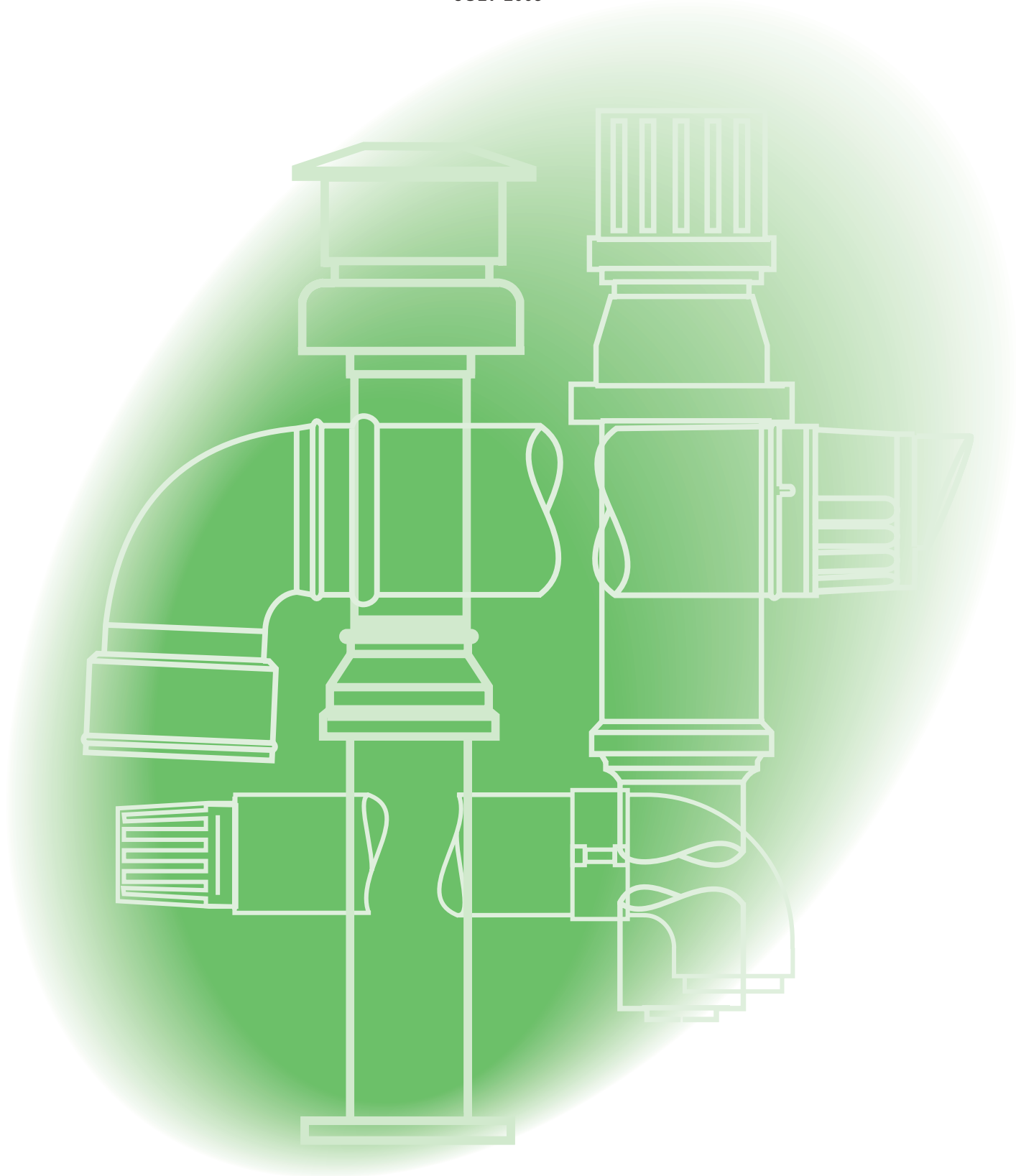


Flue guide

JULY 2003



energizing home heating

Vokèra Ltd

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"Vokèra" supports Benchmark



energizing home heating

Introduction

Vokèra offers a choice of two flue systems – a 100mm concentric system and an 80mm twin pipe system.

The concentric flue system is used in the majority of applications, while the twin pipe flue system is used when a longer flue length needs to be achieved.

Both systems incorporate simple to use, push fit-seals for complete ease of installation and have an attractive white finish to complement the modern, clean design of Vokèra boilers. A full range of accessories is available for both systems.

