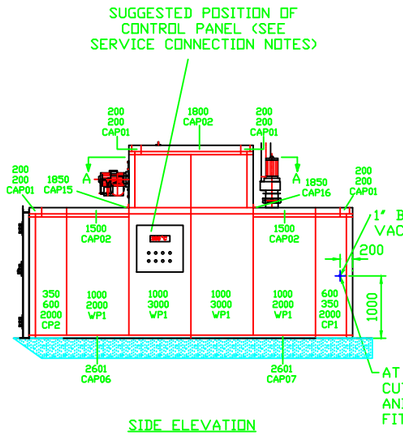
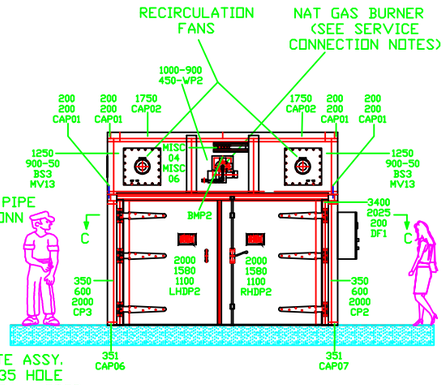
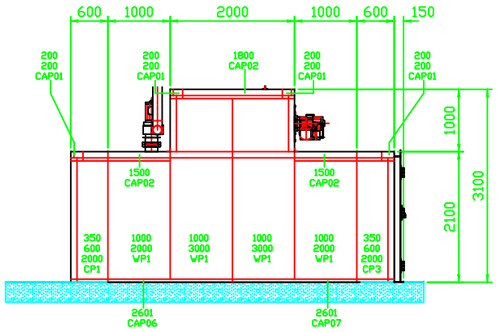


SIDE ELEVATION



FRONT ELEVATION



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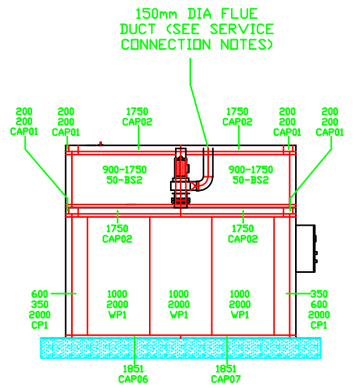

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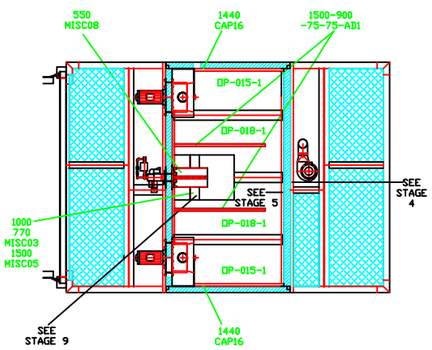
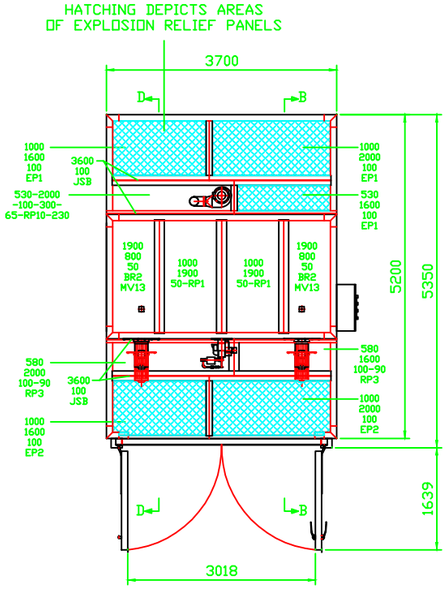
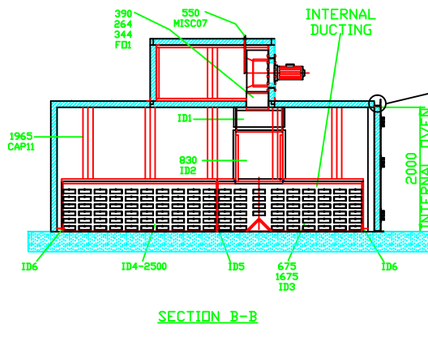


SECTION A-A



PLAN VIEW



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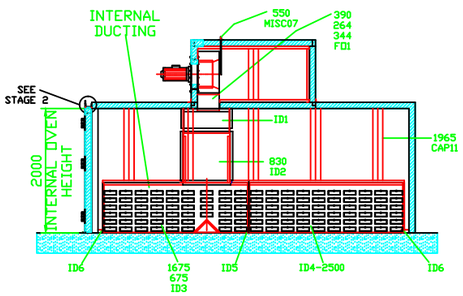

