No :	P300-8
Issue Date :	JULY 2002

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Advanced boiler technology

TECHNICAL SPECIFICATION SHEET

MODEL : P300 **No of SECTIONS : 8**

General Details
Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for max efficiency and min Nox production, large insulated door (hinged left or right) allowing easy access for cleaning. Water cooled base and back sections.
Powder coated enamel steel casing c/w glass fibre insulation.Supplied broken down for delivery.
Manufactured to ISO 9001. CE approved.

Rated Output kW :	278	**Efficiency % GCV :**	83
Weight (dry) kgs :	1040	**Casing Colour BS No.**	RAL2002
Overall Dim WxHxD mm :	870x1455x1520		
Radiated Losses % :	0.45		
BURNER TYPE	**Pressure Jet**		
Fuel Available :	Gas - Cu M/hr	Oil - kgs/hr	Dual Fuel
Fuel Consumption M^3/h :	31	26	
Noise levels dB(A) :	70 - 90		
Min Op Gas Press mbar :	17		
HYDRAULICS			
Water Content ltrs :	146	**Min Return Temp °C**	45
Resist @ 10°C Δt mbar :	45	**Connection Size mm :**	100 - PN16
Nom Flow Rate @ 11 ^{0}C Δt l/s :	6.05	**Std Operating Temp °C :**	80
Shunt Flow Rate l/s :	30% of Nom flow	**Max Operating Temp °C :**	95
Min Flow Rate l/s :	1.11#	**High Limit Set Point °C :**	110
Max Op Press bars :	6		
Test Press bar :	12		

Min flow required for 5 minutes after shutting down to prevent high limit stat operating

FLUE			
Diameter mm :	300	**Flue Gas Vol Cu M/h :**	392
Flue Type :	Conventional	**Flue Gas Flow kgs/hr :**	485
Chamber Resist. mbar :	1.1		

ELECTRICAL	**Boiler**		**Burner**	
Voltage :	230.1.50	**Voltage : (optional)**	**1 ph**	**3 ph**
Fuse rating amps :	6	**Fuse rating amps :**	10	5
		Run Current amps :	3.1	0.7
		Start Current amps :	15	3.5

CONTROL OPERATION			
Standard :	On / Off Thermostat	Hours Run Meter	L/O lamp
	High limit Thermostat	Temperature indication	On off switch
Optional :	High / Low	Hours Run Meter	BMS Contacts
	Modulating	Rematic compensator	

No :	P300-9
Issue Date :	JULY 2002

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TECHNICAL SPECIFICATION SHEET

MODEL : P300 **No of SECTIONS : 9**

General Details
Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for max efficiency and min Nox production, large insulated door (hinged left or right) allowing easy access for cleaning. Water cooled base and back sections.
Powder coated enamel steel casing c/w glass fibre insulation.Supplied broken down for delivery.
Manufactured to ISO 9001. CE approved.

Rated Output kW :	331	**Efficiency % GCV :**	83
Weight (dry) kgs :	1145	**Casing Colour BS No.**	RAL2002
Overall Dim WxHxD mm :	870x1455x1670		
Radiated Losses % :	0.45		

BURNER TYPE	**Pressure Jet**		
Fuel Available :	Gas - Cu M/hr	Oil - kgs/hr	Dual Fuel
Fuel Consumption M^3/h :	38.13	31	
Noise levels dB(A) :	70 – 90		
Min Op Gas Press mbar :	17		

HYDRAULICS			
Water Content ltrs :	163	**Min Return Temp °C**	45
Resist @ 10°C Δt mbar :	56	**Connection Size mm :**	100 - PN16
Nom Flow Rate @ 11 ^{0}C Δt l/s :	7.20	**Std Operating Temp °C :**	80
Shunt Flow Rate l/s :	30% of Nom flow	**Max Operating Temp °C :**	95
Min Flow Rate l/s :	1.32#	**High Limit Set Point °C :**	110
Max Op Press bars :	6		
Test Press bar :	12		

Min flow required for 5 minutes after shutting down to prevent high limit stat operating

FLUE			
Diameter mm :	300	**Flue Gas Vol Cu M/h :**	466
Flue Type :	Conventional	**Flue Gas Flow kgs/hr :**	576
Chamber Resist. mbar :	1.4		

