

Section 09 – Process Equipment (Offshore) - Sales Item 09090512

FWTB -01-16K Burners (8 x New) c/w MI Power Cables, JB's for a 30MTR Flare Boom and ICP/Stand

DETAIL AS FOLLOWS:





17 Minimum (1 Burner) 1,000 bbl/day 159 m3/da 19 Flow - Utility Air / 1,000bbl oil/day 343 to 450 sft3/min 9.7 to sm3/min 20 Overall Dimensions - L x W x H 83 x 78 x 57 lnch 2,104 x 1,973 x 1,447 mm 20 Dy Weight 2,200 lbs 1,000 kg 21 Overall Dimensions - L x W x H 83 x 78 x 57 lnch 2,104 x 1,973 x 1,447 mm 20 Connections : Pilot Gas 1" hex union thread half 26 Main Burner Utility Air 4" hammer union thread half 27 Besign Codes and Standards : ASME B31.3 29 NACE MR-01-75 (H2S) 30 Model TLB-01-4K (Triplex Liquid Burner) 4 Flow - Oil : Maximum 4000 bbl/day 636 m3/da 31 Burner Nozzle Specifications 323 Model TLB-01-4K (Triplex Liquid Burner) 4 Flow - Oil : Maximum 33 Model TLB-014K (Triplex Liquid Burner) 4 Flow - Oil : Maximum 34 1000 bbl/day 159 m3/da 35 Oil Gravity 158 lb								
2 Model FWTB-16K (Well Test Burner) 1 Number of Pilots 1 to 12 (Removable as required) 5 Number of Pilots 1 to 12 (Removable as required) 7 Pressure - Design / Operating : Oil Systems 9 Utility Air Systems 1440 / 100 to 400 psig 99 / 6.9 to 10.3 barg 10 Pressure - Design / Operating : Oil Systems 100 / -40 to 752 f 36 / -40 to 400 c 11 Temperature - Design / Operating : Oil Systems 100 / -40 to 752 f 36 / -40 to 400 c 12 Temperature - Design / Operating : Oil Systems 100 / -40 to 752 f 36 / -40 to 400 c 13 Utility Systems 100 / -40 to 752 f 36 / -40 to 400 c 100 / -40 to 752 f 36 / -40 to 400 c 14 Prot Gas Systems 100 / -40 to 752 f 36 / -40 to 400 c 100 / -40 to 752 f 36 / -40 to 400 c 15 Flow - Oil : Maximum (6 Burners) 1,000 bb//day 2,544 m3/ds 100 / -40 to 752 f 36 / -40 to 400 c 16 Connections : Pilot Gas 1 9.7 to sm3/m 2,104 x 1,973 x 1,447 mm	1	Package Technical Specifications						
4 Number of Burners 1 to 12 (Removable as required) 5 Number of Pilots 1 to 4 (1 per burner) 7 Protection Systems 1 to 4 (1 per burner) 7 Protection Systems 140 / 100 to 400 psig 99 / 6.9 to 27.6 barg 9 Protection Systems 1440 / 100 to 400 psig 99 / 6.9 to 27.6 barg 10 Temperature - Design / Operating : Oil Systems 100 / 40 to 752 f 38 / 40 to 400 c 10 Pilot Gas Systems 100 / 40 to 752 f 38 / 40 to 400 c 38 / 40 to 400 c 16 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/da 10 Verail Dimensions - L x W x H 0 verail Dimensions - L x W x H 33 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 20 Prov Veight 343 to 450 sft3/min 9.7 to sm3/m 21 Connections : Pilot Gas 1* haximum 4.000 bbl/day 1,000 kg 21 Overall Dimensions - L x W x H 0 2.200 lbs 1,000 kg 1,000 kg 22 Overall Cimensions - L x W x H 0 2.200 lbs 1,000 bbl/d	2							
5 Number of Pilots 1:0.4 (1 per burner) 6 Protection Systems Wafer Check Valves (Oil and Air Inlet Lines) 7 Pressure - Design / Operating : Oil Systems 10 Protection Systems 1440 / 100 to 400 psig 99 / 6.9 to 27.6 barg 11 Pressure - Design / Operating : Oil Systems 1440 / 100 to 400 psig 99 / 6.9 to 10.3 barg 11 Temperature - Design / Operating : Oil Systems 100 / 40 to 752 f 38 / 40 to 400 c 12 Temperature - Design / Operating : Oil Systems 100 / 40 to 752 f 38 / 40 to 400 c 13 Pilot Gas Systems 100 / 40 to 752 f 38 / 40 to 400 c 100 / 40 to 752 f 38 / 40 to 400 c 14 Pilot Gas Systems 100 / 40 to 752 f 38 / 40 to 400 c 100 / 40 to 752 f 38 / 40 to 400 c 16 Flow - Oil : Maximum (6 Burners) 16.000 bbi/day 2,544 m3/dt 100 / verail Dimensions - L x W X H 20 verail Dimensions - L x W X H 33 to 450 sf13/min 9.7 to sm3/dt 20 Connections : Pilot Gas 1' hex union thread halif 1' hex union thread halif	3	Model	del FWTB-16K (Well Test Burner)					
