

Flue guide

JULY 2003



energizing home heating

Vokèra Ltd

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supports Benchmark

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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

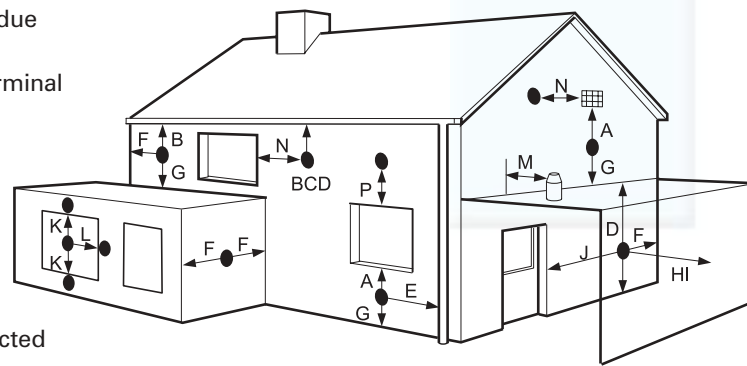
| | | |
|----------|--|----------------------|
| A | Directly below an opening (window, air brick, etc) | 300mm |
| B | Below gutters, drain pipes etc | 75mm |
| C | Below eaves | 200mm |
| D | Below balcony, carport roof, etc | 200mm |
| E | To side of a vertical soil/drainpipe etc | 150mm |
| F | From 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

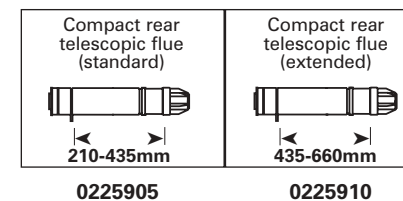
Standard concentric horizontal flue accessories

| 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 | ✓ | ✓ | ✓ | ✓ |

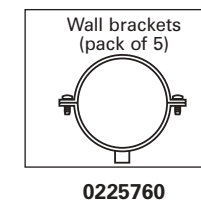
| Model | Horizontal flue terminal | 45° bend (pair) | 90° bend | 0.75m extension |
|-------|--------------------------|---|---|-----------------|
| | | | | |
| | 833mm | 220mm | 172mm | 750mm |
| | | Reduce maximum flue length by 0.5m for each additional bend | Reduce maximum flue length by 1.0m for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

| 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.co or call us on

0161 620 6677 For Spares at Discounted Prices

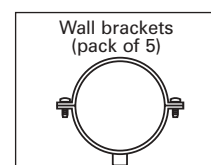
| Model | Maximum vertical flue length (dimension 'Y') | Vertical flue terminal | 45° bend (pair) | 90° bend | 0.75m extension |
|-------------|--|------------------------|-----------------|----------|-----------------|
| | | 2359039 | 2359049 | 2359059 | 2359069 |
| Linea 726 | 4.8m | ✓ | ✓ | ✓ | ✓ |
| 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 | ✓ | ✓ | ✓ | ✓ |

| Model | 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 |
| | 2359079 | 2359089 | 2359169 | 0225770 | 0225765 |
| 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



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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 www.heatingspares.co or call us on

Note: Vokèra's twin flue system is suitable for use with all Vokèra boilers. 0161 620 6677 For Spares at Discounted Prices

| 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.

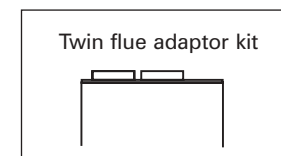
Ensure that the entire flue system is adequately supported, use at least one bracket for each extension.

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 |
|-------------------------------------|---------------------------|--|--------------------------|--------------------------------|----------------------------------|

| | 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 |