

# Commercial Gas Condensing Boilers

**QUALITY HYDRONIC HEATING EQUIPMENT** 

# BAXI

# Commercial Gas Condensing Boilers

The BAXI commercial range of wall hung and floor mounted gas hydronic boilers uses cutting edge condensing technology to maximise efficiency and extend lifespan. BAXI are experts in producing high output, scalable modular systems for commercial applications.

#### **BAXI World Leading Boilers**

BAXI are one of the largest manufacturers of heating boilers in Europe with over 700 employees producing approximately 500,000 boilers per year, with distribution to over 82 countries globally.

The BAXI manufacturing facility in Italy includes state of the art R&D laboratories and is accredited to strict European standards. BAXI have a proud history dating back over 150 years and are part of the BDR Thermea group of companies which has an annual turnover exceeding 1.7€ billion.

HydroHeat Supplies are the leading hydronic heating supplies company in Australia and have ben the BAXI Australian distributor for over twenty years, proudly supplying commercial projects the best and most efficient range of heating boilers available on the Australian market.

- > AGA Australian Gas Approvals
- > BAXI Quality European Manufacturing
- > Wall Hung and Floor Mounted Ranges
- > Cascade install up to 16 Units
- > Up to 4000kw heat load capacity
- Warranty & Service Support
- > BAXI Installer Training
- > System Design & Schematics
- > Over 20 years in Australia



BAXI MP+ and POWER HT+ models can easily be installed as cascade plants by using the included software available in both models. In cascade the master boiler is wired with a flow and return sensor, and a communication card is added to all boilers including the master. A cascade plant of up to 16 boilers (up to 4000kW) can be controlled as a modular on/off system.

The cascade software calculates the heat load requirement and only activates the burners required to achieve set temperature. It also rotates lead/lag boilers to avoid overloading single boilers.

With the addition of an outdoor temperature sensor the boilers can modulate based on the calculation between the flow/return and outside temperature, adjusting to maintain temperature setting. The outside compensation setting is perfect for nursing homes and accommodation buildings where a central thermostat is not available or practical.

Alternatively, with a 0-10 volt signal from the building management system (BMS) the entire cascade plant can be directly modulated by the BMS with efficiencies achieved by setting the plant at the lowest possible temperature.

A cascade system enables partial redundancy by taking boilers offline without shutting down the entire plant. In the event of a fault the cascade automatically switches to the next available boiler and sends the fault to the BMS. Codes are also stored in the boiler memory for service technician diagnostics.

#### **Boiler Control Features**

Push button LCD control panel allows easy access to important boiler information:

- > Heating flow & return temperatures
- > Outdoor temperature (optional)
- Domestic hot water temperature (optional)
- > Water pressure, Flue temperature
- > Burner flame operation & working hours
- > Energy consumption kW (heating/DHW)

### **Energy and Cost Saving Benefits**

The best in European boiler design

and manufacturing providing

sustainable, efficient heating.

BAXI condensing boilers have vastly superior net thermal efficiency compared to non-condensing conventional type boilers. The BAXI range of condensing boilers operates at up to 105.5% efficiency. A significant advantage considering heating is the most significant energy cost in a commercial building.

Condensing technology reuses 'latent' heat from the flue gases by incorporating the heat exchanger to increase efficiency, which in turn also lowers the temperature of the flue reducing waste gases (90% less CO and 80% less NOx) in comparison with conventional boilers.

Both the Duo-Tec MP+ and Power HT+ are ideal for retro fit applications as the compact size and light weight allows for easy installation to difficult access areas or rooftops via elevators and stairwells. If crane access is an option the boilers can be preassembled off-site on skids and simply dropped into position.

#### **BAXI Warranty Support & Service**

The global distribution of BAXI ensures warranty support and local availability of spare parts if needed. Parts are carried for a minimum of ten years even after a model is superseded.

BAXI Type A appliance models carry Australian approvals (AGA Cert 7023) for both Natural Gas and LPG, indoor and outdoor use. Type B models require on-site approvals. Servicing is available Australia wide by trained BAXI installers.



## Hydronic System Integration

BAXI PowerHT+

HydroHeat supply components and accessories needed for complete system installations. Correct integration of system components ensures efficiency targets are reached and maximises return on investment. HydroHeat can also assist with schematic installation diagrams.

- > Flue Systems
- > Thermostats & Controllers
- > Zone Management Systems
- BackFlow Prevention
- > Expansion Tanks
- HydroPak Turnkey Kits
- > Valve & Piping Systems

PAXI

BAXI Duo-Tec MP-

- > Fluid Management Systems
- Relay Boxes
- Schematic System Design



BAXI Duo-Tec MP+ condensing boilers in cascade w' APU, Hydraulic Separato



## **Wall Hung Commercial Gas Condensing Boiler**

Wall Hung BAXI Duo-Tec MP+ gas condensing boilers for commercial applications. Rated efficiency up to 105.5% makes the Duo-Tec MP+ one of the greenest & most efficient commercial boilers on the Australian market. Available in 35kW, 50kW, 60kW, 70kW, 90kW, 110kW, 130kW and 150kW.

