ALL OTHER EQUIPMENT TO BE IN BUFFER PLANT ROOM CONTAINER

150mm HTG F 22.28 l/s

150mm HTG F & R 22.28 l/s

PIPE WORK TO EXIT CONTAINER AND RUN EXTERNALLY TO EXISTING PLANT ROOM

P9 TS

150mm HTG

ORIFICE PLATE TO DROP DOWN IN SIZE (DN125).

5000L BUFFER TANK (PN16 DN 150) CBT 1

5000L BUFFER TANK (PN16 DN 150) CBT 2

5000L BUFFER TANK (PN16 DN 150) CBT 3

5000L BUFFER TANK (PN16 DN 150) CBT 4

150mm CONNECTING PIPEWORK

DOSING POT (DP)

28mm DOSING LINE

HM-01 TS

150mm HTG R 22.28 l/s

PLUGGED TAPPING FOR POSSIBLE CONNECTION OF SENSOR

600L EXPANSION VESSEL (E1)

600L EXPANSION VESSEL (E2)

600L EXPANSION VESSEL (E3)

600L EXPANSION VESSEL (E4)

42MM EXPANSION LINE

HM

HEAT METER KAMSTRUP MULTICAL 801 QP 50m³/h (DN150) (HM-01)

MICROBUBBLE DEAERATOR & MAGNETIC DIRT SEPARATOR (DN150) (A&D)

ANTI-GRAVITY LOOP

65mm EXPANSION LINE

28mm MCW

BRANCH LINE TO BE CAPPED AFTER FIRST FILL

15mm MCW

NOTE: TEMPORARY FLEXIBLE CONNECTION TO BE REMOVE AFTER FILLING

AUTO-FILL / PRESSURISATION SET

PRESS. UNIT

NRV1

RPZ

PRV

28mm MCWS

TO TRAPPED GULLY DRAIN OR DISCHARGE TO FLOOR. METHOD TO BE CONFIRMED

CONNECTION JOINT OF CONTAINERS

BIOMASS BOILER PLANT ROOM CONTAINER

150mm FLOW HEADER TO RUN AT REAR OF CONTAINER

150mm RETURN HEADER TO RUN AT REAR OF CONTAINER

65mm F & R 5.57 l/s

65mm HTG F & R 5.57 l/s

GUNTAMATIC 250kW BIOMASS BOILER (DN 50) 85° / 74° ● 5.57 l/s (B4)

GUNTAMATIC 250kW BIOMASS BOILER (DN 50) 85° / 74° ● 5.57 l/s (B3)

GUNTAMATIC 250kW BIOMASS BOILER (DN 50) 85° / 74° ● 5.57 l/s (B2)

GUNTAMATIC 250kW BIOMASS BOILER (DN 50) 85° / 74° ● 5.57 l/s (B1)

3BAR SV

35mm PRESSURE RELIEF DRAIN

22mm TEMP RELIEF DRAIN

300MM I/D TWIN WALL FLUE

22mm MCW

28mm FLUE DRAIN

54mm COMMON DRAIN (TO BE RUN AT A FALL OF 1:60 MINIMUM)

TO TRAPPED GULLY DRAIN OR DISCHARGE TO FLOOR. METHOD TO BE CONFIRMED

AUTOMATIC AIR VENT INSTALLATION DETAIL

HEAT METER TEMPERATURE SENSOR INSTALLATION DETAIL

PRV TO BE WITHIN 1000mm OF BOILER OUTLET

PRESSURE RELIEF VALVE INSTALLATION DETAIL

FROM FLUE STACK

TO DRAIN

WATER LEVEL

PLEASE ENSURE DRAIN TRAP IS FILLED WITH WATER PRIOR TO COMMISSIONING SO TO ENSURE DRAUGHT ISN'T INTRODUCED INTO FLUE STACK

