



**FLEXIHEAT UK LTD**  
Flexible Heating & Dehumidification Solutions

# Waste/Multi Oil Heaters



**\*\*Above picture shows day tank option.  
Supplied on request**

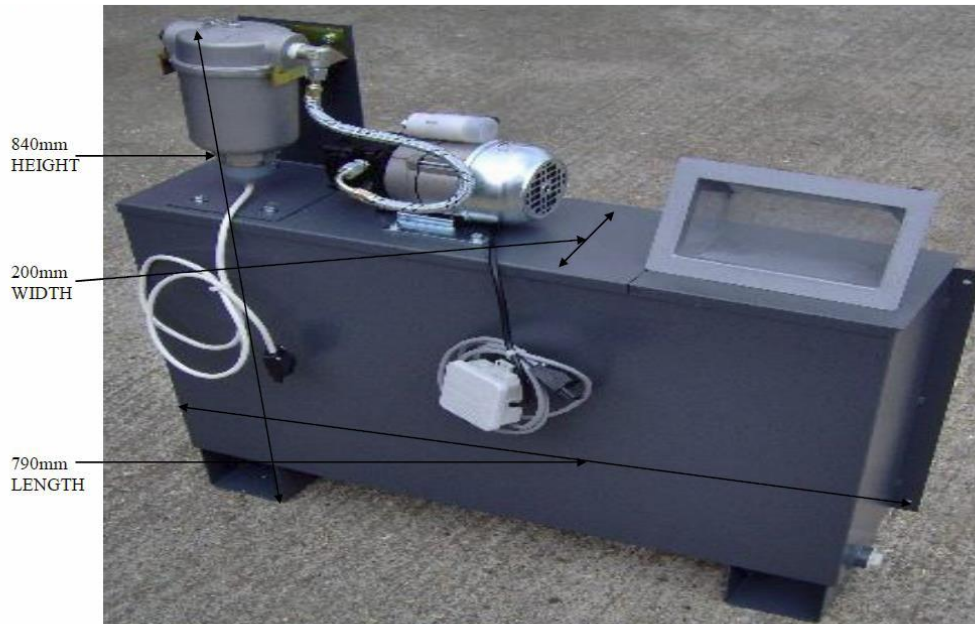
## Technical data

Model		25SZ	40SZ	55SZ	70SZ	95SZ	110SZ	140SZ	170SZ	195SZ
Heat input	kW	28	40	55	70	95	110	129	163	194
	BTU's	96,000	136,000	188,000	239,000	324,000	375,000	440,000	596,000	662,000
Heat output	kW	25.5	37.5	50.5	64	88	100	120	150	180
	BTU's	87,000	128,000	172,000	218,000	300,000	341,000	409,000	512,000	614,000
Air delivery	M <sup>3</sup> /h	1,650	2,900	3,700	5,000	6,750	7,650	9,200	118,000	13,800
Oil consumption*	kg/h	2.36	2.4	4.3	5.8	8	9.3	10.8	13.7	16.3
	ltr/h	2.78	2.7	5	6	9.28	10.9	12.7	16.2	19.2
	gal/h	0.6	0.6	1.1	1.3	2	2.4	2.8	3.5	4.2
Electrical connection	Volts	30/50 (1ph)	230/50 (1ph)	230/50 (1ph)	400/50 (3ph)	400/50/5.6	400/50 (3ph)	400/50 (3ph)	400/50 (3ph)	400/50 (3ph)
Electrical power consumptic	kW	0.44	0.67	1.28	1.1	1.68	1.68	1.1	2.2	1.5
Flue gas pipe	Ø mm	130	130	130	180	180	180	249	249	249
Width	mm	455	505	585	665	765	765	1025	1025	1025
Depth	mm	715	865	975	1085	1150	1150	1250	1250	1750
Height	mm	1275	1500	1645	1835	1895	1985	2170	2170	2170
Weight (with burner)	kg/h	109	130	166	207	261	281	425	431	521
Required air pressure	bar	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Compressed air consumptic	CFM	0.81	1.3	1.76	2.25	3.1	3.5	4.23	5.29	6.35

