



Our most advanced unit heater
combining form, function and
ErP compliance.

The all new LNVx.

LNVx

Suspended Warm Air Unit Heater

Natural Gas & LPG Fired Options



LNVx Suspended Warm Air Ur

ErP Compliance

As from September 2018 the scope of the current Ecodesign regulation (EU) 2015/1188, Directive 2009/125/EC - Lot 21 Tier 1 (ErP) regulation is widened to embrace maximum levels of Nitrous Oxide (NOx) emissions.

All warm air heaters used to provide comfort for the occupants of a heated space and fuelled by either natural or LPG (Propane) gases must emit NOx levels less than 100 mg/kWh. Compliance to the standard remains mandatory.



Product Features



REDUCED NOx
TECHNOLOGY



COMPACT &
RIGID DESIGN



EASY ENGINEERS
ACCESS



ANTI-VIBRATION
MOUNTS



OPTIMISED Kw
OUTPUT RANGE

Compact Efficient Compliant

The all new LNVx from Powrmatic

The new ErP compliant suspended LNVx range of unit heaters from Powrmatic benefits from a redesign throughout its entire construction, performance and aesthetics including the new RAL 7015 colour scheme.

Our most advanced LNVx is ergonomically designed with low NOx levels which provides efficient and cost effective heating solutions for any industrial and commercial properties whilst built with heating engineers in mind.

Models Available

- LNVx F - Axial Fan Crossflow Units
- LNVx CCF - Centrifugal Close Coupled Fan Units
- LNVx V - Axial Fan Downflow Units
- LNVx D - Ducted No Fan Unit
- LNVx Duo - Axial Fan Bi-Directional Units



Reduced NOx Levels

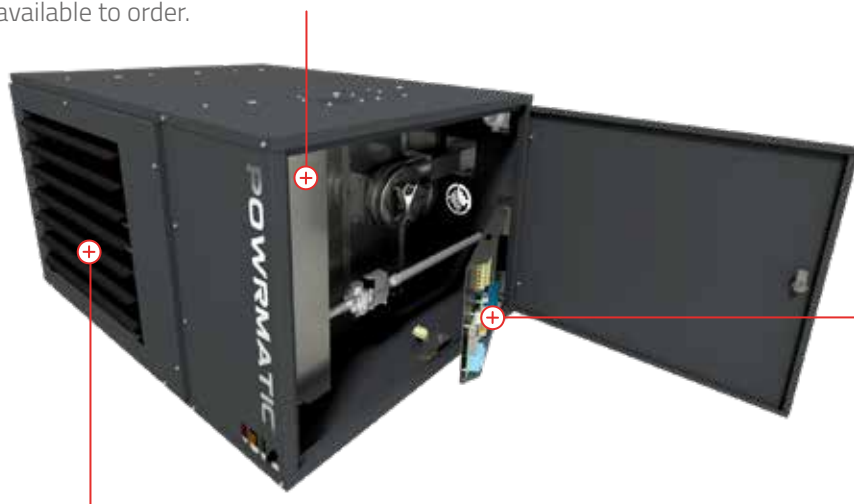
Powrmatic's LNVx range of gas fired unit heaters are a development of the successful NVx range already familiar to installers and users alike and comfortably meets new NOx criteria as well as the minimum seasonal efficiencies demanded by the standard since January 2018.

Compact & Rigid Construction

The LNVx range is reduced in its overall size allowing for smaller space installations whilst still producing the same required kW power and performance. The LNVx shell has been redesigned with more folds to increase the heaters strength and rigidity throughout. As standard the heater is finished with the new RAL 7015 polyester powder coat stove baked paint.

Burners

Multi in-shot burners matched to each tube assembly and manifolded to a common gas valve and ignition system, itself complete with flame monitoring and safety controls and supplied ready for use with natural gas (G20). Alternative LPG propane (G31) firing available to order.



Anti Vibration Mounts

The LNVx axial fans are now manufactured with anti-vibration mounts which reduces vibration and noise in any environment allowing the unit to operate more quietly and efficiently.

Easy Access Control Panel

The LNVx has been designed with engineers in mind. The hinged control panel allows easy access to the burner compartment during installation and servicing. The new 'Plug & Play' control panel allows for quick and trouble free wiring connections when on site.

Optimised Range & Heat Exchanger Options

The LNVx range has been optimised enabling environmental designers to match outputs and airflow characteristics with a wide variety of differing buildings and applications

The Four pass tubular assembly manufactured from aluminised steel formed, swaged and expanded without recourse to stress inducing welding. 409 and 316 grade stainless steel options available.

Approvals

LNVx heaters are type tested and CE approved. In addition LNVx heaters made available to the market from September 2018 onwards comply with the requirements of the Directive 2009/125/EC - Lot 21 Tier 1.



Technical Specification

LNVx

Model			15	20	25	35	40	45	50	60	70	90	120	140	
Output (nominal)	High Fire (max)	kW	14.5	19.0	24.0	34.0	37.5	44.0	50.5	60.0	70.5	90.0	118.5	137.0	
	Low Fire (min)	kW	8.6	12.7	16.3	23.8	25.5	29.8	33.9	40.8	47.8	65.3	83.5	93.3	
Input (nett CV)	High Fire (max)	kW	15.5	20.5	26.0	36.5	40.5	47.0	54.5	65.0	76.5	97.5	127.0	146.0	
	Low Fire (min)	kW	9.53	14.07	18.16	26.08	28.17	32.46	37.41	45.07	52.91	71.65	90.83	101.16	
Airflow Volume	LNVx F/CCF/V		m³/s	0.42	0.56	0.78	1.11	1.18	1.51	1.51	1.83	1.94	2.81	3.56	3.75
	LNVx D	Min	m³/s	0.42	0.56	0.78	1.11	1.18	1.51	1.51	1.83	1.94	2.81	3.56	3.75
		Max	m³/s	0.46	0.62	0.86	1.22	1.30	1.67	1.67	2.02	2.14	3.09	3.91	4.13
Airflow	Throw	LNVx F	m	10.0	14.0	20.0	28.0	30.0	38.0	38.0	47.0	49.0	71.0	91.0	96.0
	Fan Static	LNVx CCF	Pa	220	320	220	N/A	150	250	250	250	250	180	290	250
Electrics	Supply	Standard	V/ph/Hz	230/1/50											
		Optional*	V/ph/Hz	400/3/50 *on Centrifugal Units Only, 3Ph units shown in brackets ()											
	LNVx F	Run	amp	0.40	0.45	0.52	1.14	0.85	1.53	1.57	2.30	2.20	3.06	4.35	4.45
	LNVx CCF	Start	amp	5.0	8.5	13.3	N/A	18.0	26.3	26.3	29(16.5)	N/A(18)	31.0	40(14.9)	44(16.8)
Run		amp	2.0	3.1	4.2	N/A	5.8	7.6	7.6	10(4.8)	N/A(5.3)	12.8	17(4.6)	20(4.9)	
Fuel	Connection		BSP/Rc	¾"											
	Nominal Inlet Pressure	Nat Gas	mbar	20.0											
		LPG	mbar	37.0											
	Consumption	Nat Gas	m³/h	1.64	2.17	2.75	3.86	4.29	4.97	5.77	6.88	8.10	10.32	13.44	15.45
LPG		m³/h	0.63	0.83	1.06	1.52	1.66	1.90	2.20	2.65	3.16	4.01	5.10	5.90	
Mounting Height	LNVx F/Duo Crossflow	Min	m	2.5			3.0								
		Max	m	3.0			5.0								
	LNVx V Downflow	Min	m	4.0				5.0				6.0			
		Max	m	6.0			7.0			8.0			10.0	12.0	
Overall Dims	LNVx F	Height	mm	430	500	570	532	720	684	684	760	912	810	975	1140
		Width	mm	997	997	997	1325	997	1325	1325	1325	1325	1950	1950	1950
		Depth	mm	800	869	819	918	839	938	938	915	915	938	915	915
Install Clearance	LNVx F	Top	mm	200											
		LH Side	mm	200											
		RH Side	mm	1000											
		Rear	mm	400											
Flue	Diameter		mm Ø	80	80	80	100	100	100	100	130	130	130	130	130
	Max Length	Flue Only	m	12											
		Room Sealed	m	6											
Combustion Air Spigot			mm Ø	80	80	80	100	100	100	100	130	130	130	130	130
Noise Levels	LNVx F	dB(A)	48	47	47	50	58	59	59	60	60	63	64	64	
	LNVx CCF	dB(A)	55	55	54	N/A	60	60	61	62	62	66	67	67	
Nett Weight	LNVx F	kg	59.5	73.0	76.5	84.0	103.	122	122	135	149	202	238	286	
	LNVx CCF	kg	71.0	83.6	86.4	N/A	122	143	143	170	213	329	364	430	
Model			15	20	25	35	40	45	50	60	70	90	120	140	