Class leading modulation 'turndown' ratios adjust heat output to suit demand, prevents on/off cycling and increases efficiency and longevity.



**Boiler Efficiency** 105.5% at 50/30° Net Efficiency



**Environmental** Reduced N0x waste Reduced CO waste



Commercial Factories, hospitals, aged care, offices

2 Year Boiler & Parts

5 Year Heat Exchanger

**Modulation Ratio** 

Adjusts heat output

saves on/off cycling



Cascade Install Cascade install up to 16 boilers



- > Available in eight models 35-150kW, compact wall hung
- > Type A appliance Indoor / Outdoor models, NG & LPG AGA 7023 approved
- > Rated Efficiency up to 105.5% at 50/30 °C
- > 316 Stainless Steel Heat Exchanger (5 yr warranty) Single Chamber (35 - 70kW), Double Chamber (90 -150kW)
- > Condensing burner reuses waste flue gases reduces noxious waste (up to 80% NOx, 90% CO)
- > Room sealed option available for installations where ventilation is not sufficient
- > Front access for easy servicing
- > Easy to use backlit control panel
- Modulating fan with electronic speed adjusting system
- > Conforms to strict European emissions standards
- Mixed zone system (high and low temperature) option
- > Integral High-Flow Modulating Pump for increased flow rate efficiency
- > Optional HLI (High Level Interface) to BACnet, Modbus
- > Facility for DHW connection

#### **Modular Cascade installation**

- > Cascade install up to 16 boilers (16 x 150 = 2400kW)
- Modulation 'turndown' ratio prevents short cycling (1:9 50-110kW, 1:7 35kW, 1:5 130-150kW)

#### **Control System**

- > Safety NTC sensor to prevent flue overheating
- > Pressure relief valve (4bar 35-110kW, 6 bar 130-150kW)
- > Electronic pressure switch in event of low water or high pressure
- > Electronic thermometer, heating pressure gauge
- > Heating and DHW settings in one control panel
- > Outdoor temperature compensation option with QAC34 sensor
- > Frost protection and pump anti-stick activates pump every 24hrs when in stand by mode
- > Connects to Building Management System (BMS) via AGU.2.550, stores fault codes in boiler memory







