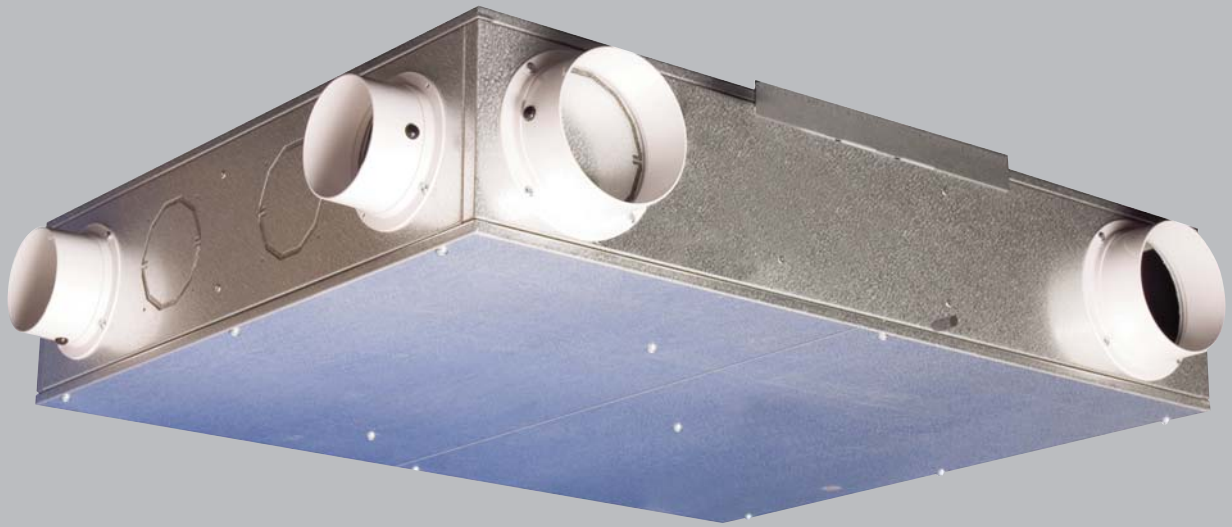


▶ LPXBOXDC-2
LOW PROFILE
HEAT RECOVERY
FOR APARTMENTS

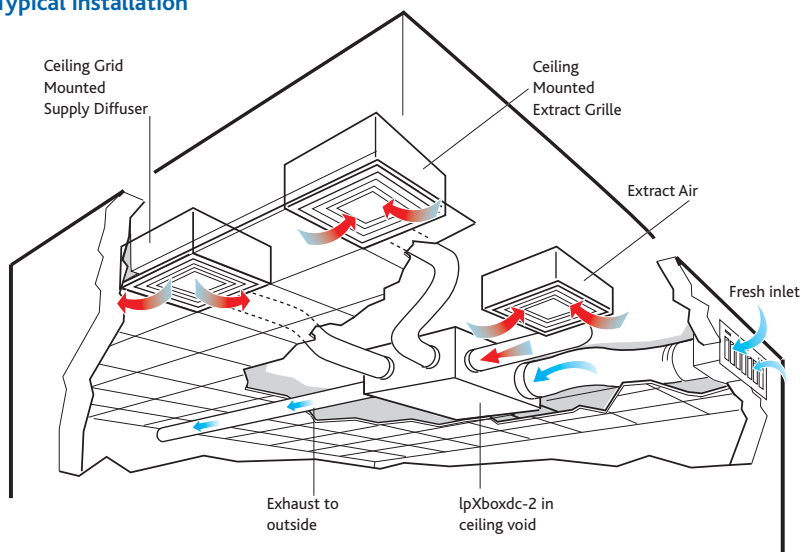


Very low depth heat recovery unit
with multiple spigots.