- Units from 25SZ to 110SZ have a stainless steel combustion chamber and heat exchanger
- The 25SZ to 195SZ can be supplied with either a 59L or 109L day tank , with a pump and pre heat filter
- All units are automatic ignition and require a compressed air supply
- Ductible versions of these heaters are also available on request

Boilers can be supplied with a 59L or 109L day tank, which comes complete with pump, motor and ½” pre heat filter

Picture below shows the 59L tank option

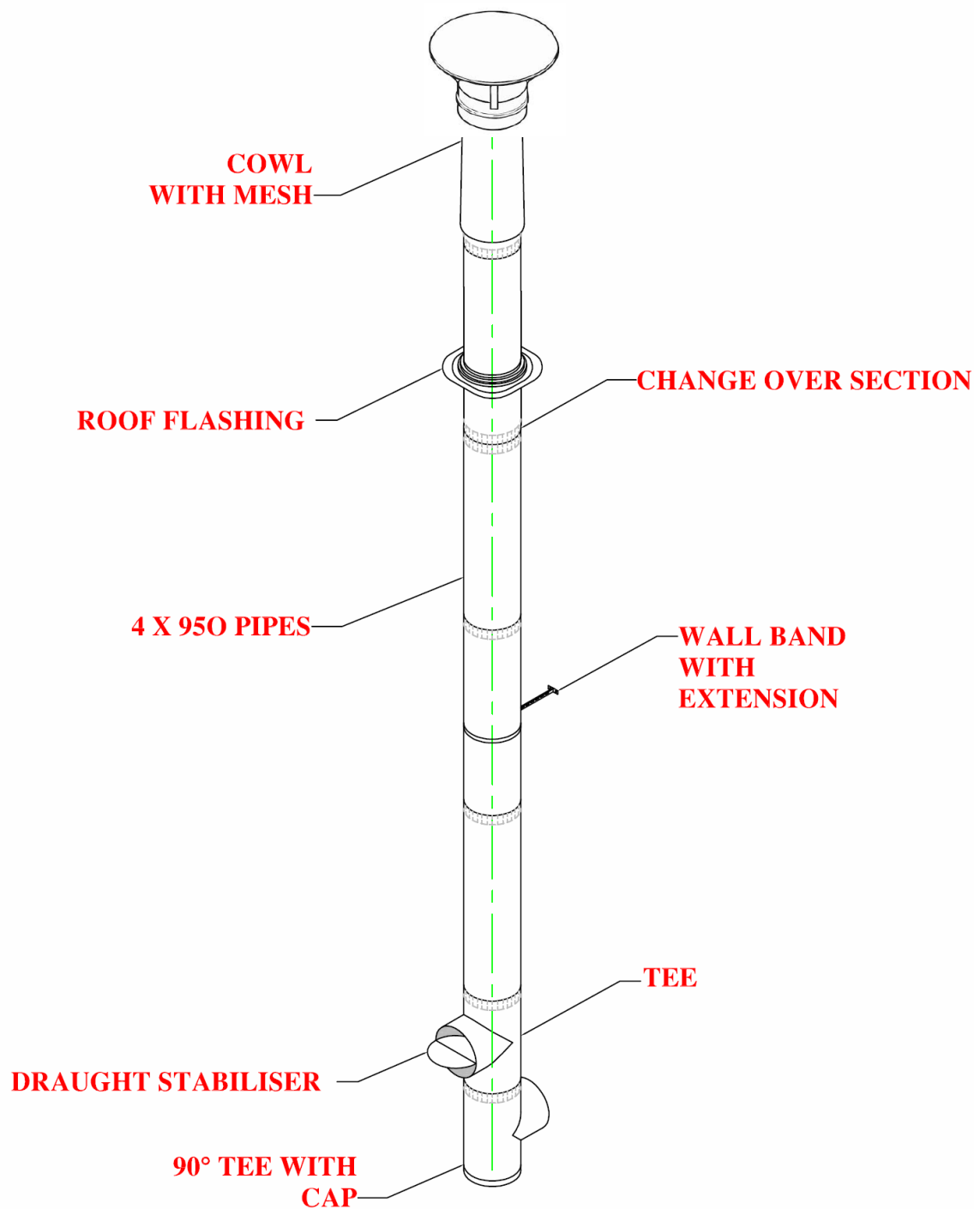


This day tank needs to be situated next to the boiler. The main advantages of the day tank are;-

