

3. Technical specifications

| Item | Unit | MCA Pro | | | |
|---|---------------------|--|----------|----------|-----------|
| | | 45 | 65 | 90 | 115 |
| Firing Sequence | Type | Modulating, ON/OFF, Remote 0-10 V | | | |
| Minimum Fuel Input | MBH/kW | 34-9.9 | 34 | 55/16.2 | 82/24.0 |
| Minimum Fuel Input | MBH/kW | 156/45.7 | 235/68.8 | 326/95.5 | 399/117.0 |
| Minimum Heat Output | MBH/kW | 33/9.6 | 45/13.3 | 54/15.8 | 79/23.1 |
| Maximum Heat Output | MBH/kW | 146/43.0 | 222/65.0 | 306/89.5 | 368/108.0 |
| Efficiency | | | | | |
| Thermal Efficiency CSA Certified | % | 94.0 | | | |
| Combustion Efficiency CSA Certified | % | 94.3 | | | |
| Boiler Usable Efficiency | % | Up to 98.2 | | | |
| Stand by Losses (Average) | % | <0.3 | | | |
| Gas and Venting Data | | | | | |
| Gas Type | - | Natural Gas/Propane(LPG) | | | |
| Gas Inlet Pressure-Natural Gas | inch w.c/mbar | 3.5-14 / 8.7-35 | | | |
| Gas Inlet Pressure-Propane | inch w.c/mbar | 8-13 / 20-32.5 | | | |
| Nox Emission (O2-0%, dry) | ppm | <21 | | | |
| Flue Gas Mass Range | Lb/h | 31-152 | 46-229 | 62-304 | 79-392 |
| | Kg/h | 14-69 | 21-104 | 28-138 | 36-178 |
| Max. Flue Gas Temp. PVC/CPVC venting | °F/°C | 230/110 | | | |
| Combustion Air Temperature | °F/°C | 32-104/0-40 | | | |
| Gas Vent Category | Types | IV-BH : ANSI Z21.13a / CSA 4.9 | | | |
| Vent Size - Single Pipe | Inch/mm | 3/76.2 | 4/101.6 | 4/101.64 | 4/101.6 |
| Vent Size - Connection Pipe | Inch/mm | 80/125 | 100/150 | 100/150 | 100/150 |
| Residual Fan Duty | inch w.c. | 0.6 | 0.6 | 0.7 | 0.9 |
| | mbar | 1.5 | 1.5 | 1.8 | 2.2 |
| Water | | | | | |
| Max. Water Temperature Safety Limit | °F/°C | 230/110 | | | |
| Operating Water Temp. Range PVC | °F/°C | 68-158/20-70 | | | |
| Operating Water Temp. Rang CPVC / PP / SS | °F/°C | 68-190/20-88 | | | |
| Water Pressure Range | psig/bar | 56/3.9 | | | |
| Water Coalent | USG/L | 1.5/5.5 | 1.7/6.5 | 2.0/7.5 | 2.0/7.5 |
| Water Flow Min. | USGPH | 425 | 640 | 890 | 1360 |
| Water Flow Max. | USGPH | 1050 | 1450 | 1700 | 1700 |
| Water Resistance ($\Delta T = 36^{\circ}F/20^{\circ}C$) | ft H ₂ O | 3.0 | 4.4 | 4.7 | 8.2 |
| | mbar | 90 | 130 | 140 | 245 |
| Electrical | | | | | |
| Main Supply | V/H/P | 120 / 60 / 1 | | | |
| Tating of the Main Fuse F1 | A | 6.3 A | | | |
| Power Consumption | W | 3.5-68 | 3.5-79 | 3.5-129 | 3.5-209 |
| Electrical Protection Index | IP-IEC-N | IP X4D / NEMA-3R | | | |
| Other Characteristics | | | | | |
| CSA Certified Installion Altitude | ft/m | Max. 4,500/1,370 (Canada) For higher altitudes consult factory | | | |
| Dry Boiler Weight | Lb/kg | 117/53 | 133/60 | 148/67 | 150/68 |
| Wetted Weight | Lb/kg | 130/59 | 147/67 | 165/75 | 167/76 |
| Noise Level at @ 1m (Aberage) | dB(A) | 45 | 45 | 52 | 51 |