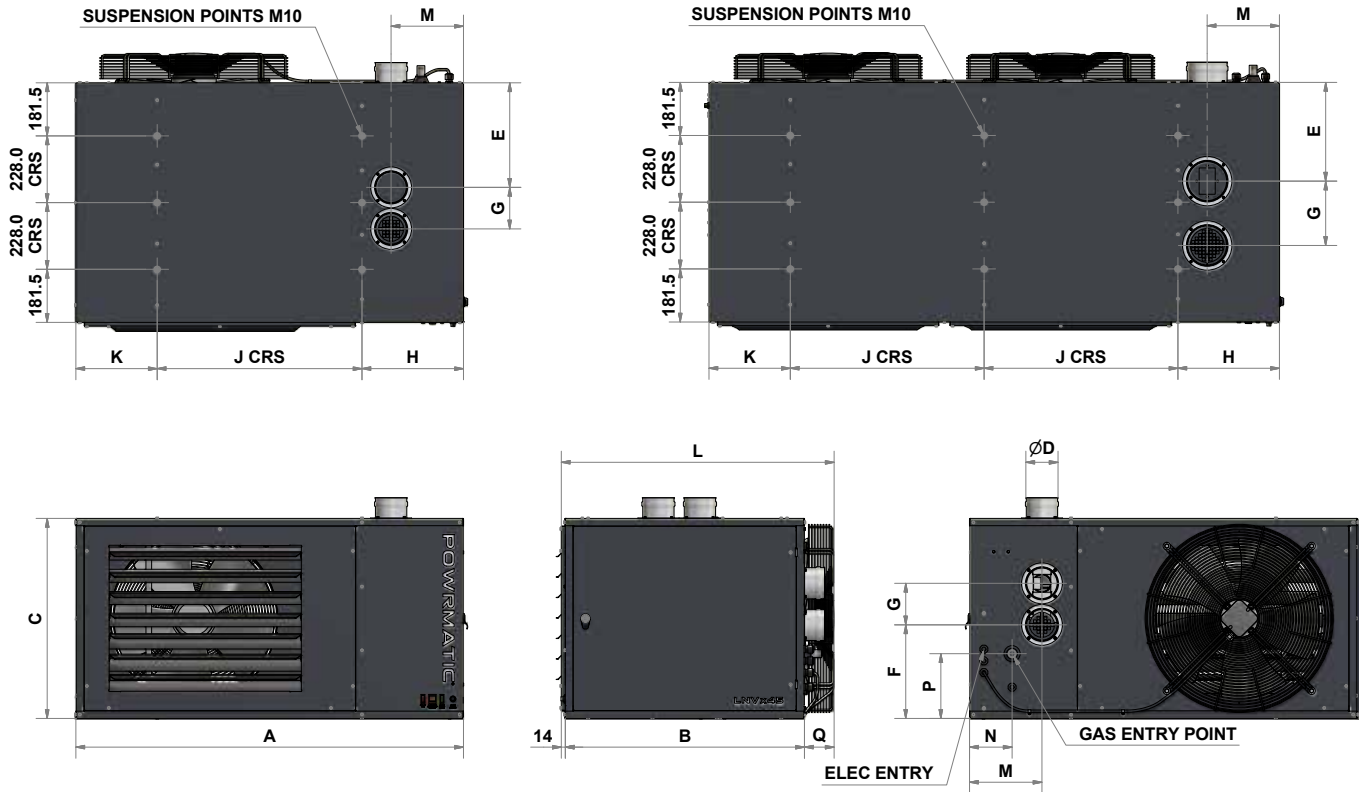
Notes:

- Fuel Consumption and input figures based upon nett calorific values as follows: - Natural Gas (G20) nett CV 34.02 MJ/m³ - Propane (G31) nett CV 88.00 MJ/m³
- Heaters have efficiency levels which meet with the minimum heater efficiency requirements of UK Part L Building Regulations.
- LNVx heaters comply with the seasonal efficiency and NOx limits requirements of the Ecodesign regulation (EU) 2015/1188, Directive 2009/125/EC – Lot 21 Tier 1 Standard heaters configured as High/Low. Optional modulation available.
- Air handling data is assessed at room ambient conditions
- Throw figures provide the distance to the point where the terminal velocity degrades to 0.25m/s

- Dimensions, weights and clearance data in the table above refer to LNVx F units only - for all other model data refer to the dimensions page and/or the installation instructions
- Noise levels are applicable to standard LNVx F and LNVx V models and are measured 5m from appliance in a free field.
- Motor kW, run and start amps apply to standard electrical supply as stated. For optional data contact sales office
- Optional 3 phase direct drive centrifugal blowers shown in italics within brackets()
- Connection of combustion air duct is not required for 'flue only' applications
- It is the responsibility of the installing contractor to ensure that ductwork is correctly sized and balanced when installing LNVx centrifugal units.

