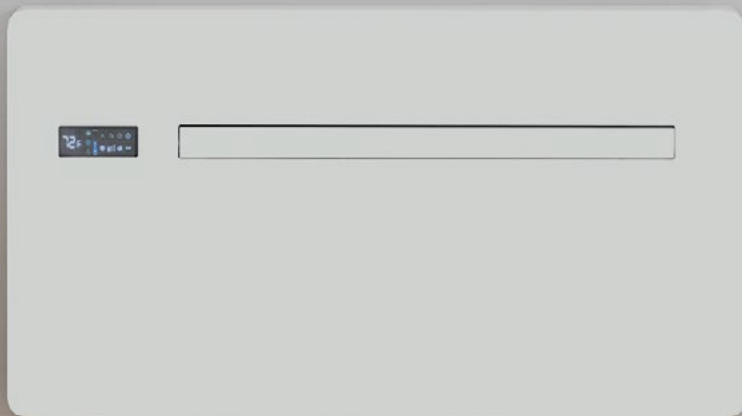


HPAC 2.0<sup>®</sup>

TECHNICAL SPECS



THE HEAT PUMP AC – WITH NO OUTDOOR UNIT<sup>®</sup>



# NOMENCLATURE

**D P 9 1 L D S O**

1 2 3 4 5 6 7 8

## Basic System

- D** HPAC 2.0 6" Vents
- S** HPAC 2.0 8" Vents
- K** HPAC 2.0 w/ Plenum Kit

## System Type

- P** Heat Pump Only
- E** Heat Pump + 900 W Resistance Heat
- K** Heat Pump + 1,800 W Resistance Heat
- F** Heat Pump with Integrated FCU

## Capacity Range

- 9** 3,100 - 10,500 BTu/h

## Voltage/Phase/Frequency

- 1** 115v / 60Hz / 1 Phase
- 2** 230/208v / 60Hz / 1 Phase

## Controller

- O** On-Board

## Corrosion Protection

- S** Standard
- C** Corrosive Environment

## Condensate Removal

- D** Disbursement System

## Power Supply

- H** Hardwire
- L** LCDI Power Cord



**NEMA5**

115V receptacle for 115V



**NEMA6**

250V receptacle for 208/230V

# PERFORMANCE WITH 6" VENTS

Model		DP91XDXO	DP92XDXO	DE92XDXO 900W Resistance Heat	DK92XDXO 1,800 W Resistance Heat
<b>Cooling</b> 80°F, W.B. 67°F; Outdoor: 95°F, W.B. 75°F	Design Capacity (Min - Max)	Btu/h	3,100 - 8,300		
	Capacity Range (Min - Max)	Btu/h	3,100 - 10,000		
	Capacity (Rated)	Btu/h	8,100		
	Input Power (Rated)	W	735		
	Input Power (Max)	W	1,060		
	Operating Range (Outdoor)	°F	23°F - 109°F		
	Energy Efficiency	EER/SEER	11.0/ 16		
	Moisture Removal	Pts/h	1.9		
	Sensible Heat Factor	%	0.86		
	<b>Heating 47°F</b> 70°F, W.B. 60°F; Outdoor: 47°F, W.B. 43°F	Design Capacity (Min - Max)	Btu/h	2,600 - 9,000	5,670 - 12,070
Capacity Range (Min - Max)		Btu/h	2,600 - 10,000	2,600 - 13,070	2,600 - 16,140
Capacity (Rated)		Btu/h	8,100	11,170	14,240
Input Power (Rated)		W	692	1,592	2,492
Input Power (Max)		W	1,060	1,960	2,860
Operating Range (Outdoor)		°F	-5°F - 75°F		
Defrost Method			Reverse Cycle		
Energy Efficiency		COP/HSPF	3.43/10.3		
Rated Capacity		Btu/h	4,800	7,870	10,940
Capacity Range (Min - Max)		Btu/h	2,600 - 5,700	2,600 - 8,770	2,600 - 11,840
<b>Heating 17°F</b> 70°F, W.B. 60°F; Outdoor: 17°F, W.B. 15°F	Input Power (Rated)	W	783	1,683	2,583
	Energy Efficiency	COP	1.80		
	Rated Capacity	Btu/h	4,100	7,170	10,240
<b>Heating 5°F</b> 70°F, W.B. 60°F; Outdoor: 5°F, W.B. 3°F	Capacity Range (Min - Max)	Btu/h	2,600 - 4,800	2,600 - 7,870	2,600 - 10,940
	Input Power (Rated)	W	753	1,653	2,553
	Energy Efficiency	COP	1.60		
<b>Sound</b>	STC	dB	37		
	OITC	dB	28		
	Indoor	dB(A)	27/33/41		
	Outdoor	dB(A)	38/45/51		

