

**Gassero**  
technology for your comfort



# ULTRABOX CONDENSING COMMERCIAL GAS BOILERS

**UP TO 97% THERMAL EFFICIENCY  
STAINLESS STEEL HEAT EXCHANGER  
USER FRIENDLY TOUCHSCREEN INTERFACE**

**Ultrabox 800-1250-1500-2000**



High efficient solutions

Gassero Ultrabox boiler series have efficiency of up to 97%. Thanks to lower fuel consumption and lower heating costs, condensing boilers have short return on investment and reducing heating costs up to 20% in comparison with conventional boilers. High turn down ration prevents short cycling and temperature overshoot.

Simplified serviceability

Gassero Ultrabox boilers and heat exchangers are designed to provide ease of access for simplified and quick maintenance allowing one-man serviceability. Being installer's best friend, Gaassero Ultrabox boilers allow easy maintenance, and cleaning providing quick and cost effective solution.

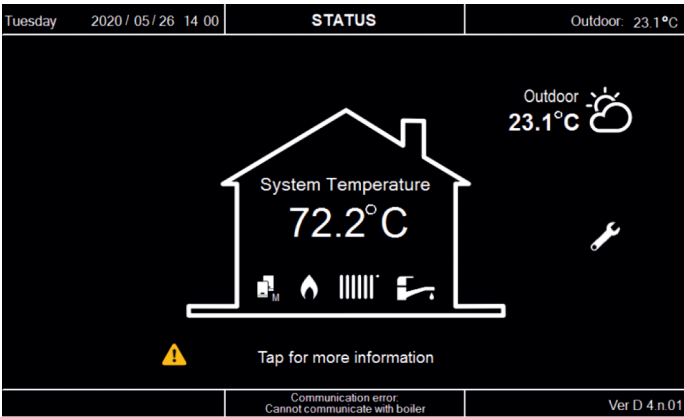
Control system with smart touchscreen

High resolution colour touchscreen display provides clear visual monitoring and programming of system parameters. Boilers can be connected to Building Management Systems via ModBus or optional BACnet translator.

Wide range of venting choices

Gassero boilers offer 6" and 8" vent choices with up to 100 feet length using either PVC, CPVC Polypropylene or AL29-4C stainless steel vent pipe.

TOUCHSCREEN DISPLAY

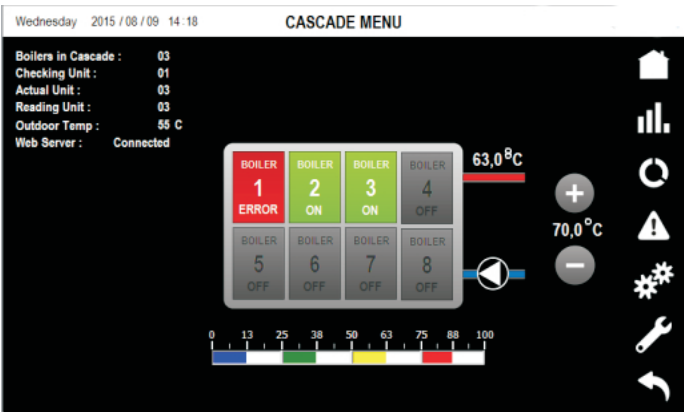
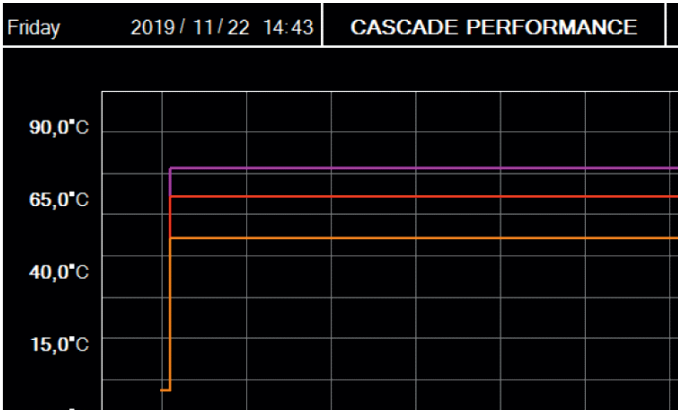


Gassero’s advanced and user-friendly touchscreen interface allows easy access to boiler state, quick and easy adjustments of temperature setpoints, operation times, heating zone management, pump settings, and performance graphs.