Dimensions

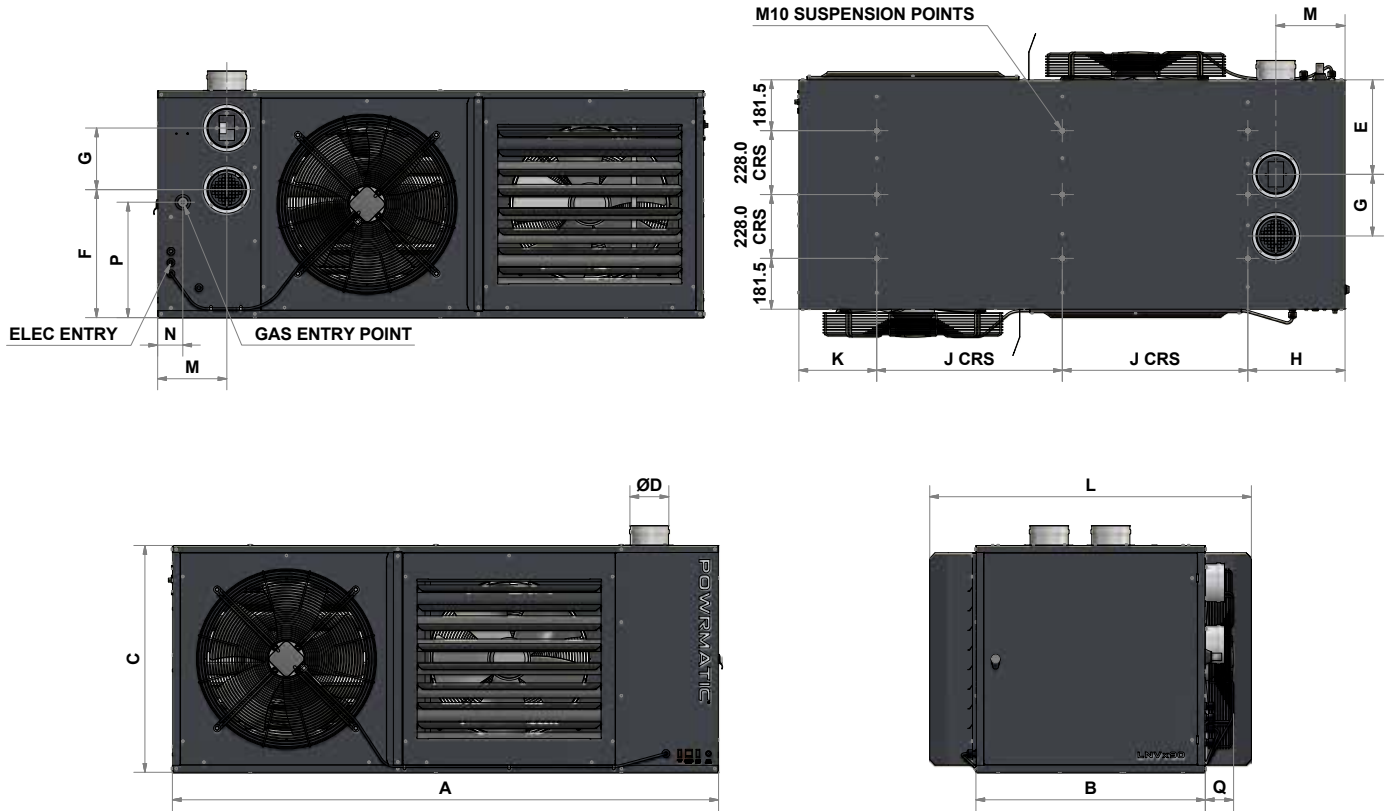
LVN_x F- Freeblowing



Model		15	20	25	35	40	45	50	60	70	90	120	140
A	mm	997	997	997	1325	997	1325	1325	1325	1325	1950	1950	1950
B	mm	700	730	730	819	730	819	819	819	819	819	819	819
C	mm	430	500	570	532	720	684	684	760	912	810	975	1140
DØ	mm	80	80	80	100	100	100	100	130	130	130	130	130
E	mm	248	268	268	357	268	357	357	357	357	337.5	337.5	337.5
F	mm	198.5	248	318	225	446	320	325	325	476	457	622	787
G	mm	120	120	120	142	142	142	142	220	220	220	220	220
H	mm	317	317	317	347	317	347	347	347	347	347	347	347
J	mm	450	450	450	700	450	700	700	700	700	662.5	662.5	662.5
K	mm	230	230	230	278	230	278	278	278	278	278	278	278
L	mm	800	869	819	918	839	938	938	915	915	938	915	915
M	mm	217.5	217.5	217.5	247.5	217.5	247.5	251	237	237	247	247	247
N	mm	117	117	117	145.5	117	145.5	145.5	145.5	145.5	90	90	90
P	mm	175	172	245	220	285	221.5	221.5	298	373.5	412	413	481
Q	mm	86	125	75	85	95	105	105	82	82	105	82	82

Dimensions

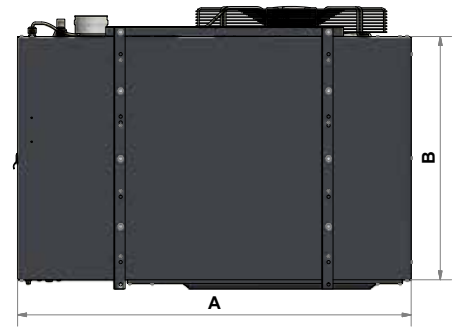
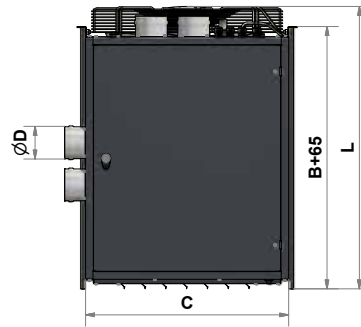
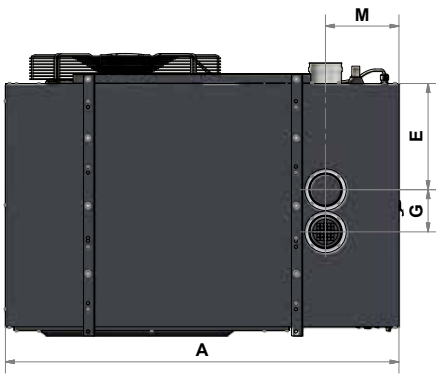
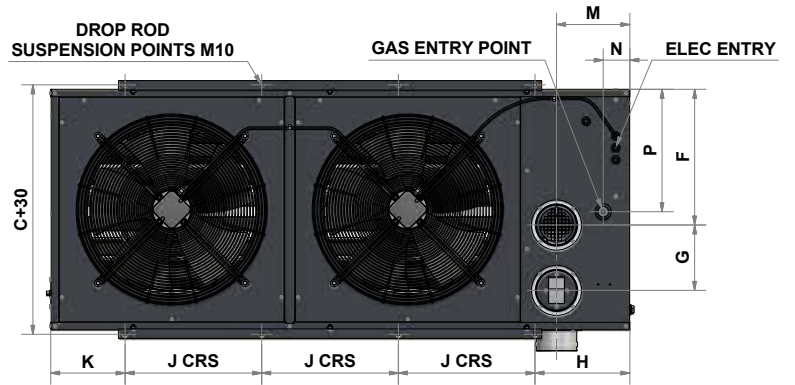
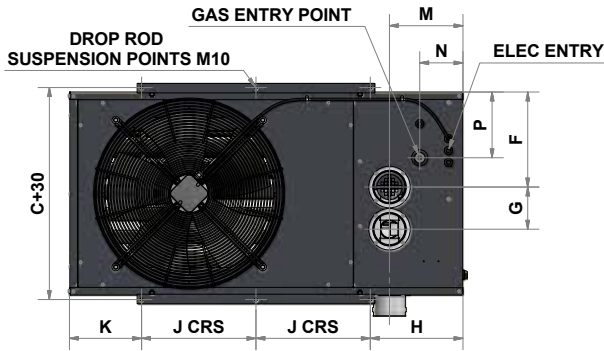
LNVx Duo- Axial Fan Bi-directional Units



Model		90	120	140
A	mm	1950	1950	1950
B	mm	819	819	819
C	mm	810	975	1140
DØ	mm	130	130	130
E	mm	337.5	337.5	337.5
F	mm	457	622	787
G	mm	220	220	220
H	mm	347	347	347
J	mm	662.5	662.5	662.5
K	mm	278	278	278
L	mm	1150	1150	1150
M	mm	247	247	247
N	mm	90	90	90
P	mm	412	413	481
Q	mm	105	82	82