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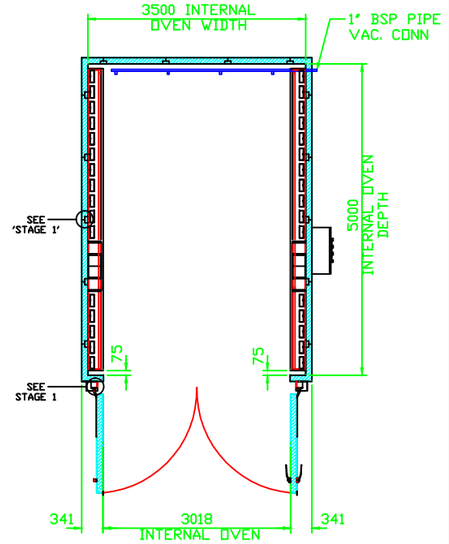

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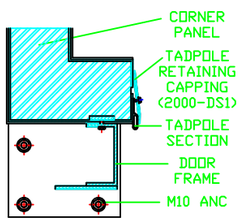
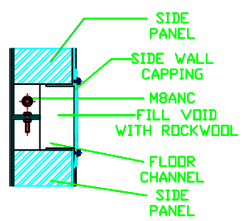


DETAIL A



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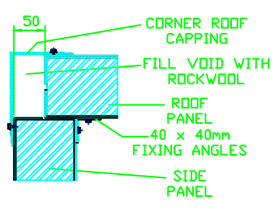

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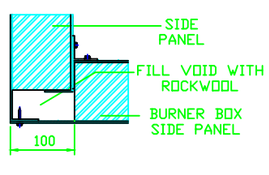

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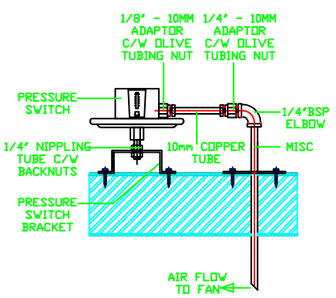

DETAIL E

OVEN ASSEMBLY INSTRUCTIONS.

STAGE 1 :-

LAY FLOOR CHANNELS ON FACTORY FLOOR TO MARK OUT LOCATION OF OVEN. SLOT SIDE WALL PANELS OF OVEN INTO CHANNELS, BOLTING PANELS TOGETHER USING M8HHS & M8HHN. ONCE ALL SIDE WALL PANELS ARE LOCATED IN CHANNELS AND BOLTED TOGETHER, THE DOOR ASSEMBLY CAN BE BOLTED TO SIDE WALL PANELS USING M8HHS & M8HHN. SANDWICH TADPOLE SECTION SEAL IN BETWEEN DOOR FRAME AND PANELS (SEE DETAIL A). ENSURE OVEN LOCATION IS CORRECT AND ANCHOR DOWN THE DOOR FRAME TO THE FACTORY FLOOR USING M10ANCS. ANCHOR DOWN ALL SIDE WALL PANELS THROUGH THE FLOOR CHANNELS IN TO THE FACTORY FLOOR WHEREVER THE PANELS ARE RECESSED FOR JOINTING USING M8ANCS (SEE DETAIL B).

STAGE 2 :-

POSITION ROOF PANELS AND FIX TO SIDE WALL PANELS USING STANDARD TEX SCREWS THROUGH 40 x 40 185WG ANGLES. THESE ANGLES MAY BE FITTED TO TOP OF SIDE WALL PANELS OR MAY BE SUPPLIED LOOSE. IF SUPPLIED LOOSE, FIX ANGLES TO SIDE WALL PANELS FIRST BEFORE FIXING TO ROOF PANELS (SEE DETAIL C). BOLT ALL ROOF PANELS TO EACH OTHER, WHERE APPROPRIATE AND BOLT ADJACENT ROOF PANEL TO DOOR FRAME USING M8HHS & M8HHN. SANDWICH TADPOLE SECTION SEAL IN BETWEEN DOOR FRAME AND PANELS (AS WITH SIDE PANELS).
TEK SCREW TO BE AT NO MORE THAN 150mm PITCHES WHEREVER THEY ARE USED DURING THE INSTALLATION OF THE OVEN.

STAGE 3 :-

POSITION BURNER BOX FLOOR PANEL(S) AND BOLT TO EACH OTHER WHERE APPROPRIATE AND TO OVEN ROOF PANELS USING M8HHS & M8HHN. IT MAY BE NECESSARY TO FIX FOLDED 145WG ANGLES TO SIDE WALLS OF OVEN TO SUPPORT BURNER BOX USING TEK SCREWS WHERE PANEL(S) CANNOT BE BOLTED TO OVEN ROOF PANELS.

