

DUNPHY COMBUSTION LTD.

Queensway Rochdale England OL11 2SL



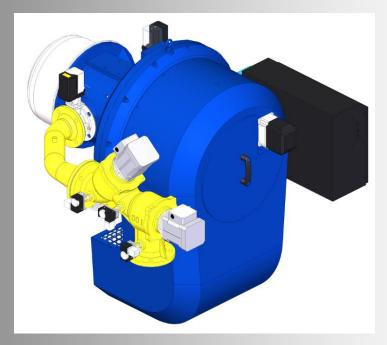




DATA SHEET

Model: TD4 Revision Date: October 2019

Output: 450 – 6200 kW Revision Number: DS.TD4.21



- ◆ All models approved to current British and European Standards.
- All burners in the T.D. range are of the fan assisted, nozzle mix type and operation is fully automatic.
- ◆ CE approval numbers for the TD4 Series burners are:
 - ◆ TD4.450/550/650 CE 679311











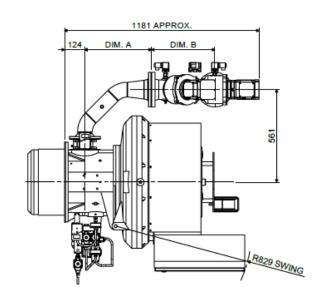
FM 24868

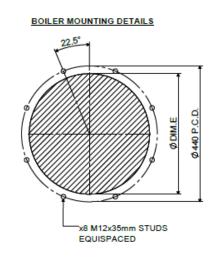
BURNER DIMENSIONS

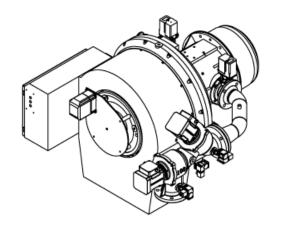
- Drawings shown on the following pages
- All dimensions in mm unless otherwise stated.
- The minimum standard dimension for 'PROJ' is 230mm. However, it can be varied to suit application. Requirements should be stated when unit is ordered.
- Burners supplied as Left hand hinge or Right hand hinge
- The swing radius shown is the average; this can vary on non-standard burners.
- Please check the issue number to ensure validity.