Dimensions

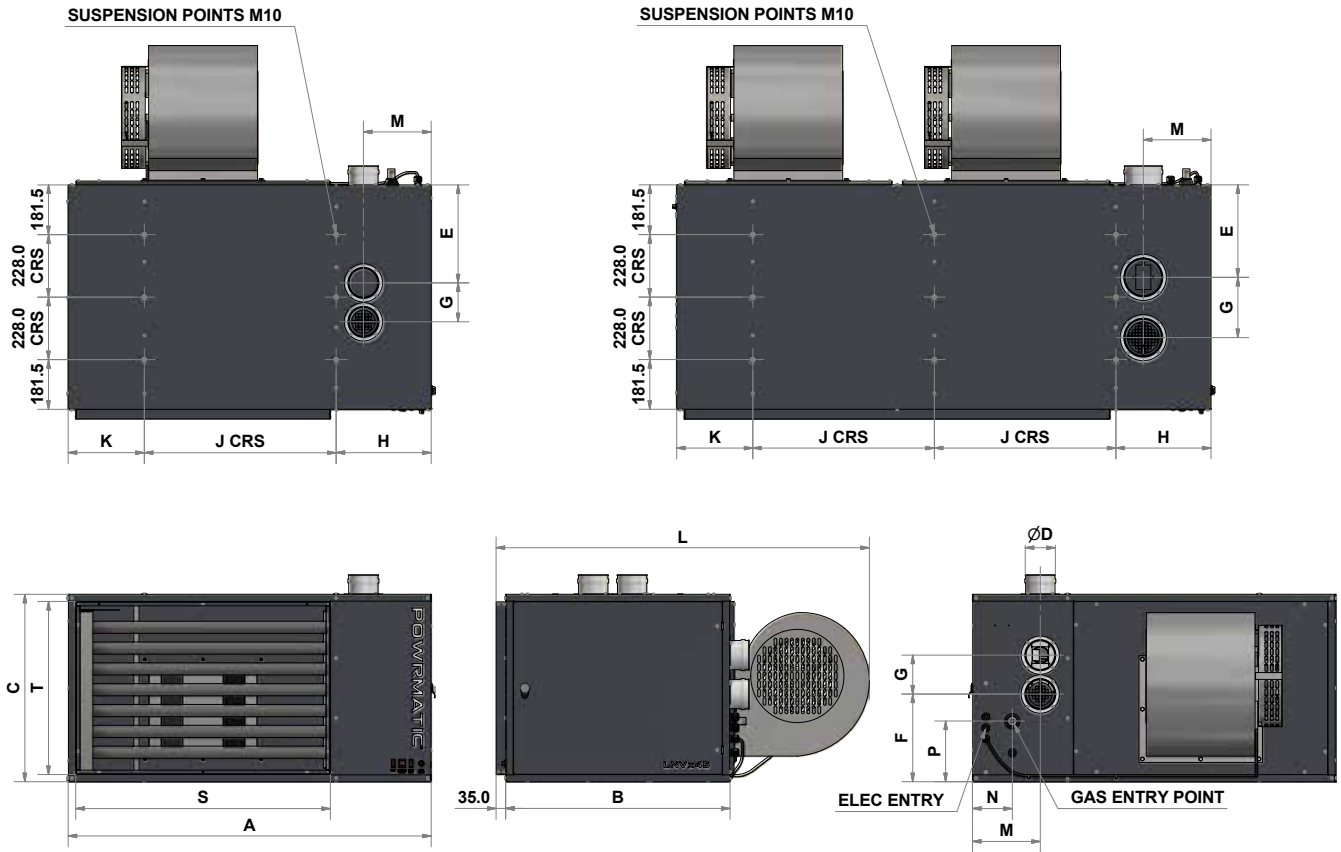
LNVx V - Axial Fan Downflow



Model		15	20	25	35	40	45	50	60	70	90	120	140
A	mm	997	997	997	1325	997	1325	1325	1325	1325	1950	1950	1950
B	mm	700	730	730	819	730	819	819	819	819	819	819	819
C	mm	430	500	570	532	720	684	684	760	912	810	975	1140
DØ	mm	80	80	80	100	100	100	100	130	130	130	130	130
E	mm	248	268	268	357	268	357	357	357	357	337.5	337.5	337.5
F	mm	198.5	248	318	225	446	320	325	325	476	457	622	787
G	mm	120	120	120	142	142	142	142	220	220	220	220	220
H	mm	289.5	289.5	289.5	319.5	289.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5
J	mm	260	260	260	385	260	385	385	385	385	460	460	460
K	mm	202.5	202.5	202.5	250.5	202.5	250.5	250.5	250.5	250.5	250.5	250.5	250.5
L	mm	820	885	835	934	855	954	954	929	929	954	929	929
M	mm	217.5	217.5	217.5	247.5	217.5	247.5	251	237	237	247	247	247
N	mm	117	117	117	145.5	117	145.5	145.5	145.5	145.5	90	90	90
P	mm	175	172	245	220	285	221.5	221.5	298	373.5	412	413	481

Dimensions

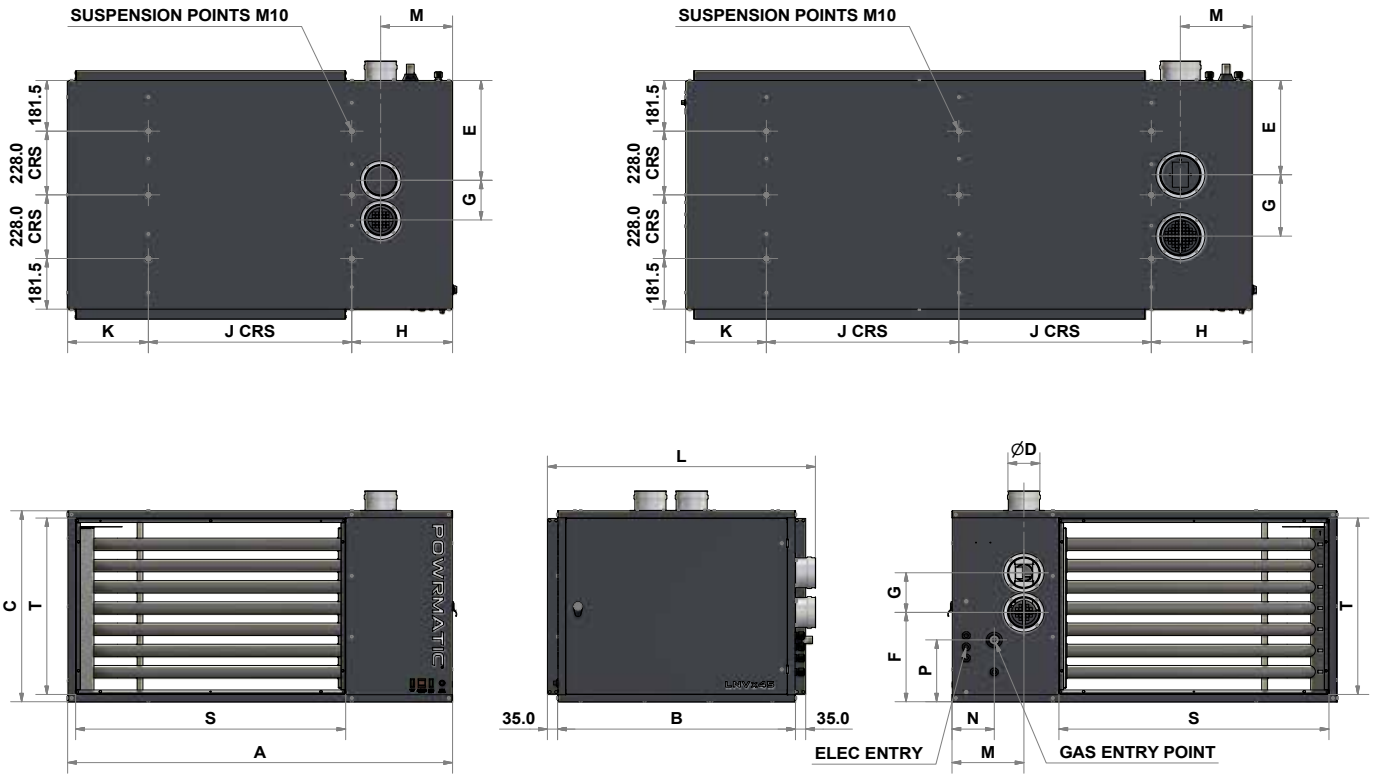
LVNx CCF- Centrifugal Close Coupled Fan Units