6 Protection Systems Water Check Valves (Oil and Air Initet Lines) 7 Pressure - Design / Operating : Oil Systems 9 Priot Gas Systems 1440 / 100 to 400 psig 99 / 6.9 to 27.6 barg 10 Priot Gas Systems 100 / 40 to 752 f 38 / 40 to 400 c 11 Temperature - Design / Operating : Oil Systems 100 / 40 to 752 f 38 / 40 to 400 c 11 Priot Gas Systems 100 / 40 to 752 f 38 / 40 to 400 c 100 / 40 to 752 f 38 / 40 to 400 c 15 Flow - Oil : Maximum (6 Burners) 16.000 bbl/day 2,544 m3/ds 16 Prove Utility Air / 1,000bbl oil/day 159 m3/ds 100 / 40 to 752 f 38 / 40 to 400 c 17 Minimum (1 Burner) 1,000 bbl/day 2,544 m3/ds 1,000 bbl/day 1,59 m3/ds 10 Overall Dimensions - L x W x H 2,200 Jbs 1,000 bbl 1,000 bg 1,000 bg 12 Connections : Pilot Gas 1"" hex union thread half 3" hammer union thread half 12 Design Codes and Standards : Pilot Gas 1"" hex union thread half 1"" hex union thread half 13 Model TEB-01-4K (Trip	4	Numbers of Burners		1 to 12	1 to 12 (Removable as required)			
6 Protection Systems Water Check Valves (Oil and Air Inlet Lines) 7 7 7 7 7 7 8 Pressure - Design / Operating : Oil Systems Pilot Gas Systems 1440 / 100 to 150 psig 99 / 6.9 to 27.6 barg 11 Temperature - Design / Operating : Oil Systems 275 / 10 to 40 psig 19 / 0.7 to 2.8 barg 11 Temperature - Design / Operating : Oil Systems 100 / -40 to 752 f 38 / -40 to 400 c 14 Pilot Gas Systems 100 / -40 to 752 f 38 / -40 to 400 c 100 / -40 to 752 f 38 / -40 to 400 c 16 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/da 17 Minimum (1 Burner) 1,000 bbl/day 2,544 m3/da 100 / -40 to 752 f 38 / -40 to 400 c 18 Flow - Utility Air / 1,000bbl oil/day 2,544 m3/da 100 / -40 to 752 f 38 / -40 to 400 c 19 Flow - Utility Air / 1,000bbl oil/day 2,544 m3/da 1,000 bbl/day 158 m3/da 20 Overall Dimensions - L x W x H X Sta 75 x 57 inch 2,104 x 1,973 x 1,447 mm 2,200 lbs <td< th=""><th>5</th><th>Number of Pilots</th><th></th><th colspan="3"></th></td<>	5	Number of Pilots						
7 8 Pressure - Design / Operating : Oil Systems Utility Air Systems 1440 / 100 to 400 psig 99 / 6.9 to 27.6 barg 10 Pilot Gas Systems 1440 / 100 to 150 psig 99 / 6.9 to 10.5 barg 11 Temperature - Design / Operating : Oil Systems 100 / -40 to 752 f 38 / -40 to 400 c 13 Utility Systems 100 / -40 to 752 f 38 / -40 to 400 c 38 / -40 to 400 c 14 Pilot Gas Systems 100 / -40 to 752 f 38 / -40 to 400 c 38 / -40 to 400 c 15 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/da 16 Flow - Utility Air / 1,000bbl oil/day 100 / -40 to 752 f 38 / -40 to 400 c 17 Maximum (6 Burners) 16,000 bbl/day 2,544 m3/da 18 Flow - Oil : Maximum (1 Burner) 1,000 bbl/day 1,000 bg/day 10 Overall Dimensions - L x W x H 2,104 x 1,973 x 1,447 mm 2,200 lbs 1,000 kg 10 Overall Oimensions - L x W x H 2,200 lbs 1,000 kg/day 636 m3/da 10 Overall Oimensions - L x W x H 2,200 lbs 1,00	6	Protection Systems						
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9 Utility Air Systems Pilot Gas Systems 1440 / 100 to 150 psig 99 / 6.9 to 10.3 barg 10 Pilot Gas Systems 275 / 10 to 40 psig 19 / 0.7 to 2.8 barg 11 Temperature - Design / Operating : Oil Systems 100 / -40 to 752 f 38 / -40 to 400 c 13 Utility Systems 100 / -40 to 752 f 38 / -40 to 400 c 38 / -40 to 400 c 14 Pilot Gas Systems 100 / -40 to 752 f 38 / -40 to 400 c 38 / -40 to 400 c 15 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/da 19 Flow - Utility Air / 1,000bbl oil/day 2,544 m3/da 9.7 to sm3/m 20 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 21 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 21 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 22 Connections : Pilot Gas 1,000 bbl/day 63 m3/da 23 Model TLB-01-4K (Triplex Liquid Burner) 1 4 Moduel Maximum	8	Pressure - Design / Operating :	Oil Systems	1440 / 100 to 400	psig 99 /	6.9 to 27.6 barg		
