

#### **DUNPHY COMBUSTION LTD.**

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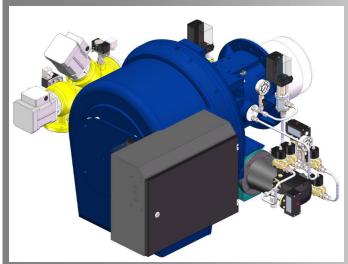
# DATA SHEET

Model: TD3

### **Revision Date: October 2019**

Output: 200 – 2950 kW

Revision Number: DS.TD3.22



- 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 number for TD3 Series burners are
  - ◆ TD3.200/220/290 CE 679311



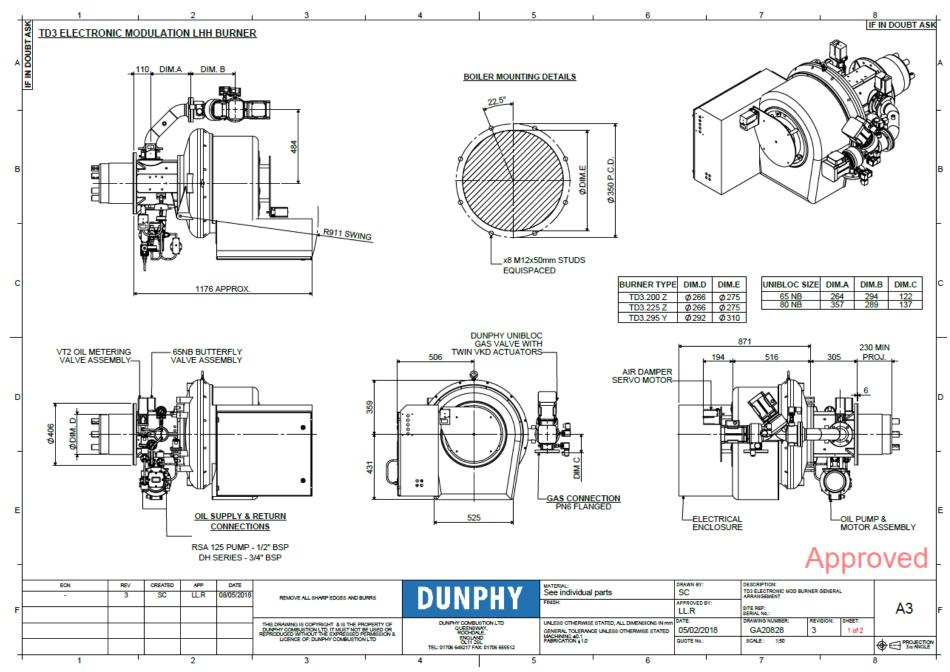
CE



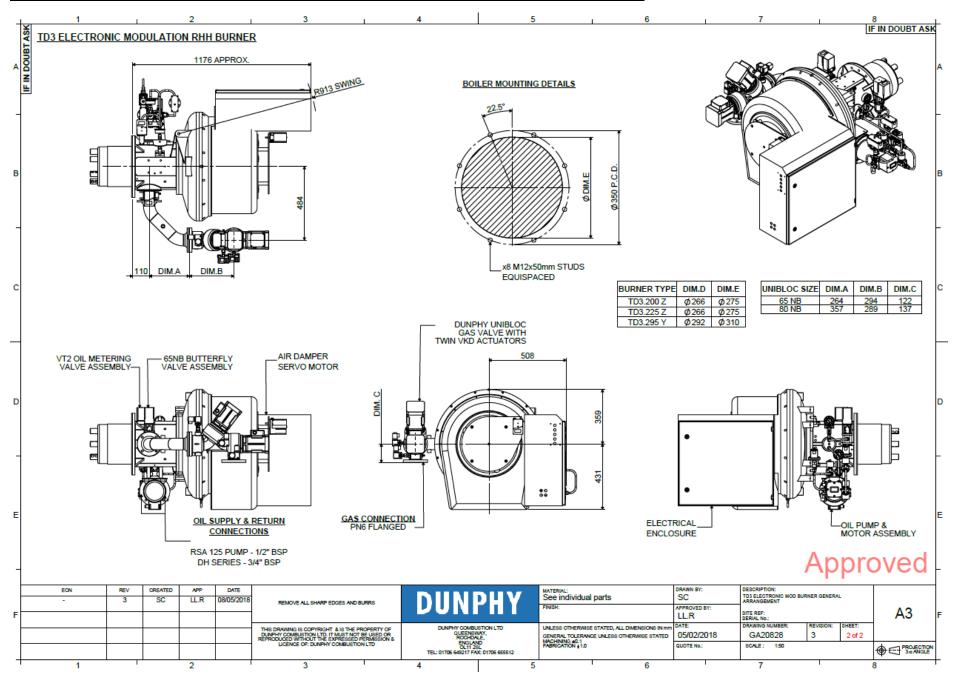
# **BURNER DIMENSIONS**

- 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.