Model	15	20	25	35	40	45	50	60	70	90	120	140
A	mm	997	997	997	N/A	997	1325	1325	1325	1325	1950	1950
B	mm	700	730	730	N/A	819	819	819	819	819	819	819
C	mm	430	500	570	N/A	684	684	760	912	810	975	1140
DØ	mm	80	80	80	N/A	100	100	130	130	130	130	130
E	mm	248	268	268	N/A	357	357	357	357	337.5	337.5	337.5
F	mm	198.5	248	318	N/A	320	325	325	476	457	622	787
G	mm	120	120	120	N/A	142	142	220	220	220	220	220
H	mm	317	317	317	N/A	347	347	347	347	347	347	347
J	mm	450	450	450	N/A	700	700	700	700	662.5	662.5	662.5
K	mm	230	230	230	N/A	278	278	278	278	278	278	278
L	mm	1130	1205	1205	N/A	1450	1450	1450	1450	1365	1450	1450
M	mm	217.5	217.5	217.5	N/A	247.5	251	237	237	247	247	247
N	mm	117	117	117	N/A	145.5	145.5	145.5	145.5	90	90	90
P	mm	175	172	245	N/A	221.5	221.5	298	373.5	412	413	481
S	mm	630	630	630	N/A	927	927	927	927	1552	1552	1552
T	mm	376	446	516	N/A	631	631	707	858	757	922	1087

Dimensions

LVNx D Ducted Heat Module (No fan)



N/A

Model		15	20	25	40	45	50	60	70	90	120	140
A	mm	997	997	997	997	1325	1325	1325	1325	1950	1950	1950
B	mm	700	730	730	730	819	819	819	819	819	819	819
C	mm	430	500	570	720	684	684	760	912	810	975	1140
DØ	mm	80	80	80	100	100	100	130	130	130	130	130
E	mm	248	268	268	268	357	357	357	357	337.5	337.5	337.5
F	mm	198.5	248	318	446	320	325	325	476	457	622	787
G	mm	120	120	120	142	142	142	220	220	220	220	220
H	mm	317	317	317	317	347	347	347	347	347	347	347
J	mm	450	450	450	450	700	700	700	700	662.5	662.5	662.5
K	mm	230	230	230	230	278	278	278	278	278	278	278
L	mm	804	834	834	834	924	924	924	924	924	924	924
M	mm	217.5	217.5	217.5	217.5	247.5	251	237	237	247	247	247
N	mm	117	117	117	117	145.5	145.5	145.5	145.5	90	90	90
P	mm	175	172	245	285	221.5	221.5	298	373.5	412	413	481
S	mm	630	630	630	630	927	927	927	927	1552	1552	1552
T	mm	376	446	516	666	631	631	707	858	757	922	1087

Heater Options

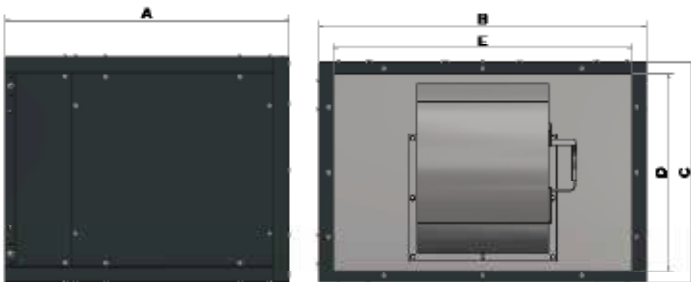
LVN_x

Mixing Box - (LVN_x CCF Models Only)



Model	Part Number	Dimensions (mm)					
		A	B	C	D	E	F
LVN _x 15/20/25	LVN _x 15/MB	1160	730	696	600	498	570
LVN _x 40	LVN _x 40/MB	1160	880	696	600	648	720
LVN _x 45/50	LVN _x 50/MB	1285	845	994	900	613	685
LVN _x 60	LVN _x 60/MB	1285	920	994	900	688	760
LVN _x 70	LVN _x 70/MB	1285	1070	994	900	838	910
LVN _x 90	LVN _x 90/MB	1285	970	1620	1526	738	810
LVN _x 120	LVN _x 120/MB	1285	1135	1620	1526	903	975
LVN _x 140	LVN _x 140/MB	1455	1300	1620	1526	1068	1140

Fan Plenum Box - (LVN_x CCF Models Only)

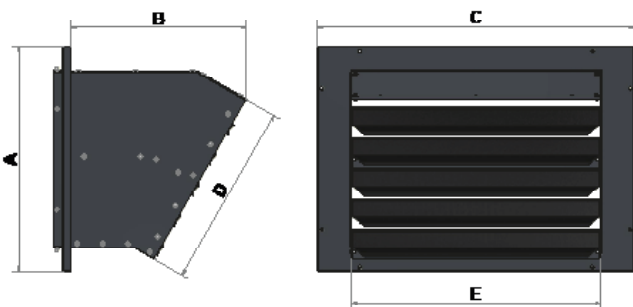


Model	Part Number	Dimensions (mm)				
		A	B	C	D	E
LVN _x 15/20/25	LVN _x 15/FS	750	696	570	480	622
LVN _x 40	LVN _x 40/FS	750	696	720	630	622
LVN _x 45/50	LVN _x 50/FS	850	994	685	595	920
LVN _x 60	LVN _x 60/FS	850	994	760	670	920
LVN _x 70	LVN _x 70/FS	850	994	910	820	920
LVN _x 90	LVN _x 90/FS	850	1620	810	720	1546
LVN _x 120	LVN _x 120/FS	850	1620	975	885	1546
LVN _x 140	LVN _x 140/FS	850	1620	1140	1050	1546

Accessories

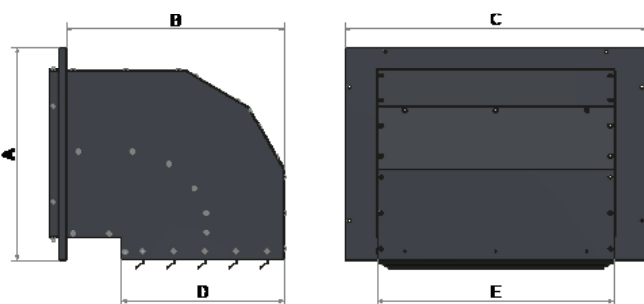
LVN_x

30° Downflow Head (LVN_x F Models Only)