Flue exit clearances

Flue exits

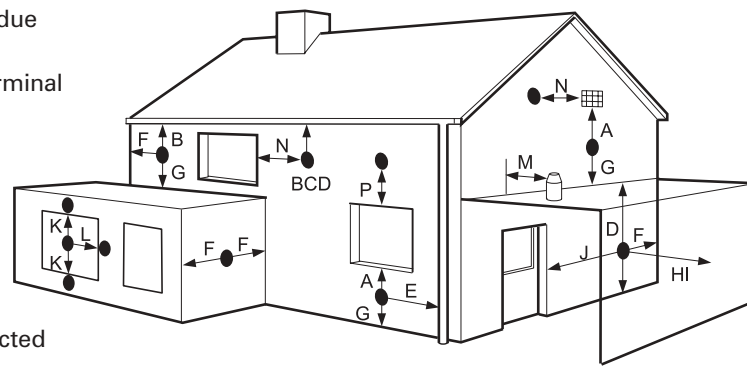
A	Directly below an opening (window, air brick, etc)	300mm
B	Below gutters, drain pipes etc	75mm
C	Below eaves	200mm
D	Below balcony, carport roof, etc	200mm
E	To side of a vertical soil/drainpipe etc	150mm
F	From internal or external corner or boundary	300mm
G	Above ground, roof or balcony level	300mm
H	From a surface or boundary facing a terminal	600mm
I	From a terminal facing a terminal	1200mm
J	From an opening in the carport into the building	1200mm
K	Vertically from a terminal on the same wall	1500mm
L	Horizontally from a terminal on the same wall	300mm
M	From a structure to the side of a vertical terminal	300mm
N	To the side of an opening (window, air brick, etc)	300mm
P	Above an opening (window, air brick, etc)	300mm
Q	From the top of a vertical terminal to the roof flashing	Consult manufacturer

Terminal positions

The terminal should be located where the dispersal of combustion products is not impeded and with due regard for the damage and discoloration that may occur to building products located nearby. The terminal must not be located in a place where it is likely to cause a nuisance.

In cold and/or humid weather, water vapour may condense on leaving the terminal; the effect of such plumbing must be considered.

If installed less than 2m above a pavement or platform to which people have access (including balconies or flat roofs) the terminal must be protected by a guard of durable material.



Need to know more?

This guide is designed to help with most installations, however for further advice on specific queries call our technical helpline – details below.

Technical Advice
After Sales Service
Vokèra Ireland

Tel: 0870 333 0520 Fax: 0141 945 5136
Tel: 0870 333 0220 Fax: 01442 281403
Tel: 056 55057 Fax: 056 55060

Section 1

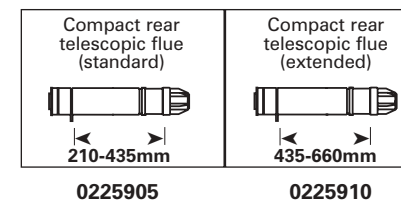
Standard concentric horizontal flue accessories

Model	Maximum horizontal flue length (dimension 'X')	Horizontal flue terminal	45° bend (pair)	90° bend	0.75m extension
		2359029	2359049	2359059	2359069
Linea 726	4.0m	✓	✓	✓	✓
Linea 730	3.4m	✓	✓	✓	✓
Linea 735	2.0m	✓	✓	✓	✓
Linea Max	1.8m	✓	✓	✓	✓
Compact 24	4.5m	✓	✓	✓	✓
Compact 28	3.4m	✓	✓	✓	✓
Mynute 12e	4.5m	✓	✓	✓	✓
Mynute 16e	3.4m	✓	✓	✓	✓
Mynute 20e	3.4m	✓	✓	✓	✓
Mynute 28e	3.4m	✓	✓	✓	✓
Mynute 35e	2.0m	✓	✓	✓	✓
AquaNova	2.4m	✓	✓	✓	✓

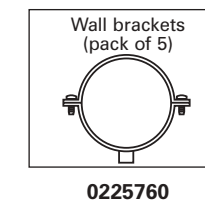
Model	Horizontal flue terminal	45° bend (pair)	90° bend	0.75m extension
	Horizontal flue terminal 833mm	45° bend (pair) 220mm	90° bend 172mm	0.75m extension 750mm
		Reduce maximum flue length by 0.5m for each additional bend	Reduce maximum flue length by 1.0m for each additional bend	

Model	1.5m extension	Telescopic extension	Long joining clips	Telescopic flue terminal (standard)	Telescopic flue terminal (extended)
	1500mm	350-490mm		360-600mm	580-825mm
	2359079	2359089	2359169	0225705	0225710
Linea 726	✓	✓	✓	X	X
Linea 730	✓	✓	✓	X	X
Linea 735	✓	✓	✓	X	X
Linea Max	✓	✓	✓	X	X
Compact 24	✓	✓	✓	✓	✓
Compact 28	✓	✓	✓	✓	✓
Mynute 12e	✓	✓	✓	✓	✓
Mynute 16e	✓	✓	✓	✓	✓
Mynute 20e	✓	✓	✓	✓	✓
Mynute 28e	✓	✓	✓	✓	✓
Mynute 35e	✓	✓	✓	✓	✓
AquaNova	✓	✓	✓	✓	✓

Compact rear flue accessories



Universal concentric flue accessories



Note: Compact rear flue terminals are supplied with a rear flue adaptor and conversion instructions.