- Via float suction it picks up the cleanest oil,
- It picks up the latent heat from being in close proximity to the boiler resulting in the oil being semi-preheated prior to entering the burner.
- The tank also has a drainage point at the bottom allowing easy drainage of any water/contaminants from the oil. This results in the oil being semi-preheated prior to entering the burner.

\* You can run your bulk storage tank supply to this day tank but you will need a float switch and solenoid valve to prevent oil overflow due to gravity.

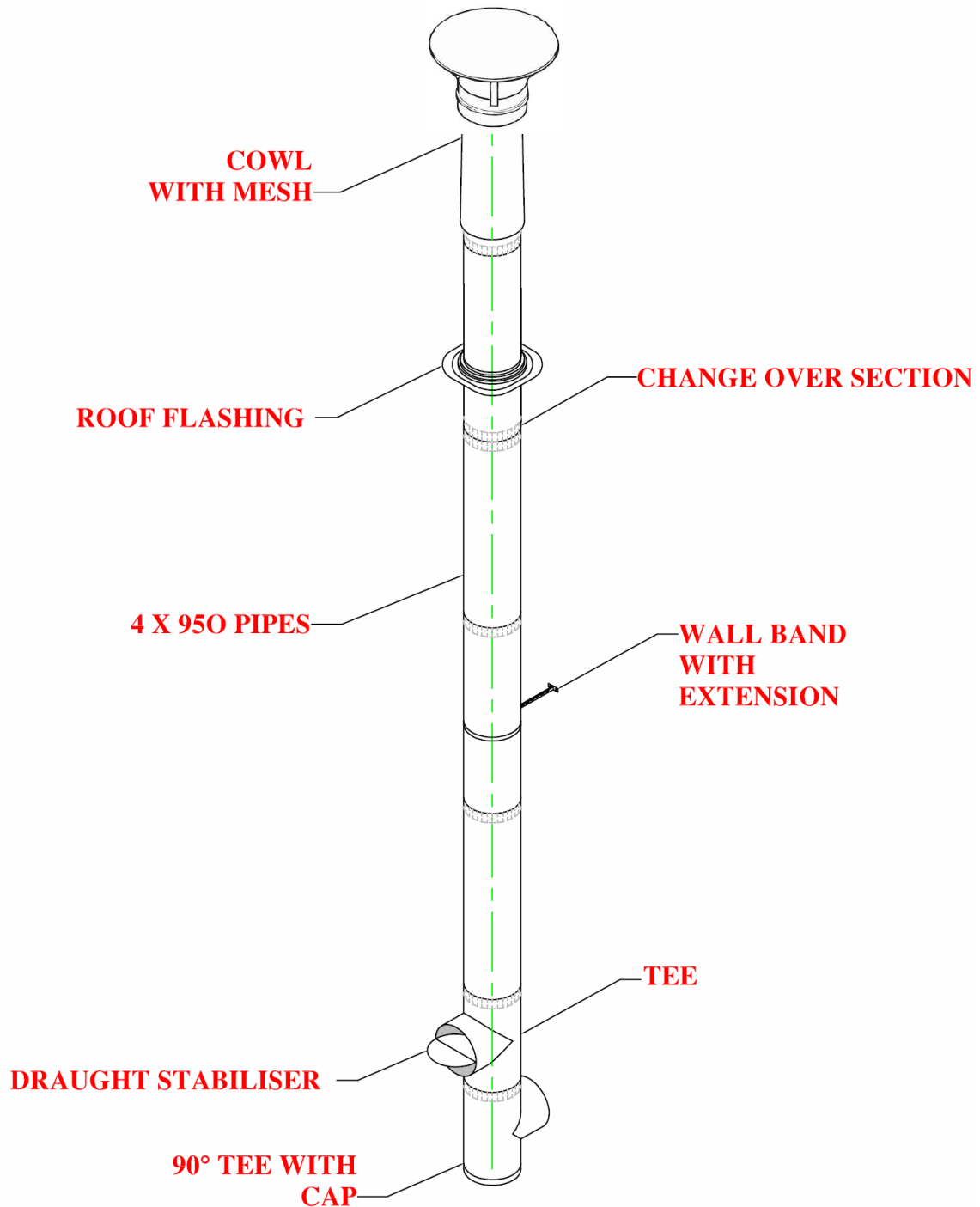
## Standard Waste Oil Flue Kit - Single Wall - Stainless Steel