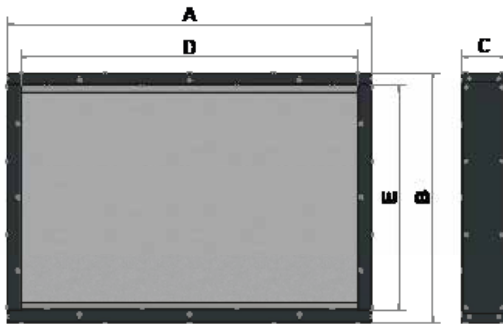
Model	Part Number	Dimensions (mm)				
		A	B	C	D	E
LVN _x 15	LVN _x 15-30DH	376	305	630	280	494
LVN _x 20	LVN _x 20-30DH	446	340	630	350	494
LVN _x 25	LVN _x 25-30DH	516	375	630	420	494
LVN _x 35	LVN _x 35-30DH	478	340	927	350	660
LVN _x 40	LVN _x 40-30DH	666	450	630	570	494
LVN _x 45/50	LVN _x 50-30DH	631	415	927	500	660
LVN _x 60	LVN _x 60-30DH	707	415	927	500	660
LVN _x 70	LVN _x 70-30DH	858	480	927	630	660
LVN _x 90	LVN _x 90-30DH	757	450	757	570	660
LVN _x 120	LVN _x 120-30DH	922	520	757	710	660
LVN _x 140	LVN _x 140-30DH	1087	590	757	850	660

90° Downflow Head - (LVN_x F Models Only)



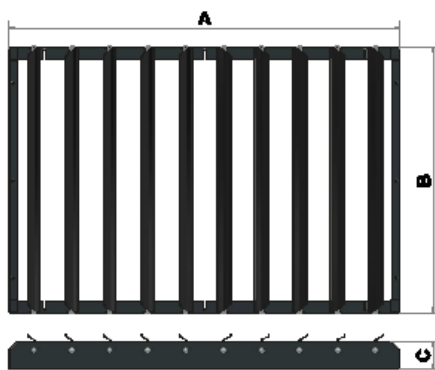
Model	Part Number	Dimensions (mm)				
		A	B	C	D	E
LVN _x 15	LVN _x 15-90DH	376	430	630	280	494
LVN _x 20	LVN _x 20-90DH	446	500	630	350	494
LVN _x 25	LVN _x 25-90DH	516	570	630	420	494
LVN _x 35	LVN _x 35-90DH	478	570	927	350	660
LVN _x 40	LVN _x 40-90DH	666	720	630	570	494
LVN _x 45/50	LVN _x 50-90DH	631	650	927	500	660
LVN _x 60	LVN _x 60-90DH	707	650	927	500	660
LVN _x 75	LVN _x 70-90DH	858	780	927	630	660
LVN _x 90	LVN _x 90-90DH	757	720	757	570	660
LVN _x 120	LVN _x 120-90DH	922	860	757	710	660
LVN _x 140	LVN _x 140-90DH	1087	1000	757	850	660

Filter Box - (LNVx CCF Models Only)



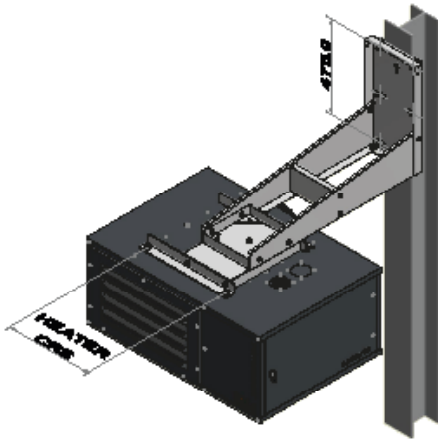
Model	Part Number	Dimensions (mm)				
		A	B	C	D	E
LNVx 15/20/25	LNVx15-FB	696	570	120	626	500
LNVx 40	LNVx40-FB	696	720	120	626	650
LNVx 45/50	LNVx45-FB	994	685	120	924	615
LNVx 60	LNVx60-FB	994	760	120	924	690
LNVx 70	LNVx70-FB	994	910	120	924	840
LNVx 90	LNVx90-FB	1620	810	120	1550	740
LNVx 120	LNVx120-FB	1620	975	120	1550	905
LNVx 140	LNVx140-FB	1620	1140	120	1550	1070

Vertical Louvres (For Use On All Models)



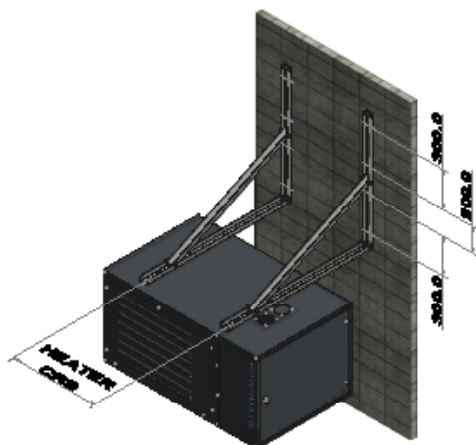
Model	Part Number	Dimensions (mm)		
		A	B	C
LNVx 15	LNVx15-VL	630	376	65
LNVx 20	LNVx20-VL	630	446	65
LNVx 25	LNVx25-VL	630	516	65
LNVx 35	LNVx35-VL	927	478	65
LNVx 40	LNVx40-VL	630	666	65
LNVx 45/50	LNVx50-VL	927	631	65
LNVx 60	LNVx60-VL	927	707	65
LNVx 70	LNVx70-VL	927	858	65
LNVx 90	LNVx90-VL	757	757	65
LNVx 120	LNVx120-VL	757	922	65
LNVx 140	LNVx140-VL	757	1087	65

Swivel Wall Bracket - (LNVx E Models Only)



Model	Part Number
LNVx 15 - 70	LNVx15-70SWB
LNVx 90 - 140	N/A

Cantilever Wall Bracket - (LNVx E Models Only)



Model	Part Number
LNVx 15 - 70	LNVx15-70WB
LNVx 90 - 140	LNVx90-140WB

Notes:

- Dimensions for the swivel and cantilever brackets remain the same for all LNVx models
- Swivel Brackets can not be used with double units

Control Options

LNvx

A choice of control options are available for the LNvx range. 5 heaters can now be controlled using the new MC300 Multi from a single master control. Visit our website to find out more about our controls systems.

MC200



The MC200 is a digital, high specification controller for individual heaters that provides the flexibility of variable time and temperature control as well as optimised start/stop prediction. It has the ability to set a variety of time and temperature programs, whilst still enabling the user to adjust the temperature within controlled limits if required. Adjustable frost protection protects against low temperatures. The MC200 also allows for remote burner fault reset, and summer fan only operation.

The MC200 features password-controlled access, This can be locked in various combinations to allow different levels of password-controlled access for different users. There are two levels of password-controlled access, the second level being for use by commissioning and servicing engineers.