ELECTRICAL	**Boiler**		**Burner**	
Voltage :	230.1.50	**Voltage : (optional)**	**1 ph**	**3 ph**
Fuse rating amps :	6	**Fuse rating amps :**	15	10
		Run Current amps :	4.8	1.7
		Start Current amps :	22	11

CONTROL OPERATION			
Standard :	On / Off Thermostat	Hours Run Meter	L/O lamp
	High limit Thermostat	Temperature indication	On off switch
Optional :	High / Low	Hours Run Meter	BMS Contacts
	Modulating	Rematic compensator	

No :	P300-10
Issue Date :	JULY 2002

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TECHNICAL SPECIFICATION SHEET

MODEL : P300 **No of SECTIONS : 10**

General Details
Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for max efficiency and min Nox production, large insulated door (hinged left or right) allowing easy access for cleaning. Water cooled base and back sections.
Powder coated enamel steel casing c/w glass fibre insulation.Supplied broken down for delivery.
Manufactured to ISO 9001. CE approved.

Rated Output kW :	383	**Efficiency % GCV :**	83
Weight (dry) kgs :	1250	**Casing Colour BS No.**	RAL2002
Overall Dim WxHxD mm :	870x1455x1820		
Radiated Losses % :	0.45		

BURNER TYPE	**Pressure Jet**		
Fuel Available :	Gas - Cu M/hr	Oil - kgs/hr	Dual Fuel
Fuel Consumption M^3/h :	43.8	36	
Noise levels dB(A) :	70 - 90		
Min Op Gas Press mbar :	17		

HYDRAULICS			
Water Content ltrs :	180	**Min Return Temp °C**	45
Resist @ 10°C Δt mbar :	72	**Connection Size mm :**	100 - PN16
Nom Flow Rate @ 11 ^{0}C Δt l/s :	8.33	**Std Operating Temp °C :**	80
Shunt Flow Rate l/s :	30% of Nom flow	**Max Operating Temp °C :**	95
Min Flow Rate l/s :	1.53#	**High Limit Set Point °C :**	110
Max Op Press bars :	6		
Test Press bar :	12		

Min flow required for 5 minutes after shutting down to prevent high limit stat operating

FLUE			
Diameter mm :	300	**Flue Gas Vol Cu M/h :**	536
Flue Type :	Conventional	**Flue Gas Flow kgs/hr :**	663
Chamber Resist. mbar :	1.9		

ELECTRICAL	**Boiler**		**Burner**	
Voltage :	230.1.50	**Voltage : (optional)**	**1 ph**	**3 ph**
Fuse rating amps :	6	**Fuse rating amps :**	15	10
		Run Current amps :	4.8	1.7
		Start Current amps :	22	11

CONTROL OPERATION			
Standard :	On / Off Thermostat	Hours Run Meter	L/O lamp
	High limit Thermostat	Temperature indication	On off switch
Optional :	High / Low	Hours Run Meter	BMS Contacts
	Modulating	Rematic compensator	

No :	P300-11
Issue Date :	JULY 2002

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TECHNICAL SPECIFICATION SHEET

MODEL : P300 **No of SECTIONS : 11**

General Details
Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for max efficiency and min Nox production, large insulated door (hinged left or right) allowing easy access for cleaning. Water cooled base and back sections.
Powder coated enamel steel casing c/w glass fibre insulation.Supplied broken down for delivery.
Manufactured to ISO 9001. CE approved.

Rated Output kW :	437	**Efficiency % GCV :**	83
Weight (dry) kgs :	1355	**Casing Colour BS No.**	RAL2002
Overall Dim WxHxD mm :	870x1455x1970		
Radiated Losses % :	0.45		

BURNER TYPE	**Pressure Jet**		
Fuel Available :	Gas - Cu M/hr	Oil - kgs/hr	Dual Fuel
Fuel Consumption M^3/h :	50.03	41	
Noise levels dB(A) :	70 - 90		
Min Op Gas Press mbar :	17		

HYDRAULICS			
Water Content ltrs :	197	**Min Return Temp °C**	45
Resist @ 10°C Δt mbar :	88	**Connection Size mm :**	100 - PN16
Nom Flow Rate @ 11 ^{0}C Δt l/s :	9.50	**Std Operating Temp °C :**	80
Shunt Flow Rate l/s :	30% of Nom flow	**Max Operating Temp °C :**	95
Min Flow Rate l/s :	1.74#	**High Limit Set Point °C :**	110
Max Op Press bars :	6		
Test Press bar :	12		

