



**Johnson
& Starley**

Dravo
Division

ONEPLUS Air Handling Unit (19 - 92 kW)



OnePlus series new packaged air handling units are the latest offering from *Dravo*. These units have been designed and developed to guarantee installation flexibility inside or outside buildings where air conditioning is required. At the heart of the OnePlus units is a modulating heat generator, including a premixed burner with low NO_x output and double inlet centrifugal fans. Static pressures range from 200 to 400 Pa, thus allowing maximum flexibility in designing ducted systems. OnePlus air handling units can include filters, mixing boxes, dampers and conditioning units in both internal (PLA) or external (PLE) models.

Clean Combustion

The burners installed in the OnePlus units are fully pre mix air and gas. A regulating heat output device is also installed. This results in:

- No emissions of carbon monoxide (CO = 0).
- Very low emission of nitrogen oxides, below 30 ppm (NO_x < 30 ppm).
- Low emission of carbon dioxide, thanks to high combustion efficiency and reduction of fuel consumption due to heat output modulation.

Fuel Savings up to 30%

High combustion efficiency, up to 94 % (on net calorific value), continuous modulation of heat output, and minimised stratification of warm air allow fuel savings up to 30%, in comparison to traditional "ON/OFF" heating systems.

Cooling Units

Cooling coils can be installed in the OnePlus units to meet comfort requirements both in winter and summer.

Ease of Installation

The equipment only needs to be connected to gas supply and wired to 230V/400V/50 Hz power supply.

- **94% MAX EFFICIENCY**
- **30% ENERGY SAVING**
- **VERY LOW NO_x < 30ppm**
- **NO EMISSIONS OF CARBON MONOXIDE (CO = 0)**
- **FULLY MODULATING PRE-MIXED BURNER**
- **SEALED COMBUSTION CIRCUIT**



TECHNICAL FEATURES

Model		PLA024 PLE024		PLA032 PLE032		PLA035 PLE035		PLA054 PLE054		PLA072 PLE072		PLA092 PLE092	
		min	max	min	max	min	max	min	max	min	max	min	max
Air Flow	m ³ /h	3300		3300		3300		5800		7500		9500	
Static Pressure	Pa	200	400	200	400	200	400	200	400	200	400	200	400
Nominal Capacity	kW	20	26.5	24	34.8	25.5	38.8	40	58	58	78	75	100
Nominal Power Output	kW	18.8	24.4	22.6	31.5	24	35	37.6	53.0	54.5	71.5	70.5	92
Efficiency	%	94	91.9	94	90.5	94	90.1	94	91.4	94	91.7	94	92
Cooling power of direct expansion coil *	kW Circuit No. Δp air	20.6		20.6		20.6		41.7		56.0		75.0	
		1/143 Pa		1/143 Pa		1/143 Pa		2/135 Pa		2/167 Pa		2/120 Pa	
Water Coil Cooling Power **	kW Δp air	20.4		20.4		20.4		40.6		54.6		76.4	
		143 Pa		143 Pa		143 Pa		181 Pa		180 Pa		132 Pa	
Air inlet/exhaust flue pipe Ø	mm	80/80		80/80		80/80		80/80		100/100		100/100	
Flue exhaust pressure	Pa	50		90		90		120		120		120	
Fan type		Single		Single		Single		Double		Double		Double	
Fan Motor (200 Pa – 400 Pa)	kW	0.75	1.1	0.75	1.1	0.75	1.1	1.5	2.2	2	3	3	4
Power supply	V	230V/50Hz/1ph		230V/50Hz/1ph		230V/50Hz/1ph		400V/50Hz/3ph		400V/50Hz/3ph		400V/50Hz/3ph	

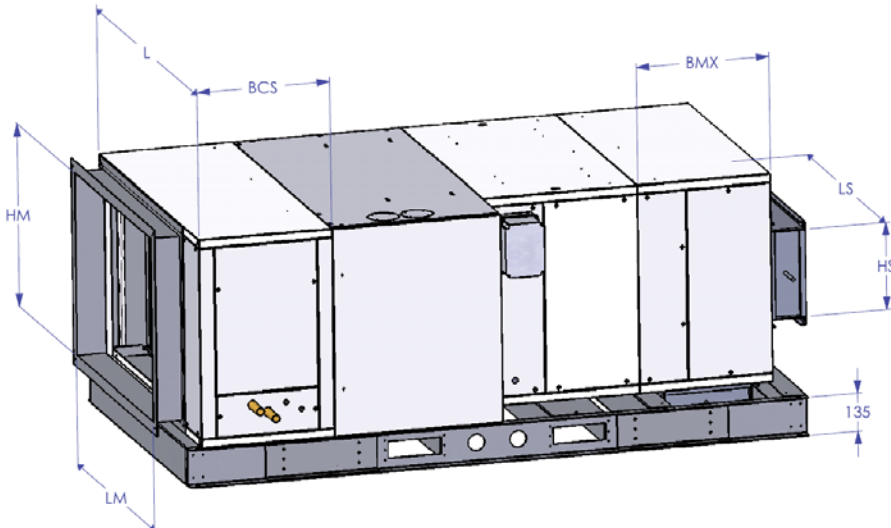
*Values calculated with the following parameters: R407c refrigerant, flash point 7°C and condensation temperature 45°C. Inlet air conditions: 27°C with RH = 50%.

** Values calculated with the following parameters: Inlet water temperature = 7°C, outlet water temperature = 12°C. Inlet air conditions: 27°C with RH = 50%.

DIMENSIONS

Model	Size				Outlet			Intake	
	B	H	L	BB	LB	HM	LM	HA	LA
PLA024	1160	650	900	1260	940	500	600	590	570
PLA032	1160	650	900	1260	940	500	600	590	570
PLA035	1160	650	900	1260	940	500	600	590	570
PLA054	1160	740	1240	1260	1280	650	950	680	910
PLA072	1315	810	1400	1415	1440	650	1050	750	1050
PLA092	1315	810	1950	1415	1990	650	1500	750	1600

Dimensions of PLE external versions are the same of PLA internal versions, except for H (height), which is 30 mm higher because of the roof.



Model	Coil	Mixing Box			
		BCS	BMX	Damper	
				HS	LS
PLA024	480	480	310	600	
PLA032	480	480	310	600	
PLA035	480	480	310	600	
PLA054	480	480	310	900	
PLA072	480	480	310	1000	
PLA092	480	480	310	1500	



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