TD4.450-550 LHH ELECTRONIC MODULATION WITH STANDARD SILENCER

TD4.450-4.550 LHH ELECTRONIC MODULATION BURNER WITH STANDARD SILENCER

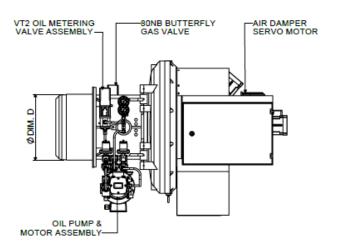


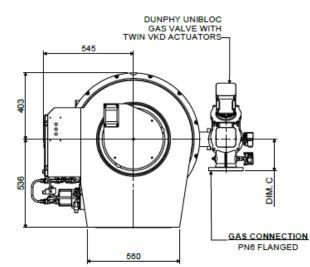


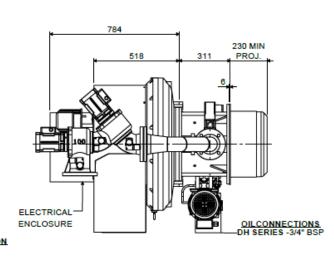


BURNER TYPE	DIM.D	DIM.E
TD 4.450 Z	Ø354	Ø362
TD 4.550 Y	Ø400	Ø410

UNIBLOC SIZE	DIM.A	DIM.B	DIM.C
65 NB	385	294	122
80 NB	300	290	137
100 NB	405	383	192

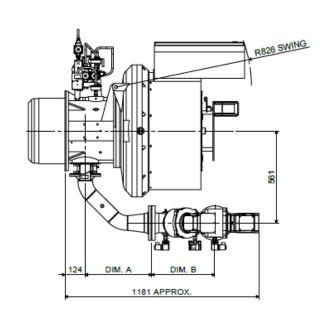


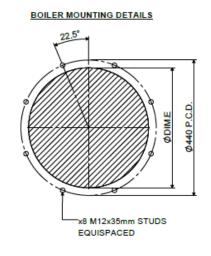


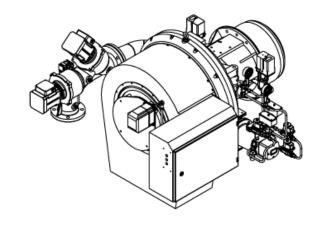


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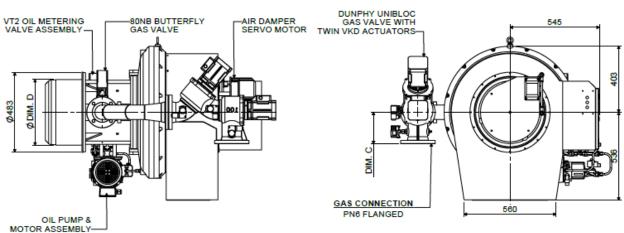


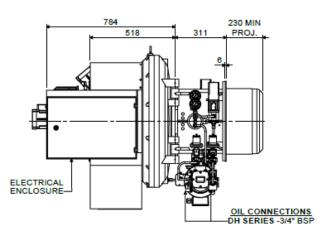




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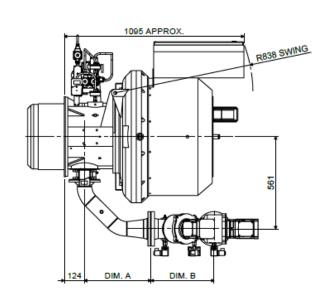


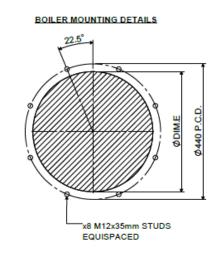
TD4.450-550 LHH ELECTRONIC MODULATION WITH SNORKEL SILENCER

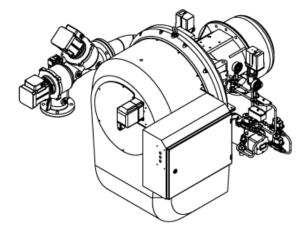
TD4,450-4,550 LHH ELECTRONIC MODULATION BURNER WITH SNORKEL SILENCER 1181 APPROX. 124 DIM. A DIM. B **BOILER MOUNTING DETAILS** x8 M12x35mm STUDS BURNER TYPE DIM.D DIM.E UNIBLOC SIZE DIM.A DIM.B DIM.C EQUISPACED TD 4.450 Z Ø354 Ø362 65 NB 385 294 122 Ø410 TD 4.550 Y Ø400 80 NB 300 290 137 100 NB 405 383 192 DUNPHY UNIBLOC GAS VALVE WITH TWIN VKD ACTUATORS-784 VT2 OIL METERING -80NB BUTTERFLY -AIR DAMPER 230 MIN VALVE ASSEMBLY-GAS VALVE SERVO MOTOR 596 311 PROJ. ØDIM. ELECTRICAL ENCLOSURE-OIL CONNECTIONS -DH SERIES -3/4" BSP OIL PUMP & GAS CONNECTION MOTOR ASSEMBLY-PN6 FLANGED 613

TD4.450-550 RHH ELECTRONIC MODULATION WITH SNORKEL SILENCER

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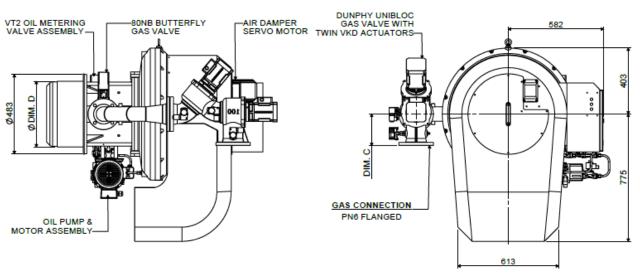