Min flow required for 5 minutes after shutting down to prevent high limit stat operating

FLUE			
Diameter mm :	300	**Flue Gas Vol Cu M/h :**	611
Flue Type :	Conventional	**Flue Gas Flow kgs/hr :**	756
Chamber Resist. mbar :	2.4		

ELECTRICAL	**Boiler**		**Burner**	
Voltage :	230.1.50	**Voltage : (optional)**	**1 ph**	**3 ph**
Fuse rating amps :	6	**Fuse rating amps :**	15	10
		Run Current amps :	4.8	1.7
		Start Current amps :	22	11

CONTROL OPERATION			
Standard :	On / Off Thermostat	Hours Run Meter	L/O lamp
	High limit Thermostat	Temperature indication	On off switch
Optional :	High / Low	Hours Run Meter	BMS Contacts
	Modulating	Rematic compensator	

No :	P300-12
Issue Date :	JULY 2002

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TECHNICAL SPECIFICATION SHEET

MODEL : P300	No of SECTIONS : 12

General Details
Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for max efficiency and min Nox production, large insulated door (hinged left or right) allowing easy access for cleaning. Water cooled base and back sections.
Powder coated enamel steel casing c/w glass fibre insulation.Supplied broken down for delivery.
Manufactured to ISO 9001. CE approved.

Rated Output kW :	491	**Efficiency % GCV :**	83
Weight (dry) kgs :	1460	**Casing Colour BS No.**	RAL2002
Overall Dim WxHxD mm :	870x1455x2120		
Radiated Losses % :	0.45		

BURNER TYPE	**Pressure Jet**		
Fuel Available :	Gas - Cu M/hr	Oil - kgs/hr	Dual Fuel
Fuel Consumption M^3/h :	56.08	46	
Noise levels dB(A) :	70 - 90		
Min Op Gas Press mbar :	17		

HYDRAULICS			
Water Content ltrs :	214	**Min Return Temp °C**	45
Resist @ 10°C Δt mbar :	108	**Connection Size mm :**	100 - PN16
Nom Flow Rate @ 11 ^{0}C Δt l/s :	10.68	**Std Operating Temp °C :**	80
Shunt Flow Rate l/s :	30% of Nom flow	**Max Operating Temp °C :**	95
Min Flow Rate l/s :	1.96#	**High Limit Set Point °C :**	110
Max Op Press bars :	6		
Test Press bar :	12		

Min flow required for 5 minutes after shutting down to prevent high limit stat operating

FLUE			
Diameter mm :	300	**Flue Gas Vol Cu M/h :**	684
Flue Type :	Conventional	**Flue Gas Flow kgs/hr :**	846
Chamber Resist. mbar :	3.4		

ELECTRICAL	**Boiler**		**Burner**	
Voltage :	230.1.50	**Voltage : (optional)**	**1 ph**	**3 ph**
Fuse rating amps :	6	**Fuse rating amps :**	15	10
		Run Current amps :	4.8	1.7
		Start Current amps :	22	11

CONTROL OPERATION			
Standard :	On / Off Thermostat	Hours Run Meter	L/O lamp
	High limit Thermostat	Temperature indication	On off switch
Optional :	High / Low	Hours Run Meter	BMS Contacts
	Modulating	Rematic compensator	

No :	P300-13
Issue Date :	JULY 2002

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TECHNICAL SPECIFICATION SHEET

MODEL : P300 **No of SECTIONS : 13**

General Details
Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for max efficiency and min Nox production, large insulated door (hinged left or right) allowing easy access for cleaning. Water cooled base and back sections.
Powder coated enamel steel casing c/w glass fibre insulation.Supplied broken down for delivery.
Manufactured to ISO 9001. CE approved.