# PERFORMANCE WITH 8" VENTS

Model		SP91XDXO	SP92XDXO	SE92XDXO 900 W Resistance Heat	SK92XDXO 1,800 W Resistance Heat
<b>Cooling</b>  80°F W.B. 67°F; Outdoor: 95°F, W.B. 75°F	Design Capacity (Min - Max)	Btu/h	3,100 - 8,600		
	Capacity Range (Min - Max)	Btu/h	3,100 -10,500		
	Capacity (Rated)	Btu/h	8,100		
	Input Power (Rated)	W	680		
	Input Power (Max)	W	1,060		
	Operating Range (Outdoor)	°F	23°F - 109°F		
	Energy Efficiency	EER/SEER	11.9/ 18		
	Moisture Removal	Pts/h	1.9		
	Sensible Heat Factor	%	0.86		
<b>Heating 47°F</b>  70°F, W.B. 60°F; Outdoor: 47°F, W.B. 43°F	Design Capacity (Min - Max)	Btu/h	2,600 - 9,400	5,670 - 12,470	8,740 - 15,540
	Capacity Range (Min - Max)	Btu/h	2,600 - 10,500	2,600 - 13,570	2,600 - 16,640
	Capacity (Rated)	Btu/h	8,100	11,170	14,240
	Input Power (Rated)	W	670	1,570	2,470
	Input Power (Max)	W	1,060	1,960	2,860
	Operating Range (Outdoor)	°F	-5°F - 64.5°F		
	Defrost Method		Reverse Cycle		
	Energy Efficiency	COP/HSPF	3.54/ 11.5		
	Rated Capacity	Btu/h	5,000	8,070	11,140
<b>Heating 17°F</b>  70°F, W.B. 60°F; Outdoor: 17°F, W.B. 15°F	Capacity Range (Min - Max)	Btu/h	2,600 - 5,900	2,600 - 8,970	2,600 - 12,040
	Input Power (Rated)	W	807	1,707	2,607
	Energy Efficiency	COP	1.82		
<b>Heating 5°F</b>  70°F, W.B. 60°F; Outdoor: 5°F, W.B. 3°F	Rated Capacity	Btu/h	4,500	7,570	10,640
	Capacity Range (Min - Max)	Btu/h	2,600 - 5,400	2,600 - 8,470	2,600 - 11,540
	Input Power (Rated)	W	788	1,688	2,588
<b>Sound</b>	Energy Efficiency	COP	1.67		
	STC	dB	37		
	OITC	dB	28		
	Indoor	dB(A)	27/33/41		
Outdoor	dB(A)	38/45/51			