**Outdoor Models** 

	Due Tee MD.		Type A appliance							
Type (indoor/outdoor)	Duo-Tec MP+		35kW	50kW	60kW	70kW	90kW	110kW	130kW	150kW
Nominal gas consumption   Mj   140   185   225   265   349   415   495   57	Duo-Tec MP+ Model Code		MP+ 1.35	MP+ 1.50	MP+ 1.60	MP+ 1.70	MP+ 1.90	MP+ 1.110	MP+ 1.130	MP+ 1.150
Minimum gas input         Mj         20         20         25         29         40         50         99         111           Maximum heat output (80/60°C)         kW         33.8         45         55         65         85         102         121.5         140           Minimum heat output (80/60°C)         kW         5         5         6.1         7.2         9.4         11.4         24.3         28           Maximum heat output (50/30°C)         kW         36.6         48.6         59.4         70.2         91.8         110.2         130.6         155           Minimum heat output (50/30°C)         kW         5.4         5.4         6.6         7.8         10.2         12.3         26.2         30           SEDBUK energy efficiency class         -         A         A         A         A         -	Type (indoor/outdoor)	-	ID/OD	ID/OD	ID/OD	ID/OD	ID/OD	ID/OD	ID/OD	ID/OD
Maximum heat output (80/60°C)         kW         33.8         45         55         65         85         102         121.5         144           Minimum heat output (80/60°C)         kW         5         5         6.1         7.2         9.4         11.4         24.3         28           Maximum heat output (50/30°C)         kW         36.6         48.6         59.4         70.2         91.8         110.2         130.6         155           Minimum heat output (50/30°C)         kW         5.4         5.4         6.6         7.8         10.2         12.3         26.2         30           SEDBUK energy efficiency class         -         A         A         A         A         A         -	Nominal gas consumption	Mj	140	185	225	265	349	415	495	572
Minimum heat output (80/60°C)         kW         5         5         6.1         7.2         9.4         11.4         24.3         28           Maximum heat output (50/30°C)         kW         36.6         48.6         59.4         70.2         91.8         110.2         130.6         150           Minimum heat output (50/30°C)         kW         5.4         5.4         6.6         7.8         10.2         12.3         26.2         30           SEDBUK energy efficiency class         -         A         A         A         A         A         -         -         -         -           Efficiency at 50/30°C         %         105.0         105.0         105.0         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5         105.1         105.5	Minimum gas input	Mj	20	20	25	29	40	50	99	114
Maximum heat output (50/30°C)         kW         36.6         48.6         59.4         70.2         91.8         110.2         130.6         150.6           Minimum heat output (50/30°C)         kW         5.4         5.4         6.6         7.8         10.2         12.3         26.2         30.0           EFficiency at 50/30°C         kW         5.4         5.4         6.6         7.8         10.2         12.3         26.2         30.0           EFficiency at 50/30°C         %         105.0         105.0         105.0         105.0         105.5         105.1         105.5         105.1           Efficiency at 80/60°C         %         97.4         97.4         97.2         97.2         97.3         97.2         98.1         98.           NOx emissions (EN 15502-1)         mg/kWh         31.8         29.8         34.1         34.8         39.5         24.7         17         22.2           Min-Max water heating circuit pressure         bar         0.5-4.0         0.5-4.0         0.5-4.0         0.5-4.0         0.5-4.0         0.5-4.0         0.5-4.0         0.8-6.0         0.8-6.0         0.8-6.0         0.8-6.0         0.8-6.0         0.8-6.0         0.8-6.0	Maximum heat output (80/60°C)	kW	33.8	45	55	65	85	102	121.5	140.3
SEDBUK energy efficiency class	Minimum heat output (80/60°C)	kW	5	5	6.1	7.2	9.4	11.4	24.3	28.1
SEDBUK energy efficiency class   -   A   A   A   A   A   A   -   -   -	Maximum heat output (50/30°C)	kW	36.6	48.6	59.4	70.2	91.8	110.2	130.6	150.9
Efficiency at 50/30°C % 105.0 105.0 105.0 105.0 105.5 105.1 105.5 105.   Efficiency at 80/60°C % 97.4 97.4 97.2 97.2 97.2 97.3 97.2 98.1 98.   NOx emissions (EN 15502-1) mg/kWh 31.8 29.8 34.1 34.8 39.5 24.7 17 22.   Min-Max water heating circuit pressure bar 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.8-6.0 0.8-   Max inlet temperature heating circuit "C 90 90 90 90 90 90 90 90 90 90 90 90 90	Minimum heat output (50/30°C)	kW	5.4	5.4	6.6	7.8	10.2	12.3	26.2	30.2
Efficiency at 50/30°C % 105.0 105.0 105.0 105.0 105.5 105.1 105.5 105.   Efficiency at 80/60°C % 97.4 97.4 97.2 97.2 97.2 97.3 97.2 98.1 98.   NOx emissions (EN 15502-1) mg/kWh 31.8 29.8 34.1 34.8 39.5 24.7 17 22.   Min-Max water heating circuit pressure bar 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.5-4.0 0.8-6.0 0.8-   Max inlet temperature heating circuit "C 90 90 90 90 90 90 90 90 90 90 90 90 90	SEDRUK energy efficiency class		A	A	A	A	_			_
Efficiency at 80/60°C   %   97.4   97.4   97.2   97.2   97.3   97.2   98.1   98.										105.5
NOx emissions (EN 15502-1)   mg/kWh   31.8   29.8   34.1   34.8   39.5   24.7   17   22.5										
Min-Max water heating circuit pressure         bar         0.5-4.0         0.5-4.0         0.5-4.0         0.5-4.0         0.5-4.0         0.8-6.0         0.90         9.0										
Max inlet temperature heating circuit         °C         90         25-80										
Heating temperature range   °C   25-80   25-										
Modulation Turndown Ratio         -         1:7         1:9         1:9         1:9         1:9         1:9         1:9         1:5         1:5           Water content         I         4         4         5         6         9         10         10         11           Coaxial flue duct / Separate outlets         mm         80/125 or 80/80         110/160 or 110/110           Min / Max flue flow rate         kg/s         0.002/0.016         0.002/0.021         0.003/0.026         0.004/0.031         0.005/0.040         0.005/0.047         0.012/0.056         0.014/0           Maximum flue temperature         °C         90         92         96         76         70         70         70         70           Power consumption         W         180         230         230         230         275         320         360         46           Dimensions indoor (h×w×d)         mm         766 x 450 x 377         766x450x505         952 x 600 x 584           Dry weight ID / OD         kg         40/49         40/49         40/49         50/59         83/96         93/106         93/106         96/10           Gas type (natural / propane)	•									