10 Pilot Gas Systems 275 / 10 to 40 psig 19 / 0.7 to 2.8 barg 11 Temperature - Design / Operating : Oil Systems 100 / -40 to 752 f 38 / -40 to 400 c 13 Utility Systems 100 / -40 to 752 f 38 / -40 to 400 c 14 Pilot Gas Systems 100 / -40 to 752 f 38 / -40 to 400 c 16 Flow - Oil : Maximum (6 Burners) 100 / -40 to 752 f 38 / -40 to 400 c 16 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/de 19 Flow - Utility Air / 1,000bbl oil/day 343 to 450 sft3/min 9.7 to sm3/n 21 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 22 Dry Weight 343 to 450 sft3/min 9.7 to sm3/n 22 Connections : Pilot Gas 1* hex union thread half 23 Main Burner Oil 3* hammer union thread half 24 Connections : Pilot Gas 1* hex union thread half 25 Main Burner Vozzle Specifications 3* hammer union thread half 26 Model TLB-01-4K (Triplex	9	e and a second				6.9 to 10.3 barg		
11 1 Temperature - Design / Operating : Oil Systems 100 / -40 to 752 f 38 / -40 to 400 c 14 Pilot Gas Systems 100 / -40 to 752 f 38 / -40 to 400 c 15 Pilot Gas Systems 100 / -40 to 752 f 38 / -40 to 400 c 16 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/de 17 Minimum (1 Burner) 1,000 bbl/day 2,544 m3/de 18 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/de 18 Overall Dimensions - L x W x H 343 to 450 sft3/min 9.7 to sm3/n 20 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 21 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 21 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 22 Connections : Pilot Gas 1* hax more union thread half 25 Main Burner Oil 3* hammer union thread half 26 Main Burner Mozzle Specifications 1.000 kg 27 Model	10			275 / 10 to 40	psig 19	/ 0.7 to 2.8 barg		
13 Utility Systems 100 / 40 to 752 f 38 / 40 to 400 c 14 Pilot Gas Systems 100 / 40 to 752 f 38 / 40 to 400 c 16 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/da 19 Flow - Utility Air / 1,000bbl oil/day 159 m3/da 100 / 40 to 752 f 38 / 40 to 400 c 10 Minimum (1 Burner) 1,000 bbl/day 2,544 m3/da 199 m3/da 19 Flow - Utility Air / 1,000bbl oil/day 343 to 450 sft3/min 9.7 to sm3/da 20 Overall Dimensions - L x W x H 83 x 78 x 57 lnch 2,104 x 1,973 x 1,447 mm 21 Overall Dimensions : Pilot Gas 1* hex union thread half 23 Connections : Pilot Gas 1* hex union thread half 26 Design Codes and Standards : ASME B31.3 NACE MR-01-75 (H2S) 33 Model TLB-01-4K (Triplex Liquid Burner) 3/da 34 Flow - Oil : Maximum 4,000 bbl/day 159 m3/da 34 Flow - Oil : Maximum 1,000 bbl/day 159 m3/da 37	11							
13 Utility Systems 100 / -40 to 752 f 38 / -40 to 400 c 14 Pilot Gas Systems 100 / -40 to 752 f 38 / -40 to 400 c 16 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/da 17 Minimum (1 Burner) 1,000 bbl/day 2,544 m3/da 18 Flow - Utility Air / 1,000bbl oil/day 343 to 450 sft3/min 9.7 to sm3/m 20 Verall Dimensions - L x W x H 83 x 78 x 57 lnch 2,104 x 1,973 x 1,447 mm 21 Overall Dimensions - L x W x H 83 x 78 x 57 lnch 2,104 x 1,973 x 1,447 mm 22 Connections : Pilot Gas 1* hex union thread half 25 Main Burner Oil 3* hammer union thread half 26 Main Burner Oil 3* hammer union thread half 27 Burner Nozzle Specifications ASME B31.3 30 NACE MR-01-75 (H2S) 159 m3/da 31 Burner Nozzle Specifications 14 to 60 API 34 Flow - Oil : Maximum 4,000 bbl/day 159 m3/da 36 Model TLB-01-4K (Triplex Liquid Burner)	12	Temperature - Design / Operating :	Oil Systems	100 / -40 to 752	f 38	/ -40 to 400 c		