MC300 Multi

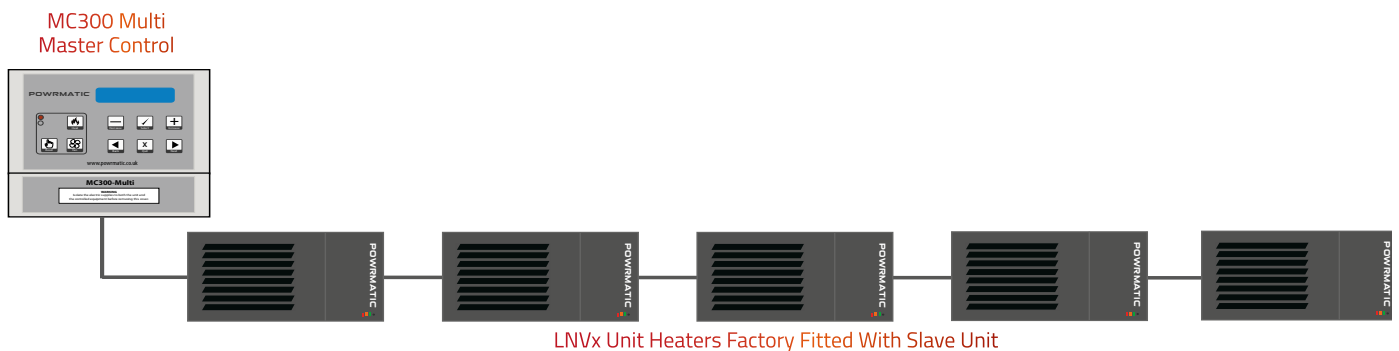


Powrmatic's new MC300 'Multi' digital controller enables the control of up to 5 multiple cabinet and unit air heaters and features optimum start/stop with weather compensation, adjustable frost protection, remote burner reset and summer fan-only operation as standard.

Thanks to the slave units being factory fitted within each heater prior to delivery, the MC300 'Multi' delivers significant savings on the time and cost of installation compared to single unit control systems. Further cost reductions are achieved through the use of low voltage control wiring (5-core for on/off, 6-core for high/low, 7-core for modulating units).

The MC300 Multi also features password-controlled access, This can be locked in various combinations to allow different levels of password-controlled access for different users. There are two levels of password-controlled access, the second level being for use by commissioning and servicing engineers.

Here is an example of how multiple heaters can be connected with the MC300 Multi.



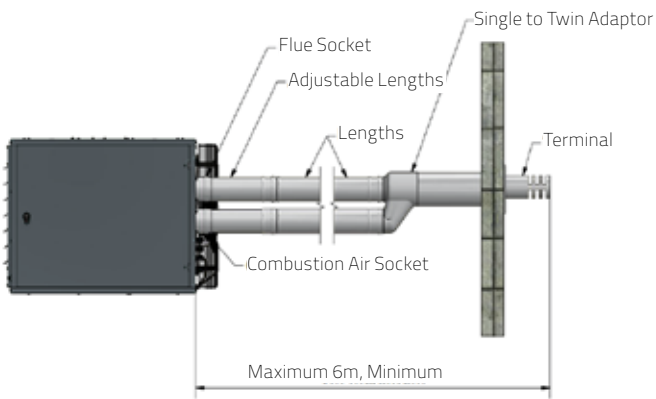
Need help with your control system?
Check out our YouTube Channel
for our helpful 'How To' tutorials.



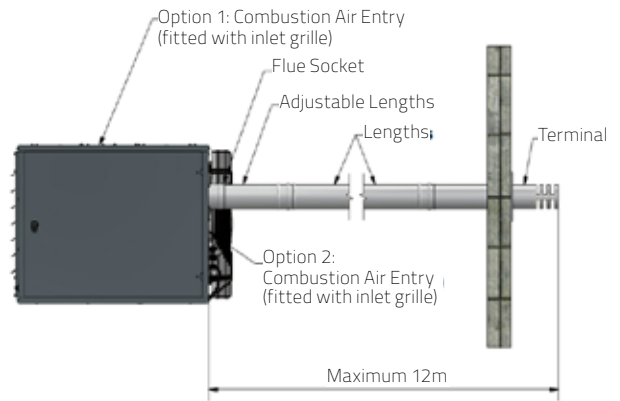
Flue Arrangements

Room Sealed & Flue Only Flue Systems

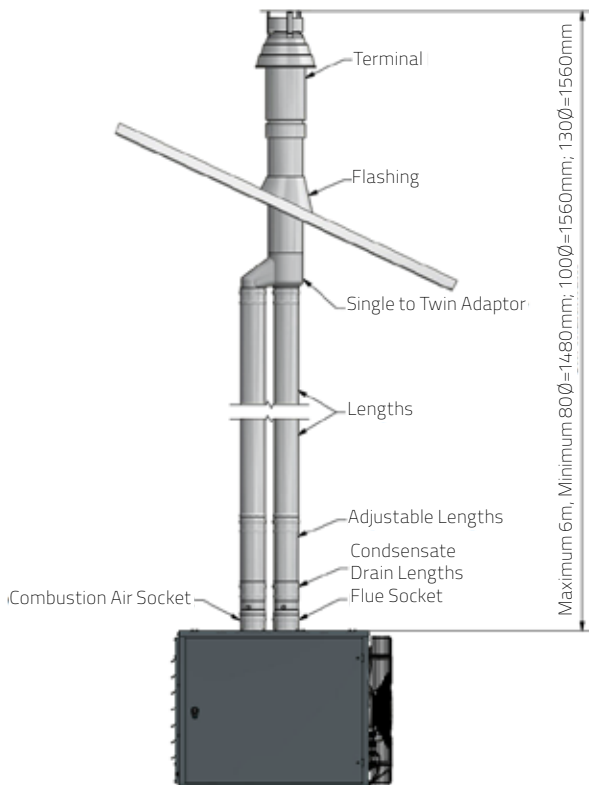
Room Sealed - Horizontal Flue System



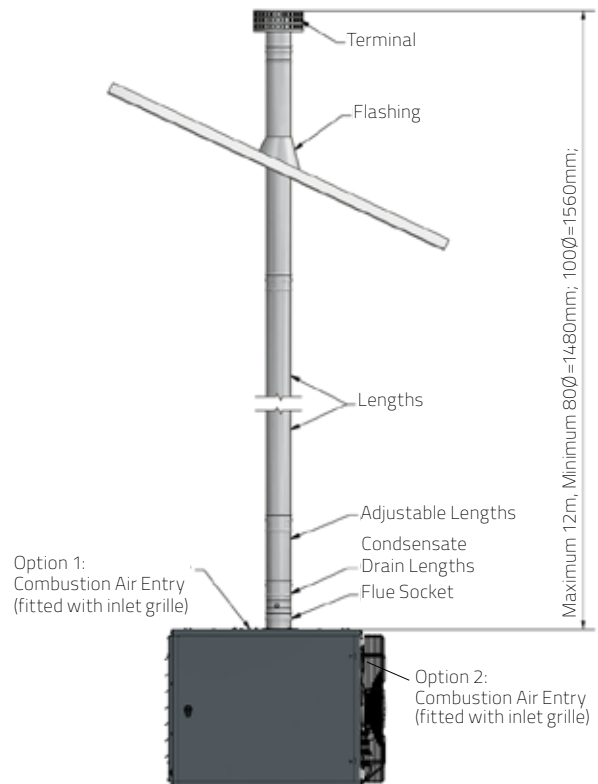
Flue Only- Horizontal Flue System



Room Sealed - Vertical Flue System



Flue Only- Vertical Flue System



Notes for all systems:

- Maximum flue/combustion air length is 6m and on flue only installations maximum flue length is 12m.
- Final overall length of adjustable disconnection piece must be between 360-415mm.
- 45° offsets may be used if required. Each set is equivalent to 0.5m of flue length.
- 90° offsets may be used if required. Each set is equivalent to 1m of flue length.
- Where LNVx heaters are used in clean environments it is permissible to take the combustion air directly from the heated space. The supplied mesh intake plate must be fitted to the combustion air inlet on the rear of the heater.
- If fitted with vertical flue, Powrmatic recommend the installation of a condensate drain length.