Section 2

Standard concentric vertical flue accessories

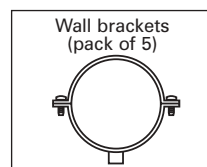
Model	Maximum vertical flue length (dimension 'Y')	Vertical flue terminal	45° bend (pair)	90° bend	0.75m extension
			2359049	2359059	2359069
Linea 726	4.8m	✓	✓	✓	✓
Linea 730	4.2m	✓	✓	✓	✓
Linea 735	2.8m	✓	✓	✓	✓
Linea Max	4.4m*	✓	✓	✓	✓
Compact 24	5.25m	✓	✓	✓	✓
Compact 28	4.4m	✓	✓	✓	✓
Mynute 12e	5.5m	✓	✓	✓	✓
Mynute 16e	4.4m	✓	✓	✓	✓
Mynute 20e	4.4m	✓	✓	✓	✓
Mynute 28e	4.4m	✓	✓	✓	✓
Mynute 335e	2.8m	✓	✓	✓	✓
AquaNova	3.8m	✓	✓	✓	✓

Vertical flue terminal	45° bend (pair)	90° bend	0.75m extension
1000mm	220mm	172mm	750mm
	Reduce maximum flue length by 0.5m for each additional bend	Reduce maximum flue length by 1.0m for each additional bend	

*Using flue exit hole in centre of top casing panel

Model	1.5m extension	Telescopic extension	Long jointing clips	Roof flashing plate (angled)	Roof flashing plate (flat)
	1500mm	350-490mm		500mm x 500mm	390mm diameter
Linea 726	✓	✓	✓	✓	✓
Linea 730	✓	✓	✓	✓	✓
Linea 735	✓	✓	✓	✓	✓
Linea Max	✓	✓	✓	✓	✓
Compact 24	✓	✓	✓	✓	✓
Compact 28	✓	✓	✓	✓	✓
Mynute 12e	✓	✓	✓	✓	✓
Mynute 16e	✓	✓	✓	✓	✓
Mynute 20e	✓	✓	✓	✓	✓
Mynute 28e	✓	✓	✓	✓	✓
Mynute 35e	✓	✓	✓	✓	✓
AquaNova	✓	✓	✓	✓	✓

Universal concentric flue accessories



0225760

Section 3

Condensing concentric flue accessories

Model	Maximum horizontal flue length (dimension 'X')	Maximum vertical flue length (dimension 'Y')
Hydra 26	6.45m	7.45m
Syntesi 25	5.75m	6.55m
Syntesi 29	3.75m	4.55m
Syntesi 35	1.0m	1.8m
Pinnacle 16	10.0m	11.0m
Pinnacle 26	6.45m	7.45m
Synergy 29	3.75m	4.55m

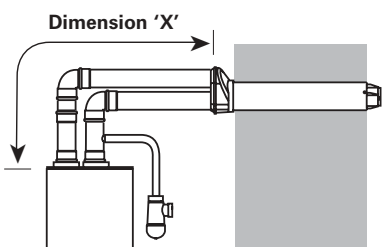
Horizontal flue terminal	Vertical flue terminal	Telescopic extension	45° bend (pair)	90° bend	0.5m extension
870mm	1050mm	350-500mm	235mm	160mm	500mm
0225720	0225725	0225755	0225730	0225735	0225740
			Reduce maximum flue length by 0.5m for each additional bend	Reduce maximum flue length by 1.0m for each additional bend	

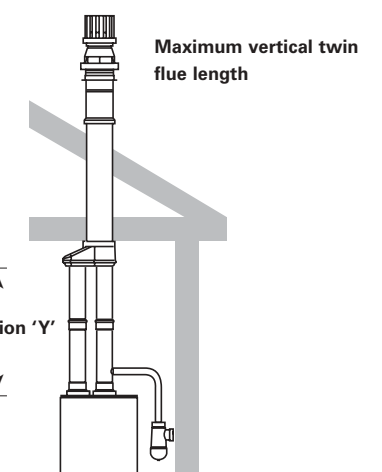
1.0m extension	2.0m extension	Wall brackets (pack of 5)	Roof flashing plate (angled)	Roof flashing plate (flat)
1000mm	2000mm		500mm x 500mm	390mm diameter
0225745	0225750	0225760	0225770	0225765

Section 4

Universal twin flue accessories

Note: Vokèra's twin flue system is suitable for use with all Vokèra boilers.