Index Pilot Gas Systems 100 / -40 to 752 f 38 / -40 to 400 c 15 Flow - Oil : Maximum (6 Burners) Minimum (1 Burner) 16,000 bbl/day 2,544 m3/dz 19 Flow - Utility Air / 1,000bbl oil/day 9,7 to sm3/dz 343 to 450 sft3/min 9,7 to sm3/dz 10 Overall Dimensions - L x W x H 83 x 78 x 57 lnch 2,104 x 1,973 x 1,447 mm 20 Dry Weight 2,200 lbs 1,000 bbl/day 1,000 kg 20 Connections : Pilot Gas 1* hex union thread half 1,000 kg 21 Overall Dimensions - L x W x H 83 x 78 x 57 lnch 2,104 x 1,973 x 1,447 mm 2,200 lbs 1,000 kg 22 Connections : Pilot Gas 1* hex union thread half 1,000 kg 23 Connections : Pilot Gas 1* hex union thread half 1,000 kg 24 Maximum ASME B31.3 NACE MR-01-75 (H2S) 1,000 bbl/day 158 m3/da 25 Model TLB-01-4K (Triplex Liquid Burner) 54 Flow - Oil : Maximum 4,000 bbl/day 159 m3/da 26 Model S0 micron	13		121 248	100 / -40 to 752	f 38,	/ -40 to 400 c		
15 Flow - Oil : Maximum (6 Burners) 16,000 bbl/day 2,544 m3/da 17 Minimum (1 Burner) 1,000 bbl/day 159 m3/da 19 Flow - Utility Air / 1,000bbl oil/day 343 to 450 sft3/min 9.7 to sm3/n 10 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 20 Dry Weight 2,200 lbs 1,000 bbl/day 1,000 kg 23 Connections : Pilot Gas 1" hex union thread half 1,000 bbl/day 1,000 kg 24 Connections : Pilot Gas 1" hex union thread half 2,000 lbs 1,000 kg 25 Main Burner Oil 3" hammer union thread half 3" hammer union thread half 2 26 Design Codes and Standards : ASME B31.3 NACE MR-01-75 (H2S) 3 37 Model TLB-01-4K (Triplex Liquid Burner) 4 bid day 159 m3/da 38 Model TLB-01-4K (Triplex Liquid Burner) 4 bid day 159 m3/da 39 Model 14 to 60 API 25 % (maximum) 14 to 60 API 39 D				100 / -40 to 752				
16 Flow - Oil : Maximum (6 Burners) Minimum (1 Burner) 16,000 bbl/day 2,544 m3/da 17 Minimum (1 Burner) 1,000 bbl/day 159 m3/da 18 Flow - Utility Air / 1,000bbl oil/day 343 to 450 sft3/min 9.7 to sm3/da 21 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 23 Overall Dimensions : Pilot Gas 1" hex union thread half 24 Connections : Pilot Gas 1" hex union thread half 26 Main Burner Oil 3" hammer union thread half 27 Design Codes and Standards : ASME B31.3 28 Design Codes and Standards : ASME B31.3 29 NACE MR-01-75 (H2S) 30 Model TLB-01-4K (Triplex Liquid Burner) 34 Flow - Oil : Maximum 37 Oil Gravity 15 m3/da 38 Particulate Tolerance 50 micron (maximum) 39 Veight 15 lb 72 kg 41 Pilot Specifications 48 / 145 sft3/hr 2.4 / 4.1 sm3/da 42 </th <th></th> <th></th> <th>Ś</th> <th>~</th> <th>0</th> <th>~</th>			Ś	~	0	~		
17 Minimum (1 Burner) 1,000 bbl/day 159 m3/da 18 Flow - Utility Air / 1,000bbl oil/day 343 to 450 sft3/min 9.7 to sm3/min 10 Overall Dimensions - L x W x H 83 x 78 x 57 lnch 2,104 x 1,973 x 1,447 mm 10 Dry Weight 2,200 lbs 1,000 kg 21 Connections : Pilot Gas 1" hex union thread half 22 Connections : Pilot Gas 1" hex union thread half 23 Main Burner Utility Air 4" hammer union thread half 26 Main Burner Nozzle Specifications 27 Burner Nozzle Specifications 28 Design Codes and Standards : ASME B31.3 NACE MR-01-75 (H2S) 30 Nadel TLB-01-4K (Triplex Liquid Burner) 4 Flow - Oil : Maximum 4000 bbl/day 636 m3/da 5 Water Cut 25 % (maximum) 31 Bartreu Cut 25 % (maximum) 32 Information (maximum) 158 lb 33 Model 158 lb 44 Pilot Specifications 44 Pilot Specifications 45 Natural Gas 86 / 145 sft3/hr 46 Ignition System Manual (1 per pilot)	16	Flow - Oil :	Maximum (6 Burners)	16,000	bbl/day	2,544 m3/day		