# ELECTRICAL, COMPRESSOR & AIRFLOW

Model		xP91xDxO	xP92xDxO	xE92xDxO 900 W Resistance Heat	xK92xDxO 1,800 W Resistance Heat	
<b>Compressor</b>	Type		BLDC Rotary Inverter			
	Brand		Panasonic			
	RLA	A	7.9	2.9		
	LRA	A	8.5	3.9		
	Refrigerant	Type		R410A		
		Oz.		21.87		
	Oil	Type		FV50S		
		Oz.		8.45		
<b>Electrical</b>	Voltage		115	208/230		
	Volt Range		110/126	197/253		
	Hz/ Phase		60 / 1			
	Power Supply		Hardwired or LCDI Power Cord			
	Power Factor		0.96			
	Cooling (Rated)	A	6.4	3.5/3.2		
	Heating - (Rated)	A	6.1	3.5/3.2	7.7/7.0	12.0/10.9
	Outdoor EC Fan Motor	F.L.A.		0.42		
		HP		1.2		
	Indoor EC Fan Motor	F.L.A.		0.23		
	MCA	A	9.3	5.1/4.6	9.4/8.5	13.8/12.4
	MOCP	A	15	15	15	20
	Input Power (standby)	W	10.8			
	Input Power (off mode)	W	1.7			
<b>Airflow</b>	Indoor	Type	EC Tangential			
		CFM	159/188/235			
		Speeds	3 and Auto			
		Control	Motorized Louver			
		dB(A)	27/33/41			
	Outdoor	Type	EC Centrifugal			
		Speeds	Fully Variable Auto			
		CFM	200/230/282			
		dB(A)	38/45/51			
		Vent	Dual 6" or 8" Inside Diameter			

# PHYSICAL DATA/ WARRANTY

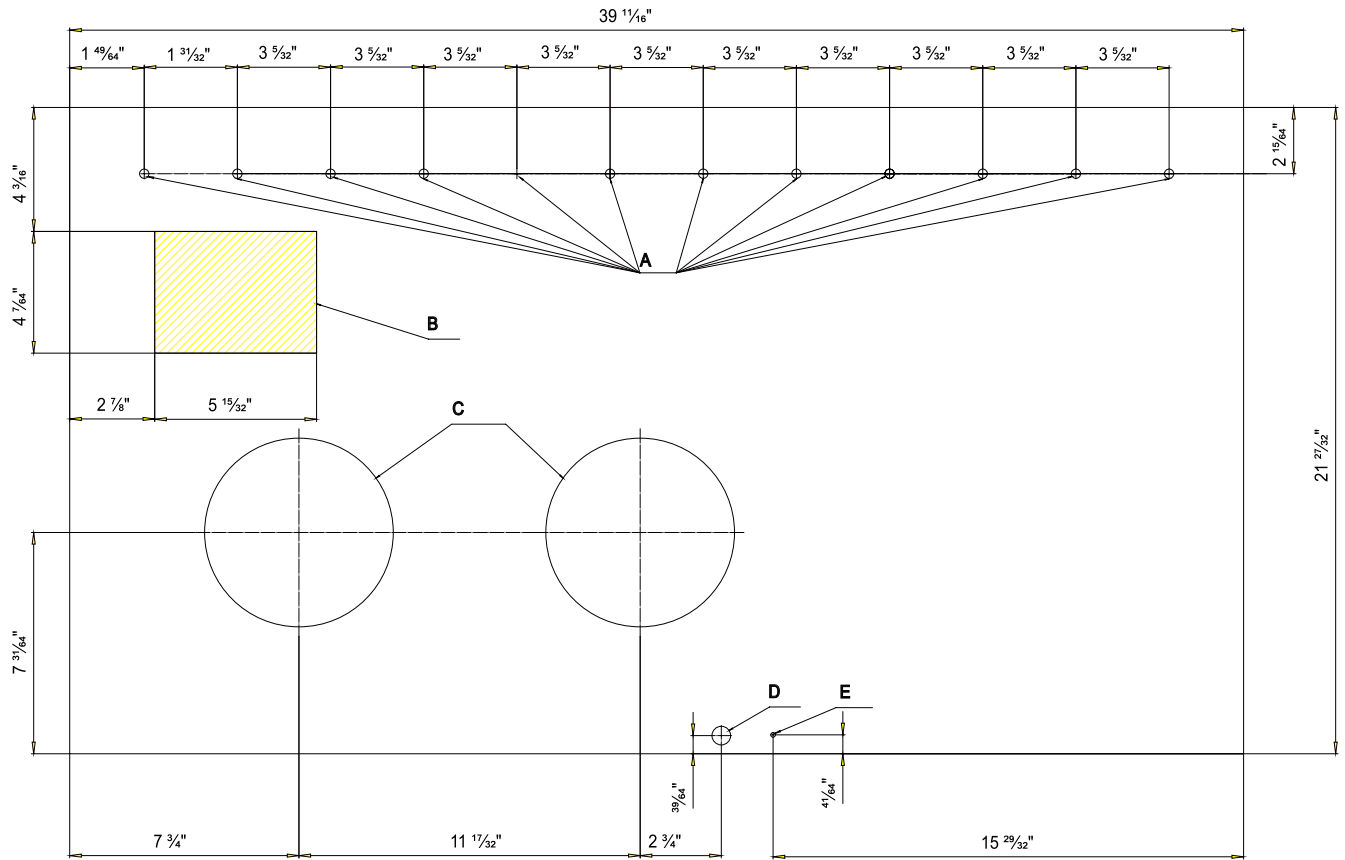
Model	ALL MODELS			
<b>Controls</b>	Basic Functionality		Backlit, Dimable, On-board Touch Controller	
	WiFi		YES	
	Third Party Controller Compatibility		Optional for Standard and Smart Thermostats	
	BACnet/Modbus Compatible		Optional	
	ADA Compliant		YES	
	Dry Contact		Connection to 3rd Party Occupancy Sensors/Hardware	
	Restricted Options		Key Pad Lock	
	Power Outage Restart		Auto-On Based On Last Setting	
<b>Modes</b>	Operation		Cool, Heat, Dehumidify, Circulation, Auto	
	Restricted Modes		Heat Only, Cool Only, Temperature Limiting	
	Timers		7-day (using included WiFi app), Sleep Mode	
<b>Air Quality</b>	Filter	Type	Lift-out, Washable Antibacterial Mesh	
	Power Supply	Class	MERV 2	
	Fresh Air		Optional HRV Available	
<b>Condensate Removal</b>	Cooling		Optional Integrated Condensate Dispersion System	
	Heating (Heat Pump)		Gravity Drain	
	Drain Pipe Size	In.	3/4	
<b>External Vents</b>	Vent Pipes		Dual 6" or 8" (Interior Diameter) Pipes	
	Grilles		Standard and Custom Options Available	
<b>Physical Data</b>	Unit	In.	39.7 W x 21.9 H x 6.5 D	
	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		
<b>Certification</b>	Safety		Field Certified to meet UL 1995 by Intertek Labs	
	Energy Efficiency		BR Labs	
<b>Warranty</b>	1 Year		Parts and Labor	
	10 Years		Parts and Labor on Compressor	
	2nd - 10 Year		Parts Only	
<b>Origin</b>	Country of Origin		Manufactured in Storo, Italy	