USAGE AREAS



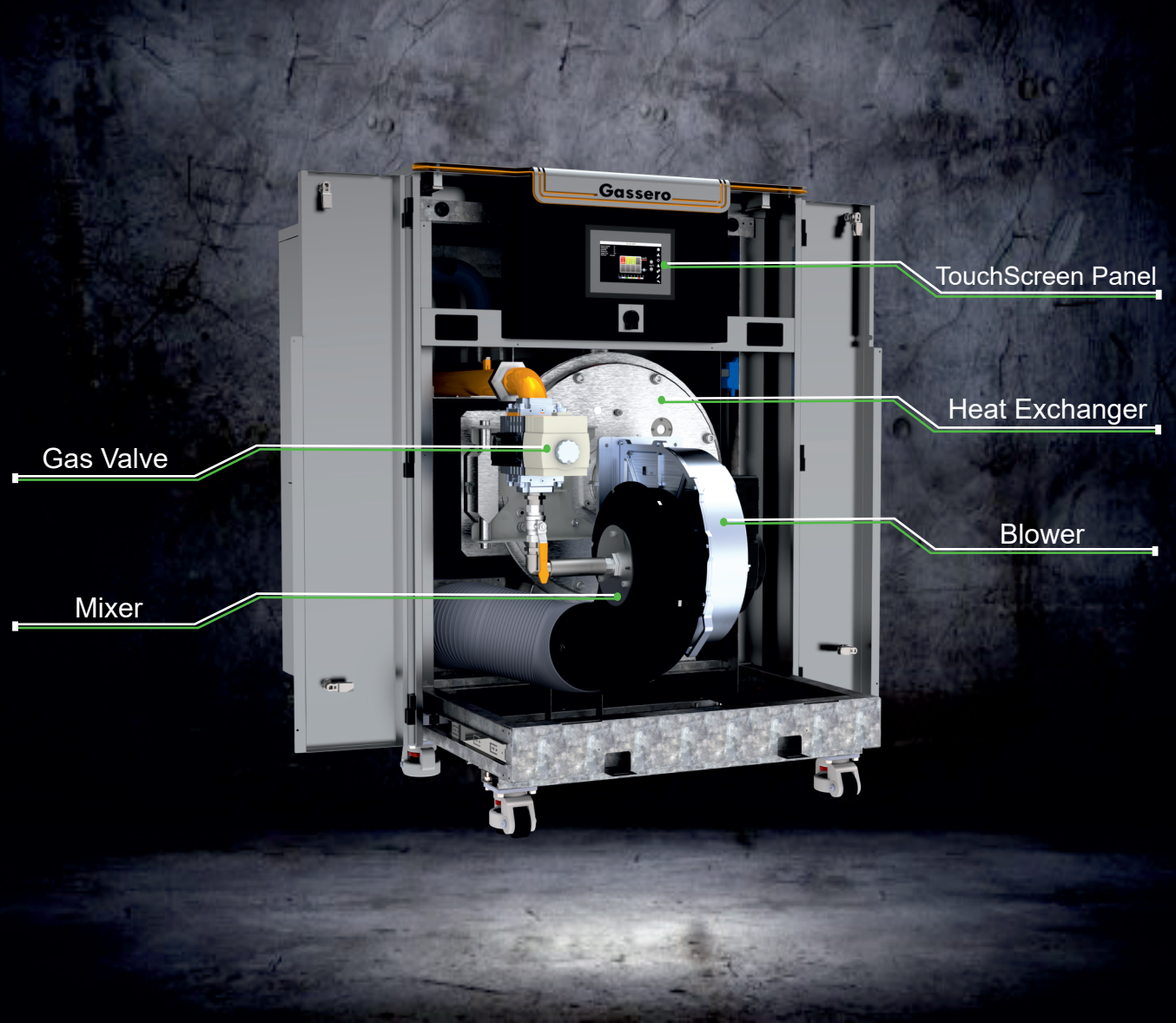
Easy access to boiler operation, temperature graphs and error logs.