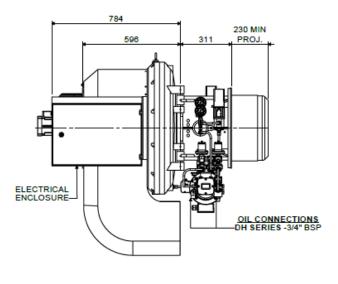


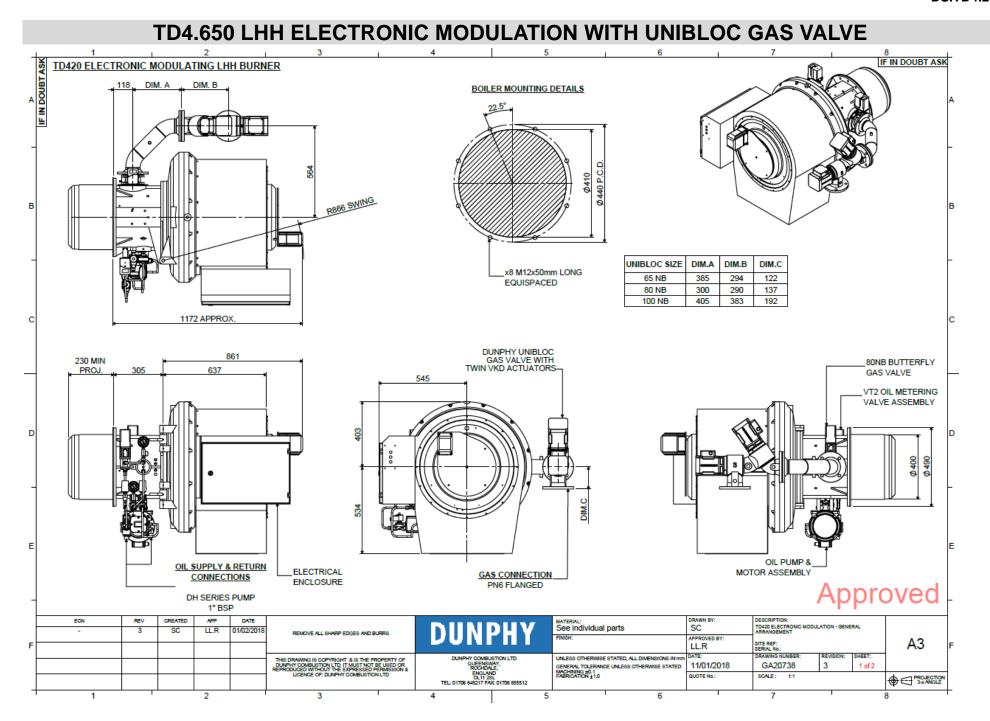