Model	Length (dimension 'X') + terminal	Maximum horizontal twin flue length
Linea 726, 730, 735	14m + 14m	
Linea Max	6m + 6m	
Compact 24, 28	14m + 14m	
Mynute 12e, 16e, 20e	14m + 14m	
Mynute 28e, 35e	14m + 14m	
Pinnacle 16	39m + 39m	
Pinnacle 26	29m + 29m	
Synergy 29	20m + 20m	
Hydra 26	29m + 29m	
Syntesi 25	25m + 25m	
Syntesi 29	20m + 20m	
Syntesi 35	10m + 10m	
AquaNova	7m + 7m	

Model	Length (dimension 'Y') + terminal	Maximum vertical twin flue length
Linea 726, 730, 735	14m + 14m	
Compact 24, 28	14m + 14m	
Mynute 12e, 16e, 20e	14m + 14m	
Mynute 28e, 35e	14m + 14m	
Pinnacle 16	39m + 39m	
Pinnacle 26	29m + 29m	
Synergy 29	20m + 20m	
Hydra 26	29m + 29m	
Syntesi 25	25m + 25m	
Syntesi 29	20m + 20m	
Syntesi 35	10m + 10m	
AquaNova	7m + 7m	

Reductions for bends	Reduction in maximum flue length (dimensions 'X' or 'Y')
45° bend	1m per bend
90° bend	1m per bend

Additional notes for installation of twin flue system

The Vokèra twin flue system enables greater flue lengths to be achieved than that of the standard concentric flue system. It can be used for horizontal or vertical applications, however the twin flue system must be converted to the dedicated concentric flue kit for termination.

The flue must have a fall of 1° back to the appliance to allow any condensate that may form in the flue system to drain via the condensate drain. Consideration must also be given to the fact that there is the possibility of a small amount of condensate dripping from the terminal.

A condensate drain kit must be fitted (except Hydra and Pinnacle) within 1 metre of the

appliance flue outlet. It is recommended that the condensate drain kit should be fitted in the vertical plane, however it can be fitted horizontally with care.

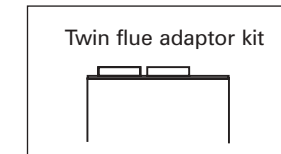
Ensure that the entire flue system is adequately supported, use at least one bracket for each extension.

The entire flue system must be adequately insulated to maintain heat within the flue system thereby reducing the possibility of condensate production.



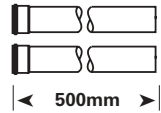
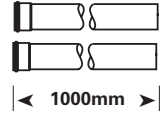
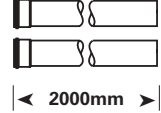
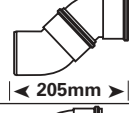
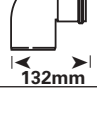
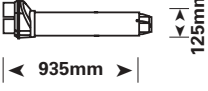
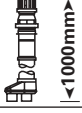


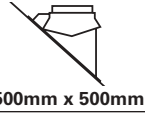

As the exhaust outlet pipe can reach very high temperatures it must be protected to prevent persons touching the hot surface.

Section 4 (continued)

Universal twin flue accessories



Linea 726, 730, 735 Part No. 362	Linea Max Part No. 319	Synergy/Syntesi/ Hydra/Pinnacle Part No. 359	AquaNova Part No. 310	Compact 28 Part No. 2359249	All other models Part No. 300
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	Description	Part No.
	Condensate drain kit suitable for all models	0225815
	0.25m extension (pair) suitable for all models	0225820
	0.5m extension (pair) suitable for all models	0225825
	1.0m extension (pair) suitable for all models	0225830
	2.0m extension (pair) suitable for all models	0225835
	45° bend (pair) suitable for all models	0225840
	90° bend (pair) suitable for all models	0225845
	Horizontal terminal with convertor box suitable for all models	0225805
	Vertical terminal with convertor box suitable for all models	0225810
	Double wall brackets (pack of 5) suitable for all models	0225850
	Single wall brackets (pack of 5) suitable for all models	0225855
	Roof flashing plate (angled)	0225770
	Roof flashing plate (flat)	0225765