# ACCESSORIES

Control	Accessory Name	Model #	Description
<b>Control</b>	Wall-Mounted Basic Touch Controller	LTCH20	Simple and easy to use. The Basic Touch Controller is sleek and blends into any decor.
	Wall-Mounted Advanced Touch Screen Controller	TFTH20	For the easiest and most comprehensive control, the full-color, TFT Advanced Touchscreen Controller is the best choice. Comprehensive programming offers multiple on/off settings for each day. Selection is simple and intuitive.
	Third Party Thermostat Gateway	TPG015	Allows for connection to any third party standard or smart thermostat includes R, C, Y, W, G1, G2, G3 and 24V power terminals.
	Handheld Wireless Controller	WRCH20	For simple control from anywhere in the room, the Handheld Wireless Controller offers the same options as the onboard touch controller
	BACnet Gateway	BACH20	Enables connection to BACnet systems with IP/MSTP gateway
<b>Mounting</b>	Sidewall Adapter	GB07401I-R GB07401I-L	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	CB07371I	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	GB07401I	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	COV0201I	For optimum aesthetics, we offer a replacement front cover without the opening for the on-board display when using with a wall controller. This is a special order part requiring a minimum of 250 pieces.
<b>LCDI Power Cords</b>	115 V Cord	LCDI 115	115V 15A LCDI power cord with for use with NEMA-5 plug for xP91xxxx
	208/230 V cord	LCDI 215	208/230V 10A LCDI power cord with for use with NEMA-6 plug for xP92xxxx
		LCDI 220	208/230V 15A LCDI power cord with for use with NEMA-6 plug for xE92xxxx
		LCDI 230	208/230V 20A LCDI power cord with for use with NEMA-6 plug for xK92xxxx
<b>Heating</b>	Integrated Fan Coil Unit (FCU)	COF04IC21I	For the most energy-efficient solution when replacing air conditioning and radiator supplied heat, pair the HPAC 2.0 with an FCU. The Integrated FCU enables heat pump during the mild winter and water based heat from a boiler during the coldest winter temperatures. The FCU is designed to replace the radiator by connecting to the radiators hot water pipes.
	Electric Resistance Heat Strip	E	1 kW heat strip integrated inside the HPAC 2.0 for supplementary heat
K		2 kW heat strip integrated inside the HPAC 2.0 for supplementary heat	
<b>Fresh Air</b>	Integrated Fresh Air HRV	GR07651I	For bringing 15 CFM of fresh air with heat recovery. The HRV is powered by the HPAC 2.0.