Water content         I         4         4         5         6         9         10         10         11           Coaxial flue duct / Separate outlets         mm         80/125 or 80/80         110/160 or 110/110           Min / Max flue flow rate         kg/s         0.002/0.016         0.002/0.021         0.003/0.026         0.004/0.031         0.005/0.040         0.005/0.047         0.012/0.056         0.014/0.056           Maximum flue temperature         °C         90         92         96         76         70										
Coaxial flue duct / Separate outlets         mm         80/125 or 80/80         110/160 or 110/110           Min / Max flue flow rate         kg/s         0.002/0.016         0.002/0.021         0.003/0.026         0.004/0.031         0.005/0.040         0.005/0.047         0.012/0.056         0.014/0           Maximum flue temperature         °C         90         92         96         76         70         70         70         70           Power consumption         W         180         230         230         230         275         320         360         46           Dimensions indoor (h×w×d)         mm         766 x 450 x 377         766x450x505         952 x 600 x 584         952 x 600 x 584           Dimensions outdoor (h×w×d)         mm         960 x 473 x 400         960x473x530         1252 x 623 x 608           Dry weight ID/OD         kg         40/49         40/49         50/59         83/96         93/106         93/106         96/10           Gas type (natural/propane)         -         NG/LPG         <	Modulation Turndown Ratio	-	1:7	1:9	1:9	1:9	1:9	1:9	1:5	1:5
Min / Max flue flow rate         kg/s         0.002/0.016         0.002/0.021         0.003/0.026         0.004/0.031         0.005/0.040         0.005/0.047         0.012/0.056         0.014/0.056           Maximum flue temperature         °C         90         92         96         76         70         70         70         70           Power consumption         W         180         230         230         230         275         320         360         46           Dimensions indoor (h×w×d)         mm         766 x 450 x 377         766x450x505         952 x 600 x 584         952 x 600 x 584         952 x 623 x 608         952 x 623 x 608         952 x 600 x 584         952 x 623 x 608         952 x 600 x 584         952 x 623 x 608         952 x 623 x 623 x 608         952 x 623 x 608         952 x 623 x 623 x 608         952 x 623 x 623 x 608         952 x 623 x 623 x 623 x 608         952 x 623 x 6	Water content	I	4	4	5	6	9	10	10	11
Maximum flue temperature         °C         90         92         96         76         70         70         70         70           Power consumption         W         180         230         230         230         275         320         360         46           Dimensions indoor (h×w×d)         mm         766 x 450 x 377         766 x 450 x 505         952 x 600 x 584         952 x 600 x 584         952 x 603 x 608	Coaxial flue duct / Separate outlets	mm		80/125	or 80/80			110/160	or 110/110	
Power consumption         W         180         230         230         230         275         320         360         46           Dimensions indoor (h×w×d)         mm         766 x 450 x 377         766x450x505         952 x 600 x 584           Dimensions outdoor (h×w×d)         mm         960 x 473 x 400         960x473x530         1252 x 623 x 608           Dry weight ID / OD         kg         40/49         40/49         50/59         83/96         93/106         93/106         96/10           Gas type (natural / propane)         -         NG/LPG	Min / Max flue flow rate	kg/s	0.002/0.016	0.002/0.021	0.003/0.026	0.004/0.031	0.005/0.040	0.005/0.047	0.012/0.056	0.014/0.064
Dimensions indoor (h×w×d)   mm   766 x 450 x 377   766x450x505   952 x 600 x 584     Dimensions outdoor (h×w×d)   mm   960 x 473 x 400   960x473x530   1252 x 623 x 608     Dry weight ID/OD   kg   40/49   40/49   50/59   83/96   93/106   93/106   96/106     Gas type (natural/propane)   - NG/LPG   N	Maximum flue temperature	°C	90	92	96	76	70	70	70	70
Dimensions outdoor (h×w×d)         mm         960 x 473 x 400         960x473x530         1252 x 623 x 608           Dry weight ID/OD         kg         40/49         40/49         50/59         83/96         93/106         93/106         96/10           Gas type (natural/propane)         -         NG/LPG         NG/LPG <th>Power consumption</th> <th>w</th> <th>180</th> <th>230</th> <th>230</th> <th>230</th> <th>275</th> <th>320</th> <th>360</th> <th>460</th>	Power consumption	w	180	230	230	230	275	320	360	460
Dimensions outdoor (h×w×d)         mm         960 x 473 x 400         960x473x530         1252 x 623 x 608           Dry weight ID/OD         kg         40/49         40/49         50/59         83/96         93/106         93/106         96/10           Gas type (natural/propane)         -         NG/LPG         NG/LPG <th>Dimensions indoor (h×w×d)</th> <th>mm</th> <th></th> <th>766 x 450 x 377</th> <th></th> <th>766x450x505</th> <th></th> <th>952 x 6</th> <th>00 x 584</th> <th></th>	Dimensions indoor (h×w×d)	mm		766 x 450 x 377		766x450x505		952 x 6	00 x 584	
Dry weight ID / OD         kg         40/49         40/49         40/49         50/59         83/96         93/106         93/106         96/10           Gas type (natural / propane)         -         NG/LPG		mm				960x473x530				
Gas type (natural/propane)         -         NG/LPG			40/49		40/49		83/96			96/109
Gas input pressure (natural/propane) kPa 1.13/2.75 1.13/2.75 1.13/2.75 1.13/2.75 1.13/2.75 1.13/2.75 1.13/2.75 1.13/2.75		_								NG/LPG
										1.13/2.75
POWER SUPPLY V/HZ 230V/SUHZ 230V/SUH	Power Supply	V/Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Noise level at 1 metre db(A) <50 <50 <50 <50 <50 <60 <6	Noise level at 1 metre	db(A)	<50	<50	<50	<50	<50	<50	<60	<60