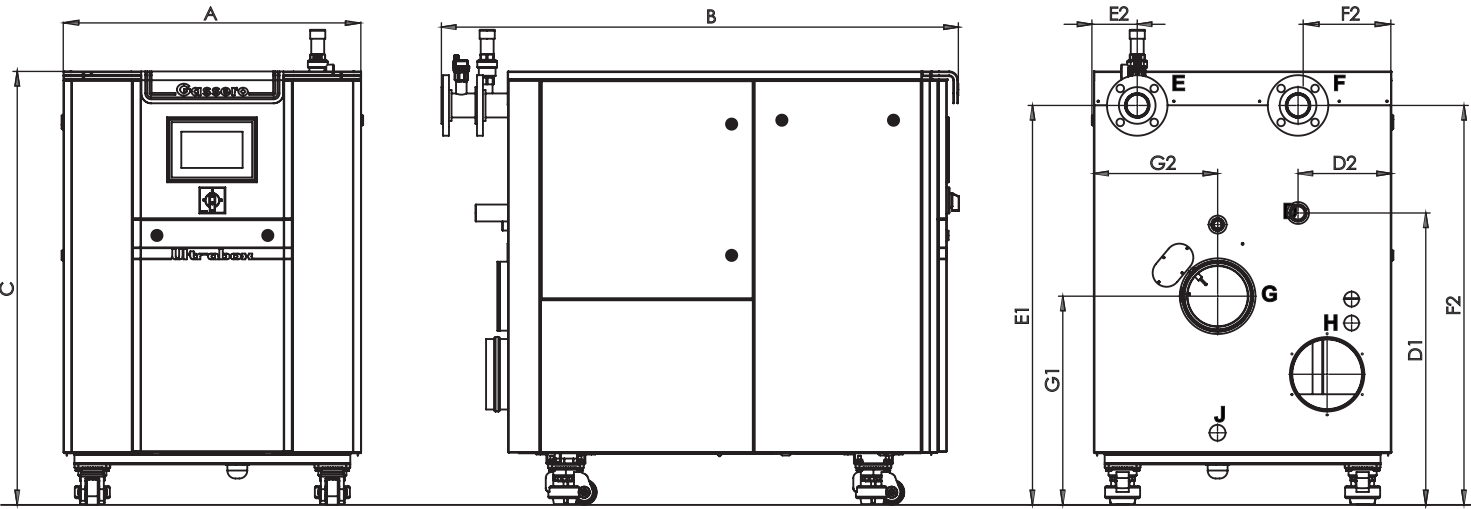
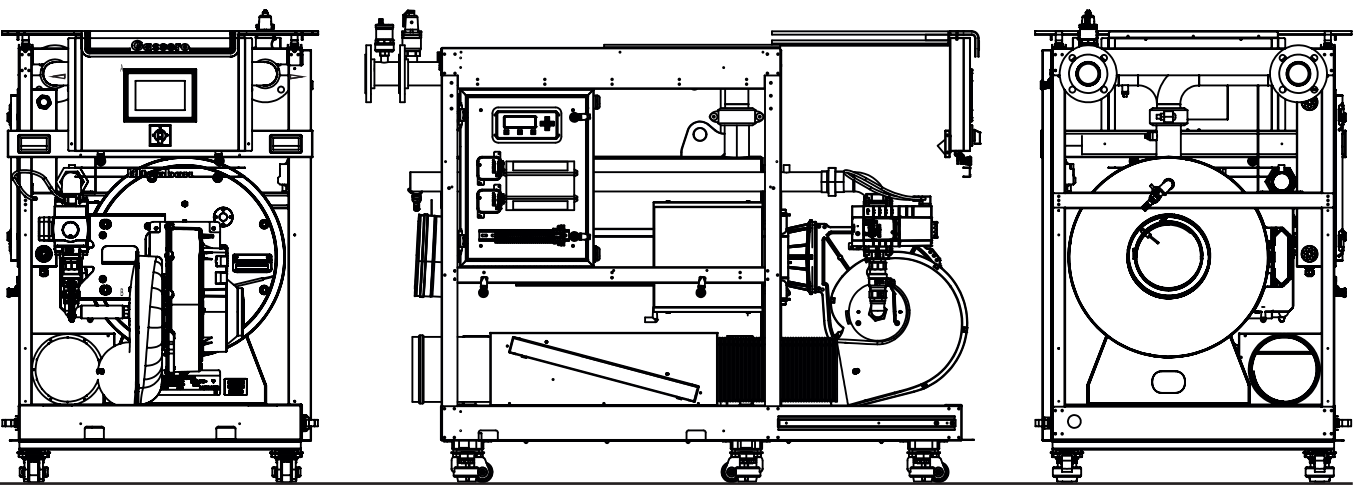
Easy access to cascade management, monitoring of cascade operation or each individual boiler and access to fault history.