18 Flow - Utility Air / 1,000bbl oil/day 343 to 450 sft3/min 9.7 to sm3/min 20 20 20 21 <th>17</th> <th>a Mollow - Anoth M</th> <th></th> <th></th> <th></th> <th>159 m3/day</th>	17	a Mollow - Anoth M				159 m3/day		
19 Flow - Utility Air / 1,000bbl oil/day 343 to 450 sf3/min 9.7 to sm3/min 20 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 23 Dry Weight 2,200 lbs 1,000 kg 24 Connections : Pilot Gas 1" hex union thread half 25 Main Burner Utility Air 4" hammer union thread half 26 Main Burner Oil 3" hammer union thread half 27 Design Codes and Standards : ASME B31.3 29 NACE MR-01-75 (H2S) 30 Model TLB-01-4K (Triplex Liquid Burner) 31 Model TLB-01-4K (Triplex Liquid Burner) 34 How - Oil : Maximum 37 Oil Gravity 159 m3/da 38 Water Cut 25 % (maximum) 39 Weight 158 lb 72 kg 41 Pilot Specifications 158 lb 72 kg 44 Natural Gas 66 / 145 sf13/hr 2.4 / 4.1 sm3/h 45 Ingintion System Natural Gas 66 / 145 sf13/hr 2.4 / 4.1 sm3/h			X 4	,	25			
20 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 22 Dry Weight 2,200 lbs 1,000 kg 23 Connections : Pilot Gas 1" hex union thread half 26 Main Burner Utility Air 4" hammer union thread half 27 Design Codes and Standards : ASME B31.3 29 NACE MR-01-75 (H2S) 30 Burner Nozzle Specifications 31 Burner Nozzle Specifications 32 Model TLB-01-4K (Triplex Liquid Burner) 400 bb/day 636 m3/de 33 Model TLB-01-4K (Triplex Liquid Burner) 40 1,000 bb/day 159 m3/de 34 Flow - Oil : Maximum 40 25 % (maximum) 159 m3/de 35 Oil Gravity 14 to 60 API 36 Flow - Pilot Gas / Pilot : Propane 41 Pilot Specifications 2.7 / 4.5 kg/hr 42 Model LBP-01 (Liquid Burner Pilot) 45 Isa / Pilot Gas / Pilot : Propane 46 Ignition System Manual (1 per pilot)		Flow - Utility Air / 1.000bbl oil/day	A D	343 to 450	sft3/min	9.7 to sm3/min		
21 Overall Dimensions - L x W x H 83 x 78 x 57 Inch 2,104 x 1,973 x 1,447 mm 22 Dry Weight 1,000 kg 1,000 kg 23 Connections : Pilot Gas 1" hex union thread half 24 Connections : Pilot Gas 4" hammer union thread half 25 Main Burner Utility Air 4" hammer union thread half 26 Design Codes and Standards : ASME B31.3 29 NACE MR-01-75 (H2S) 30 TLB-01-4K (Triplex Liquid Burner) 31 Burner Nozzle Specifications 32 Model TLB-01-4K (Triplex Liquid Burner) 34 Flow - Oil : Maximum 4,000 bbl/day 636 m3/da 35 Model 14 to 60 API 36 Water Cut 50 micron (maximum) 37 Differations 50 micron (maximum) 38 Particulate Tolerance 50 micron (maximum) 39 Weight 158 lb 72 kg 41 Pilot Specifications 158 lb 21 / 4.5 kg/hr 44 Flow - Pilot Gas / Pilot : Propane 6 / 10 lb/hr 2.7 / 4.5 kg/hr			6. N					
22 Dry Weight 2,200 lbs 1,000 kg 23 Connections : Pilot Gas 1" hex union thread half 25 Main Burner Utility Air 4" hammer union thread half 26 Main Burner Oil 3" hammer union thread half 27 Design Codes and Standards : ASME B31.3 29 NACE MR-01-75 (H2S) 30 TLB-01-4K (Triplex Liquid Burner) 4 Flow - Oil : Maximum 4 Minimum 4,000 bb/day 30 0il Gravity 636 m3/da 31 Maximum 4,000 bb/day 32 Model Minimum 4 Yate Cut 25 % (maximum) 31 Oil Gravity 14 to 60 API 32 Particulate Tolerance 50 micron (maximum) 33 Weight 158 lb 72 kg 44 Pilot Specifications 45 Natural Gas 86 / 145 sft3/hr 46 Ignition System Natural Gas 86 / 145 sft3/hr		Overall Dimensions - L x W x H	X	83 x 78 x 57	Inch 2.104 x 1.9	973 x 1.447 mm		