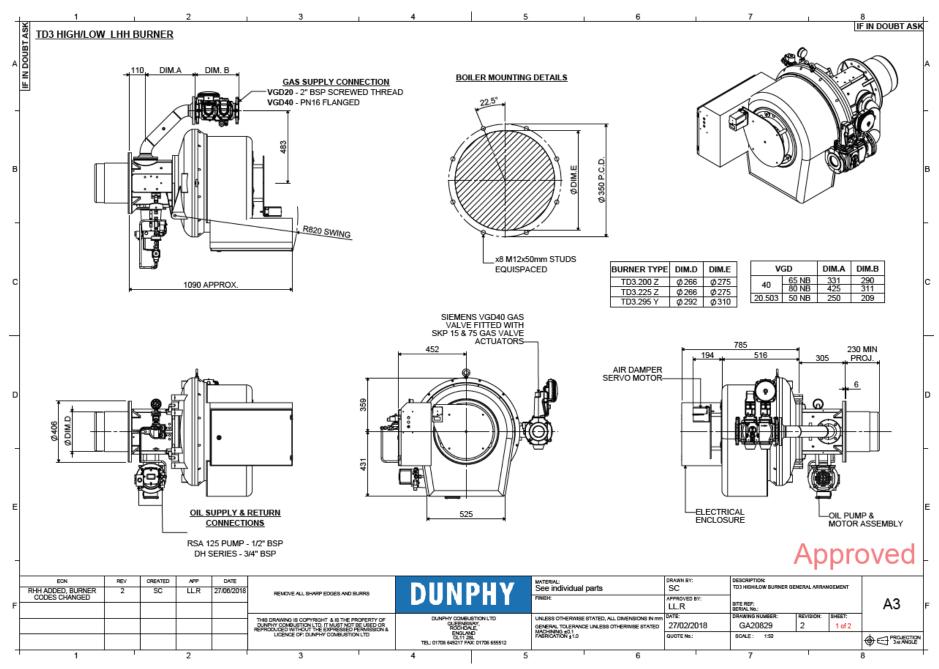
## **ELECTRONIC MODULATION LHH WITH UNIBLOC GAS VALVE**



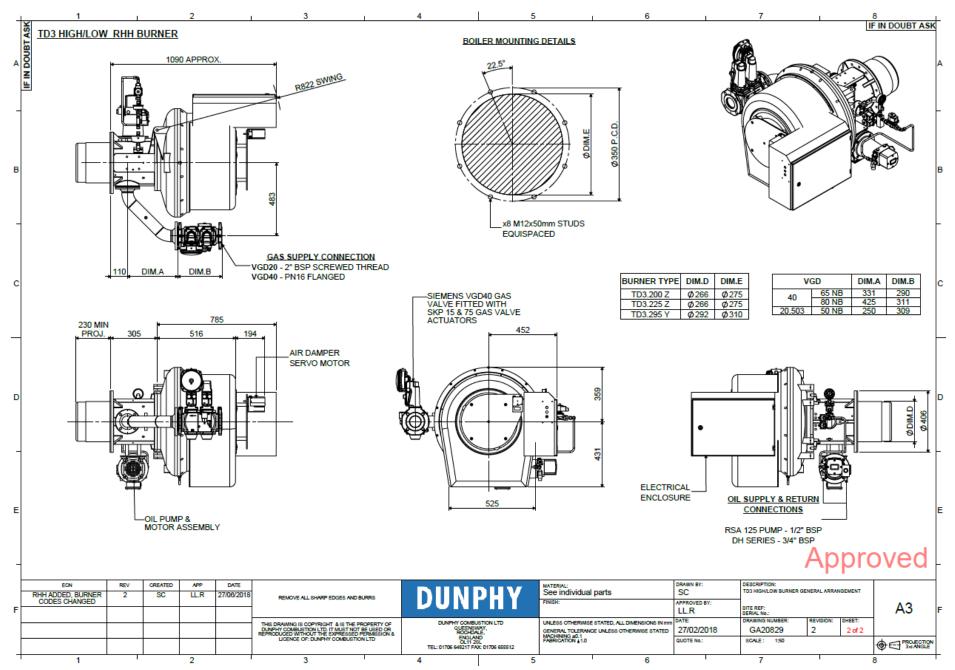
### **ELECTRONIC MODULATION RHH WITH UNIBLOC GAS VALVE**



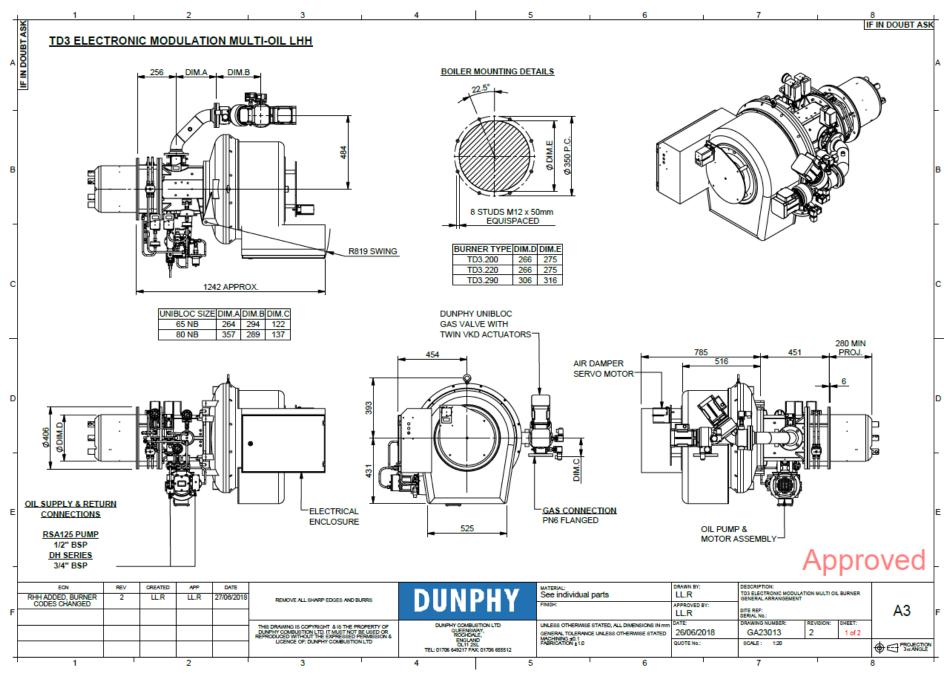
#### HIGH / LOW LHH WITH VGD GAS VALVE



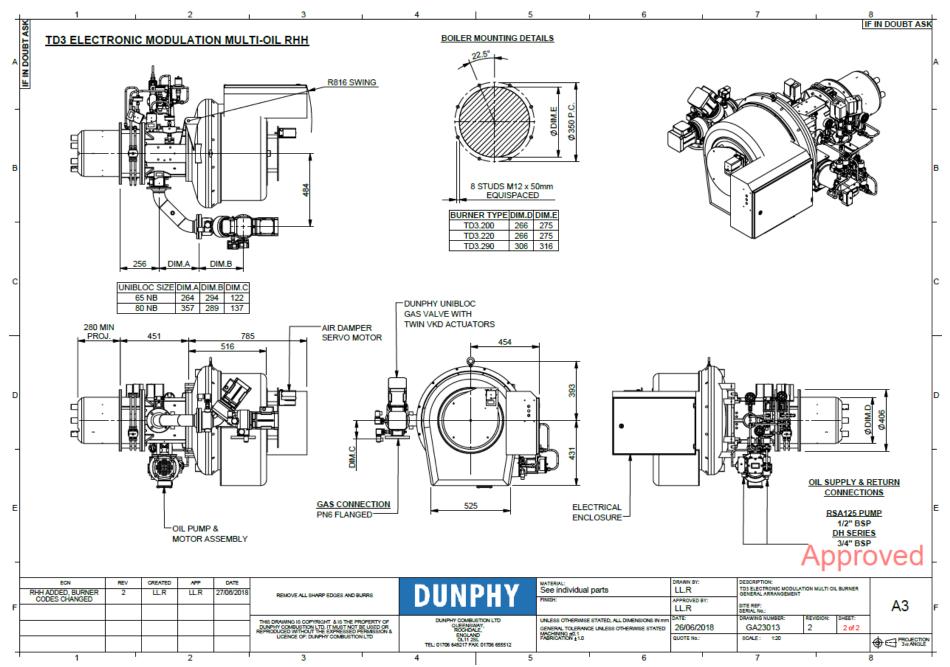
# HIGH / LOW RHH WITH VGD GAS VALVE

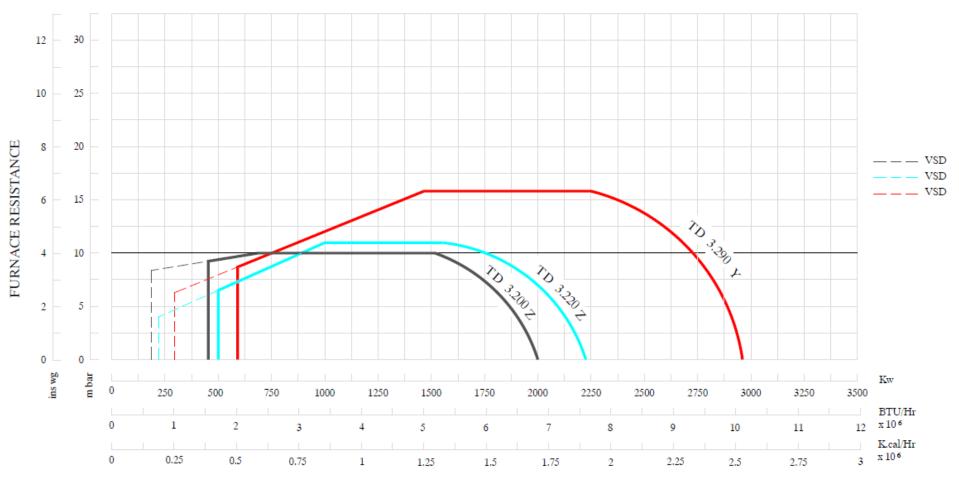