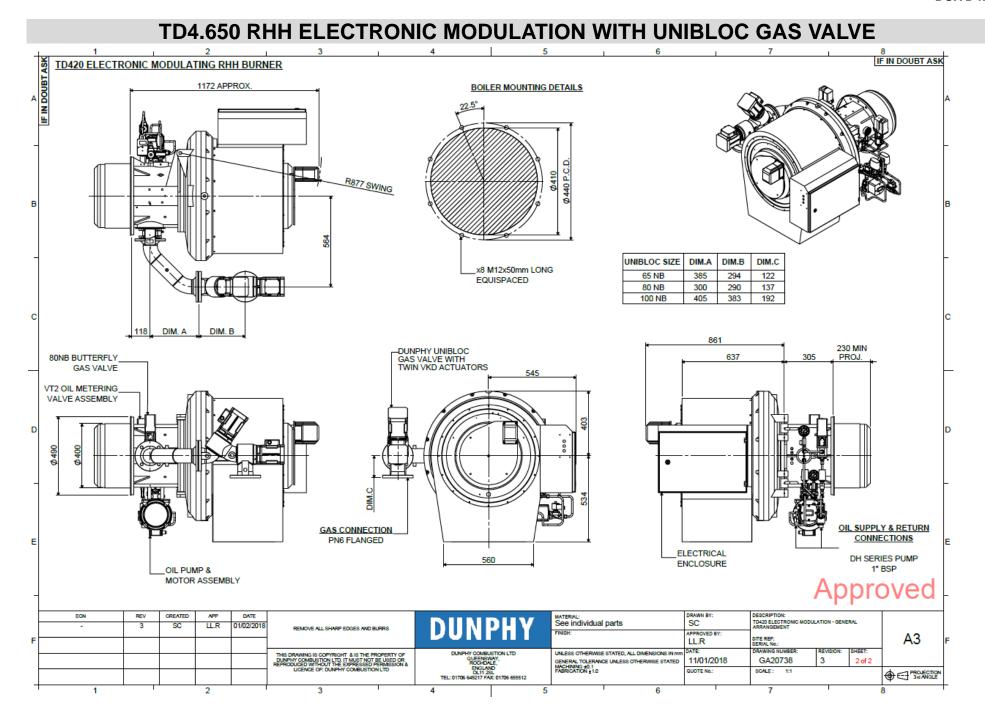
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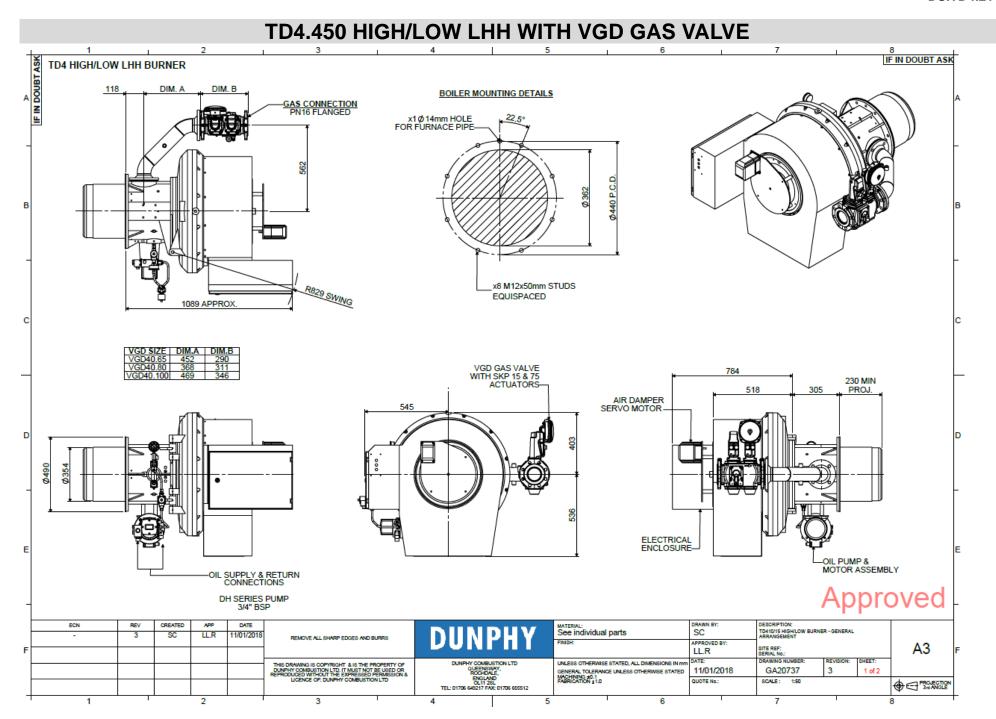