FLUE STACK DRAIN INSTALLATION DETAIL

10 DIAMETERS STRAIGHT PIPE

5 DIAMETERS STRAIGHT PIPE

TYPICAL COMMISSIONING STATION INSTALLATION DETAIL

TYPICAL HEAT METER FLOW METER INSTALLATION DETAIL

NOTES

NOTE 1. MAINS COLD WATER; FEED MUST BE BETWEEN 1.5 – 3BAR, HAVE LOCAL ISOLATION AT THE POINT ENTRY INTO THE BOILER ROOM, BE FITTED WITH A PRESSURE REDUCING VALVE BEFORE CONNECTING TO THE FILLING SYSTEM.
SYSTEM FILL AND FLUSH TO BE CONNECTED BEFORE USER STOPCOCK.
NOTE 2. DISCHARGE PIPE WORK THE OVER TEMPERATURE AND OVER PRESSURE DISCHARGE PIPE WORK MUST COMPLY WITH THE UK WATER REGULATIONS. THIS IS THE INSTALLERS RESPONSIBILITY.
NOTE 3. FILLING CONNECTION;
THIS FILLING CONNECTION SHOWN IS FOR THRST FILL ONLY, THE HEATING SYSTEM SHOULD NOT BE CONNECTED TO THE COLD MAINS.
NOTE 4. DRAIN OFF VALVES;
THIS REPRESENTS ONE DRAIN OFF POINT, AND MORE SHOULD BE FITTED BY THE INSTALLER IF NECESSARY.
NOTE 5. AUTOMATIC-AIR-VENTS; (AAV).
THIS REPRESENTS ONE AAV, AND MORE SHOULD BE FITTED AT EACH ELEVATED POINT OF THE SYSTEM BY THE INSTALLER IF NECESSARY.
NOTE 6. FLOW METER REQUIREMENTS; ALL FLOW METERS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
NOTE 7. RHI TEMPERATURE SENSORS; THESE TEMPERATURE SENSORS SHOULD BE FITTED SO THEY CAN NOT BE REMOVED OR TAMPERED WITH AT ANY POINT.
NOTE 8. MAIN HEATING SYSTEM PUMP;
THIS MIGHT NOT BE SIZED OR SUPPLIED BY TRECO, PLEASE CHECK YOUR QUOTE.
NOTE 9. EXTERNAL TERMINATION AT 100MM FROM GROUND LEVEL AND FITTED WITH A CAGE.
NOTE 10. DN125 TEE TO BE USED FOR CONVERGING FLOWS FROM BOILERS AND OUT TO CIRCUIT
NOTE 11. SURGE PROTECTION TO BE INSTALL BETWEEN BMS AND BIOMASS BOILER
NOTE 12. ALL DIMENSION AND SIZES ARE DETAILED IN MILLIMETERS UNLESS OTHERWISE STATED
NOTE 13. PIPEWORK PASSING THROUGH DESIGNATED FIRE COMPARTMENTS SHALL BE PROVIDED WITH APPROPRIATE FIRE PROTECTION AND ADEQUATE ACCESS
NOTE 14. HEATING PIPEWORK SHALL BE INSULATED WHEN DISTRIBUTING IN ROOF SPACE, SERVICE VOIDS, BOXING'S AND BACK OF KITCHEN CABINETS
NOTE 15. ALL EXPOSED HEATING PIPEWORK SHALL BE INSULATED AND BOXED IN
NOTE 16. MECHANICAL CONTRACTOR TO ENSURE PROPER ACCESS TO COMMISSIONING VALVES AND ISOLATING VALVES TO ALLOW FOR TESTING, YEARLY INSPECTION AND MAINTENANCE
NOTE 17. THE DRAWING SHOWS A GENERAL REPRESENTATION OF THE EQUIPMENT AND PIPEWORK, ALL LOCATIONS AND DIMENSIONS TO BE CONFIRMED ON SITE.
NOTE 18. ALL ONSITE HEALTH AND SAFETY REGULATION ARE TO BE OBSERVED AT ALL TIMES
NOTE 19. ALL REDUNDANT MATERIALS ARE TO BE REMOVED FROM SITE AND CORRECTLY DISPOSED
NOTE 20. ALL LOW POINT SHALL BE PROVIDED WITH DRAINAGE COCKS AND ALL HIGH POINT WITH AIR VALVES
NOTE 21. REGULATING VALVES SHALL BE INSTALLED TO ENSURE NO COMPONANTS ARE WITHIN TEN PIPE DIAMETERS UPSTREAM AND FIVE DIAMETERS DOWN STREAM OF ANY MEASURING DEVICE
NOTE 22. MECHANICAL CONTRACTOR TO ALLOW ADEQUATE PROVISION FOR HEATING SERVICE PIPEWORK EXPANSION
NOTE 23. THE CONTRACTOR SHALL ENSURE THEY ARE WORKING TO THE CURRENT ARCHITECTS DRAWING BEFORE COMMENCING WORKS ON SITE. ANY SERVICE INSTALLED TO THE WRONG ARCHITECTS DRAWING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RECTIFY.
NOTE 24. ALL HEATING WATER SERVICES SHALL BE FLUSHED AND CHEMICALLY TREATED AND SET TO WORK AS PRE THE REQUIREMENTS OF BSRIA BG 2/2010

LEGEND

	PRESSURE TEMPERATURE SENSOR		LOCK SHIELD VALVE
	HIGH / LOW PRESSURE SWITCH		DOUBLE CHECK VALVE
	AUTOMATIC AIR VENT		THERMAL EXPANSION VALVE
	AIR VACUUM VALVE		PRESSURE REDUCING VALVE
	TEMPERATURE AND PRESSURE GAUGE		DRAIN COCK
	PRESSURE GAUGE		FLEXIBLE COUPLING PTO
	THERMOSTATIC RADIATOR VALVE		DIFFERENTIAL PRESSURE CONTROL VALVE
	ISOLATION VALVE		STRAINER ISOLATION VALVE
	PUMP		DOUBLE REGULATING VALVE
	NON RETURN VALVE		BMS TEMPERATURE SENSOR
	PRESSURE RELIEF VALVE		

B	STATS REVISED	NDP		DSM	17/11/16
A	FIRST ISSUE	NDP	DG	DSM	18/10/16
MK	REVISIONS	DRN	CHK	APP	DATE

INDICATIVE MECHANICAL SERVICES BIOMASS PLANT ROOM

INSTALLATION

ORIGINAL DRAWING SIZE A1 | SCALE NTS

DRAWING NUMBER T661 – 300 | REV. B

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