#### Type A appliance

- > Type A appliance
- > Building J Compliant
- > AGA approved for indoor, outdoor use
- > Approved for Natural Gas, Propane (LPG)
- > Electrical and fittings approvals











# BAXI Power HT+

## **Floor Standing Commercial Gas Condensing Boiler**

BAXI Power HT+ floor standing condensing boilers for commercial applications. Leading European technology, high efficiency and compact dimensions. AGA Type A appliances approved for indoor and outdoor installation in 50kW, 70kW, 90kW, 110kW, 130kW & 150kW. Type B appliances requiring on-site approvals in 200kW and 250kW.

Single unit installations and cascade systems up to 16 boilers ( $16 \times 250 = 4000 \text{kW}$ ).



**Boiler Efficiency** 105.5% at 50/30° Net Efficiency



**Environmental** Reduced N0x waste Reduced CO waste



**Commercial** Factories, hospitals, aged care, offices



Cascade Install Cascade install up to 16 Boilers



2 Yr Boiler & Parts

5 Yr Heat Exchanger

**Modulation Ratio** Adjusts heat output saves on/off cycling

#### **BAXI Power HT+ Features**

- > Available in eight models 50 250kW floor standing
- > Indoor / Outdoor models NG & LPG
- > Rated Efficiency up to 105.5% at 50/30 °C
- > 316 Stainless Steel Heat Exchanger (5 yr warranty)
- > Condensing burner reuses waste flue gases reduces noxious waste (up to 80% NOx, 90% CO)
- > Room sealed option available for installations where ventilation is not sufficient
- Modulating fan with electronic speed adjustment for constant air/gas ratio
- > Conforms to strict European emissions standards
- > Mixed zone system (high and low temperature) option
- > Optional HLI (High Level Interface) to BACnet, Modbus
- > Facility for DHW connection
- > Readily available system accessories

#### **Modular Cascade installation**

- > Cascade install up to 16 boilers (16 x 250 = 4000kW)
- > Connection for indirect DHW cylinder, electrical connections for secondary heating and DHW pump
- > Compact size and weight suits retro fit applications with difficult access plant rooms and roof tops
- > Modulation 'turndown' ratio prevents short cycling (1:9 50-110kW, 1:5 130-150kW, 1:6 200-250kW)

#### **Control System**

- > Safety NTC sensor to prevent flue overheating
- > Pressure relief valve (4 bar 50-110kW, 6 bar 130-250kW)
- > Electronic pressure switch in event of low water or high pressure
- > Electronic thermometer, heating pressure gauge
- > Heating and DHW settings in one control panel
- > Outdoor temperature compensation option with QAC34 sensor
- > Frost protection and pump anti-stick activates pump every 24hrs when in stand by mode
- > Connects to Building Management System (BMS) via AGU.2.550, stores fault codes in boiler memory