BENEFITS

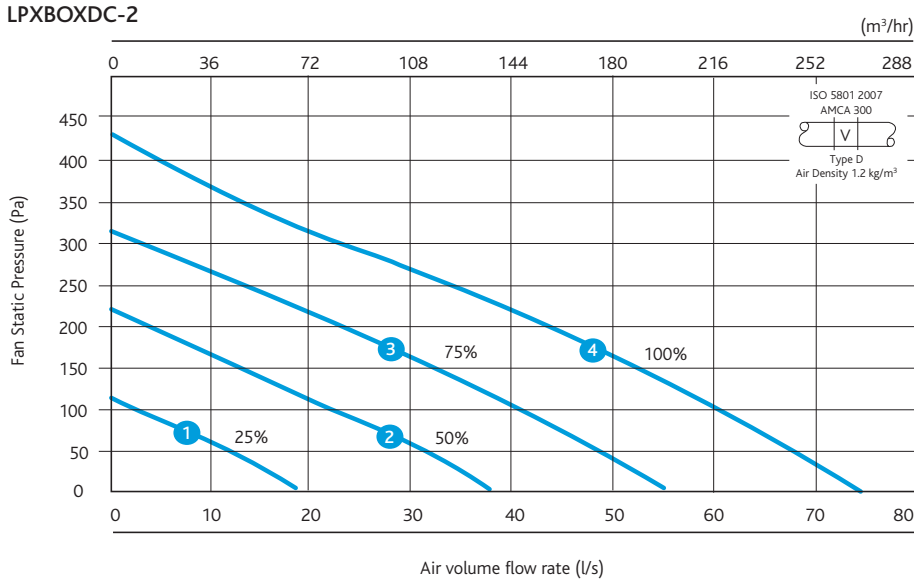
- Very low depth - within ceiling fitting**
 185mm, ideal for applications where space is at a premium.
- Low noise levels**
 Acoustic lining ensures unit is ideal for applications where noise is an issue.
- High efficiency**
 Heat exchanger is up to 70% effectiveness with low energy DC motors and components help to minimise electrical energy consumed.
- Simple commissioning**
 'Dial a duty' allows exact duty to be selected.
- Low maintenance costs**
 Aluminium heat exchanger block and drip tray are easily accessible for quick and easy access.
- Quick installation**
 Single point bracket ideal for quick 1st and 2nd fix.
- Healthy environment**
 Removes up to 95% of the dust from the atmosphere.
- Advice and installation service**
 Please contact Nuaire on 02920 858 200 (or email drawings@nuaire.co.uk) for advice on ventilation solutions and installation service.
- Multiple spigot options**
 Easy installation position.
- Flexible condensate**
 Condensate drain option, either left or right hand side.
- 5 year warranty**
 For peace of mind.

Typical installation

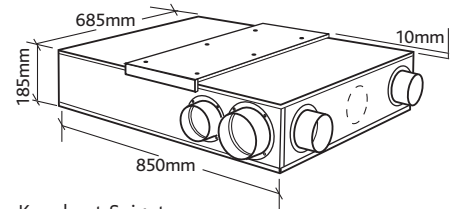


Knockout spigots.

Performance LPXBOXDC-2



Dimensions (mm) LPXBOXDC



Knockout Spigots
4 x 125mm dia. 6 x 100mm dia.

Code descriptions

LP - XBOX - DC-2



- 1. Low profile
- 2. Range
- 3. Direct current

LPXBOXDC-2

ELECTRICAL, SOUND & WEIGHT

Curve	Ref	**W	FLC amps		Sound figures Induct sound power level re 1pW							Breakout dBA @3m	Weight Kg
					125	250	500	1K	2K	4K	8K		
1 (25%)	Supply fan	5	0.05	Inlet	29	31	28	15	16	7	2	15	25
				Outlet	19	26	23	14	8	4	4		
	Extract fan	5	0.05	Inlet	18	26	17	7	4	5	5	15	
				Outlet	35	39	43	34	34	26	16		
2 (50%)	Supply fan	17	0.1	Inlet	45	47	44	31	32	23	15	29	
				Outlet	35	42	39	30	24	12	9		
	Extract fan	17	0.1	Inlet	34	42	33	23	19	9	9		
				Outlet	51	55	59	50	50	42	32		
3 (75%)	Supply fan	51	0.3	Inlet	55	57	54	41	42	33	25	38	
				Outlet	45	52	49	40	34	22	19		
	Extract fan	51	0.3	Inlet	44	52	43	33	29	19	19		
				Outlet	61	65	69	60	60	52	42		
4 (100%)	Supply fan	120	0.7	Inlet	62	64	61	48	49	40	32	44	
				Outlet	52	59	56	47	41	29	26		
	Extract fan	120	0.7	Inlet	51	59	50	40	36	26	26		
				Outlet	68	72	76	67	67	59	49		

*Fans are programmed with a soft start, therefore starting current is the same as the FLC. Please note step curves shown are for information purposes only and are not individual units. The units actual duty range is infinitely variable. **W = Watts are total power consumption.