|                                                   | Units    | Ultrabox 800 H                                                    |         | Ultrabox 1250 H |         | Ultrabox 1500 H |         | Ultrabox 2000 H |         |
|---------------------------------------------------|----------|-------------------------------------------------------------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|
| Boiler type                                       | -        | Condensing (H), Indoor                                            |         |                 |         |                 |         |                 |         |
| Heat exchanger                                    | -        | Stainless Steel                                                   |         |                 |         |                 |         |                 |         |
| Operation Type (Air-Fuel)                         | -        | Pneumatic                                                         |         |                 |         |                 |         |                 |         |
| Fuel Type                                         |          | NG                                                                | Propane | NG              | Propane | NG              | Propane | NG              | Propane |
| Max Input Rate                                    | Mbtu/hr  | 824.00                                                            | 824.00  | 1300.00         | 1300.00 | 1560.00         | 1560.00 | 2061.00         | 2148.00 |
|                                                   | kW       | 241.50                                                            | 241.50  | 381.00          | 381.00  | 457.19          | 457.19  | 604.02          | 629.52  |
| Min Input Rate                                    | Mbtu/hr  | 137.00                                                            | 145.00  | 217.00          | 217.00  | 260.00          | 260.00  | 290.00          | 450.00  |
|                                                   | kW       | 40.20                                                             | 42.50   | 63.60           | 63.60   | 76.20           | 76.20   | 85.00           | 131.80  |
| Max Output Rate                                   | Mbtu/hr  | 800.00                                                            | 800.00  | 1250.00         | 1250.00 | 1500.00         | 1500.00 | 2000.00         | 2000.00 |
|                                                   | kW       | 234.46                                                            | 234.50  | 366.34          | 366.34  | 439.62          | 439.62  | 586.17          | 586.17  |
| Min Output Rate                                   | Mbtu/hr  | 132.9                                                             | 140.7   | 208.00          | 208.00  | 250.00          | 250.00  | 281.30          | 436.50  |
|                                                   | kW       | 39.0                                                              | 41.2    | 61.00           | 61.00   | 73.27           | 73.27   | 82.40           | 127.90  |
| Turndown ratio                                    | -        | 6:1                                                               |         | 6:1             |         | 6:1             |         | 6:1             |         |
| Water Flow at Max Power (D36°F/20°C)              | GPM      | 45.33                                                             |         | 70.85           |         | 85.12           |         | 113.33          |         |
|                                                   | m³/h     | 10,30                                                             |         | 16.09           |         | 19.33           |         | 25.74           |         |
| Hydraulic Pressure Drop at Max Power (D36°F/20°C) | Ft. Head | 5.0                                                               |         | 7.5             |         | 8.0             |         | 8.2             |         |
|                                                   | kPa      | 1.5                                                               |         | 2.3             |         | 2.4             |         | 2.5             |         |
| Boiler Water Volume                               | Gallons  | 6.6                                                               |         | 11.0            |         | 12.9            |         | 19.8            |         |
|                                                   | l        | 24.8                                                              |         | 41.5            |         | 48.9            |         | 74.8            |         |
| Max Allowable Water Pressure                      | PSI      | 160                                                               |         |                 |         |                 |         |                 |         |
|                                                   | bar      | 11                                                                |         |                 |         |                 |         |                 |         |
| Safety Relief Valve Pressure                      | PSI      | 75                                                                |         |                 |         |                 |         |                 |         |
|                                                   | bar      | 5.17                                                              |         |                 |         |                 |         |                 |         |
| Limit Thermostat Temperature                      | °F       | 203                                                               |         |                 |         |                 |         |                 |         |
|                                                   | °C       | 95                                                                |         |                 |         |                 |         |                 |         |
| Max Operating Temperature                         | °F       | 185                                                               |         |                 |         |                 |         |                 |         |
|                                                   | °C       | 85                                                                |         |                 |         |                 |         |                 |         |
| Operating Conditions                              | -        | 14-122 °F (-10 +50 °C) ambient temperature, 90% relative humidity |         |                 |         |                 |         |                 |         |
| Fuel Type                                         | -        | Natural Gas (NG), Propane                                         |         |                 |         |                 |         |                 |         |
| Natural Gas Operation Pressure                    | Inch W.C | 7                                                                 |         |                 |         |                 |         |                 |         |
|                                                   | kPa      | 1.7                                                               |         |                 |         |                 |         |                 |         |
| Propane Gas Operation Pressure                    | Inch W.C | 11                                                                |         |                 |         |                 |         |                 |         |
|                                                   | kPa      | 2.7                                                               |         |                 |         |                 |         |                 |         |
| Natural Gas Pressure min/max                      | Inch W.C | 4.0/10.5                                                          |         |                 |         |                 |         |                 |         |
|                                                   | kPa      | 1.0/2.6                                                           |         |                 |         |                 |         |                 |         |
| Propane Pressure min/max                          | Inch W.C | 8/13                                                              |         |                 |         |                 |         |                 |         |
|                                                   | kPa      | 2.0/3.2                                                           |         |                 |         |                 |         |                 |         |
| Manifold pressure                                 | Inch W.C | 0.1                                                               |         |                 |         |                 |         |                 |         |
|                                                   | kPa      | 0.025                                                             |         |                 |         |                 |         |                 |         |
| Flue Type                                         | -        | Sealed Combustion Direct Vent, Category IV                        |         |                 |         |                 |         |                 |         |
| Allowed Flue Vent Materials                       | -        | CPVC, PVC, PP, Stainless steel                                    |         |                 |         |                 |         |                 |         |
| Electrical Supply                                 | -        | 120 V 60 Hz                                                       |         |                 |         |                 |         |                 |         |
| Boiler Supply Water Outlet                        | inches   | 2                                                                 |         | 2               |         | 2               |         | 2               |         |
| Boiler Return Water Outlet                        | inches   | 2                                                                 |         | 2               |         | 2               |         | 2               |         |
| Gas (Fuel) Inlet                                  | inches   | 2                                                                 |         | 2               |         | 2               |         | 2               |         |
| Flue Gas Outlet                                   | inches   | 6                                                                 |         | 8               |         | 8               |         | 8               |         |
|                                                   | mm       | 150                                                               |         | 200             |         | 200             |         | 200             |         |
| Combustion Air Inlet                              | inches   | 6                                                                 |         | 8               |         | 8               |         | 8               |         |
|                                                   | mm       | 150                                                               |         | 200             |         | 200             |         | 200             |         |