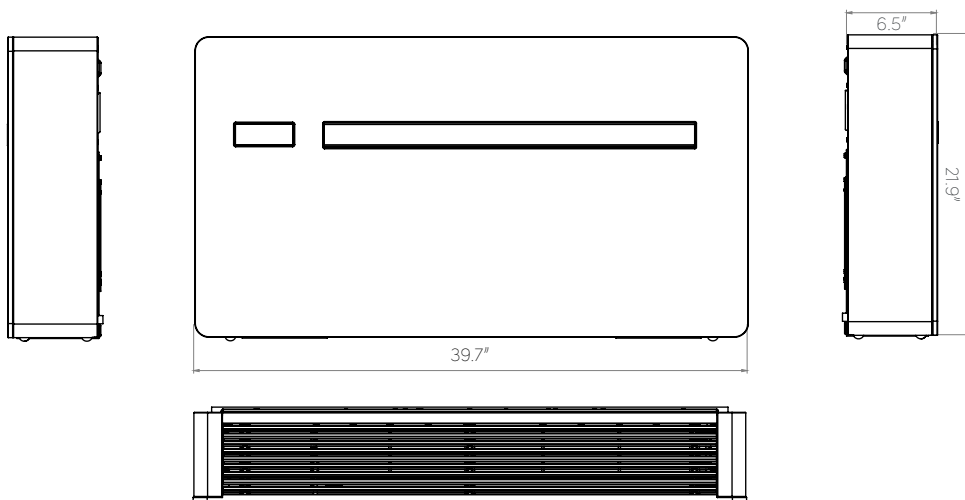
# MOUNTING TEMPLATE



- A** Holes for fastening wall bracket
- B** Electrical connection area
- C** Holes for air vent pipes 6" or 8"

- D** Holes for external condensate drain
- E** Anti-lifting bracket hole

## DIMENSIONS



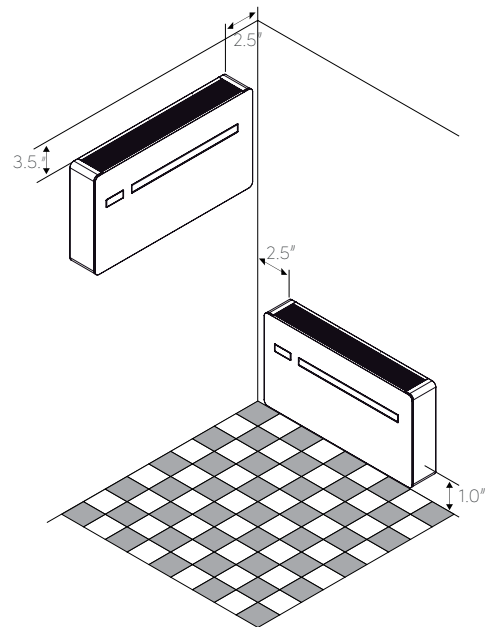
## CLEARANCES

The only clearance the HPAC 2.0 requires is 3.5" on the top of the unit to the ceiling so that the air can be returned to the unit through the grille on the top.