Rated Output kW :	543	**Efficiency % GCV :**	83
Weight (dry) kgs :	1565	**Casing Colour BS No.**	RAL2002
Overall Dim WxHxD mm :	870x1455x2270		
Radiated Losses % :	0.45		

BURNER TYPE	**Pressure Jet**		
Fuel Available :	Gas - Cu M/hr	Oil - kgs/hr	Dual Fuel
Fuel Consumption M^3/hr:	61.85	50	
Noise levels dB(A) :	70 - 90		
Min Op Gas Press mbar :	17		

HYDRAULICS			
Water Content ltrs :	231	**Min Return Temp °C**	45
Resist @ 10°C Δt mbar :	136	**Connection Size mm :**	100 - PN16
Nom Flow Rate @ 11 ^{0}C Δt l/s :	11.80	**Std Operating Temp °C :**	80
Shunt Flow Rate l/s :	30% of Nom flow	**Max Operating Temp °C :**	95
Min Flow Rate l/s :	2.16#	**High Limit Set Point °C :**	110
Max Op Press bars :	6		
Test Press bar :	12		

Min flow required for 5 minutes after shutting down to prevent high limit stat operating

FLUE			
Diameter mm :	300	**Flue Gas Vol Cu M/h :**	754
Flue Type :	Conventional	**Flue Gas Flow kgs/hr :**	933
Chamber Resist. mbar :	4		

ELECTRICAL	**Boiler**		**Burner**	
Voltage :	230.1.50	**Voltage : (optional)**	**1 ph**	**3 ph**
Fuse rating amps :	6	**Fuse rating amps :**	n/a	10
		Run Current amps :	n/a	2.5
		Start Current amps :	n/a	15

CONTROL OPERATION			
Standard :	On / Off Thermostat	Hours Run Meter	L/O lamp
	High limit Thermostat	Temperature indication	On off switch
Optional :	High / Low	Hours Run Meter	BMS Contacts
	Modulating	Rematic compensator	

No :	P300-14
Issue Date :	JULY 2002

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TECHNICAL SPECIFICATION SHEET

MODEL : P300	No of SECTIONS : 14

General Details
Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for max efficiency and min Nox production, large insulated door (hinged left or right) allowing easy access for cleaning. Water cooled base and back sections.
Powder coated enamel steel casing c/w glass fibre insulation.Supplied broken down for delivery.
Manufactured to ISO 9001. CE approved.

Rated Output kW :	596	**Efficiency % GCV :**	83
Weight (dry) kgs :	1670	**Casing Colour BS No.**	RAL2002
Overall Dim WxHxD mm :	870x1455x2410		
Radiated Losses % :	0.45		

BURNER TYPE	**Pressure Jet**

Fuel Available :	Gas - Cu M/hr	Oil - kgs/hr	Dual Fuel
Fuel Consumption M^3/h :	67.7	55	
Noise levels dB(A) :	70 – 90		
Min Op Gas Press mbar :	17		

HYDRAULICS

Water Content ltrs :	248	**Min Return Temp °C**	45
Resist @ 10°C Δt mbar :	168	**Connection Size mm :**	100 - PN16
Nom Flow Rate @ 11 ^{0}C Δt l/s :	12.96	**Std Operating Temp °C :**	80
Shunt Flow Rate l/s :	30% of Nom flow	**Max Operating Temp °C :**	95
Min Flow Rate l/s :	2.37#	**High Limit Set Point °C :**	110
Max Op Press bars :	6		
Test Press bar :	12		

Min flow required for 5 minutes after shutting down to prevent high limit stat operating

FLUE

Diameter mm :	300	**Flue Gas Vol Cu M/h :**	826
Flue Type :	Conventional	**Flue Gas Flow kgs/hr :**	1022
Chamber Resist. mbar :	4.5		

ELECTRICAL	**Boiler**		**Burner**	
Voltage :	230.1.50	**Voltage : (optional)**	**1 ph**	**3 ph**
Fuse rating amps :	6	**Fuse rating amps :**	n/a	15
		Run Current amps :	n/a	4.6
		Start Current amps :	n/a	25

CONTROL OPERATION

Standard :	On / Off Thermostat	Hours Run Meter	L/O lamp
	High limit Thermostat	Temperature indication	On off switch
Optional :	High / Low	Hours Run Meter	BMS Contacts
	Modulating	Rematic compensator	

No :	P300-15
Issue Date :	JULY 2002

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TECHNICAL SPECIFICATION SHEET

MODEL : P300	No of SECTIONS : 15

General Details
Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for max efficiency and min Nox production, large insulated door (hinged left or right) allowing easy access for cleaning. Water cooled base and back sections.
Powder coated enamel steel casing c/w glass fibre insulation.Supplied broken down for delivery.
Manufactured to ISO 9001. CE approved.