Outdoor Models

Power HT+	Dower HT.		Type A appliance					Type B appliance	
P OWEI III +		50kW	70kW	90kW	110kW	130kW	150kW	200kW	250kW
Power HT+ Model Code		PHT+ 1.50	PHT+ 1.70	PHT+ 1.90	PHT+ 1.110	PHT+ 1.130	PHT+ 1.150	PHT+ 1.200	PHT+ 1.250
Type (indoor/outdoor)	-	ID/OD	ID/OD	ID/OD	ID/OD	ID/OD	ID/OD	ID/OD	ID/OD
Nominal gas consumption	Mj	185	265	349	415	495	572	687	864
Minimum gas input	Mj	20	29	40	50	99	114	115	143
Maximum heat output (80/60°C)	kW	45	65	85	102	121.5	140.3	185.9	232.8
Minimum heat output (80/60°C)	kW	5	7.2	9.4	11.4	24.3	28.1	31	38.8
Maximum heat output (50/30°C)	kW	48.6	70.2	91.8	110.2	130.6	150.9	200	250
Minimum heat output (50/30°C)	kW	5.4	7.8	10.2	12.3	26.2	30.2	33.1	41.7
SEDBUK energy efficiency class	-	A	A	-	-	-	-	-	-
Efficiency at 50/30°C	%	105.0	105.0	105.5	105.1	105.5	105.5	104.2	104.2
Efficiency at 80/60°C	%	97.4	97.2	97.3	97.2	98.1	98.1	97.3	97.2
NOx emissions (EN 15502-1)	mg/kWh	29.8	34.8	39.5	24.7	17	23	33.5	35.1
Min - Max water heating circuit pressure	bar	0.5-4.0	0.5-4.0	0.5-4.0	0.5-4.0	0.8-6.0	0.8-6.0	0.5-6.0	0.5-6.0
Max inlet temperature heating circuit	°C	90	90	90	90	90	90	90	90
Heating temperature range	°C	25-80	25-80	25-80	25-80	25-80	25-80	25-80	25-80
Modulation Turndown Ratio	-	1:9	1:9	1:9	1:9	1:5	1:5	1:6	1:6
Water content	ı	4	6	9	10	10	11	13	15
Flue Type (Coaxial Flue / Dual Flue)	mm		Room Sealed or 80/80		Room Sealed or 110/110	Co-Axial Flue			e Option /150
Min/Max flue flow rate	kg/s	0.007/0.075	0.014/0.111	0.018/0.144	0.018/0.169	0.043/0.201	0.005/0.230	0.054/0.322	0.069/0.411
Maximum flue temperature	°C	92	76	70	70	70	70	80	80
Power consumption	w	100	117	146	185	187	283	242	369
Dimensions indoor (h×w×d)	mm	904 x 6	00 x 681		1221 x 6	00 x 681		1238x60	00x1410
Dimensions outdoor (h×w×d)	mm		10 x 750			10 x 750			10x1430
Dry weight ID/OD	kg	60 / 74	70/84	104 /119	109 /124	126/141	132 /147	212/242	232/262
Gas type (natural/propane)	- Kg	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG
Gas input pressure (natural/propane)	kPa	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75
Power Supply	V/Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Noise level at 1 metre	db(A)	<50	<50	<50	<50	<63	<63	<65	<68

#### Type A appliance

- > 50kW 150kW models
- Australian Building J Compliant
- > AGA approved for indoor, outdoor use
- ➤ Approved for Natural Gas, Propane (LPG)
- > Co-Axial Flue, Room Sealed

#### Type B appliance

- > 200kW 250kW models
- > Requires on-site install & commissioning approvals
- Dual Flue



AS 3498 / AS 4552

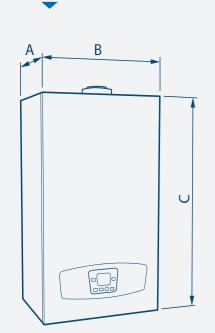




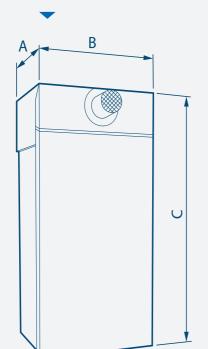


## Dimensions & Connections

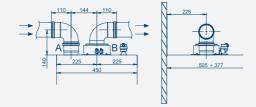
#### **Indoor Dimensions**



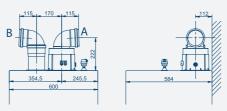
#### **Outdoor Dimensions**



Duo-Tec MP+ **1.35**, **1.50**, **1.60**, **1.70** 



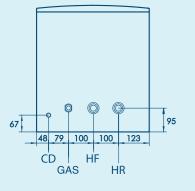
Duo-Tec MP+ **1.90**, **1.110**, **1.130**, **1,150** 

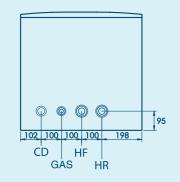


Duo-Tec MP+		1.35	1.50	1.60	1.70	1.90	1.110	1.130	1.150
A = Depth (Indoor)	mm	377	377	377	505	584	584	584	584
A = Depth (Outdoor)	mm	400	400	400	530	608	608	608	608
B = Width (Indoor)	mm	450	450	450	450	600	600	600	600
B = Width (Outdoor)	mm	473	473	473	473	623	623	623	623
C = Height (Indoor)	mm	766	766	766	766	952	952	952	952
C = Height (Outdoor)	mm	960	960	960	960	1252	1252	1252	1252