STAGE 4 :-

POSITION BURNER BOX SIDE PANELS. BOLT SIDE PANELS TOGETHER USING M8HHS & M8HHN, WHERE APPLICABLE, AND TEK SCREW PANELS IN TO OVEN SIDE WALL PANELS VIA 100mm WIDE 185WG TABS ON PANELS. STUFF ANY VOIDS BEHIND TABS TIGHTLY WITH ROCKWOOL BEFORE FIXING (SEE DETAIL D). USE 50 x 50 & 75 x 50 FOLDED 185WG GALV ANGLES TO CONNECT THE BURNER BOX SIDE WALL PANELS TO THE ROOF PANELS ON THE OUTSIDE OF THE BURNER BOX USING STANDARD TEX SCREWS.

STAGE 5 :-

POSITION BURNER BOX ROOF PANEL(S) AND FIX TO SIDE WALL PANELS USING STANDARD TEX SCREWS VIA 40 x 40 185WG ANGLES. THESE ANGLES MAY BE FITTED TO TOP OF SIDE WALL PANELS OR MAY BE SUPPLIED LOOSE. IF SUPPLIED LOOSE, FIX ANGLES TO SIDE WALL PANELS FIRST BEFORE FIXING TO ROOF PANELS (SEE DETAIL B). BOLT ALL ROOF PANELS TO EACH OTHER, WHERE APPROPRIATE, USING M8HHS & M8HHN. ONCE ALL BURNER BOX PANELS ARE IN POSITION, THE INTERNAL CORNERS OF THE BURNER BOX ARE LINED WITH 40 x 40 FOLDED 185WG ANGLES. USE GEO-CEL FIREBLOCK TO SEAL ALL CAPPINGS TO BURNER BOX TO PREVENT MIGRATION OF ROCKWOOL INTO OVEN AND TO MINIMISE HEAT LOSS. THESE ANGLES ARE FIXED WITH STANDARD TEX SCREWS.

STAGE 6 :-

TIGHTLY STUFF ALL EXPLOSION RELIEF PANELS WITH A LAYER OF ROCKWOOL SANDWICHED BETWEEN TWO LAYERS OF REINFORCED FOIL. TIGHTLY STUFF ALL RECESSES WHERE PANELS ARE BOLTED TOGETHER WITH ROCKWOOL AND FIX 180mm WIDE SIDE WALL CAPPINGS OVER RECESSES USING STANDARD TEX SCREWS (SEE DETAIL B). USE GEO-CEL FIREBLOCK TO SEAL ALL CAPPINGS TO OVEN TO PREVENT MIGRATION OF ROCKWOOL INTO OVEN AND TO MINIMISE HEAT LOSS. TIGHTLY STUFF 50mm GAPS BETWEEN OVEN / BURNER BOX ROOF PANELS AND PERIMETER OF OVEN WITH ROCKWOOL AND FIX 150 x 100mm 185WG ANGLE CAPPINGS OVER CORNERS USING STANDARD TEX SCREWS (SEE DETAIL C).

STAGE 7 :-

IF OVEN HAS AN INSULATED FLOOR, LAY INSULATION DOWN TO COVER FLOOR OF OVEN. PLACE FLOOR SHEETS OVER INSULATION LEAVING A MINIMUM 5mm GAP BETWEEN SHEETS AND SIDE WALLS OF OVEN. PLACE 50 x 50 185WG FOLDED ANGLE CAPPINGS ON TOP OF THE FLOOR SHEETS AROUND THE SIDE WALLS OF THE OVEN AND FIX TO THE OVEN SIDE WALLS ONLY TO RETAIN THE FLOOR SHEETS BUT TO STILL ALLOW EXPANSION.