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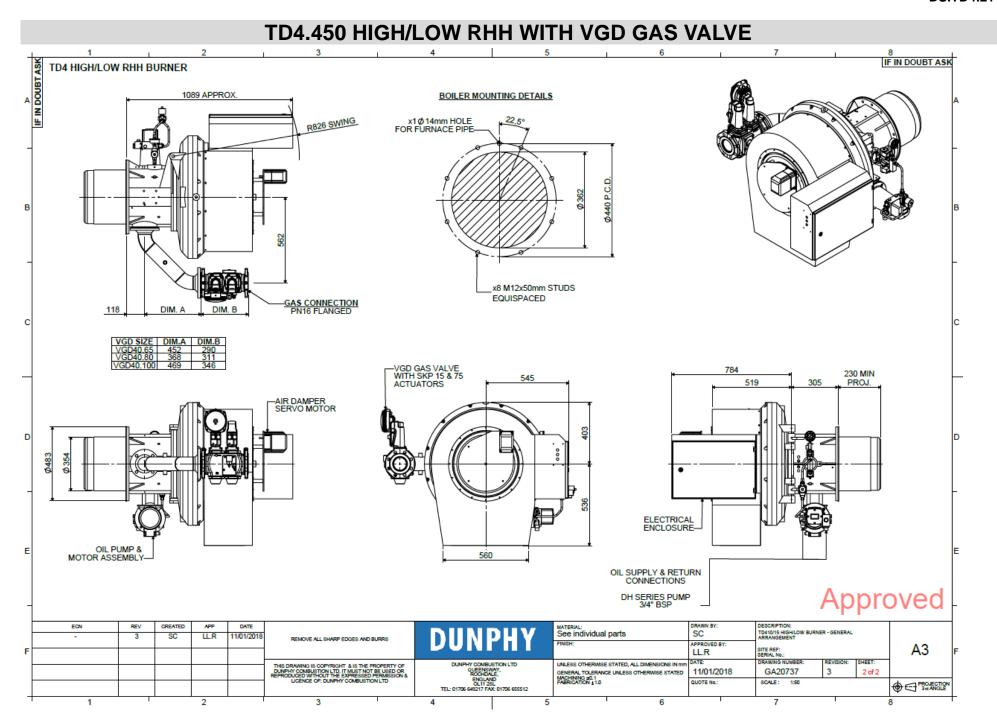