#### **Connections**

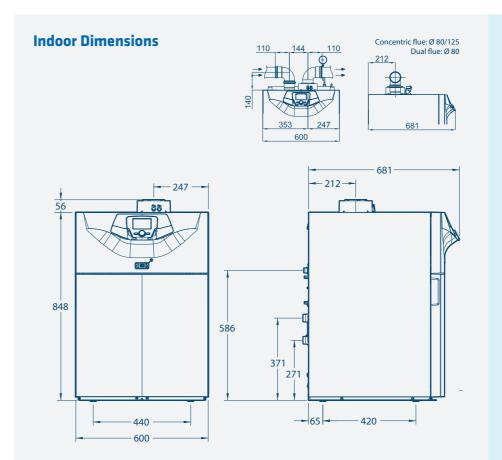
Duo-Tec MP+ **1.35**, **1.50**, **1.60**, **1.70** Duo-Tec MP+ **1.90**, **1.110**, **1.130**, **1,150** 



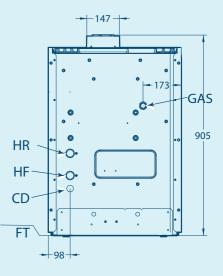


Duo-Te	c MP+	1.35 - 1.70	1.90 - 1.150
HF:	Heating Flow	1"	11/2"
HR:	Heating Return	1"	11/2"
GAS:	Gas Inlet	3/4"	1"
CD:	Condensing Discharge	Fixed ¾"	Flexible 1"

(All male BSP threads)



# Connections

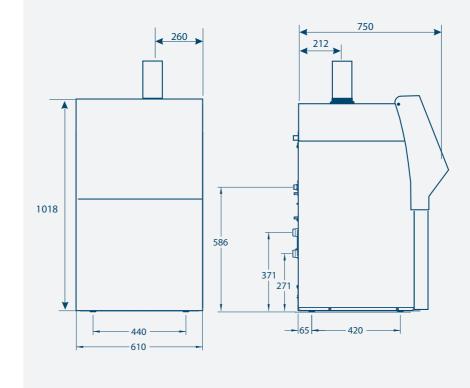


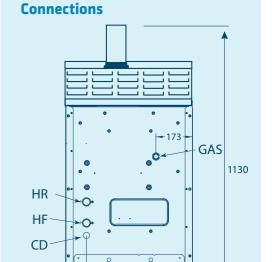
Power HT+ Indoor Model				
HF:	Heating Flow	1"		
HR:	Heating Return	1"		
GAS:	Gas Inlet	3/4"		
CD:	Condensing Discharge	DN18		
FT:	Adjustable Feet			

(All male BSP threads)

#### **Outdoor Dimensions**

**Power HT+** 1.50 - 1.70





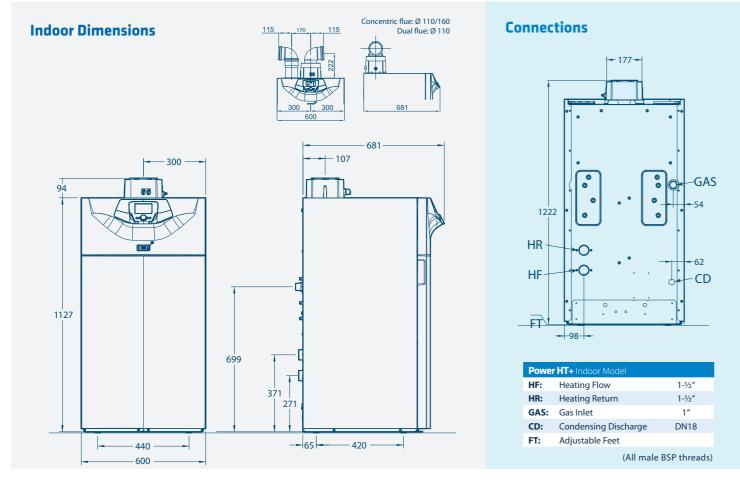
Power HT+ Outdoor Model				
HF:	Heating Flow	1"		
HR:	Heating Return	1"		
GAS:	Gas Inlet	3/4"		
CD:	Condensing Discharge	DN18		
FT:	Adjustable Feet			