Wiring - LPXBOXDC-2

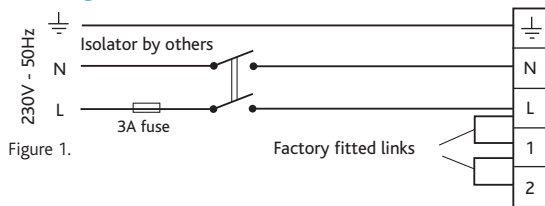


Figure 1. Basic wiring. Both supply and extract will run at constant speed. The fan duty is controlled via the 'Boost' setting.

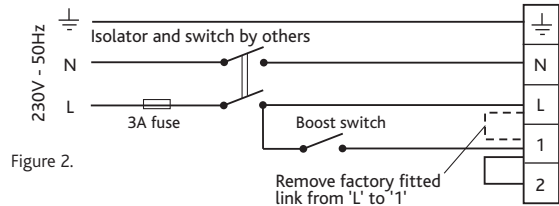


Figure 2.

Figure 2. Trickle and Boost operation. Both supply and extract will run at trickle and boost speed together. Closing the boost switch will cause both fan to run at boost setting.

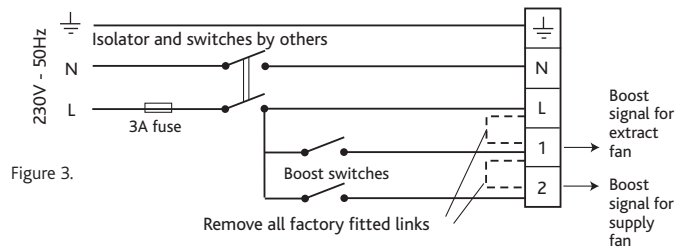


Figure 3.

Figure 3. Wiring for independent boost. The supply and extract fan will trickle and boost independently.

Download full wiring details from www.nuairegroup.com/specifications

LPXBOXDC-2

Consultants Specification

Operation

The supply and extract ventilation unit shall be as indicated on the drawings and shall be in accordance with the particular fan schedule in the specification. The ventilation unit shall automatically vary the ventilation rate, as it receives signals from one of the optional interconnected sensors. When signals are received, the fan shall either vary its speed proportionally or on a trickle and boost principle.

The unit shall have the facility to commission the supply and extract fans individually via inbuilt minimum and maximum speed adjustment, the fans themselves shall have infinitely variable speed control.

LPXBOXDC-2 unit specification

The fans shall be acoustically lined with high density class "O" flame retardant insulation, giving extremely low noise levels. The unit shall have a heat exchanger block manufactured from aluminium with a thermal efficiency of approximately 70% which shall be protected by G2 grade filters on supply and extract. It shall come complete with a condensate drip tray and 22mm drain connection, integral minimum and maximum speed controls, run on timer and fascia mounted failure indication. The breakout noise level and power requirements shall be as detailed by the unit manufacturer and as detailed in the ventilation equipment schedule. The unit shall have low energy, high efficiency d.c. fan/motor assemblies with sealed for life bearings. The depth of the low profile unit shall not be greater than 185mm and shall incorporate a low profile single point mounting bracket, (allow 10mm for bracket).

The unit shall be constructed with one removable panel allowing full maintenance access to all components. To facilitate the interconnection of branch ducts the unit shall have multiple spigot connections with integrated balancing dampers. Spigot connections provided.

LPXBOXDC-2 control options

All versions shall have the following functions integrally mounted within the fan unit on a purpose made PCB, all such components pre-wired and factory fitted by the manufacturer: -

- Integral speed control on supply and extract.
- Integral background ventilation control/set point.
- Integral boost ventilation control/set point.
- Integral run on timer.
- Volt free failure indication (direct from individual fan).
- Integral S/L terminal for boost from remote switch, e.g. light switch.

Units shall be the lpXboxdc-2 as manufactured by Nuaire.

The standard warranty for lpXboxdc series shall be for 5 years.