22 Connections : Pilot Gas 23 Main Burner Utility Air 4" hammer union thread half 26 Design Codes and Standards : ASME B31.3 28 Design Codes and Standards : ASME B31.3 29 NACE MR-01-75 (H2S) 30 TLB-01-4K (Triplex Liquid Burner) 31 Model 32 TLB-01-4K (Triplex Liquid Burner) 34 Flow - Oil : Maximum 4,000 bbl/day 636 m3/da 35 Model TLB-01-4K (Triplex Liquid Burner) 36 Water Cut 50 micron (maximum) 37 Oil Gravity 14 to 60 API 38 Particulate Tolerance 50 micron (maximum) 39 Weight 158 lb 72 kg 41 LBP-01 (Liquid Burner Pilot) 42 Model LBP-01 (Liquid Burner Pilot) 43 Model LBP-01 (Liquid Burner Pilot) 44 Propane 6 / 10 lb/hr 2.7 / 4.5 kg/hr 44 Natural Gas 86 / 145 sft3/hr 2.4 / 4.1 sm3/hr 46 Ignition System Manual (1 per pilot)		Dry Weight	~					
24 Connections : Pilot Gas Main Burner Utility Air Main Burner Oil 1" hex union thread half 25 Main Burner Oil 3" hammer union thread half 27 Besign Codes and Standards : ASME B31.3 NACE MR-01-75 (H2S) 30 NACE MR-01-75 (H2S) 31 Burner Nozzle Specifications 32 NACE MR-01-75 (H2S) 33 Model 34 Flow - Oil : 35 Minimum 36 Vater Cut 37 Oil Gravity 38 Particulate Tolerance 39 Weight 41 Pilot Specifications 42 Model 41 ElsP-01 (Liquid Burner Pilot) 46 ILBP-01 (Liquid Burner Pilot) 47 Model 48 LBP-01 (Liquid Burner Pilot) 49 6/ 10 lb/hr 2.7 / 4.5 kg/hr 44 Natural Gas 86 / 145 sft3/hr 2.4 / 4.1 sm3/hr 46 Ignition System Manual (1 per pilot)		Si y moigine	2	2,200	G	1,000 kg		
25 Main Burner Utility Air Main Burner Oil 4" hammer union thread half 26 Design Codes and Standards : ASME B31.3 NACE MR-01-75 (H2S) 30 Burner Nozzle Specifications 31 Burner Nozzle Specifications 32 Model 34 Flow - Oil : 36 Maximum 37 Oil Gravity 38 Particulate Tolerance 39 Weight 41 Pillot Specifications 42 Ibb 72 kg 43 Model 44 LBP-01 (Liquid Burner) 45 Natural Gas 46 Ignition System		Connections :	Pilot Gas	-21"	hex union thread half			
26 Main Burner Oil 3" hammer union thread half 27 Design Codes and Standards : ASME B31.3 29 NACE MR-01-75 (H2S) 30 Burner Nozzle Specifications 31 Burner Nozzle Specifications 32 Model 34 Flow - Oil : 36 Maximum 4,000 bbl/day 6 Water Cut 37 Oil Gravity 38 Particulate Tolerance 39 Weight 41 Pilot Specifications 42 LBP-01 (Liquid Burner Pilot) 44 Flow - Pilot Gas / Pilot : 45 Natural Gas 46 Ignition System		0 61		GA*				
27 28 Design Codes and Standards : ASME B31.3 NACE MR-01-75 (H2S) 30 31 Burner Nozzle Specifications 32 33 Model 34 Flow - Oil : Maximum 4 Flow - Oil : Maximum 35 Minimum 1,000 bbl/day 636 m3/da 36 Water Cut 01 Gravity 159 m3/da 37 Oil Gravity 14 to 60 API 50 micron (maximum) 38 Particulate Tolerance 50 micron (maximum) 72 kg 41 Pilot Specifications 40 158 lb 72 kg 42 Model LBP-01 (Liquid Burner Pilot) 46 43 Model LBP-01 (Liquid Burner Pilot) 4.1 sm3/h 44 Flow - Pilot Gas / Pilot : Propane 6 / 10 lb/hr 2.7 / 4.5 kg/hr 45 Natural Gas 86 / 145 sft3/hr 2.4 / 4.1 sm3/h		.9 9	remeans remember and the researcher second					
28 Design Codes and Standards : ASME B31.3 NACE MR-01-75 (H2S) 30 31 Burner Nozzle Specifications 32 33 Model 34 Flow - Oil : Maximum 47 Flow - Oil : Maximum 36 Water Cut 0bl/day 636 m3/da 36 Water Cut 01 Gravity 159 m3/da 37 Oil Gravity 14 to 60 API 50 micron (maximum) 38 Particulate Tolerance 50 micron (maximum) 72 kg 40 158 lb 72 kg 41 Pilot Specifications 44 42 43 Model LBP-01 (Liquid Burner Pilot) 44 Flow - Pilot Gas / Pilot : Propane 6 / 10 lb/hr 2.7 / 4.5 kg/hr 46 Ignition System Manual (1 per pilot) 44.1 sm3/h				6 3				
