

## Air Source Heat Pump and DHW packages — LAB 9 M

### Key Features

Comprehensive package delivering all of the heating and domestic hot water production requirements for a small single household; comprised of:

- LAB 9 M air source heat pump
- Unvented domestic hot water cylinder with buffer tank
  - 150l cylinder with 75l buffer or
  - 225l cylinder with 100l buffer options
- 4kW inline flow boiler
- Control pack
- Circulation pump
- Connection hoses



### Technical Specifications

Heat Pump — LAB 9 M	
Operating limits	
Heating water system/return °C	52
Air °C	-15 to +25
Performance	
Heat output A7/W35 (kW)	9.5
CoP A7/W35	3.66
Heat output A2/W35 (kW)	7.1
CoP A2/W35	2.8
Physical/mechanical/electrical	
Dimensions H x W x L (mm)	1000 x 931 x 367
Weight (kg)	90
Sound pressure level at 1m dB(A)	55.5
Heating water flow with internal pressure differential	1.6m <sup>3</sup> /hr @ 5700Pa
Air flow (m <sup>3</sup> /hr )	3450
Nominal voltage (V)	230 / 1 phase
Starting current with soft start (A)	32
Nominal running current (A)	24.5
Defrosting	Automatic, reverse cycle
Refrigerant: type/total charge weight (kg)	R407C / 2.94
Circulation Pump—UP60	
Nominal width	DN 25
Max delivery height (m)	3.5
Max flow rate (m <sup>2</sup> /h)	2.0
Weight (kg)	2.4

Unvented DHW cylinder with buffer tank		
Model	CCX150/75	CCX225/100
Nominal volume (l)	150	225
Useable capacity (l)	150	225
Buffer volume (l)	75	100
Height (mm)	1650	2000
Diameter (mm)	570	620
Heat exchanger surface area (m <sup>2</sup> )	2.8	3.0
Buffer immersion	No	No
Cladding	Metal	Metal

Controls Package—DIMP18	
1	Mains powered programmable thermostat
1	Electric 7 immersion heater controller
1	28mm 2 port motorised valve
1	Wiring centre

Kit contents	
LAB 9 M	9kW ASHP
CCX150/75 or CCX225/100	150l cylinder c/w 75l buffer, steel clad 225l cylinder c/w 100l buffer, steel clad
ILFB4	4kW in line flow boiler
SAS110	Flexible connection hoses
UP60	Circulation pump
Dimp18	Controls package
VT9	Anti vibration feet