STAGE 8 :-

FIT FAN(S), FAN SCROLL(S) AND BURNER TO OVEN USING EITHER M10HHS, M10HHN & M10WASH OR M8HHS, M8HHN & M8WASH. FIT BURNER MOUNTING PLATE TO EXTERIOR OF PANEL, STUFF ALL VOIDS WITH ROCKWOOL THEN TEK SCREW ON INTERNAL PLATE AND SEAL TO PANEL USING HIGH TEMP SEALANT. BOLT FUME TUBE ON TO INTERNAL PLATE USING M8HHS & M8HHN. SLIDE FAN OUTLET OVER RECTANGULAR OUTLET ON FAN SCROLL AND FUME BLEED SPIGOT OVER CIRCULAR OUTLET ON FAN SCROLL AND FIX TO SCROLL USING TEK SCREWS OR RIVETS. FAN OUTLET DUCT SHOULD PROTRUDE IN TO OVEN APPROX 40mm AND FUME BLEED SPIGOT SHOULD PROTRUDE BURNER BOX ROOF APPROX 100mm. FIX FAN OUTLET TRANSFORMER TO OVEN ROOF AND WALL. SLIDE WALL DUCT OVER TRANSFORMER AND FLOOR DUCT OVER WALL DUCT, FIX TO SIDE OF OVEN USING TEK SCREWS AND ANCHOR FLOOR DUCT TO FLOOR USING M6ANC (OR TEK SCREW TO INSULATED OVEN FLOOR WHERE FITTED).

STAGE 9 :-

FIT INTERNAL ESCAPE HANDLE TO RH DOOR USING M6HHS.
FIT OVEN LOCKING MECHANISM FLOOR SOCKET TO FLOOR USING M8 ANCS.
FIT DAMPER RAILS TO UNDERSIDE OF BURNER BOX FLOOR PANEL AROUND AIR INTAKE APERTURE USING TEK SCREWS AND FIT SLIDE DAMPER.
FIT DAMPER RAILS TO OUTER SKIN OF OVEN SIDE PANEL AROUND BREATHER APERTURE USING TEK SCREWS AND FIT SLIDE DAMPER.
FIT PRESSURE SWITCH PROBE THROUGH 15mm HOLE IN BURNER BOX ROOF PANEL AND PRESSURE SWITCH BRACKET TO SIDE OF BURNER BOX USING TEK SCREWS AND CONNECT PRESSURE SWITCH TO PROBE (SEE DETAIL E).
FIT NAMEPLATES TO DOOR AND SIDE OF BURNER BOX USING TEK SCREWS.
SEAL AROUND ALL EXTERIOR JOINTS ON OVEN WITH GEO-CEL FIREBLOCK.
FIT BUTTERFLY DAMPER TO FUME BLEED SPIGOT USING TEK SCREWS AND DUCT TO ATMOSPHERE TERMINATING IN A CHINA COWL. SEAL ALL DUCT WITH GEO-CEL FIREBLOCK AND FIX WITH TEK SCREWS.
WIPE OFF ANY PANEL MARKINGS USING THINNERS.
PAINT OVEN IF APPLICABLE (USE APPROPRIATE SAFETY EQUIPMENT.
SPIN FAN IMPELLOR(S) TO ENSURE THEY ARE RUNNING FREE.
REMOVE ANY SHARP EDGES OR BURRS.
TIDY UP SITE.
INFORM RDM OF ANY MISSING ITEMS/FAULTS.

OVEN SPECIFICATION

INTERNAL USEABLE DIMENSIONS : 3.0m x 5.0m x 2.0 HIGH
(2) FE PF4000/3S RECIRC FANS / (1) FE FF1000/0.55 FUME FAN
NAT. GAS BURNER
OVEN INTERIOR : GALV / OVEN EXTERIOR : GALV
100gsm 100mm ROCKWOOL / TEMP RANGE : 100-250°C.

OVEN SERVICE CONNECTIONS (CONNECTION BY CUSTOMER).

8.5 THERM @ 8" WG NAT GAS SUPPLY TO BURNER REQUIRED.
7 kW 3 Ph & N ELECTRIC SUPPLY TO OVEN CONTROL PANEL REQUIRED. PANEL SHOWN IN SUGGESTED POSITION ONLY - CUSTOMER TO CONFIRM DESIRED POSITION.
HOLE TO BE CUT IN ROOF OR WALL OF BUILDING TO SUIT 150mm DIA FLUE DUCT FROM OVEN. HOLE TO BE SEALED UP BY CUSTOMER ONCE DUCT HAS BEEN ERECTED.

ISSUE	REVISION	DATE	SIGN

TITLE

PLAN AND ELEVATIONS OF STANDARD RDM BOX OVEN

RDM ENGINEERING
MIDDLETON
MANCHESTER
M24 2RY
TEL: 0161 643 9333
FAX: 0161 655 3467
A DIVISION OF RDM INDUSTRIAL SERVICES LTD.

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SCALE 0 1000

DRAWN J R DAVEY	DATE 08.03.2007
CH'K'D	DATE
SCALE 1 : 50 (A1 SHEET)	FIRST ANGLE PROJECTION
IF IN DOUBT ASK DO NOT SCALE	ALL DIMENSIONS IN MILLIMETRES
ORDER 46202	DRG No 32358

CUSTOMER :-
S MacNEILLIE & SON Ltd.