29 NACE MR-01-75 (H2S) 30 31 31 Burner Nozzle Specifications 32 33 33 Model 34 Flow - Oil : 35 Maximum 36 Water Cut 37 Oil Gravity 38 Particulate Tolerance 39 Weight 41 Pilot Specifications 42 Model 43 Model 44 Flow - Pilot Gas / Pilot : 45 Natural Gas 46 Ignition System		Design Codes and Standards :		.6 .6	ASME B31.3			
30 Burner Nozzle Specifications 31 Image: Constraint of the system 32 Image: Constraint of the system 33 Model 34 Flow - Oil : 35 Maximum 36 Water Cut 37 Oil Gravity 38 Particulate Tolerance 39 Weight 41 Pilot Specifications 42 Image: Construct of the system 44 Flow - Pilot Gas / Pilot : 45 Natural Gas 46 Ignition System	1.			WY SI				
32 33 Model TLB-01-4K (Triplex Liquid Burner) 34 Flow - Oil : Maximum 4,000 bbl/day 636 m3/da 35 Minimum 1,000 bbl/day 159 m3/da 36 Water Cut 25 % (maximum) 159 m3/da 37 Oil Gravity 14 to 60 API 50 micron (maximum) 39 Weight 158 lb 72 kg 40 Pilot Specifications 41 Pilot Specifications 42 LBP-01 (Liquid Burner Pilot) 44 Fropane 45 Natural Gas 86 / 145 sft3/hr 2.4 / 4.1 sm3/h 46 Ignition System Manual (1 per pilot) 14.1 sm3/h				C. S.				
33 Model TLB-01-4K (Triplex Liquid Burner) 34 Flow - Oil : Maximum 35 Flow - Oil : Maximum 36 Water Cut 1,000 bbl/day 159 m3/da 37 Oil Gravity 14 to 60 API 14 to 60 API 38 Particulate Tolerance 50 micron (maximum) 39 Weight 158 lb 72 kg 40 158 lb 72 kg 41 Pilot Specifications 4 42 LBP-01 (Liquid Burner Pilot) 4 44 Flow - Pilot Gas / Pilot : Propane 6 / 10 lb/hr 2.7 / 4.5 kg/hr 45 Ignition System Natural Gas 86 / 145 sft3/hr 2.4 / 4.1 sm3/h	31	Burner Nozzle Specifications						
34 Flow - Oil : Maximum 4,000 bbl/day 636 m3/da 35 Minimum 1,000 bbl/day 159 m3/da 36 Water Cut 25 % (maximum) 159 m3/da 37 Oil Gravity 14 to 60 API 25 % (maximum) 39 Particulate Tolerance 50 micron (maximum) 72 kg 40 158 lb 72 kg 41 Pilot Specifications 40 42 Kodel LBP-01 (Liquid Burner Pilot) 44 Flow - Pilot Gas / Pilot : Propane 45 Natural Gas 86 / 145 sft3/hr 2.4 / 4.1 sm3/hr 46 Ignition System Manual (1 per pilot) 4.1 sm3/hr			~0	20				
35 Minimum 1,000 bbl/day 159 m3/da 36 Water Cut 25 % (maximum) 159 m3/da 37 Oil Gravity 14 to 60 API 38 Particulate Tolerance 50 micron (maximum) 39 Weight 158 lb 40 158 lb 72 kg 41 Pilot Specifications 42 43 44 How - Pilot Gas / Pilot : 45 Propane 46 Ignition System	33	Model	n.	TLB-01-4K	(Triplex Liquid Burner)			
36 Water Cut 25 % (maximum) 37 Oil Gravity 14 to 60 API 38 Particulate Tolerance 50 micron (maximum) 39 Weight 158 lb 72 kg 40 1 Pilot Specifications 41 41 Else-01 (Liquid Burner Pilot) 50 micron (maximum) 42 43 Model LBP-01 (Liquid Burner Pilot) 44 Flow - Pilot Gas / Pilot : Propane 6 / 10 lb/hr 2.7 / 4.5 kg/hr 45 Natural Gas 86 / 145 sft3/hr 2.4 / 4.1 sm3/hr 46 Ignition System Manual (1 per pilot)	34	Flow - Oil :	Maximum	4,000	bbl/day	636 m3/day		
37 Oil Gravity 14 to 60 API 38 Particulate Tolerance 50 micron (maximum) 39 Weight 158 lb 72 kg 40 1 Pilot Specifications 14 to 60 API 41 Pilot Specifications 158 lb 72 kg 42 Image: Specification Specificati	35		🔨 🔿 Minimum			159 m3/day		
38 Particulate Tolerance 50 micron (maximum) 39 Weight 158 lb 72 kg 40 1 Pilot Specifications 1 41 Pilot Specifications 1 1 42 43 Model LBP-01 (Liquid Burner Pilot) 1 44 Flow - Pilot Gas / Pilot : Propane 6 / 10 lb/hr 2.7 / 4.5 kg/hr 45 Natural Gas 86 / 145 sft3/hr 2.4 / 4.1 sm3/h 46 Ignition System Manual (1 per pilot)	36	Water Cut		25	% (maximum)			
39 Weight 158 lb 72 kg 40	37	Oil Gravity	20 ⁻	14 to 60	API			
40 Pilot Specifications 41 Pilot Specifications 42 Image: Specification Specificat	38	Particulate Tolerance	0	50	micron (maximum)			