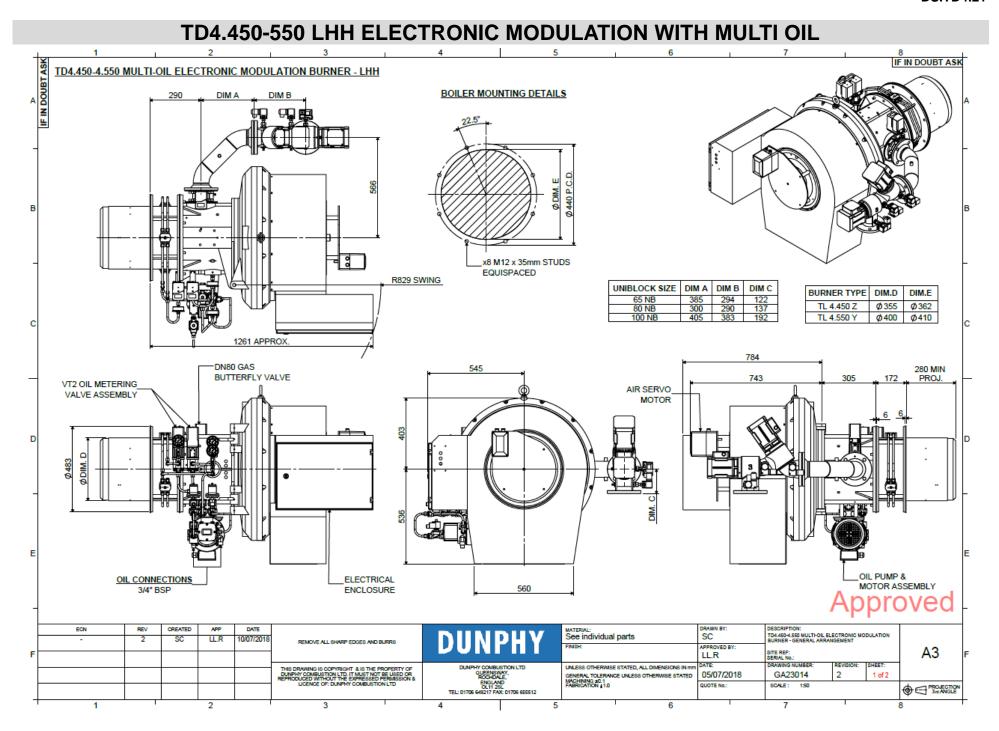


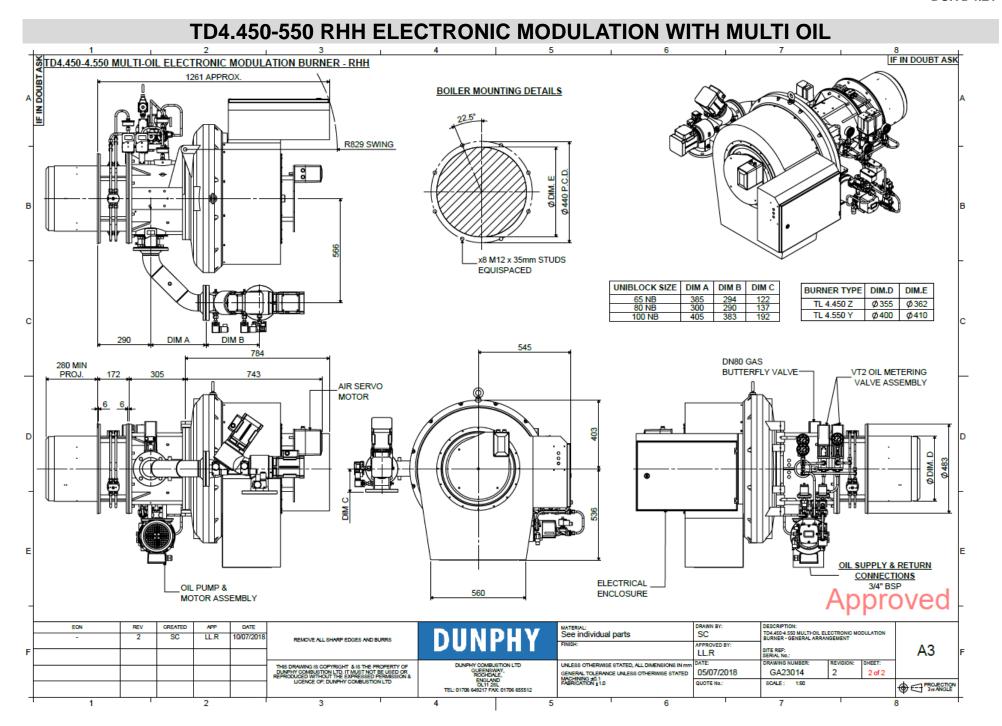




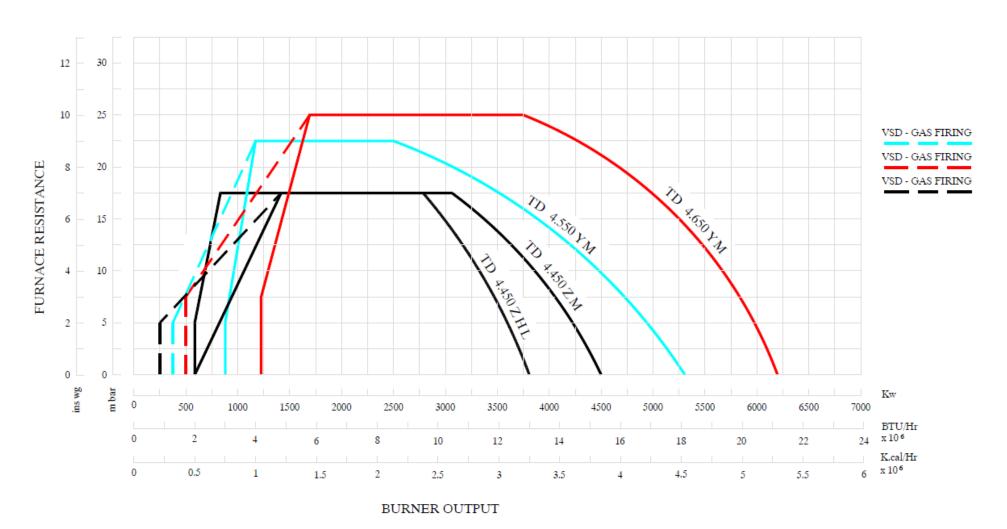






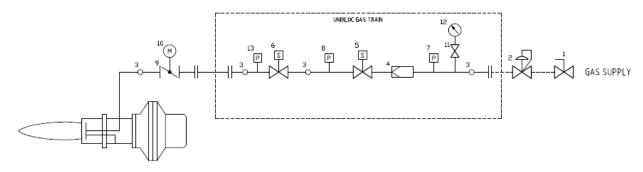


BURNER RATING GRAPH



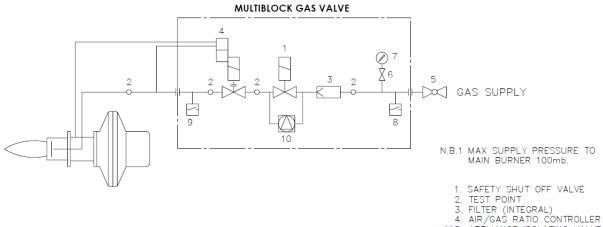
BURNER SCHEMATICS

TYPICAL GAS LINE SCHEMATIC FOR MODULATING BURNERS



ITEM	LOCATION	DESCRIPTION
1	EXTERNAL	MANUAL GAS ISOLATION VALVE
2	EXTERNAL	MAIN GOVERNOR
3		TEST POINT
4	UNBLOC	NTEGRAL FILTER
5	UNBLOC	FIRST MAIN VALVE (VKD)
6	UNBLOC	SECOND MAIN VALVE (VKD)
7	UNBLOC	LOW GAS PRESSURE SWITCH
8	UNBLOC	VALVE PROVING PRESSURE SWITCH
9	BURNER	BUTTERFLY VALVE
10	BURNER	RATIOTRONIC 6026 SERVO MOTOR
11	UNBLOC	TEST COCK (OPTIONAL)
12	UNBLOC	PRESSURE GAUGE (OPTIONAL)
13	UNBLOC	HIGH GAS PRESSURE SWITCH
14		
15		
16		