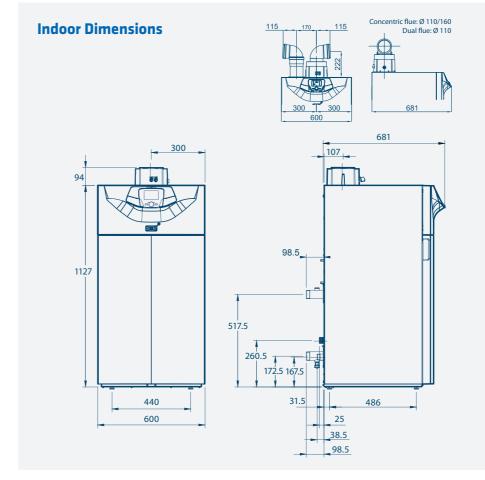
FT

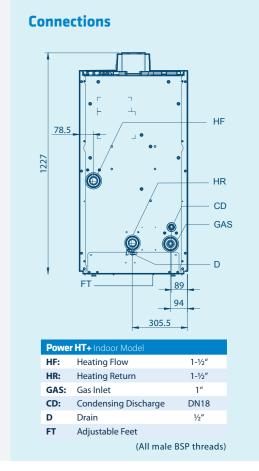
(All male BSP threads)

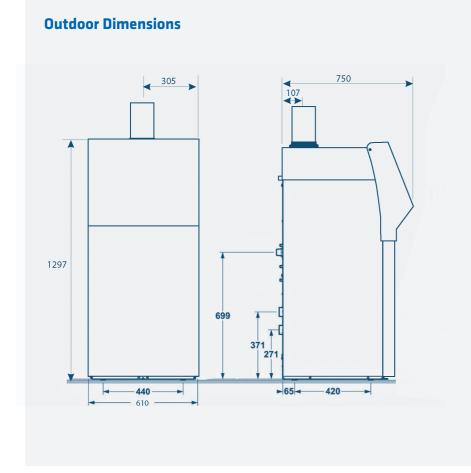
Dimensions & Connections Power HT+ 1.130 & 1.150

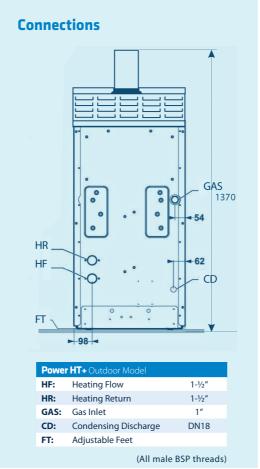
# Dimensions & Connections

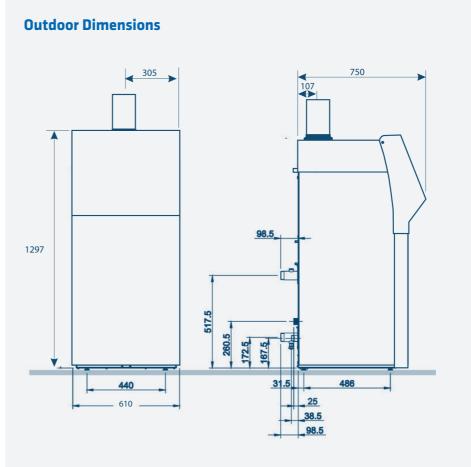


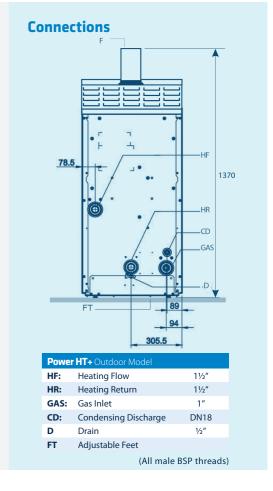








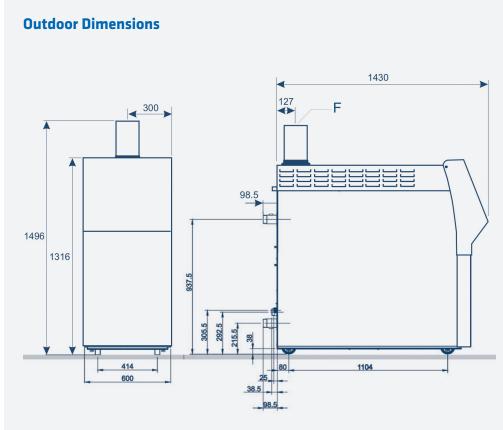




**Connections** 

#### HF CD GAS HR D 300 Power HT+ Indoor R2" HF: Heating Flow HR: Heating Return R2" GAS: Gas Inlet 1½" CD: DN18 Condensing Discharge Drain 1/2 " D: Flue Gas Outlet 150mm AI: Air Inlet 150mm (All male BSP threads)

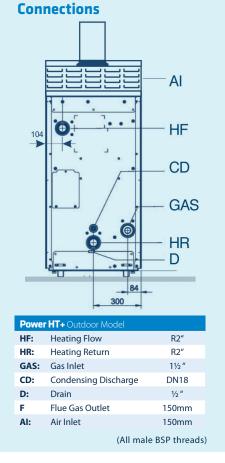
# Indoor Dimensions 300 99.5 127 F AI 414 600





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