# **ELECTRONIC MODULATION MULTI-OIL MULTI-GAS LHH**



# **ELECTRONIC MODULATION MULTI-OIL MULTI-GAS RHH**



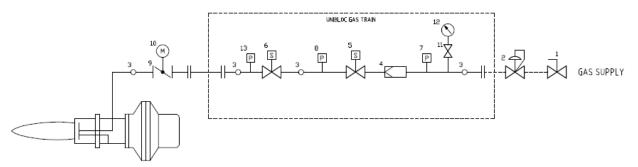


## **BURNER RATING GRAPH**

BURNER OUTPUT

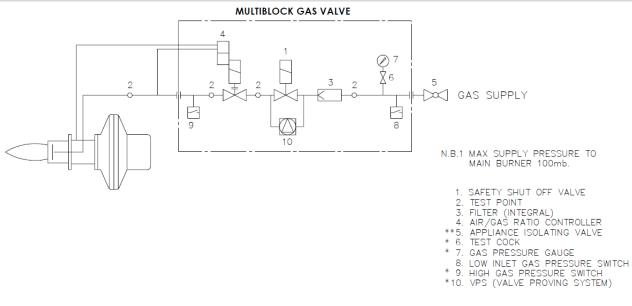
#### **BURNER SCHEMATICS**

#### **TYPICAL GAS LINE SCHEMATIC FOR MODULATING BURNERS**



17544	Loc Tion	BESCHDEIGH
ITEM	LOCATION	DESCRIPTION
1	EXTERNAL	MANUAL GAS ISOLATION VALVE
2	EXTERNAL	MAIN GOVERNOR
3		TEST POINT
4	UNIBLOC	INTEGRAL FILTER
5	UNIBLOC	FIRST MAIN VALVE (VKD)
6	UNIBLOC	SECOND MAIN VALVE (VKD)
7	UNIBLOC	LOW GAS PRESSURE SWITCH
8	UNIBLOC	VALVE PROVING PRESSURE SWITCH
9	BURNER	BUTTERFLY VALVE
10	BURNER	RATIOTRONIC 6026 SERVO MOTOR
11	UNIBLOC	TEST COCK (OPTIONAL)
12	UNIBLOC	PRESSURE GAUGE (OPTIONAL)
13	UNIBLOC	HIGH GAS PRESSURE SWITCH
14		
15		
16		

