blank Front Cover ²	COV020II	When adding a smart touch wall controller to an existing unit that includes an on-board controller, there is a dummy plate that covers the opening. For optimum aesthetics, we offer a replacement front cover without the opening for the on-board display so that there is no need for a dummy plate.		
I CDI Pawar	115 V Cord	LCDI 115	115V 15A LCDI power cord with for use with NEMA-5 plug for DP91XXXX		
LCDI Power Cords	208/230 V cords	LCDI 215 ³	208/230V 15A LCDI power cord with for use with NEMA-6 plug for DP92XXXX		
		LCDI 220 ³	208/230V 20A LCDI power cord with for use with NEMA-6 plug for DE92XXXX		
		LCDI 230 ³	208/230V 30A LCDI power cord with for use with NEMA-6 plug for DK92XXXX		
Heating	Integrated Fan Coil Unit (FCU)	COF04IC2II	For the most energy-efficient solution when replacing air conditioning and radio supplied heat, pair the HPAC 2.0 with an FCU. The Integrated FCU enables her pump during the mild winter and water based heat from a boiler during the est winter temperatures. The FCU is designed to replace the radiator by connect to the radiators hot water pipes.		

MOUNTING TEMPLATE

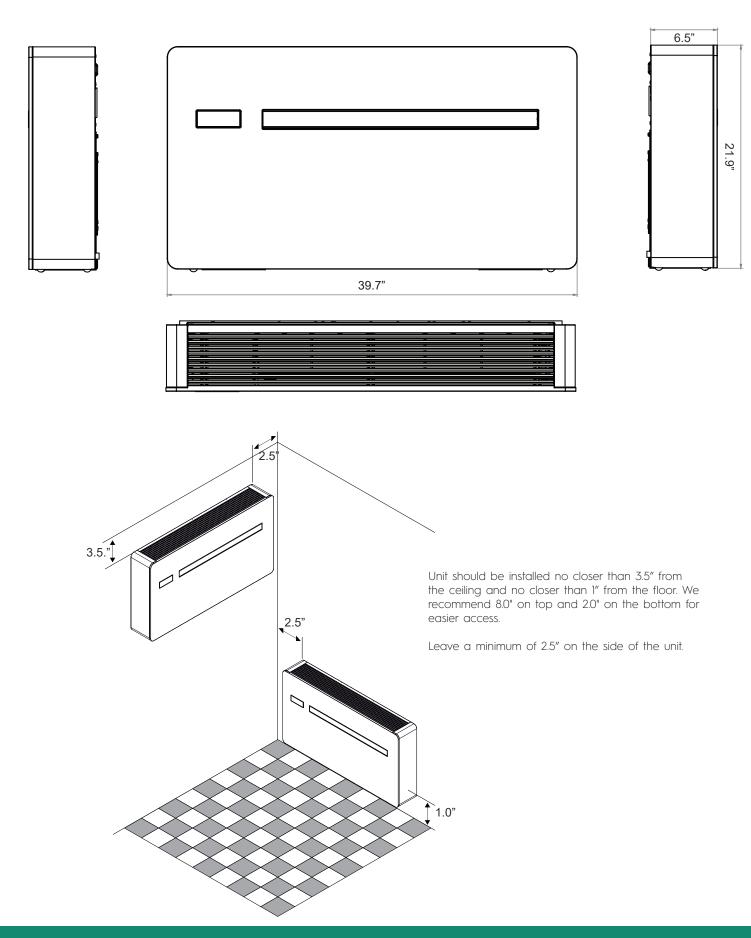


- A Holes for fastening wall bracket
- **B** Electrical connection area
- C Holes for air vent pipes
- Holes for external condensate drain
- **E** Anti-lifting bracket hole

- 1 Adjustable air louver
- 2 Touch screen display
- 3 Front cover panel
- 4 Outdoor air suction
- 5 Outdoor air outlet
- 6 Internal air intake grille
- **7** Ventilation filter
- 8 Condensate drain pipe
- **9** Temperature sensor
- **10** Power supply terminal block
- 11 Side panels
- 12 Anti-lifting bracket



DIMENSIONS







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