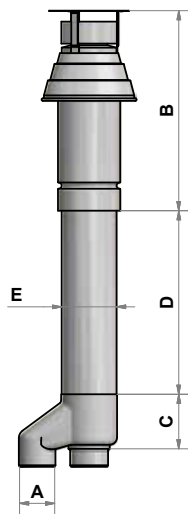
Flue Components

Vertical & Horizontal Flue Kits

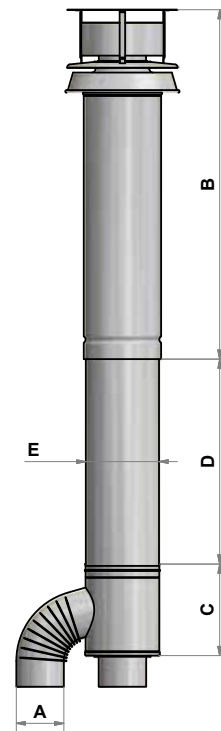
Concentric Vertical Terminal Kit

Unit	Part Number	A mm	B mm	C mm	D mm	E mm
LNVx 15 - 25	NVC/VTK1	80	605	105	630	130
LNVx 30 - 50	NVC/VTK2	100	550	145	770	150
LNVx 60 - 140	NVC/VTK3	130	960	250	560	200

80-100mm (LNVx15-50)



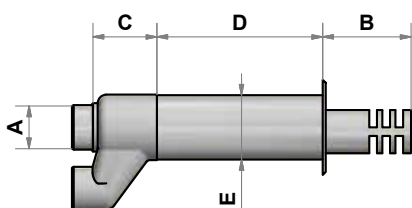
130mm (LNVx60-140)



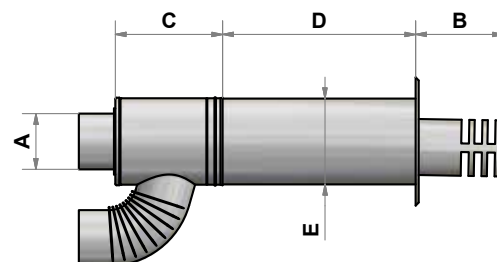
Concentric Horizontal Terminal Kit

Unit	Part Number	A mm	B mm	C mm	D mm	E mm
LNVx 15 - 25	NVC/HTK1	80	175	105	560	130
LNVx 30 - 50	NVC/HTK2	100	170	145	560	150
LNVx 60 - 140	NVC/HTK3	130	185	250	420	200

80-100mm (NVx15-50)



130mm (NVx60-140)



General

The following notes are provided as a guide, however installers and operators should fully acquaint themselves with the more detailed guidance provided in the relevant installation manual. For copies of such manuals please consult our technical department or visit our website - www.powrmatic.co.uk

Standards

All Powrmatic LNvX heaters must be installed, commissioned and operated with due regard to appropriate regulations including but not limited to BS6230:2011, relevant Codes of Practice, the possible requirements of Local Authorities, Fire Officers and insurers as well as Powrmatic's installation manual.

Position & Location

Powrmatic LNvX heaters can be 'drop rod' suspended via purpose designed M10 suspension fixing points, attached to our optional wall support brackets or positioned on a level non-combustible base. In all cases it is important that all supporting structures have due regard to the relevant weight loadings.

Consideration should also be given to flue routes and points of exit, gas, electrical and control connections, the throw characteristics of the heater, issues of public access and the siting of environmental control stations and/or remote temperature sensors where the position needs to be representative of the zone temperature to which they refer.

Heaters should not be installed in hazardous areas or areas where there is a foreseeable risk of flammable or corrosion inducing particles, gases or vapours being drawn into the combustion air or main fan circuits.

Areas where special consideration or advice may be required could include but is not limited to -

- Where de-greasing solvents are present, even in minute concentrations
- Where paint spraying is carried out
- Where styrenes or other laminating products are used
- Where airborne silicone is present
- Where petrol engined vehicles are stored or maintained
- Where dust is present (i.e. wood working or joinery shops)
- Where high levels of extract persist

Installation in such areas may be possible under specific conditions. Please consult our technical department or your local sales manager for further information.

Plant Room or Enclosure Locations

It is recommended that you consult our technical department or your local sales manager.

Installation Clearances

Particular clearances may be necessary for the correct and safe function of the heater as well as for maintenance purposes. Such clearances are confirmed in the relevant installation manual.

Combustion Air & General Ventilation

Within the United Kingdom mandatory regulations apply concerning the provision of combustion air and general heater ventilation. Where a heater is installed in room sealed mode (i.e. where both the flue exit and combustion air are positively connected to atmosphere) then there is no specific requirement for combustion air ventilation. However, depending upon location, provision for general ventilation may still be a necessity.

If the heater is installed in flue only mode and directly within the heated space and where that heated space has a natural ventilation rate greater than 0.5 air changes per hour then combustion air and general heater ventilation is probably not required. If the heated space has a natural ventilation rate of less than 0.5 air changes per hour then either natural ventilator openings or mechanical ventilation will be required. Please consult the installation manual for further details.

Flue

Powrmatic LNvX heaters can be installed in either room sealed or flue only mode. Each heater requires a separate flue and/or combustion air intake system of the appropriate size and type. Installers are reminded that type approval has been granted for these appliances on the basis that they are fitted with Powrmatic LNvX flue systems. Maximum lengths apply and should be strictly observed.

Systems may be installed in either the horizontal or vertical plane. In either case the number of bends kept to a minimum and regard must be given to the reduction in permissible length with the addition of each bend. The flue must be adequately supported and terminated with the approved terminal assembly, with due regard to the point of exit and it's proximity to any windows, doors or ventilation intakes etc.

Pipework

Care should be taken when sizing pipe work to ensure that minimum gas inlet pressures are not compromised under dynamic load conditions. Isolating valves and service unions should be provided for each heater and pipe work installed with due regard for relevant standards and Codes of Practice.

Guarantee

Powrmatic LNvX heaters are provided with a comprehensive guarantee covering both the heater and the heat exchanger. For United Kingdom sales the heater has the benefit of a two year parts and one year labour guarantee whilst the heat exchanger assembly has a ten year time related sliding scale warranty. All guarantees are subject to terms and conditions.



**TIME RELATED
HEAT EXCHANGER
WARRANTY**

About Us

Powrmatic design, develop and deliver HVAC solutions worldwide across a wide range of commercial and industrial applications creating comfortable and safe environments, differentiated through innovation, integrity, compliance and service.

Our specialised HVAC divisions:

Heating

Industrial and commercial warm air and radiant space heating solutions manufactured to achieve efficient performance, compliance and reliability for every application in partnership with the HVAC trade.

Ventilation

Custom designed highly efficient, cost-effective smoke, natural and powered ventilators manufactured to meet project requirements of building operators, architects, specifiers and contractors.

Air Conditioning

Worldwide distributors of innovative wall mounted packaged heat pumps and traditional split and multi split air conditioners for every sector providing efficient comfort cooling and heating all year round.

Engineered Products

Bespoke heating and ventilation solutions designed to serve individual customers specific project requirements. In addition our OEM products provide partner AHU manufacturers with high quality energy efficient gas fired heat exchangers.

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#keepingthenationwarm



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