- Flue gases cannot rise in a horizontal stack and bends also restrict their movement. If flue bends are used then we recommend 45° bends instead of 90° and a gradual sloping stack

All waste oil boiler require an flue system to expel the exhaust gases generated.

Below is an example of the type of flue setup we recommend - supplied by others



- Flue gases cannot rise in a horizontal stack and bends also restrict their movement. If flue bends are used then we recommend 45° bends instead of 90° and a gradual sloping stack

## Supply with compressed air

Many industrial sites have a compressed air supply. This can be used to supply the Kroll universal oil burner with compressed air it requires. For those who don't have an existing compressed air supply, you can utilize our quiet compressor which has been especially developed to create the necessary compressed air for our burners. Our compressors are diaphragm type (oil free), requiring very little maintenance and are also very quiet (only 70 dba max).



# Waste Oil Fuels

Please ensure the following

**NO** Water, Petrol or Paint Thinners

**NO** Brake or Clutch Fluid

**NO** Anti-Freeze

**DO NOT** use unused engine oil as it does not burn very well at all

**Synthetic Oils** – If your oil is all synthetic then you must add at least 15% heating oil /diesel to ensure reliable starting

If the synthetic oil content is more 50:50 to mineral oil in your waste oil, then you must add at least 15% heating oil/diesel to ensure reliable starting

If burning used cooking oil, please ensure all fats are removed prior to entering the pre heat tank of the burner



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# MULTI OIL HEATER

## MAINTENANCE SCHEDULE

### EVERY WEEK –

DRAIN WATER & SLUDGE FROM PRE-HEAT TANK ON  
BURNER.

DRAIN WATER FROM COMPRESSED AIR WATER TRAP  
(ONLY APPLICABLE TO BURNERS WITHOUT  
IN-BUILT COMPRESSOR)

CLEAN BURNER FLAME RING & ELECTRODES  
REMOVING ANY CARBON BUILD UP

### EVERY 4-6 WEEKS – (OR 250 Burning Hours)

CLEAN OUT HEAT EXCHANGER AND COMBUSTION CHAMBER  
AND CHECK FLUE IS NOT BLOCKED.  
DRAIN WATER & SLUDGE FROM INTERMDIATE TANK

**FAILURE TO CARRY OUT THIS SHEDULE  
WILL LEAD TO FAILURE OF THE HEATER**

**WARNING:-**

WEAR INDUSTRIAL RUBBER GLOVES, OVERALLS AND  
PROTECTIVE FACE MASK TO CLEAN COMBUSTION  
AND HEAT EXCHANGER  
BAG AND SEAL CONTENTS.