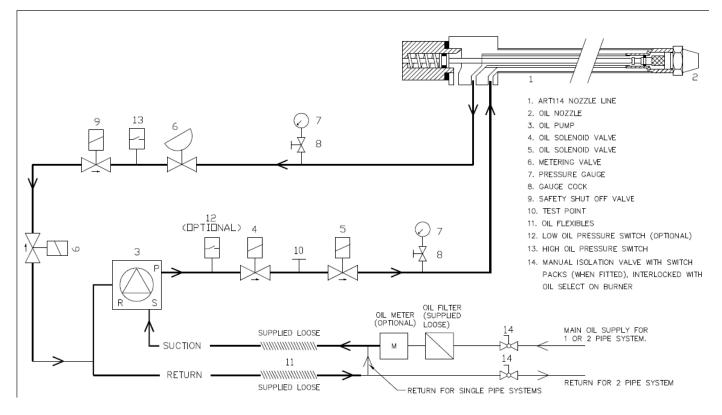
#### **TYPICAL GAS LINE SCHEMATIC FOR HIGH/LOW BURNERS**



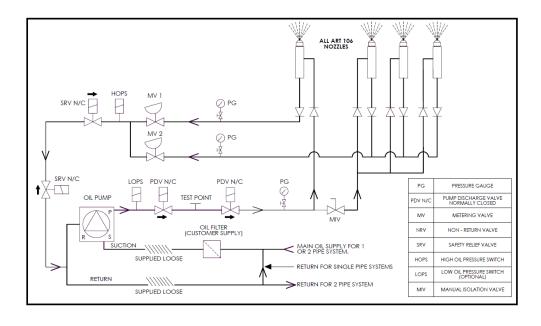
\* IF SPECIFIED

\*\* (CUSTOMER SUPPLY)

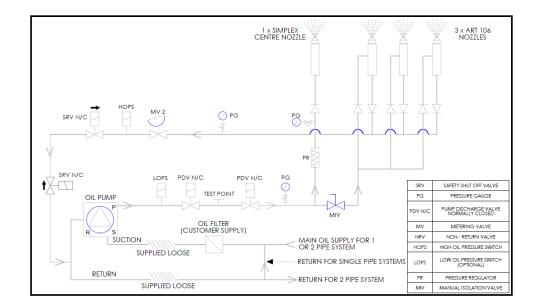
### TYPICAL OIL LINE SCHEMATIC FOR LIGHT OIL DUAL FUEL BURNERS MODULATING WITH ART 1400 NOZZLE



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



# TYPICAL SCHEMATIC FOR MULTI NOZZLE SYSTEM BURNER FIXED CENTRAL NOZZLE



### **STANDARD SPECIFICATION DATA**

BURNER TYPE	Firing Rate kW		GAS VOLUME (m3/HR) *1		FIRING MODE OPTIONS				Pump				Running	Starting		
	MIN *3	MAX	MIN *3	МАХ	Mod Gas High / Low Oil	High / Low	Electronic Modulation*2	Electronic Modulation with VSD	Fan Motor kW	Motor kW	Voltage	Hz	Ph	Current (Amp)	Current (Amp) *4	Weight (kg)
TD3.200 Z	200	2000	18.4	184	✓	✓	✓	✓	3.0	1.1	380-420	50	3	11	53	320
TD3.225 Z	220	2200	20	203	<ul> <li>Image: A set of the set of the</li></ul>	✓	✓	✓	4.0	1.1	380-420	50	3	12	79	330
TD3.295 Y	295	2950	27	272	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>	✓	✓	5.5	1.1	380-420	50	3	17	36	340

\*1 – Based on Nat. Gas C.V 10.84 kWh/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 makes 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.

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