TYPICAL GAS LINE SCHEMATIC FOR HIGH/LOW BURNERS



- 4. AIR/GAS RAIIO CONIROLLER

 **5. APPLIANCE ISOLATING VALVE

 * 6. TEST COCK

 * 7. GAS PRESSURE GAUGE

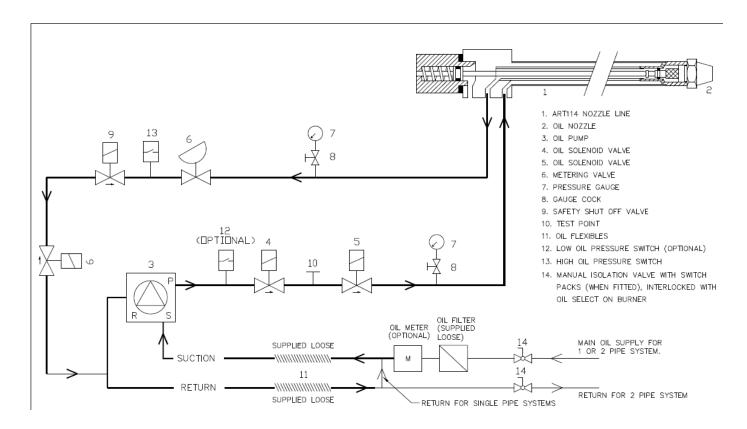
 8. LOW INLET GAS PRESSURE SWITCH

 * 9. HIGH GAS PRESSURE SWITCH

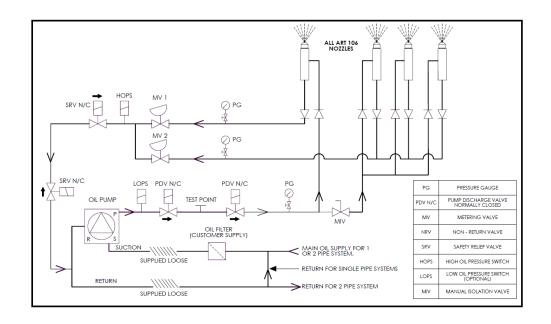
 *10. VPS (VALVE PROVING SYSTEM)

- * IF SPECIFIED
- ** (CUSTOMER SUPPLY)

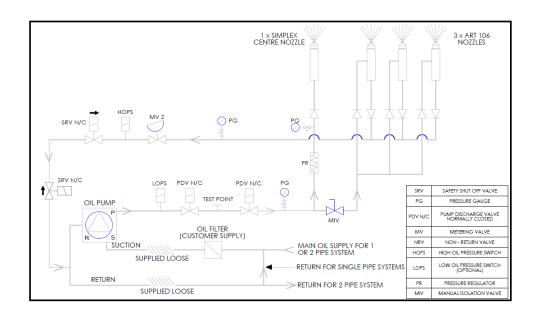
TYPICAL OIL LINE SCHEMATIC FOR LIGHT OIL DUAL FUEL BURNERS MODULATING WITH ART 1400 NOZZLE



TYPICAL SCHEMATIC FOR MULTI NOZZLE SYSTEM BURNER (WITH SRV & LOPS & HOPS)



TYPICAL SCHEMATIC FOR MULTI NOZZLE SYSTEM BURNER FIXED CENTRAL NOZZLE



STANDARD SPECIFICATION DATA

DUDNED	Firing	Rate kW		OLUME HR) *1		FIRING MOD	DE OPTIONS		For Motor	Fon Motor	Fon Motor	For Motor Pump	Pump				D	Starting
BURNER TYPE	MIN*3	MAX	MIN*3	MAX	Mod Gas High / Low Oil	High / Low	Electronic Modulation *2	Electronic Modulation with VSD	Fan Motor kW	Motor kW	Voltage	Hz	Ph	Running Current	Starting Current *4			
TD4.450 Z	450	4500	43	433	✓	✓	✓	✓	7.5	2.2	380-420	50	3	23 Amp	48 Amp			
TD4.550 Y	530	5300	50	510			✓	✓	11.0	2.2	380-420	50	3	32 Amp	64 Amp			
TD4.650 Y	620	6200	59	596			✓	√	15.0	2.2	380-420	50	3	39 Amp	88 Amp			

- *1 Based on Nat. Gas C.V 10.4 kW/m3
- *2 Fitted with a Ratiotronic 6000 system
- *3 Based on 10:1 turn down fitted with VSD when firing on Natural Gas
- *4 When fitted with VSD the starting current is 0 Amps

COMBUSTION HEAD

The Dunphy dual fuel combustion head incorporates a two-stage fuel/air mixing system which eliminates low frequency resonance and allows maximum combustion efficiency with minimum emission levels.

This system combined with smooth ignition and extreme reliability make Dunphy combustion equipment the most sensible choice for all heating and process applications.

ULTRA LOW NOX BURNERS

All Dunphy T-Series burners are fitted with low NOx combustion heads as standard equipment.

As an optional extra all burners in this range can be fitted with a flue gas recirculation system to achieve ultra low NOx emissions.

Dunphy Combustion Ltd has a policy of continuous development and reserve the right to change prices and specifications without prior notice.

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