|                                                   | Units    | Ultrabox 800 WH                                                   |         | Ultrabox 1250 WH |         | Ultrabox 1500 WH |         | Ultrabox 2000 WH |         |
|---------------------------------------------------|----------|-------------------------------------------------------------------|---------|------------------|---------|------------------|---------|------------------|---------|
| Boiler type                                       | -        | Condensing (HLW), Indoor                                          |         |                  |         |                  |         |                  |         |
| Heat exchanger                                    | -        | Stainless Steel                                                   |         |                  |         |                  |         |                  |         |
| Operation Type (Air-Fuel)                         | -        | Pneumatic                                                         |         |                  |         |                  |         |                  |         |
| Fuel Type                                         |          | NG                                                                | Propane | NG               | Propane | NG               | Propane | NG               | Propane |
| Max Input Rate                                    | Mbtu/hr  | 824.00                                                            | 824.00  | 1300.00          | 1300.00 | 1560.00          | 1560.00 | 2061.00          | 2148.00 |
|                                                   | kW       | 241.50                                                            | 241.50  | 381.00           | 381.00  | 457.19           | 457.19  | 604.02           | 629.52  |
| Min Input Rate                                    | Mbtu/hr  | 137.00                                                            | 145.00  | 217.00           | 217.00  | 260.00           | 260.00  | 290.00           | 450.00  |
|                                                   | kW       | 40.20                                                             | 42.50   | 63.60            | 63.60   | 76.20            | 76.20   | 85.00            | 131.80  |
| Max Output Rate                                   | Mbtu/hr  | 800.00                                                            | 800.00  | 1250.00          | 1250.00 | 1500.00          | 1500.00 | 2000.00          | 2000.00 |
|                                                   | kW       | 234.46                                                            | 234.50  | 366.34           | 366.34  | 439.62           | 439.62  | 586.17           | 586.17  |
| Min Output Rate                                   | Mbtu/hr  | 132.9                                                             | 140.7   | 208.00           | 208.00  | 250.00           | 250.00  | 281.30           | 436.50  |
|                                                   | kW       | 39.0                                                              | 41.2    | 61.00            | 61.00   | 73.27            | 73.27   | 82.40            | 127.90  |
| Turndown ratio                                    | -        | 6:1                                                               |         | 6:1              |         | 6:1              |         | 6:1              |         |
| Water Flow at Max Power (D36°F/20°C)              | GPM      | 45.33                                                             |         | 70.85            |         | 85.12            |         | 113.33           |         |
|                                                   | m³/h     | 10,30                                                             |         | 16.09            |         | 19.33            |         | 25.74            |         |
| Hydraulic Pressure Drop at Max Power (D36°F/20°C) | Ft. Head | 5.0                                                               |         | 7.5              |         | 8.0              |         | 8.2              |         |
|                                                   | kPa      | 1.5                                                               |         | 2.3              |         | 2.4              |         | 2.5              |         |
| Boiler Water Volume                               | Gallons  | 6.6                                                               |         | 11.0             |         | 12.9             |         | 19.8             |         |
|                                                   | l        | 24.8                                                              |         | 41.5             |         | 48.9             |         | 74.8             |         |
| Max Allowable Water Pressure                      | PSI      | 160                                                               |         |                  |         |                  |         |                  |         |
|                                                   | bar      | 11                                                                |         |                  |         |                  |         |                  |         |
| Safety Relief Valve Pressure                      | PSI      | 75                                                                |         |                  |         |                  |         |                  |         |
|                                                   | bar      | 5.17                                                              |         |                  |         |                  |         |                  |         |
| Limit Thermostat Temperature                      | °F       | 203                                                               |         |                  |         |                  |         |                  |         |