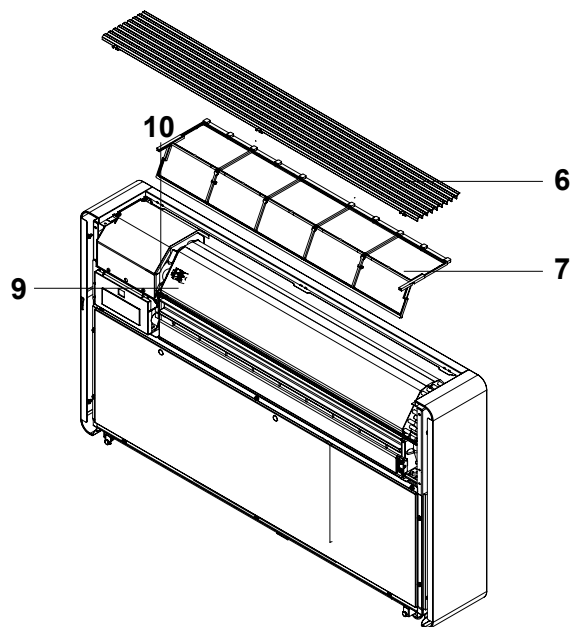
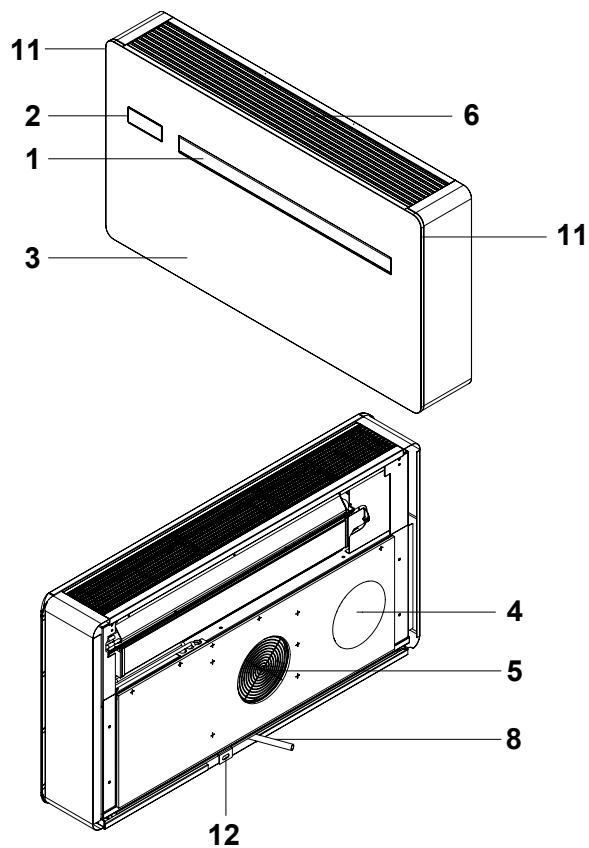
We highly recommend as close to 8" as possible from the top of the unit to the ceiling for ease of changing the filter and accessing the unit.

The HPAC should not touch the wall on either side as it will vibrate slightly during operations and that will create noise, even 1/2" will suffice. However, we highly recommend 2.5" on the side for easier access.

We recommend mounting HPAC 2.0 at least 1" from the floor and closer to 2" to allow the floor to be cleaned under the unit.



# PARTS



- 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



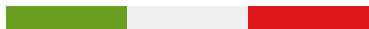
**USA**

(216) 710-1000

info@ephoca.com

**ephoca.com**

**Ephoca is the US subsidiary of Innova SRL - Via 1° Maggio, 8 – 38089 Storo (TN) Italy**



MADE IN ITALY

© 2021 Ephoca Inc. v21/1