Pilot Specifications 41 Pilot Specifications 42 LBP-01 (Liquid Burner Pilot) 43 Model 44 Flow - Pilot Gas / Pilot : 45 Propane 46 Ignition System	39	Weight		158	lb	72 kg		
42 LBP-01 (Liquid Burner Pilot) 43 Model 44 Flow - Pilot Gas / Pilot : 45 Natural Gas 46 Ignition System	40							
43ModelLBP-01 (Liquid Burner Pilot)44Flow - Pilot Gas / Pilot :Propane45Natural Gas86 / 145 sft3/hr46Ignition SystemManual (1 per pilot)	41	Pilot Specifications						
44Flow - Pilot Gas / Pilot :Propane6 / 10 lb/hr2.7 / 4.5 kg/hr45Natural Gas86 / 145 sft3/hr2.4 / 4.1 sm3/hr46Ignition SystemManual (1 per pilot)	42							
45Natural Gas86 / 145 sft3/hr2.4 / 4.1 sm3/h46Ignition SystemManual (1 per pilot)	43	Model		LBP-01	(Liquid Burner Pilot)			
46 Ignition System Manual (1 per pilot)	44	Flow - Pilot Gas / Pilot :	Propane	6 / 10	lb/hr	2.7 / 4.5 kg/hr		
	45		Natural Gas	86 / 145	sft3/hr	2.4 / 4.1 sm3/hr		
47 Power Supply 110 VAC 50/50 Hz Single Phase	46	Ignition System		Manual	(1 per pilot)			
	47	Power Supply		110	VAC 50/50 Hz Single Phase	;		
	L							



Description

2 3 The FLAREON FWTB range of Well Test and Disposal burner packages have been specifically designed to meet industry requirements and cope with the harsh environments and fluids encountered in onshore and offshore applications. The FWTB-4 01-16K is a standard package designed to flow a maximum of 16,000 Barrels per day (BBL/day) of fluid with no liquid fallout 5 6 and minimal smoke up to 12,000 BBL/day while water cut is required to maintaim smokeless operation at full design capacity. 7 Each units includes twelve LBN-01-1.33K Burner Nozzles separated into four groups of three around four of our LBP-01 Liquid 8 Burner Pilots. This layout minimises flame interference, improving overall burn efficiency. Individual nozzles cane easily 9 removed or isolated as required. 10 11 The Burner Nozzles work on a traditional and well proven concept of air or steam atomisation within a Y-Jet formation. The 12 sizing's and angles are optimised by extensive in-house testing. 13 14 This simple design has no moving parts and is sized to avoid blockage and keep pressure drop to a minimum often negating 15 the use of booster pumps. 16 17 In addition to our standard products we offer tailor-made solutions based around our typical burner nozzle design to meet with 18 your application requirements. Individual units can be designed between 1,000BBL/day and 16,000BBL/day with a variety of 19 connections types (Flanged, Hammer Union, screwed, fully welded) and sizes. Flame detection can be offered on request with 20 control panels ranging the standard manual push-button ignition to auto-ignition and detection with communication to a plant 21 DCS for remote monitoring. 22 23 24 Features : 25 26 Compact size and simple design - Low smoke generation and no liquid fallout 27 - Designed for a wide range of oil types and water cuts Low pressure drop. Low pressure requirement 28 Backflow protection on oil and air lines Sold as standard product or bespoke design 29 High turndown - Air, Steam or Gas atomisation available 30 Easy to clean and maintain Flame detection available on request 31 32 Hazardous 33 Area EexD 34 Ignition Control 35 Panel 36 37 Oil In 38 39 40 41 42 FWTB-01-16K 43 Burner 44 Air In Packages 45 46 47 LBN-01-1.33K Burner Nozzle

Notes:

- Available subject to prior sale.
- Can be sold as individual units
- Located in Indonesia.
- Full Documentation Packages are available upon request.