|                                                   | °C       | 95                                                                |         |                  |         |                  |         |                  |         |
| Max Operating Temperature                         | °F       | 185                                                               |         |                  |         |                  |         |                  |         |
|                                                   | °C       | 85                                                                |         |                  |         |                  |         |                  |         |
| Operating Conditions                              | -        | 14-122 °F (-10 +50 °C) ambient temperature, 90% relative humidity |         |                  |         |                  |         |                  |         |
| Fuel Type                                         | -        | Natural Gas (NG), Propane                                         |         |                  |         |                  |         |                  |         |
| Natural Gas Operation Pressure                    | Inch W.C | 7                                                                 |         |                  |         |                  |         |                  |         |
|                                                   | kPa      | 1.7                                                               |         |                  |         |                  |         |                  |         |
| Propane Gas Operation Pressure                    | Inch W.C | 11                                                                |         |                  |         |                  |         |                  |         |
|                                                   | kPa      | 2.7                                                               |         |                  |         |                  |         |                  |         |
| Natural Gas Pressure min/max                      | Inch W.C | 4.0/10.5                                                          |         |                  |         |                  |         |                  |         |
|                                                   | kPa      | 1.0/2.6                                                           |         |                  |         |                  |         |                  |         |
| Propane Pressure min/max                          | Inch W.C | 8/13                                                              |         |                  |         |                  |         |                  |         |
|                                                   | kPa      | 2.0/3.2                                                           |         |                  |         |                  |         |                  |         |
| Manifold pressure                                 | Inch W.C | 0.1                                                               |         |                  |         |                  |         |                  |         |
|                                                   | kPa      | 0.025                                                             |         |                  |         |                  |         |                  |         |
| Flue Type                                         | -        | Sealed Combustion Direct Vent, Category IV                        |         |                  |         |                  |         |                  |         |
| Allowed Flue Vent Materials                       | -        | CPVC, PVC, PP, Stainless steel                                    |         |                  |         |                  |         |                  |         |
| Electrical Supply                                 | -        | 120 V 60 Hz                                                       |         |                  |         |                  |         |                  |         |
| Boiler Supply Water Outlet                        | inches   | 2                                                                 |         | 2                |         | 2                |         | 2                |         |
| Boiler Return Water Outlet                        | inches   | 2                                                                 |         | 2                |         | 2                |         | 2                |         |
| Gas (Fuel) Inlet                                  | inches   | 2                                                                 |         | 2                |         | 2                |         | 2                |         |
| Flue Gas Outlet                                   | inches   | 6                                                                 |         | 8                |         | 8                |         | 8                |         |
|                                                   | mm       | 150                                                               |         | 200              |         | 200              |         | 200              |         |
| Combustion Air Inlet                              | inches   | 6                                                                 |         | 8                |         | 8                |         | 8                |         |
|                                                   | mm       | 150                                                               |         | 200              |         | 200              |         | 200              |         |