Rated Output kW :	651	**Efficiency % GCV :**	83
Weight (dry) kgs :	1775	**Casing Colour BS No.**	RAL2002
Overall Dim WxHxD mm :	870x1455x2560		
Radiated Losses % :	0.45		
BURNER TYPE	**Pressure Jet**		
Fuel Available :	Gas - Cu M/hr	Oil - kgs/hr	Dual Fuel
Fuel Consumption M^3/h :	73.84	60	
Noise levels dB(A) :	70 – 90		
Min Op Gas Press mbar :	17		
HYDRAULICS			
Water Content ltrs :	265	**Min Return Temp °C**	45
Resist @ 10°C Δt mbar :	200	**Connection Size mm :**	100 - PN16
Nom Flow Rate @ 11 ^{0}C Δt l/s :	14.16	**Std Operating Temp °C :**	80
Shunt Flow Rate l/s :	30% of Nom flow	**Max Operating Temp °C :**	95
Min Flow Rate l/s :	2.59#	**High Limit Set Point °C :**	110
Max Op Press bars :	6		
Test Press bar :	12		

Min flow required for 5 minutes after shutting down to prevent high limit stat operating

FLUE				
Diameter mm :	300	**Flue Gas Vol Cu M/h :**	901	
Flue Type :	Conventional	**Flue Gas Flow kgs/hr :**	1115	
Chamber Resist. mbar :	4.8			
ELECTRICAL	**Boiler**		**Burner**	
Voltage :	230.1.50	**Voltage : (optional)**	**1 ph**	**3 ph**
Fuse rating amps :	6	**Fuse rating amps :**	n/a	15
		Run Current amps :	n/a	4.6
		Start Current amps :	n/a	25
CONTROL OPERATION				
Standard :	On / Off Thermostat	Hours Run Meter	L/O lamp	
	High limit Thermostat	Temperature indication	On off switch	
Optional :	High / Low	Hours Run Meter	BMS Contacts	
	Modulating	Rematic compensator		

No :	P300-16
Issue Date :	JULY 2002

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TECHNICAL SPECIFICATION SHEET

MODEL : P300 **No of SECTIONS : 16**

General Details
Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for max efficiency and min Nox production, large insulated door (hinged left or right) allowing easy access for cleaning. Water cooled base and back sections.
Powder coated enamel steel casing c/w glass fibre insulation.Supplied broken down for delivery.
Manufactured to ISO 9001. CE approved.

Rated Output kW :	709	**Efficiency % GCV :**	83
Weight (dry) kgs :	1880	**Casing Colour BS No.**	RAL2002
Overall Dim WxHxD mm :	870x1455x2710		
Radiated Losses % :	0.45		

BURNER TYPE	**Pressure Jet**		
Fuel Available :	Gas - Cu M/hr	Oil - kgs/hr	Dual Fuel
Fuel Consumption M^3/h :	80.17	65	
Noise levels dB(A) :	70 – 90		
Min Op Gas Press mbar :	17		

HYDRAULICS			
Water Content ltrs :	282	**Min Return Temp °C**	45
Resist @ 10°C Δt mbar :	228	**Connection Size mm :**	100 - PN16
Nom Flow Rate @ 11 ^{0}C Δt l/s :	15.42	**Std Operating Temp °C :**	80
Shunt Flow Rate l/s :	30% of Nom flow	**Max Operating Temp °C :**	95
Min Flow Rate l/s :	2.82#	**High Limit Set Point °C :**	110
Max Op Press bars :	6		
Test Press bar :	12		

Min flow required for 5 minutes after shutting down to prevent high limit stat operating

FLUE			
Diameter mm :	300	**Flue Gas Vol Cu M/h :**	978
Flue Type :	Conventional	**Flue Gas Flow kgs/hr :**	1210
Chamber Resist. mbar :	5		

ELECTRICAL	**Boiler**		**Burner**	
Voltage :	230.1.50	**Voltage : (optional)**	**1 ph**	**3 ph**
Fuse rating amps :	6	**Fuse rating amps :**	n/a	15
		Run Current amps :	n/a	4.6
		Start Current amps :	n/a	25

CONTROL OPERATION			
Standard :	On / Off Thermostat	Hours Run Meter	L/O lamp
	High limit Thermostat	Temperature indication	On off switch
Optional :	High / Low	Hours Run Meter	BMS Contacts
	Modulating	Rematic compensator	