|                        | Ultrabox 800 H/WH                     | Ultrabox 1250 H/WH                   | Ultrabox 1500 H/WH                   | Ultrabox 2000 H/WH                   |
|------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
|                        | INCHES ( MILLIMETER)                  | INCHES ( MILLIMETER)                 | INCHES ( MILLIMETER)                 | INCHES ( MILLIMETER)                 |
| A (Width)              | 29.44" (748mm)                        | 38.97 " (990 mm)                     | 38.97 " (990 mm)                     | 38.97 " (990 mm)                     |
| B (Length)             | 51.18" (1300mm)                       | 64.17 " (1630mm)                     | 1750mm (68.89 ")                     | 1955 mm (76.96")                     |
| C (Height)             | 42.91" (1090mm)                       | 55.51 " (1410mm)                     | 55.51 " (1410mm)                     | 55.51 " (1410mm)                     |
| D (Gas inlet)          | NPT 2"                                | NPT 2"                               | NPT 2"                               | NPT 2"                               |
| D1                     | 28.93" (735mm)                        | 37" (940 mm)                         | 37" (940 mm)                         | 37" (940 mm)                         |
| D2                     | 9.25" (235mm)                         | 8.66" (220 mm)                       | 8.66" (220 mm)                       | 8.66" (220 mm)                       |
| E (Water outlet conn.) | 2"LB150 FLAN.                         | 2 1/2"LB150 FLAN.                    | 2 1/2"LB150 FLAN.                    | 2 1/2"LB150 FLAN.                    |
| E1                     | 39.56" (1005mm)                       | 50.19" (1275 mm)                     | 50.19" (1275 mm)                     | 50.19" (1275 mm)                     |
| E2                     | 4.52" (115mm)                         | 6.49" (165mm)                        | 6.49" (165mm)                        | 6.49" (165mm)                        |
| F (Water inlet conn.)  | 2"LB150 FLAN.                         | 2 1/2"LB150 FLAN.                    | 2 1/2"LB150 FLAN.                    | 2 1/2"LB150 FLAN.                    |
| F1                     | 39.56" (1005mm)                       | 50.19" (1275mm)                      | 50.19" (1275mm)                      | 50.19" (1275mm)                      |
| F2                     | 9.44" (240mm)                         | 6.49" (165mm)                        | 6.49" (165mm)                        | 6.49" (165mm)                        |
| G (Flue diamter)       | 6" (Ø150mm)                           | 8" (Ø200mm)                          | 8" (Ø200mm)                          | 8" (Ø200mm)                          |
| G1                     | 20.66" (525mm )                       | 27.87" (708mm)                       | 27.87" (708mm)                       | 27.87" (708mm)                       |
| G2                     | 12.28" (312mm)                        | 16.45" (416mm)                       | 16.45" (416mm)                       | 16.45" (416mm)                       |
| H (Air intake)         | 6" (Ø150mm)                           | 8" (Ø200mm)                          | 8" (Ø200mm)                          | 8" (Ø200mm)                          |
| H1 (Air filter size)   | 11.02"x11.81"x0.78"<br>(280x300x20mm) | 11.49"x23.42x1.77"<br>(292x595x45mm) | 11.49"x23.42x1.77"<br>(292x595x45mm) | 11.49"x23.42x1.77"<br>(292x595x45mm) |
| J (Condensate drain)   | 1.57" (Ø40)                           | 1.57" (Ø40)                          | 1.57" (Ø40)                          | 1.57" (Ø40)                          |



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Gassero Isı Teknolojileri



gassero\_offical



Gassero



ENVIRONMENT-FRIENDLY



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